FALCONBRIDGE LIMITED
701 - 1281 West Georgia Street
Vancouver, B.C. V6E 3J7

1988 INTERIM DRILLING REPORT

CHEMAINUS JOINT VENTURE

VOLUME 2 of 3

APPENDIX 3: DRILL LOGS AND ANALYTICAL RESULTS

SEPTEMBER, 1988

APPENDIX 3 : DRILL LOGS AND ANALYTICAL RESULTS

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23 | Page Number 1

Hole Location: 28+00 E 1+10 N

NTS: 092/B13 UTM: 5417132.2 N 430195.7 E
Azimuth: 210 Elevation: 545 m
Dip: -50 Length: 568.8 m

Started: April 18, 1988
Completed: April 22, 1988

Claim No. CHIP1
Section No.: Line 28+00 East, Chip Group

Logged By: David P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To extend CHEM87-23 through the Anita gabbro DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
80.80	210.0	-45.0	349.30	214.0	-39.0
117.70	211.0	-42.0	416.40	216.0	-38.0
199.90	212.0	-40.0	449.50	217.0	-38.0
279.20	212.0	-40.0	559.60	221.0	-38.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	4.9	OVERBURDEN											
4.9	33.0	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB21506	9.0	10.0	1.0	n/a	11	<5	30	<1	<5	1000
			AB21507	10.0	11.0	1.0	n/a	15	25	117	<1	<5	1300
			AB21508	11.0	12.0	1.0	n/a	8	12	37	<1	<5	1200
			AB15457	14.1	14.2	.1	n/a	25	n/a	38	n/a	n/a	870
			AB21509	15.1	16.1	1.0	n/a	24	5	35	<1	<5	880
			AB21510	16.1	16.6	.5	n/a	40	<5	198	<1	<5	350
			AB21511	16.6	17.6	1.0	n/a	45	9	39	<1	<5	830
			AB15458	22.5	22.6	.1	n/a	12	n/a	42	n/a	n/a	1270
33.0	36.0	FELDSPAR PORPHYRITIC MAFIC ASH TUFF											
			AB15459	33.0	33.0	.0	n/a	82	n/a	160	n/a	n/a	1410
			AB21512	33.0	34.0	1.0	n/a	22	11	79	<1	<5	1000
			AB21513	34.0	35.0	1.0	n/a	14	5	45	<1	<5	1300
			AB21514	35.0	36.0	1.0	n/a	4	6	34	<1	<5	1100
36.0	126.0	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB15460	45.5	45.6	.1	n/a	19	n/a	31	n/a	n/a	910
			AB21515	48.0	49.0	1.0	n/a	6	5	24	<1	<5	1300
			AB21516	49.0	50.5	1.5	n/a	15	<5	59	<1	<5	1500
			AB21517	50.5	51.5	1.0	n/a	13	9	37	<1	<5	990
			AB15461	61.3	61.4	.1	n/a	5	n/a	33	n/a	n/a	960
			AB21518	72.0	73.0	1.0	n/a	9	6	27	<1	<5	1000
			AB15462	74.0	74.1	.2	n/a	29	n/a	52	n/a	n/a	1000
			AB15463	85.0	85.1	.1	n/a	24	n/a	20	n/a	n/a	810

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
			AB21519	97.0	98.0	1.0	n/a	2	7	27	<1	<5	980
			AB15464	99.3	99.4	.1	n/a	23	n/a	32	n/a	n/a	980
			AB15465	112.6	112.7	.1	n/a	20	n/a	41	n/a	n/a	980
			AB15466	123.6	123.7	.1	n/a	29	n/a	33	n/a	n/a	980
126.0	127.0	CHLORITE SCHIST											
			AB21520	126.0	127.0	1.0	n/a	4	<5	70	<1	<5	530
127.0	131.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
131.3	142.8	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF											
			AB15467	134.4	134.6	.2	n/a	72	n/a	39	n/a	n/a	1160
142.8	155.9	CHLORITIC FELSIC QUARTZ EYE TUFF											
			AB15468	148.6	148.7	.1	n/a	15	n/a	22	n/a	n/a	1000
155.9	186.0	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB15472	157.1	157.3	.2	n/a	4	n/a	43	n/a	n/a	900
			AB15473	162.6	162.8	.2	n/a	28	n/a	28	n/a	n/a	740
			AB15469	165.6	165.7	.1	n/a	5	n/a	40	n/a	n/a	1000
			AB15474	169.9	170.0	.1	n/a	20	n/a	39	n/a	n/a	1040
			AB15475	175.6	175.8	.2	n/a	5	n/a	24	n/a	n/a	470
			AB15470	176.0	176.1	.1	n/a	22	n/a	55	n/a	n/a	590
			AB15471	184.7	184.9	.2	n/a	28	n/a	55	n/a	n/a	1690
186.0	189.5	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF											
189.5	193.5	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB21521	189.5	190.4	.9	n/a	75	273	2863	<1	20	1300
			AB21522	190.4	191.3	.9	n/a	1014	115	480	<1	20	1200
			AB21523	191.3	192.2	.9	n/a	89	12	271	<1	<5	1100
			AB21524	192.5	193.5	1.0	n/a	72	48	411	<1	15	1600
193.5	202.0	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF											
			AB15476	193.9	194.0	.1	n/a	14	n/a	40	n/a	n/a	1300
			AB15477	195.2	195.3	.1	n/a	110	n/a	130	n/a	n/a	960
202.0	220.9	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB15478	209.0	209.1	.1	n/a	15	n/a	23	n/a	n/a	980
			AB15479	218.1	218.2	.1	n/a	59	n/a	81	n/a	n/a	960

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
220.9	232.3	WEAKLY CHLORITIC FELSIC TUFF											
			AB15480	221.3	221.4	.1	n/a	60	n/a	67	n/a	n/a	660
			AB21525	222.3	223.2	.9	n/a	38	14	237	<1	5	860
			AB21526	223.2	223.9	.7	n/a	24	8	190	<1	<5	940
			AB15481	223.9	224.0	.1	n/a	137	n/a	204	n/a	n/a	1190
232.3	248.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB21527	232.9	233.9	1.0	n/a	45	8	85	<1	<5	800
			AB15482	235.3	235.4	.1	n/a	78	n/a	73	n/a	n/a	1090
			AB15483	247.1	247.2	.1	n/a	31	n/a	45	n/a	n/a	920
248.2	252.3	INTERMEDIATE FLOW?											
			AB21528	249.5	250.5	1.0	n/a	121	6	1610	<1	15	300
			AB15484	250.5	250.6	.1	n/a	86	n/a	180	n/a	n/a	240
			AB21529	250.6	252.8	2.2	n/a	45	6	145	<1	<5	830
252.3	265.9	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB21530	252.8	254.0	1.2	n/a	5	6	45	<1	5	1300
			AB21531	254.0	254.8	.8	n/a	2	8	14	<1	<5	1300
			AB15485	254.8	255.0	.2	n/a	3	n/a	26	n/a	n/a	1240
			AB21532	255.0	256.0	1.0	n/a	27	8	36	<1	<5	1100
			AB21533	256.0	257.0	1.0	n/a	1	7	25	<1	<5	1800
			AB21534	257.0	258.0	1.0	n/a	15	9	18	<1	<5	1100
			AB21535	258.0	259.0	1.0	n/a	1	6	16	<1	<5	1100
			AB21536	259.0	260.0	1.0	n/a	1	5	24	<1	<5	990
			AB21537	260.0	261.0	1.0	n/a	9	7	34	<1	<5	1100
			AB21538	261.0	262.0	1.0	n/a	2	8	16	<1	<5	1400
			AB21539	262.0	264.0	2.0	n/a	12	7	105	<1	<5	1200
			AB21540	264.0	264.9	.9	n/a	9	11	31	<1	10	1400
			AB21541	264.9	266.0	1.1	n/a	86	17	52	<1	10	<20
265.9	270.9	FAULT ZONE											
270.9	278.1	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
			AB15486	272.6	272.8	.1	n/a	33	n/a	46	n/a	n/a	830
278.1	279.8	FELSIC TUFF											
			AB15487	278.3	278.4	.1	n/a	2	n/a	37	n/a	n/a	471
279.8	298.3	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
			AB15488	284.5	284.6	.1	n/a	20	n/a	184	n/a	n/a	1520
			AB15489	291.5	291.6	.1	n/a	68	n/a	611	n/a	n/a	913
			AB21542	296.0	297.0	1.0	n/a	190	<5	130	<1	5	870
			AB21543	297.0	298.3	1.3	n/a	433	6	147	<1	10	<20

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23 | Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
298.3	330.8	FELSIC QUARTZ EYE TUFF											
			AB21544	298.3	299.0	.7	n/a	60	6	70	<1	10	730
			AB21545	299.0	300.0	1.0	n/a	106	5	57	<1	25	990
			AB21546	300.0	301.0	1.0	n/a	366	8	68	<1	55	1200
			AB21547	301.0	302.0	1.0	n/a	57	5	43	<1	15	1500
			AB21548	302.0	303.0	1.0	n/a	36	6	43	<1	10	1300
			AB21549	303.0	304.0	1.0	n/a	81	7	49	<1	15	1400
			AB21550	304.0	305.0	1.0	n/a	188	16	58	<1	5	1100
			AB21557	305.0	306.0	1.0	n/a	145	55	216	<1	25	1300
			AB21558	306.0	307.0	1.0	n/a	43	40	362	<1	5	920
			AB21559	307.0	308.0	1.0	n/a	106	8	2470	<1	10	1600
			AB21560	308.0	310.0	2.0	n/a	249	17	202	<1	<5	2000
			AB21561	310.0	311.0	1.0	n/a	156	14	97	<1	15	2600
			AB21562	311.0	312.0	1.0	n/a	154	28	93	<1	30	2700
			AB21563	312.0	313.0	1.0	n/a	226	16	90	<1	30	2800
			AB21564	313.0	314.0	1.0	n/a	93	25	78	<1	15	2800
			AB21565	314.0	315.0	1.0	n/a	117	15	86	<1	10	3200
			AB21566	315.0	316.0	1.0	n/a	147	97	164	<1	40	2900
			AB21567	316.0	317.0	1.0	n/a	433	944	1164	2	170	2100
			AB21568	317.0	318.0	1.0	n/a	308	142	244	1	220	1700
			AB21569	318.0	319.0	1.0	n/a	280	103	199	<1	80	1900
			AB21570	319.0	320.0	1.0	n/a	326	105	274	1	100	2500
			AB21571	320.0	321.0	1.0	n/a	296	37	170	<1	75	2200
			AB21572	321.0	322.0	1.0	n/a	30	11	55	<1	25	1200
			AB21573	322.0	323.0	1.0	n/a	18	10	37	<1	15	1100
			AB21574	323.0	324.0	1.0	n/a	4	12	39	<1	10	1400
			AB21575	324.0	325.0	1.0	n/a	15	16	50	<1	20	1300
			AB21576	325.0	326.0	1.0	n/a	44	432	232	<1	20	1000
			AB21577	326.0	327.0	1.0	n/a	46	167	444	<1	10	1200
			AB21578	327.0	328.0	1.0	n/a	26	100	258	<1	10	2000
			AB21579	328.0	329.0	1.0	n/a	37	95	204	<1	45	2200
			AB21580	329.0	330.0	1.0	n/a	28	121	240	<1	25	3000
			AB21581	330.0	330.8	.8	n/a	31	32	30	<1	25	2400
330.8	449.5	MAFIC INTRUSIVE											
			AB21852	330.8	332.0	1.2	n/a	229	7	75	<1	10	50
			AB15490	339.6	339.7	.1	n/a	6	n/a	190	n/a	n/a	161
			AB15491	347.8	347.9	.1	n/a	210	n/a	140	n/a	n/a	148
			AB21583	385.0	386.0	1.0	n/a	165	9	66	<1	20	120
			AB15492	408.3	408.5	.2	n/a	135	n/a	93	n/a	n/a	125
449.5	480.7	FELDSPAR PORPHYRITIC GABBRO											
		Hole was re-entered on April 18th, plastic pipe was pulled and hole was reemed out with 0.7 m lost core and first core at 450.2.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23 | Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	450.2	467.2 Medium to coarse grained gabbro with weak local chloritization around quartz - calcite veins with trace chalcopyrite. 40 to 55 %, 2 to 4 mm, feldspars, 30 to 35 % chloritized hornblende crystals, 2 to 4 mm, 2 to 7 %, 1 to 2 mm, ilmenite grains and 5 % veins.											
	467.2	467.8 White bull quartz vein with minor chlorite and trace chalcopyrite.											
	467.8	472.2 Similiar to 450.2 to 467.2.											
	472.2	475.0 Fine-grained medium green plagiophyric gabbro with approximately 12 %, 2 to 3 mm, feldspar grains. There are numerous 5 to 15 cm quartz - chlorite veins.											
	475.0	475.9 Quartz - chlorite - chalcopyrite vein with 0.5 to 1 % chalcopyrite clots.											
	475.9	479.1 Similiar to 472.2 to 475.0, becomes finer grained near the end. There is minor sphalerite or red - brown biotite in a quartz veinlet at 476.5.											
		Core barrel did not lock at 480.7 and 1.8 m was lost from 477.6 to 480.7.											
480.7	487.0	FELSIC FELDSPAR CRYSTAL TUFF Massive light grey to white siliceous felsic tuff with 10 to 15 %, < 1 mm feldspar grains and locally from 486.2 to 486.8 there are 5 to 10 %, 2 to 3 mm, feldspars. In the upper 2 m there are up to 2 % biotite specks. The feldspars are altered to (?), light brown core, not a carbonate or sphalerite, is biotite (?) or probably a epidote group mineral. There is 1 to 2 % disseminated fine-grained pyrite and 0.5 % fracture controlled pyrite with local strong pyrite and or pyrrhotite. 0.5 to 1 cm pyrite bands at 482.2, 485.4 and 485.5. Pyrrhotite occurs as bands from 482.2 to 482.4, 1 %. There is very local fracture controlled carbonatization. Minor ash tuff beds occur. There is weak thermal biotite near the lower and upper contacts. Structure :. Bedding :. 482.3 : 82 degrees to core axis. Foliations :. 481.2 : 65 degrees to core axis. 486.4 : 78 degrees to core axis.	VA01577	480.7	482.0	1.3	n/a	60	<5	46	<1	<5	1500
			VA01033	480.7	487.0	6.3	n/a	23	n/a	392	n/a	n/a	1380
			VA01578	482.0	483.0	1.0	n/a	78	12	485	<1	<5	1400
			VA01579	483.0	484.0	1.0	n/a	30	38	406	<1	<5	1200
			VA01580	484.0	485.0	1.0	n/a	50	21	817	<1	<5	1100
			VA01581	485.0	486.0	1.0	n/a	43	13	639	<1	<5	1200
			VA01582	486.0	487.0	1.0	n/a	29	8	134	<1	<5	1500
487.0	488.9	MAFIC INTRUSIVE Fine-grained medium green mafic sill with very sharp contacts and silicified tuff at contacts. Is massive with 3 to 7 %, average 5 %, disseminated and fracture	VA01583	487.0	488.0	1.0	n/a	349	<5	135	<1	19	80
			VA01584	488.0	488.9	.9	n/a	291	<5	127	<1	17	70

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		controlled pyrite. There is no visible alteration. There is a 0.5 cm thick band of epidotized feldspar laths at 488.4. Is massive with no foliation.											
488.9	491.0	FELSIC FELDSPAR CRYSTAL TUFF Similiar to 480.7 to 487.0. Is more siliceous with strongly increased thermal biotite. There is approximately 1 % total sulphides with trace fracture controlled or banded chalcopyrite with pyrite and minor pyrrhotite from 489.5 to 489.8. There is trace sphalerite, chalcopyrite and pyrrhotite with 0.5 to 1 % fracture controlled and disseminated pyrite from 490.1 to 490.4. There are trace fragments and very weak chloritization. Foliation trend is at 55 degrees to core axis.	VA01585 VA01586	488.9 490.0	490.0 491.0	1.1 1.0	n/a n/a	238 162	<5 8	35 264	<1 <1	36 <5	1600 1700
491.0	491.9	MAFIC INTRUSIVE Fine-grained contorted medium green mafic dyke or sill with 2 % fracture controlled pyrite and moderate to strong pervasive carbonatization. Blocky, highly fractured core with foliation at approximately 0 degrees to core axis.	VA01587	491.0	491.9	.9	n/a	288	11	135	<1	<5	230
491.9	502.2	FELSIC FELDSPAR CRYSTAL TUFF Similiar to 480.7 to 487.0 with trace to nil thermal biotite near upper contact. 491.9 499.6 Very sericitic with 10 to 20 %, < 1 mm, feldspars. Is contorted and disky with very local fracture controlled silicification. From 493.0 to 493.5 there is 3 to 5 % pyrite parallel to foliation as bands. Average pyrite is 0.5 % up to 1 % disseminated and weakly banded parallel to foliation. 499.6 501.7 Very siliceous tuff, appears to be either very silicified, pervasive and fracture controlled or is a dyke. Is glassy massive white rock with 3 to 5 % fine-grained feldspars. 501.7 502.2 Weakly chloritic tuff with 0.5 % chalcopyrite and 3 to 4 % pyrite, disseminated and parallel to foliation. There are very fine-grained feldspars. Foliations :. 494.1 : 56 degrees to core axis. 495.6 : 50 degrees to core axis. 496.8 : 76 degrees to core axis. 501.8 : 83 degrees to core axis.	VA01588 VA01589	493.0 501.7	493.5 502.2	.5 .5	n/a n/a	129 1110	6 <5	50 33	<1 1	6 10	1500 1300
502.2	502.3	MAFIC TUFF											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23 | Page Number 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Fine-grained schist with chlorite and biotite, is green brown with strong pervasive carbonatization. 502.2 502.3 STRONG PERVASIVE CARBONATIZATION. Foliation : 82 degrees to core axis.											
502.3	521.6	FELSIC FELDSPAR CRYSTAL LAPILLI TUFF Either variably silicified felsic tuff or is lapilli tuff with grey siliceous 1 to 3 cm thick, and core width + wide. With a sericite and 10 %, 1 to 2 mm, feldspar crystal matrix. There is minor weak fracture controlled silicification and carbonatization in the (?) lapilli. There are 5 %, 1 to 4 mm, quartz eyes in sericite from 511.0 to 511.2, there are trace on average. There is on average 0.5 % disseminated and banded pyrite, most pyrite clots and bands contain chalcopyrite. There are numerous quartz veins with pyrite clots, i.e. 509.9 to 510.5 with 5 %, 3 to 7 mm, pyrite cubes with trace chalcopyrite. Chalcopyrite blebs occur at 507.8, 507.9, 516.4, 506.5 and 521.4. At 509.5 there is 5 cm of 10 to 15 % banded or parallel to foliation pyrite. At 521.4 there is a stringer (?) , 1.5 cm of 60 % pyrite and 5 % chalcopyrite. Foliations :. 505.1 : 71 degrees to core axis. 511.2 : 75 degrees to core axis. 515.2 : 67 degrees to core axis. 519.3 : 84 degrees to core axis. Fault slips :. Minor at 517.8 at 25 degrees to core axis with 17 mm displacement. Minor at 520.6 at 45 degrees to core axis.	VA01034	503.0	520.0	17.0	n/a	106	n/a	22	n/a	n/a	1620
			VA01590	506.4	508.1	1.7	n/a	441	<5	25	<1	40	1300
			VA01591	509.0	510.5	1.5	n/a	295	<5	12	<1	80	1000
			VA01592	521.1	521.6	.5	n/a	403	<5	21	1	56	1600
521.6	522.3	FELSIC SILL OR DYKE Similiar to 499.6 to 501.7, probably is a dyke.											
522.3	524.5	FELSIC QUARTZ EYE TUFF Schist with 1 cm of fine-grained black sulphide mud at 40 degrees to core axis at upper contact. Is very sericitic with local possible sericitized lapilli. There is 7 % fine-grained pyrite banded parallel to foliation, 35 to 70 degrees to core axis. There are numerous local faults at 20 degrees to core axis, 60 degrees to core axis and numerous other orientations. At 523.8 there is a 0.3 cm chalcopyrite bleb with pyrite. 522.3 524.5 STRONG PERVASIVE SERICITIZATION.	VA01593	522.3	523.4	1.1	n/a	71	<5	9	<1	49	940
			VA01594	523.4	524.5	1.1	n/a	130	<5	433	<1	20	610
524.5	527.0	MAFIC LAPILLI TUFF Mafic tuff with local 0.7 to 1 cm quartz lapilli and 2 to	VA01595	524.5	526.0	1.5	n/a	133	18	129	<1	38	120

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		5 cm epidotized clasts. Has 2 to 5 % hornblende crystals with local mafic fragments, up to 1 mm. There is strong fracture controlled carbonatization with 1 % fracture controlled and disseminated pyrite centred on carbonatization and epidotization.	VA01035	524.5	527.0	2.5	n/a	107	n/a	53	n/a	n/a	115
			VA01596	526.0	527.0	1.0	n/a	63	<5	52	<1	31	330
527.0	535.4	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Bleached mafic flow with strong fracture controlled carbonatization and strong pervasive carbonatization. There is 30 to 65 %, 1 to 3 mm, hornblende crystals in a fine-grained white, feldspar and carbonate (?), matrix. Is blocky, highly fractured core. There is local epidotized fragments and epidote and calcite veinlets. There is no foliation. Alteration :. 527.0 535.4 STRONG PERVASIVE CARBONATIZATION. 527.0 535.4 STRONG FRACTURE CONTROLLED CARBONATIZATION.	VA01036	527.0	535.0	8.0	n/a	159	n/a	67	n/a	n/a	239
535.4	535.5	FAULT ZONE Ground mafic flow as above.											
535.5	545.6	MAFIC TUFFS WITH MINOR CHERTY SEDIMENTS Cherty sediments in mafic tuff with thermal biotite. There are 20 to 30 %, < 1 mm, feldspar grains in the matrix. The cherts are green, red, brown, cream and white. The cherts are folded with 1 % fracture controlled pyrite. There are minor faults perpendicular to bedding. At 541.6, tops is downhole and bedding is at 38 degrees to core axis. At 544.8 bedding is at 64 degrees to core axis. Bedding varies throughout, foliation is constant at 65 to 70 degrees to core axis.	VA01597	535.5	537.0	1.5	n/a	47	<5	117	<1	22	980
			VA01598	537.0	538.5	1.5	n/a	56	<5	106	<1	14	810
			VA01599	538.5	540.0	1.5	n/a	48	<5	107	<1	5	800
			VA01600	540.0	541.5	1.5	n/a	44	<5	120	<1	5	890
			VA01601	541.5	543.0	1.5	n/a	41	<5	101	<1	8	900
			VA01602	543.0	544.5	1.5	n/a	44	<5	113	<1	8	790
			VA01603	544.5	545.6	1.1	n/a	36	<5	139	<1	<5	190
545.6	553.0	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Mafic flow, very similiar to 527.0 to 535.4. Hosts 40 %, 1 to 4 mm, hornblendes, 10 % feldspar and epidotized feldspars, up to 1 mm, in fine-grained light green matrix with local epidote spots, up to 5 mm. There is strong fracture controlled carbonatization with minor associated epidotization. At 552.4 there is chalcopyrite blebs in a carbonate - quartz - chlorite vein. There is minor local biotite in veins. There is a weak foliation at 61 degrees to core axis. The flow is light to medium green and massive.	VA01037	546.0	553.0	7.0	n/a	188	n/a	69	n/a	n/a	304
553.0	568.8	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Green to red - brown andesitic tuffs with 3 to 5 %, up to	VA01038	553.0	568.0	15.0	n/a	188	n/a	98	n/a	n/a	759

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23 | Page Number 9

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		1 mm, quartz eyes and 10 % , up to 1 mm, feldspar grains. There are numerous minor fracture controlled quartz - calcite veinlets, up to 5 mm, at orientations of 0 to 90 degrees to core axis. There are dark brown cherty argillics and light brown, green, and white chert beds throughout. Bedding is at 60 to 70 degrees to core axis. Beds are cross-cut but minor faults and fracture controlled quartz veinlets. There is up to 1 % fracture controlled pyrite in the beds, averages < 0.5 %. There are conclusive tops downhole at 560.1. Majority of sediments occur from 553.0 to 560.2 and from 566.0 to 568.8. Thermal biotite is strongest with sediments and weak to nil from 560.2 to 566.	VA01604	553.6	555.1	1.5	n/a	92	<5	91	<1	7	470
			VA01605	555.1	556.6	1.5	n/a	95	<5	77	<1	9	820
			VA01606	556.6	557.8	1.2	n/a	93	<5	104	<1	21	870
			VA01607	558.7	560.0	1.3	n/a	71	<5	88	<1	<5	790
			VA01608	566.1	568.0	1.9	n/a	84	<5	91	<1	<5	1300
		End of hole 1866 feet, Friday April 22, 1988 at 1:30 p.m.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00567	487.90	488.00	50.40	14.30	3.95	5.36	3.04	0.13	12.30	2.30	0.41	0.14	6.23	98.56	113.	44.	7.
VA00568	494.10	494.20	70.70	14.10	1.14	1.31	2.90	2.39	2.86	0.31	0.07	0.03	2.62	98.43	1560.	48.	4.
VA00569	501.20	501.30	75.90	13.30	1.02	0.15	6.60	0.74	0.33	0.30	0.07	0.01	1.00	99.42	486.	10.	8.
VA00570	514.00	514.10	72.10	14.20	0.30	0.61	0.99	3.45	3.42	0.30	0.02	<0.01	3.39	98.78	1760.	76.	1.
VA00571	522.00	522.10	76.10	12.90	1.10	0.16	5.66	1.03	0.59	0.29	0.03	0.01	1.16	99.03	581.	15.	7.
VA00572	548.00	548.10	48.30	11.10	12.90	10.20	1.74	0.18	9.68	0.50	0.11	0.17	3.16	98.04	57.	41.	15.
VA00573	563.20	563.30	54.10	17.80	5.76	3.46	3.97	0.41	8.67	0.96	0.37	0.20	2.93	98.63	220.	28.	10.
VA00574	566.00	566.10	48.10	16.40	11.30	3.54	1.64	1.69	8.69	0.98	0.39	0.20	5.62	98.55	1200.	29.	13.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01033	480.70	487.00	71.90	14.10	1.81	0.92	1.02	3.46	2.12	0.30			2.54	98.17	1380.	61.	3.
VA01034	503.00	520.00	70.30	15.50	0.72	0.71	2.37	3.04	2.81	0.35			3.08	98.88	1620.	55.	3.
VA01035	524.50	527.00	46.10	17.00	9.03	5.31	3.47	0.13	12.00	1.11			3.70	97.85	115.	30.	13.
VA01036	527.00	535.00	47.10	11.90	13.60	8.74	2.17	0.33	9.44	0.51			4.31	98.10	239.	37.	16.
VA01037	546.00	553.00	48.30	11.70	12.20	9.01	2.36	0.45	9.44	0.50			4.54	98.50	304.	39.	15.
VA01038	553.00	568.00	50.60	17.70	5.71	4.45	3.41	1.20	9.87	1.02			3.77	97.73	759.	38.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01577	480.70	482.00	1500.0	60.0	46.0	<0.5	<5.0	5.0	2.0	<5.0	9.0	<1.0	<1.0	82.0	57.	2.	1.
VA01578	482.00	483.00	1400.0	78.0	485.0	<0.5	<5.0	7.0	3.0	12.0	18.0	4.0	<1.0	77.0	14.	4.	1.
VA01579	483.00	484.00	1200.0	30.0	406.0	<0.5	<5.0	5.0	2.0	38.0	8.0	2.0	<1.0	197.0	7.	3.	1.
VA01580	484.00	485.00	1100.0	50.0	817.0	<0.5	<5.0	3.0	2.0	21.0	11.0	4.0	<1.0	202.0	6.	3.	1.
VA01581	485.00	486.00	1200.0	43.0	639.0	<0.5	<5.0	4.0	3.0	13.0	8.0	3.0	<1.0	134.0	6.	3.	1.
VA01582	486.00	487.00	1500.0	29.0	134.0	<0.5	<5.0	7.0	3.0	8.0	6.0	<1.0	<1.0	217.0	18.	3.	1.
VA01583	487.00	488.00	80.0	349.0	135.0	<0.5	19.0	32.0	21.0	<5.0	22.0	<1.0	<1.0	700.0	72.	5.	5.
VA01584	488.00	488.90	70.0	291.0	127.0	<0.5	17.0	29.0	22.0	<5.0	12.0	1.0	<1.0	697.0	70.	5.	4.
VA01585	488.90	490.00	1600.0	238.0	35.0	<0.5	36.0	6.0	2.0	<5.0	5.0	<1.0	<1.0	119.0	87.	1.	1.
VA01586	490.00	491.00	1700.0	162.0	264.0	<0.5	<5.0	3.0	2.0	8.0	<5.0	3.0	<1.0	73.0	38.	1.	1.
VA01587	491.00	491.90	230.0	288.0	135.0	<0.5	<5.0	34.0	66.0	11.0	8.0	<1.0	2.0	718.0	68.	1.	4.
VA01588	493.00	493.50	1500.0	129.0	50.0	<0.5	6.0	13.0	22.0	6.0	<5.0	<1.0	<1.0	211.0	72.	4.	2.
VA01589	501.70	502.20	1300.0	1110.0	33.0	0.8	10.0	9.0	4.0	<5.0	8.0	2.0	2.0	46.0	97.	4.	2.
VA01590	506.40	508.10	1300.0	441.0	25.0	<0.5	40.0	5.0	4.0	<5.0	<5.0	<1.0	3.0	30.0	95.	1.	2.
VA01591	509.00	510.50	1000.0	295.0	12.0	<0.5	80.0	9.0	3.0	<5.0	10.0	<1.0	2.0	31.0	96.	3.	3.
VA01592	521.10	521.60	1600.0	403.0	21.0	0.5	56.0	11.0	3.0	<5.0	7.0	<1.0	3.0	33.0	95.	2.	2.
VA01593	522.30	523.40	940.0	71.0	9.0	<0.5	49.0	6.0	3.0	<5.0	16.0	<1.0	4.0	16.0	89.	7.	2.
VA01594	523.40	524.50	610.0	130.0	433.0	<0.5	20.0	11.0	11.0	<5.0	14.0	5.0	2.0	56.0	23.	7.	2.
VA01595	524.50	526.00	120.0	133.0	129.0	<0.5	38.0	29.0	93.0	18.0	8.0	2.0	<1.0	631.0	51.	1.	4.
VA01596	526.00	527.00	330.0	63.0	52.0	<0.5	31.0	23.0	28.0	<5.0	8.0	<1.0	<1.0	572.0	55.	1.	4.
VA01597	535.50	537.00	980.0	47.0	117.0	<0.5	22.0	14.0	13.0	<5.0	13.0	1.0	1.0	753.0	29.	1.	4.
VA01598	537.00	538.50	810.0	56.0	106.0	<0.5	14.0	14.0	14.0	<5.0	19.0	<1.0	<1.0	838.0	35.	1.	4.
VA01599	538.50	540.00	800.0	48.0	107.0	<0.5	5.0	13.0	14.0	<5.0	5.0	<1.0	<1.0	708.0	31.	1.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01600	540.00	541.50	890.0	44.0	120.0	<0.5	5.0	15.0	2.0	<5.0	13.0	<1.0	<1.0	806.0	27.	1.	4.
VA01601	541.50	543.00	900.0	41.0	101.0	<0.5	8.0	13.0	3.0	<5.0	16.0	1.0	<1.0	727.0	29.	1.	4.
VA01602	543.00	544.50	790.0	44.0	113.0	<0.5	8.0	15.0	5.0	<5.0	18.0	<1.0	<1.0	847.0	28.	1.	4.
VA01603	544.50	545.60	190.0	36.0	139.0	<0.5	<5.0	9.0	21.0	<5.0	13.0	2.0	4.0	462.0	21.	1.	2.
VA01604	553.60	555.10	470.0	92.0	91.0	<0.5	7.0	16.0	15.0	<5.0	<5.0	2.0	<1.0	563.0	50.	1.	4.
VA01605	555.10	556.60	820.0	95.0	77.0	<0.5	9.0	17.0	12.0	<5.0	21.0	1.0	<1.0	519.0	55.	1.	4.
VA01606	556.60	557.80	870.0	93.0	104.0	<0.5	21.0	21.0	10.0	<5.0	8.0	2.0	<1.0	790.0	47.	1.	5.
VA01607	558.70	560.00	790.0	71.0	88.0	<0.5	<5.0	17.0	13.0	<5.0	<5.0	1.0	<1.0	826.0	45.	1.	5.
VA01608	566.10	568.00	1300.0	84.0	91.0	<0.5	<5.0	20.0	14.0	<5.0	<5.0	2.0	<1.0	1035.0	48.	1.	5.

Summary Log: DDH CH88-38
Location: 47+00 E, 0+38 N; Chip 1 Claim
Azimuth: 210, Dip: -65
Hole Completed: April 11, 1988
Core logged by: D.P. Money

0.0	3.7	Casing.
3.7	31.5	Intercalated mafic and felsic ash and crystal tuffs.
31.5	69.5	Felsic lapilli tuff.
69.5	102.0	Intercalated chloritic felsic crystal tuffs and hornblende-bearing mafic tuffs.
102.0	139.7	Felsic flow or coarse crystal tuff.
139.7	161.4	Fine grained plagiophyric gabbro.
161.4	201.8	Mafic flow.
201.8	251.3	Intercalated felsic tuffs, dacitic tuffs and mafic flows.
251.3	264.9	Felsic crystal tuff, hosts two 20 to 30 cm zones of weak chalcopyrite and pyrrhotite, which are the downdip extent of the pulse E.M. anomaly.
264.9	269.4	Fine grained plagiophyric gabbro.
269.4	281.4	Mafic ash tuff.
281.4	288.3	Felsic crystal tuff.
288.3	314.5	Mafic ash tuff.
314.5	317.9	Major thrust fault, splay off the Fulford Fault.
317.9	319.1	Pyritic felsic tuff with 4 % pyrite.
319.1	332.5	Andesitic crystal tuff.
332.5	346.4	Intercalated felsic and mafic tuffs.
346.4	358.8	Pyritic felsic tuff with 2 % pyrite.
358.8	373.0	Fine grained plagiophyric gabbro.
373.0	393.4	Intercalated felsic and mafic tuffs.
393.4	436.0	Mafic tuffs with numerous thin chert beds.
436.0	438.0	Gabbro.
438.0		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-38 | Page Number 1

Hole Location: 47+00 E 0+38 S

NTS: 092B/13 UTM: 5416053.2 N 431803.0 E
Azimuth: 210 Elevation: 660 m
Dip: -65 Length: 438.0 m

Started: April 4, 1988
Completed: April 11, 1988

Claim No. Chip 1
Section No.: Section 47+00 East, Chip Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test PEM anomaly downdip of Chem87-34

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
3.70	203.0	-65.0	272.50	205.0	-55.0
91.40	202.0	-64.0	367.30	210.0	-51.0
188.10	206.0	-58.0	435.90	208.0	-51.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.7	OVERBURDEN Contains rounded chips of rusty silicified feldspar bearing tuff.											
3.7	6.9	*FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF* Grey to light blue siliceous felsic tuff with 10 to 20 % feldspar grains and up to 5 % quartz eyes. Locally oxidized with minor vugs and fractures. There are trace rusty pyrite cubes, up to 1.5 mm. Feldspars are variably sausuritized. Colour variations are due to variable chlorite content, nil to up to 5 %. 3.7 4.0 WEAK PERVASIVE CHLORITIZATION. 4.7 6.9 WEAK PERVASIVE CHLORITIZATION. Structure:. Foliations :. 3.8 M : 45 degrees to core axis. 5.2 M : 46 degrees to core axis.											
6.9	7.0	FAULT ZONE Blocky, highly fractured core with sheared rubble of underlying mafic unit.											
7.0	7.3	MAFIC TUFF Strongly sheared mafic ash tuff with minor epidotized feldspar grains. 7.0 7.3 *STRONG PERVASIVE CARBONATIZATION.* Foliation is at 40 degrees to core axis.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-38 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
7.3	7.5	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Same as from 4.7 to 6.9.											
7.5	17.2	MAFIC TUFF Very strongly sheared mafic tuff with dark chloritic, up to 1 mm, layers, probably sheared lapilli or hornblende crystals. There are minor zones with feldspar crystals. Local blocky, highly fractured core with lost core of 0.3 m between 7.5 and 8.2, 1.2 m from 8.2 to 10.1, 0.3 m from 10.6 to 11.6, 0.5 m from 12.0 to 13.4, 0.7 m from 14.0 to 15.5 and 0.8 m from 16.0 to 17.4. There is minor blocky, highly fractured core from the overlying felsic tuff interspersed in this unit, maximum length of the felsic pieces is 5 cm. The mafic is strongly sheared and carbonatized. There are trace pyrite blebs and cubes. From 8.2 to 8.5 is very contorted. 7.5 17.2 STRONG PERVASIVE CARBONATIZATION. Foliation :. 11.1 M : 42 degrees to core axis. 15.0 M : 60 degrees to core axis.	VA01001	7.5	17.2	9.7	n/a	19	n/a	62	n/a	n/a	342
17.2	17.3	FAULT ZONE Fault gouge with unmeasurable orientation.											
17.3	28.0	FELSIC FELDSPAR CRYSTAL TUFF Light grey siliceous, possibly weakly silicified, felsic tuff with up to 10 %, < 1 mm, feldspar grains and trace 1 to 2 mm quartz eyes. Chlorite content is usually much less than 5 %, but locally exceeds 7 %, i.e. At 21.0 m. There are local calcite blebs mainly centred on the trace local quartz veinlets, which are fracture controlled. The core is locally oxidized throughout the unit and very rusty from 26.7 to 27.1. There is 10 cm fault gouge at 22.7. There appear to be local folds. Becomes weakly chloritic towards the bottom of the unit. Lost core :. 22.0 to 22.9 : 0.3 m. 25.0 to 25.8 : 0.3 m. 27.0 to 28.0 : 0.5 m. Structure :. Foliations :. 18.2 M : 41 degrees to core axis. 21.1 M : 37 degrees to core axis. 23.1 M : 40 degrees to core axis. 23.2 M : 18 degrees to core axis. 23.2 23.4 Contorted with foliations from 18 to 0 degrees to core axis.	VA01002	17.3	28.0	10.7	n/a	17	n/a	24	n/a	n/a	1140

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-38 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		24.5 M : 33 degrees to core axis. 27.5 M : 48 degrees to core axis.											
28.0	28.3	FAULT ZONE Chloritic clay and fault gouge.											
28.3	30.8	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF Siliceous grey felsic tuff with on average 20 % crystals, up to 2.5 mm, mainly 2:1 feldspar to quartz. Local sericitized lapilli. Minor quartz - chlorite veins with trace goethite - pyrite cubes. Tuff is rusty for first 20 cm. Oxidized to depth of 29.2 m. 28.3 28.8 WEAK FRACTURE CONTROLLED SILICIFICATION. 28.8 29.2 Quartz - chlorite - (calcite) vein. 29.2 30.8 WEAK FRACTURE CONTROLLED SILICIFICATION. Structure :. Foliations :. 28.5 : 60 degrees to core axis. 29.7 : 32 degrees to core axis.											
30.8	31.5	MAFIC TUFF Strongly sheared mafic ash tuff. 30.8 31.5 STRONG PERVASIVE CARBONATIZATION. Foliation : 41 degrees to core axis.											
31.5	44.5	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF Felsic lapilli tuff with on average 7 to 10 %, 1 to 3 mm, feldspar grains and trace up to 2 mm quartz eyes. There are local siliceous lapilli in a sericite matrix, best at 37.0 m. The alteration is variable with silicification and chloritization. 31.5 32.1 Dark grey to green siliceous lapilli in a sericite matrix with crosscutting fracture controlled silicification. Is moderately contorted from 31.7 to 32.1. 32.1 32.5 Chlorite - quartz vein. Chlorite is contorted and is 90 % from 32.2 to 32.5. Quartz is 75 % to 32.2. 32.5 38.2 Similar to 31.5 to 32.1, with moderate fracture controlled silicification and more sericite matrix. Rare quartz - chlorite veinlets occur parallel to foliation. Lapilli are cross-cut by < 1 mm fractures filled by white quartz. 38.2 44.4 Similiar to 32.5 to 38.2, with up to 10 % chlorite and very weak fracture controlled silicification. 42.0 43.6 Quartz - sericite vein with minor chlorite.	VA01003	33.0	44.5	11.5	n/a	11	n/a	14	n/a	n/a	988

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Alteration :. 31.5 32.1 STRONG FRACTURE CONTROLLED SILICIFICATION. 32.5 38.2 MODERATE FRACTURE CONTROLLED SILICIFICATION. 38.2 44.5 WEAK FRACTURE CONTROLLED SILICIFICATION. 38.2 44.5 MODERATE FRACTURE CONTROLLED CHLORITIZATION. Mineralization :. 39.3 a 6.5 mm pyrite cube. 38.2 38.3 Trace fracture controlled pyrite, associated with quartz veinlet (?). Lost core :. 39.2 to 40.8 : 0.8 m. 42.0 to 43.6 : 0.3 m. Blocky, highly fractured core :. 39.5 to 41.8. Structure :. Foliations :. 35.4 : 44 degrees to core axis. 38.2 : 45 degrees to core axis. 44.2 : 72 degrees to core axis. Bedding :. 34.5 : 55 degrees to core axis.											
44.5	44.8	MAFIC TUFF 44.5 44.8 STRONG PERVASIVE CARBONATIZATION. Strongly sheared at 61 degrees to core axis.											
44.8	68.7	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF Variably chloritized and silicified felsic tuff with local siliceous lapilli and sericitized lapilli. Trace quartz eyes uphole to approximately 1 %, up to 3 mm, downhole. Feldspars throughout, locally altered to sericite, 5 to 15 %, up to 1.5 mm. Minor fracture controlled quartz veinlets, perpendicular to foliation and rare quartz - calcite - (chlorite) veins, 1 to 25 cm, parallel to foliation. Chlorite content varies from 10 to 25 % locally. Core transitionally changes downhole from mottled tuff, as from 31.5 to 44.5 to wavy contorted interlayered sericite and chlorite tuff with minor quartz eyes. There are areas of stronger alteration, besides the general moderate chloritization, these are:. 44.8 45.7 MODERATE FRACTURE CONTROLLED SILICIFICATION. 50.1 52.6 STRONG SPOTTY SERICITIZATION. 53.0 56.0 MODERATE FRACTURE CONTROLLED SILICIFICATION. 57.6 57.7 STRONG PERVASIVE CHLORITIZATION. Lost core:. 45.7 to 46.6 : 0.3 m. 53.3 to 54.9 : 0.3 m. 59.0 to 60.0 : 0.2 m. 65.0 to 66.2 : 0.3 m.	VA01004	45.0	65.0	20.0	n/a	<10	n/a	<10	n/a	n/a	1160

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		67.4 to 68.4 : 0.3 m. Structure :. Foliations :. 48.5 : 47 degrees to core axis. 55.4 : 51 degrees to core axis. 62.0 : 50 degrees to core axis. 68.0 68.2 Fault gouge. Whole rock samples :. 47.3 47.4 Felsic tuff with weak chloritization, moderate fracture controlled silicification. 60.8 60.9 Strong chloritization with weak carbonatization.											
68.7	68.8	MAFIC TUFF Very chloritic fine-grained mafic ash tuff with no crystals											
68.8	69.5	CHLORITIC FELSIC FELDSPAR CRYSTAL LAPILLI TUFF Siliceous lapilli in chloritized felsic matrix with 10 to 15 %, up to 1 mm, variably epidotized feldspar crystals. There are local calcite - quartz veinlets sub- parallel to foliation. Foliation : 33 degrees to core axis at 69.0. 68.8 69.5 WEAK PERVASIVE CHLORITIZATION.											
69.5	70.1	MAFIC PORPHYRITIC MAFIC ASH TUFF Mafic ash tuff with local epidotized feldspar rich layers and a downhole hornblende, 3 to 5 %, up to 2 mm, rich layer. Locally sheared. Very sharp upper and lower contacts with felsic, may be a flow.											
70.1	73.6	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variably chloritic felsic tuff with 5 to 25 % chlorite, on average 3 to 5 % quartz eyes, more, up to 7 %, in more sericite rich zones and 10 to 15 %, 1 to 2 mm feldspar grains. Quartz eyes are up to 1.5 mm. There are minor quartz - calcite veinlets that cross-cut and are parallel to to foliation, foliation is at 50 to 55 degrees to core axis and is locally contorted. 70.1 73.6 STRONG PERVASIVE CHLORITIZATION.											
73.6	76.2	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Similiar to 70.1 to 73.6, but is less chloritic, there are weakly chloritized and non- chloritized bands of 1 to 30 cm. Bands are possibly representing original composition as sericite rich zones have 5 to 7 %, 1 to 2 mm, quartz eyes and chlorite rich zones have 1 to 2 %, up to 1 mm. 10 % feldspar grains in chlorite and 5 % in sericite. From 73.6 to 74.0 there is carbonatized fault gouge and clay											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		at 60 degrees to core axis. The core is mostly blocky, highly fractured core. The compositional changes parallel the foliation at 40 to 50 degrees to core axis and are locally weakly to moderately contorted.											
76.2	77.2	FELSIC QUARTZ EYE TUFF Weakly bleached siliceous felsic tuff with minor blocky, highly fractured core and 10 to 12 %, 2 to 4 mm, quartz eyes in a light grey to white quartz - sericite matrix with a foliation at 45 degrees to core axis. Lost core : 76.0 to 77.1 : 0.2 m.											
77.2	78.8	CHLORITIC FELSIC QUARTZ EYE TUFF Very weakly locally chloritized felsic tuff, similiar to 76.2 to 77.2, with a colour difference and less large quartz eyes and more small ones, 1 to 2 %, 3 to 5 mm, and 10 %, up to 1 mm. Foliation is at 46 degrees to core axis with cleavage at 24 degrees to core axis in the opposite direction.											
78.8	79.2	FAULT ZONE Carbonatized mafic flow fault gouge and blocky, highly fractured core with minor competent pieces. Fault at approximately 66 degrees to core axis.											
79.2	81.5	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Mafic flow, massive medium to dark green, with 15 to 20 % variably chloritized hornblende crystals, 1 to 3.5 mm in size. There are local zones of epidotization, possibly fragments. There are minor quartz - chlorite - (calcite) veinlets. The lower contact has 40 cm of blocks and fragments and may represent the base of the flow.											
81.5	86.5	FELSIC FLOW? Possibly a felsic flow or may be a tuff. Upper part of unit appears to be a flow and lower appears tuffaceous. Upper 1.0 m hosts 15 to 20 % sausuritized feldspar crystals and 3 %, 1 to 3 mm, quartz eyes and is massive and glassy, silicified (?). Lower 4 m is similiar to at 78.0 m. It is medium grey to light grey and siliceous with 10 to 15 %, 2 to 4 mm, quartz eyes and local epidotized feldspar 1 to 5 mm thick layers. The foliation is at 44 degrees to core axis.	VA01005	82.0	97.0	15.0	n/a	11	n/a	<10	n/a	n/a	1030
86.5	99.6	WEAKLY CHLORITIC FELSIC TUFF											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Weakly chloritized quartz eye bearing felsic tuff with local 10 to 20 cm zones of strong chloritization and strong contortions. There is on average 20 % quartz eyes and feldspar grains, most are < 1 mm, locally quartz eye up to 3 mm occur. There are minor quartz - calcite veinlets which mostly cross-cut. Alteration :. 86.5 99.6 WEAK PERVASIVE CHLORITIZATION. Structure :. Fault gouge :. 88.4 : 10 to 12 cm , strongly contorted. 89.8 : 2 cm , at 44 degrees to core axis. Lost core :. 92.0 to 93.6 : 0.4 m. 94.0 to 95.4 : 0.3 m. Blocky, highly fractured core :. 96.0 to 99.6. Foliations :. 87.4 : 58 degrees to core axis. 87.8 to 89.3 : strongly contorted. 94.8 : 46 degrees to core axis.											
99.6	102.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Mafic flow with red to white ribbon chert beds, up to 5 mm thick. Mafic flow or possibly tuff hosts 5 to 7 % epidotized feldspar grains and locally up to 5 % chloritized hornblende. There is minor brecciation with quartz vein filling. Bedding is at 53 degrees to core axis.											
102.0	139.7	FELSIC FLOW? Intermixed coarse siliceous and feldspar porphyritic flow and chloritized felsic tuff with feldspar, quartz and mafic crystals. Colour ranges from white where bleached, to brown, locally caused by thermal biotite to light grey to green in the massive flow. In places the core roughly resembles Abermin's dome and is locally cross-cut by quartz - (chlorite) veins, up to 30 cm thick. 102.0 110.0 Mixed felsic tuffs and flows interlayered in up to 1 m thick sub-units. 110.0 111.4 Quartz - chlorite veins in coarse bleached flow, trace chalcopyrite at 110.6. 111.4 117.7 Coarse siliceous light brown and green flow with 7 to 10 % epidotized feldspars. 117.7 119.1 Stongly bleached flows with perpendicular fracture controlled chlorite. 119.1 128.0 STRONG PERVASIVE CHLORITIZATION. 119.1 139.7 Thermal biotite throughout, mixed tuff and flow with local spotty silicification. Foliations :.	VA01006 VA01501	102.0 110.1	138.0 111.4	36.0 1.3	n/a 1	62 87	n/a <5	17 15	n/a <1	n/a 10	974 720

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		106.7 : 40 degrees to core axis. 114.9 : 50 degrees to core axis. 120.1 : 41 degrees to core axis. 132.4 : 56 degrees to core axis. 133.4 : 60 degrees to core axis.											
139.7	161.4	FELDSPAR PORPHYRITIC GABBRO Gabbro dyke, fine-grained green matrix with 5 to 7 %, 1 to 4 mm, feldspar grains. There are local quartz veins, < 1 to 8 cm thick with minor pyrite clots, at orientations of 0 to 90 degrees to core axis. There is minor fracture controlled carbonatization. There is a 22 cm chilled margin at the upper contact and a quartz - chlorite - calcite vein at the lower contact with 1 to 2 % pyrite and trace chalcopyrite over 20 cm. Some of the veins appear to have been fractured and refilled in several (3+) events, i.e. at 149.2 m.											
161.4	201.8	MAFIC FLOW Massive green mafic flow with local alteration. Contains 20 to 30 %, 1 to 2 mm, epidotized feldspar and feldspar grains. There are local chloritized hornblende crystals, up to 3 mm, in zones of coarse epidote. There are minor rusty oxidized fractures throughout. Drill bit was lost at 165.8 and there was 0.9 m of core lost when tricone bit was used to drill through. The Driller's report water loss at this location, there may be a fault. 161.4 161.6 Strongly bleached and silicified probably by gabbro dyke. 161.6 164.4 Strongly silicified and weakly epidotized mafic flow or mixture of felsic and mafic thin flow lobes. 164.4 167.7 Fine-grained flow with minor fracture controlled quartz veinlets and local fracture controlled chloritized. Medium green in colour as is 167.7 to 181.8. 167.7 181.8 Medium to coarse grained mafic flow with approximately 30 % feldspar and epidote grains. Local spotty epidotization or trace to 0.5 % epidotized fragments, of lapilli size. Minor coarse bleached (?) zones as from 181.8 to 182.5 at 178.7 and 180.2. 181.8 182.5 Coarse magnetite bearing bleached (?) flow, light green to white. Up to 7 mm epidote grains, up to 5 mm magnetite crystals and trace chloritized 2 mm hornblende. Sharp lower contact and gradational upper contact. 182.5 198.4 Similiar to 167.7 to 181.8 with decreased epidote and feldspar, approximately 20 % and	VA01007	162.0	182.0	20.0	n/a	84	n/a	97	n/a	n/a	574
			VA01502	181.8	182.5	.7	1	116	<5	32	<1	10	220
			VA01008	185.0	205.0	20.0	n/a	112	n/a	48	n/a	n/a	335
			VA01503	199.3	200.8	1.5	1	141	<5	70	<1	10	390
			VA01504	201.5	202.0	.5	3	471	<5	55	1	30	2190

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		increased chloritized hornblende, approximately 3 to 5 %. There is very local pervasive silicification.											
		198.4 200.0 Moderate to strong pervasive epidotization with trace to 1 % disseminated pyrite blebs.											
		200.0 201.8 Same as 182.5 to 198.4.											
		Mineralization :.											
		161.4 164.2 Trace to 1 % fine-grained disseminated pyrite.											
		164.2 Speck of malachite in a quartz vein.											
		164.2 164.4 3 to 5 % pyrite in epidotization, silicification and chloritization, pyrite as blebs.											
		164.4 181.8 Trace disseminated pyrite with local bleb concentrateds of up to 1.5 % over 10 cm.											
		181.8 182.5 Coarse and bleached with 4 to 6 % magnetite, trace to 2 % pyrite and trace chalcopyrite.											
		182.5 201.8 As from 164.4 to 181.8.											
		Major alteration :.											
		161.8 164.2 MODERATE PERVASIVE SILICIFICATION.											
		198.4 200.0 STRONG PERVASIVE EPIDOTIZATION.											
		Structure :.											
		Lost core :.											
		163.0 to 163.4 : 0.2 m.											
		Cleavages :.											
		171.3 : 22 degrees to core axis.											
		176.9 : 21 degrees to core axis.											
		199.9 : 52 degrees to core axis.											
		Foliations :.											
		178.8 : 63 degrees to core axis.											
		191.1 : 36 degrees to core axis.											
201.8	201.9	BLACK ARGILLITE Very fine-grained black argillite with 7 to 10 % fracture controlled and disseminated pyrite. Bedding at 29 degrees to core axis.											
201.9	209.5	MAFIC FLOW Massive medium to dark green mafic flow with 3 to 7 %, 1 to 3 mm, chloritized hornblende and approximately 20 %, 2 mm, epidotized feldspars. There are rare epidotized fragments, up to 5 cm. Weak foliation varies from 30 to 45 degrees to core axis.											
209.5	210.9	QUARTZ-FELDSPAR PORPHYRITIC FLOW Very siliceous medium black to grey felsic flow with 15 to 25 %, 2 to 6 mm, quartz eyes and 3 to 7 5, 2 to 3 mm, epidotized feldspar crystals. Quartz eyes are often fractured and clear to blue. Very sharp contacts. At	VA01505	209.9	210.9	1.0	1	146	<5	49	<1	15	1120

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-38 | Page Number 10

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		210.5 there is trace chalcopyrite in epidote rich band. Foliation is at 42 degrees to core axis.											
210.9	211.7	MAFIC FLOW Mafic flow as from 201.9 to 209.5 with trace chalcopyrite at 211.5.											
211.7	212.5	FELDSPAR PORPHYRITIC FELSIC FLOW Massive light green to yellow felsic flow with 10 %, 1 to 3 mm, epidotized feldspars. Blocky, highly fractured core.											
212.5	234.0	FELDSPAR PORPHYRITIC MAFIC FLOW Mafic flow with 15 to 20 %, 1 to 4 mm, epidote and feldspar grains. Massive , except for 212.5 to 215.5 which is blocky, highly fractured core. May be a tuff, from 222.5 appears to be a mafic ash tuff, but upper portion is a flow with minor epidotized fragments or a lapilli tuff. Upper part is massive, lower is schistose. Medium greyish green in colour. There is minor local spotty silicification and carbonatization. There is trace local disseminated pyrite. Foliations :. 215.8 : 36 degrees to core axis. 221.1 : 34 degrees to core axis. 226.4 : 38 degrees to core axis. 229.7 : 42 degrees to core axis.	VA01009	212.5	234.0	21.5	n/a	110	n/a	59	n/a	n/a	193
234.0	234.7	FELSIC FLOW? Massive siliceous yellow to brown felsic, flow (?), strong to moderate thermal biotite, blocky, highly fractured core with quartz veins.											
234.7	235.9	MAFIC FLOW Chloritized mafic flow with local zones of thermal biotite. There are 15 %, up to 1 mm feldspar grains. Massive, , byt may be a ash tuff. 234.7 235.9 MODERATE PERVASIVE CHLORITIZATION.											
235.9	238.0	FELSIC FLOW? Light green siliceous massive flow with 20 to 25 %, 1 to 3 mm, epidotized feldspar grains to crystals. There are sharp lower and upper contacts with fine-grained 10 to 20 cm margins. There is 1 to 2 % fracture controlled pyrite. There are minor quartz veins and weak to moderate fracture controlled silicification. Probably is dacitic to	VA01506 VA01507	236.0 237.0	237.0 238.0	1.0 1.0	2 2	33 50	<5 <5	46 40	<1 <1	15 10	630 270

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		rhyo-dacitic in composition. 235.9 238.0 MODERATE FRACTURE CONTROLLED SILICIFICATION.											
238.0	242.6	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Dacitic to rhyo-dacitic massive light green tuff with local weak thermal biotite tinge. Contains 25 to 30 % crystals and grains of epidotized feldspar and quartz, both vary from 5 % to 25 %, with constant crystal total. There is trace local fracture controlled chloritization, which at 239.95 hosts trace chalcopyrite. There are minor quartz - (calcite) veinlets. There is a weak foliation at 40 to 60 degrees to core axis.	VA01508	239.7	240.2	.5	1	326	<5	103	<1	15	460
242.6	248.4	FELSIC TUFF Strong thermal biotite and moderate chloritization in mainly blocky, highly fractured core with local brown siliceous flow (?) material with approximately 10 % epidotized fragments or may be silicified lapilli tuff. There is strong band or (?) bedding at 30 degrees to core axis at 243.2. There is trace chalcopyrite in chlorite at 248.2. More tuffaceous portion is similiar to 238.0 to 246.2.											
248.4	251.3	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Same as 238.0 to 242.6. 248.9 249.0 White quartz vein with 1 % pyrite blebs, hydraulic fracture spur (?).											
251.3	264.9	FELSIC TUFF Mixed and variably altered felsic tuffs containing the downdip extension of the P.E.M. Edge type anomaly first located in the 1987 drilling program. 251.3 252.2 Felsic tuff with moderate to nil chloritized and thermal biotite, decreasing downhole. Contains 5 to 10 %, 1 to 2 mm, quartz eyes and approximately 7 % feldspar grains. There is trace fracture controlled pyrite. 252.2 252.4 18 cm of 7 % pyrrhotite and 0.5 % chalcopyrite in chloritic matrix. Sulphides are parallel to foliation and bedding (?). 252.4 253.7 Light green feldspar rich tuff with chalcopyrite, 0.5 to 1 % over 2 cm and 2 cm scale sphalerite clots on the margin of a chlorite rimmed quartz vein at 253.7. 253.7 259.4 Thermal biotite altered tuff with minor fracture controlled silicification perpendicular to foliation. There is local	VA01010 VA01509 VA01510	251.5 252.0 264.4	264.0 252.5 264.9	12.5 .5 .5	n/a 3 1	118 263 2428	n/a <5 <5	83 61 253	n/a <1 1	n/a 15 30	452 1210 1550

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		epidotization and minor bleached fragments, lapilli sized.											
		259.4 261.2 Bleached siliceous white to light green massive with fracture controlled blue chlorite and silicification, minor grey to white quartz veinlets.											
		261.2 264.6 Local thermal biotite and blue chlorite streaks, hosts approximately 15 %, < 1 mm feldspar grains and minor micro- quartz eyes. There are numerous quartz - calcite veins, up to 2 cm, at 264.4 there is minor sphalerite in the vein.											
		264.6 264.9 P.E.M. ANOMALY zone 2, 30 cm of 1.5 to 2 % chalcopyrite in a medium green siliceous matrix, with chalcopyrite surrounding lapilli, there is trace pyrrhotite.											
		Structure :.											
		Lost core :.											
		261.2 to 262.0 : 0.1 m.											
		Foliations :.											
		251.5 : 44 degrees to core axis.											
		256.8 : 32 degrees to core axis.											
		262.5 : 50 degrees to core axis.											
		Bedding :.											
		257.1 : 42 degrees to core axis.											
		Alteration :.											
		251.3 264.9 MODERATE SPOTTY CHLORITIZATION.											
264.9	269.4	FELDSPAR PORPHYRITIC GABBRO											
		Fine-grained medium green plagiophyric gabbro with local quartz +/- calcite veins and veinlets, approximately 5 to 7 %, 2 to 3 mm epidotized feldspar grains.											
269.4	281.4	FELDSPAR PORPHYRITIC MAFIC ASH TUFF											
		Massive medium to dark green mafic tuff with minor felsic tuff pieces in the blocky, highly fractured core from 276.7 to 281.5. There is minor weak pervasive and fracture controlled carbonatization. Hosts 15 to 20 % epidotized feldspar grains, 1 to 2 mm. There are minor calcite clots and minor calcite in pressure shadows around the epidote grains. Minor quartz veinlets occur. There is trace pyrite associated with carbonatization.	VA01011	270.0	280.0	10.0	n/a	126	n/a	87	n/a	n/a	376
		Foliations :.											
		273.2 : 57 degrees to core axis.											
		279.0 : 30 degrees to core axis.											
		Lost core :.											
		277.0 to 278.0 : 0.4 m.											
		281.0 to 281.3 : 0.2 m.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-38 | Page Number 13

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
281.4	288.3	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Sericite schist with 10 to 15 %, 1 to 3 mm, quartz eyes and 10 % 1 mm feldspar grains. There are minor ash tuff beds. There are minor rusty fracture controlled calcite veinlets. Nil sulphides were observed. There are minor weak crenulations. Structure :. Lost core :. 284.0 to 284.7 : 0.1 m. Blocky, highly fractured core :. 284.2 to 284.7. 285.2 to 285.6. 286.0 to 286.3. 287.0 to 288.5. Foliations :. 283.4 : 41 degrees to core axis. 285.8 : 32 degrees to core axis. Bedding :. 282.8 : 66 degrees to core axis.	VA01012	282.0	288.0	6.0	n/a	34	n/a	22	n/a	n/a	1230
288.3	301.1	MAFIC TUFF Mafic to andesitic light to medium green ash tuff with approximately 10 %, < 1 mm, feldspar grains. 288.3 301.1 STRONG PERVASIVE CARBONATIZATION. There is strong carbonatization with white calcite streaks, << 1 mm, throughout, strong reaction with HCl. There is trace pyrite with the calcite. Minor quartz fracture controlled veins occur which host fragments of wall rock. Weakly sheared towards bottom by Fulford fault or a major splay off it. There are minor ash tuff beds at 289.6 at 57 degrees to core axis. Foliations :. 291.2 : 28 degrees to core axis. 299.5 : 42 degrees to core axis. Lost core : 292.0 to 292.3 : 0.2 m.	VA01013	290.0	314.0	24.0	n/a	40	n/a	82	n/a	n/a	512
301.1	302.8	FELSIC TUFF Light coloured, white to green siliceous felsic ash tuff with 5 to 10 %, < 1 mm, feldspar grains. There is local thermal biotite. There are local fracture controlled quartz veinlets. There is trace fracture controlled pyrite. Bedding :. (?) varies locally from 60 to 90 degrees to core axis.											
302.8	314.5	MAFIC TUFF Mafic ash tuff with strong foliation (probably shearing due to fault) and strong pervasive carbonatization. 10 to											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		15 %, 1 mm, epidotized feldspar grains are visible. There are numerous < 1 mm fracture controlled calcite veinlets. At 308.7 there is approximately 10 cm of pyritic siliceous felsic ash tuff with 2 % pyrite. 302.8 314.5 *STRONG PERVASIVE CARBONATIZATION.* Foliations :. 303.5 : 42 degrees to core axis. 304.9 : 60 degrees to core axis. 310.1 : 58 degrees to core axis.											
314.5	317.9	FAULT ZONE The Fulford fault or a major splay fault off it. 314.5 315.3 Dark grey clay with pebble sized pieces of quartz and calcite, approximately 90 degrees to core axis. 315.3 316.4 Mixed felsic and mafic rubble with minor carbonatization and approximately 2 % pyrite. Orientation at 70 to 80 degrees to core axis. 316.4 316.8 Mafic ash tuff with strong pervasive carbonatization. 316.8 316.9 Minor fault gouge at approximately 90 degrees to core axis. 316.9 317.9 Contorted active tuff at 0 to 50 degrees to core axis. Hosts 2 to 3 % fine-grained pyrite, may contain sphalerite as in overlying Chem87-34 and Chem87-36.	VA01511	315.4	316.4	1.0	2	83	<5	47	<1	15	1010
			VA01512	316.4	317.4	1.0	3	177	<5	48	<1	35	1880
			VA01513	317.4	318.4	1.0	5	115	12	401	<1	55	2870
317.9	319.1	FELSIC QUARTZ EYE TUFF Active tuff. Highly contorted quartz - sericite schist with 4 to 5 % fine-grained pyrite parallel to foliation, which trends at 35 degrees to core axis. There is very local weak fracture controlled carbonatization. There are minor cross faults. There is local fracture controlled sericitic alteration.	VA01514	318.4	319.1	.7	3	34	6	55	<1	30	2020
319.1	332.5	INTERMEDIATE TUFF Very strongly altered andesitic tuff. Tuff hosts trace to 5 %, average 2 %, 1 mm, quartz eyes and approximately 10 % sausuritized, < 1 mm, feldspar grains. The colour varies from light to dark green. There are numerous fractures filled with any combination of quartz, calcite, chlorite, and pyrite. Fractures occur at 0 to 90 degrees to core axis, cross-cut and vary from < 1 mm to 2 cm thick. Foliation appears to vary almost at random from 0 to 70 degrees to core axis and is probably due to faulting. There are numerous minor fault slips with fault gouge trending at 35 to 65 degrees to core axis. There is	VA01014	320.0	330.0	10.0	n/a	86	n/a	50	n/a	n/a	766
			VA01515	321.1	322.4	1.3	2	66	<5	35	<1	10	1520
			VA01516	322.4	323.4	1.0	2	140	<5	64	<1	15	1310

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		minor local fault breccia. Alteration and mineralization :. 319.1 321.1 MODERATE FRACTURE CONTROLLED CARBONATIZATION with on average 0.5 to 1 % fracture controlled pyrite. 321.1 321.9 WEAK FRACTURE CONTROLLED CARBONATIZATION and strongly bleached, S.G.E.'s early mafic dyke, intermediate tuff with 5 % quartz eyes in light pistachio green siliceous rock with foliation at 0 degrees to core axis and is weakly contorted. There is 2 % fracture controlled and disseminated pyrite. 321.9 322.1 Minor piece of felsic ash tuff. 322.1 322.4 Same as 321.1 to 321.9. 322.4 332.5 Weak alteration as from 321.1 to 321.9 in combination with the fracture controlled carbonatization, on average < 1 % pyrite. 322.4 332.5 MODERATE PERVASIVE CARBONATIZATION.											
332.5	332.5	FAULT ZONE Virtually invisible fault with negligible gouge, located by obvious lithological change and sharp change in foliation.											
332.5	335.3	FELSIC QUARTZ EYE TUFF Felsic tuff with 3 to 5 %, 1 to 2 mm, quartz eyes and minor ash tuff beds. There is minor local spotty silicification and sericitization. There is also weak fracture controlled carbonatization. Foliation and bedding varies locally from 0 to 20 degrees to core axis. There is trace pyrite.	VA01015	333.0	343.0	10.0	n/a	25	n/a	54	n/a	n/a	1800
335.3	335.7	MAFIC TUFF Dark green mafic ash tuff with 3 % 1 mm feldspar grains. Foliation is at 29 degrees to core axis. Contacts are very sharp.											
335.7	346.2	FELSIC QUARTZ EYE TUFF White to light grey to light green felsic tuff with variably local siliceous and sericitic zones. Rock is quite variable, but is a consistent unit and the local sub-units are described below:. 335.7 340.4 Brecciated tuff with bedding and foliation sub-parallel to parallel to the core axis. Is weakly to moderately contorted. Ash to crystal tuff beds are 5 mm to 2 cm thick and disrupted by the brecciation. There are minor											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		cross-cutting faults at 30 to 40 degrees to core axis and foliation. There are local feldspar rich tuff beds. There is trace local disseminated pyrite.											
340.4	343.8	Very sericitic, white to light grey with 5 %, 1 to 2 mm, quartz eyes on average, locally up to 10 %. There is approximately 0.5 % disseminated pyrite. Foliation and (?) bedding is at 0 to 20 degrees to core axis and is locally weakly contorted.											
343.8	343.9	Fault gouge, 2 cm at 33 degrees to core axis.											
343.9	346.2	Moderate sericitic with approximately 5 % 2 mm quartz eyes and 0.5 % disseminated fine-grained pyrite, foliation is at approximately 20 degrees to core axis.											
346.2	346.4	FAULT ZONE Ground up fels tuff fault gouge at (?) degrees to core axis											
346.4	358.8	FELSIC TUFF Quartz - sericite schist to siliceous felsic ash tuff. There are local small crystals of quartz and feldspar, up to 3 %, < 1 mm. Foliation locally varies from 0 to 50 degrees to core axis. All observed beds were at 0 to 10 degrees to core axis. There is 1 to 2 % disseminated and fracture controlled pyrite, local pyrite bands of up to 50 % over 3 to 4 cm occur. There are minor cross-cutting faults at no dominant orientation.	VA01517	346.4	348.0	1.6	2	30	5	54	<1	35	1700
			VA01016	347.0	358.0	11.0	n/a	66	n/a	92	n/a	n/a	2000
			VA01518	348.0	349.5	1.5	2	31	12	36	<1	25	1350
			VA01519	349.5	351.0	1.5	2	108	309	351	<1	110	1570
			VA01520	351.0	352.5	1.5	2	51	133	438	<1	65	1560
			VA01521	352.5	354.0	1.5	2	39	246	389	<1	45	1780
			VA01522	354.0	355.5	1.5	2	38	97	138	<1	20	1720
			VA01523	355.5	357.0	1.5	2	40	58	86	<1	45	1310
			VA01524	357.0	358.8	1.8	2	53	94	168	<1	25	1630
358.8	358.8	FAULT ZONE Chloritization clay over 3 mm at 21 degrees to core axis.											
358.8	373.0	FELDSPAR PORPHYRITIC GABBRO Fine-grained medium green gabbro with 5 to 12 %, 1 to 3 mm, feldspars locally. There are numerous fracture controlled calcite, epidote and quartz veinlets at orientations of 0 to 90 degrees to core axis. Base is marked by sheared gabbro and quartz - chlorite veins. The lower veins have trace chalcopyrite.											
373.0	373.5	FAULT BRECCIA Chloritization fault breccia with 0.3 m lower contact. Angular quartz clasts in chlorite.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-38 | Page Number 17

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
373.5	375.0	INTERMEDIATE TUFF Chloritization intermediate tuff with quartz - pink calcite veinlets and minor felsic tuff pieces. There is trace to 1 % fracture controlled pyrite. Foliation is variable from 0 to 50 degrees to core axis.											
375.0	381.3	CHLORITIC FELSIC QUARTZ EYE TUFF Felsic tuff with on average 7 to 10 %, 1 to 3 mm, quartz eyes, locally up to 6 mm. Foliation and minor ash tuff beds are at 10 to 20 degrees to core axis. There are quartz - chlorite veins throughout, with trace local chalcopyrite at 378.9. There is trace to 0.5 % disseminated and fracture controlled pyrite.											
381.3	382.5	INTERMEDIATE QUARTZ EYE TUFF Andesitic tuff with 3 %, 1 to 3 mm, quartz eyes in medium green chloritization matrix. Is strongly sheared at 47 degrees to core axis. 381.3 382.5 STRONG PERVASIVE CARBONATIZATION.											
382.5	384.3	FELSIC QUARTZ EYE TUFF Siliceous medium green to grey tuff with 5 to 7 %, 2 mm, quartz eyes. Foliation varies from 20 to 30 degrees to core axis locally. There is trace disseminated pyrite and one local chalcopyrite speck. 382.5 384.3 WEAK PERVASIVE CHLORITIZATION , chlorite visible on fractures and as weak green tint.											
384.3	384.7	CHLORITE SCHIST Chlorite schist with moderate fracture controlled carbonatization. Foliation is at 50 degrees to core axis.											
384.7	391.4	CHLORITIC FELSIC QUARTZ EYE TUFF Felsic tuff with 5 to 7 %, 1 to 2 mm, quartz eyes and numerous << 1 mm feldspar and quartz crystals. Is locally contorted with fracture controlled quartz veins. Medium to dark green to grey. Is locally contorted with foliation trend at 35 to 40 degrees to core axis and locally at 0 degrees to core axis. There is trace to 0.5 % disseminated and fracture controlled pyrite locally. 384.7 391.4 MODERATE PERVASIVE CHLORITIZATION.											
391.4	394.3	FELSIC QUARTZ EYE TUFF Active tuff. 3 to 5 % fracture controlled and disseminated fine-grained	VA01525	391.4	392.4	1.0	5	98	34	1014	1	75	2080
			VA01526	392.4	393.4	1.0	4	65	142	280	1	85	1840

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		pyrite in white sericite schist with no visible crystals. There are small approximately 10 cm mafic tuff or dyke inclusions, chlorite schist at 392.7, 392.9 and 393.2. Tuff is locally contorted. Foliation trend is at 50 degrees to core axis.	VA01527	393.4	394.3	.9	3	172	314	643	1	70	2890
394.3	436.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Dark green fine-grained, mafic ash tuff (?), rock with minor fragments of red, green and white chert beds, best example at 403.1 and numerous beds from 411 to 436. Bedding and foliation are at 0 to 20 degrees to core axis to 411.0. Tuff contains approximately 5 to 7 % biotite, with increase downhole. There appears to be approximately 10 %, < 1 mm feldspar grains and 3 %, 3 mm long and << 1 mm thick chloritized crystals or fragments. Very locally there are 5 to 10 mm epidote knots. There are minor quartz +/- calcite +/- epidote +/- biotite veins and veinlets that cross-cut and are parallel to foliation. There is trace disseminated pyrite. 391.4 436.0 *MODERATE FRACTURE CONTROLLED CHLORITIZATION*, green chlorite veinlets, << 1 mm at all orientations. Tops appears to be uphole, 425.3, 434.4, most beds are contorted or at too low angles to the core axis for tops to be measurable. From 411 to 436 there are numerous seemingly random changes in foliation from 0 to 50 degrees to core axis, this is likely due to faults and folding. The beds are weakly to strongly contorted and have micro- faults every 5 to 10 mm that cross-cut bedding at 90 to 60 degrees. There is minor cherty argillic with 2 % fracture controlled pyrite from 434.7 to 435.1. There is a plagiophyric fine-grained green gabbro dyke from 434.2 to 434.4.	VA01017	395.0	409.0	14.0	n/a	115	n/a	57	n/a	n/a	712
			VA01018	410.0	430.0	20.0	n/a	78	n/a	59	n/a	n/a	1140
			VA01528	434.7	435.1	.4	2	98	6	80	<1	20	1080
436.0	438.0	FELDSPAR PORPHYRITIC GABBRO Medium to fine-grained gabbro with 5 to 25 %, 2 to 4 mm, feldspar grains. There are minor local fracture controlled calcite - quartz - calcite veinlets.											
		438.0 End of hole CH88-38 at 1437 feet on April 11, 1988 at 4:30 p.m.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00501	5.30	5.40	70.70	14.30	1.93	0.81	3.79	2.60	2.84	0.29	0.07	0.05	2.77	100.15	1120.	37.	6.
VA00502	7.10	7.20	46.20	19.50	7.25	2.45	2.99	3.87	8.20	0.81	0.13	0.18	8.54	100.12	1080.	38.	10.
VA00503	14.90	15.00	45.90	16.10	9.24	4.08	1.68	2.19	9.53	0.68	0.11	0.27	10.60	100.38	412.	36.	11.
VA00504	21.20	21.40	69.20	12.70	4.03	1.18	3.51	1.81	2.68	0.26	0.06	0.10	4.93	100.46	685.	28.	8.
VA00505	31.70	31.80	70.10	11.90	3.99	1.12	3.94	1.24	3.30	0.25	0.07	0.12	3.85	99.88	749.	23.	8.
VA00506	47.30	47.40	76.10	9.67	3.23	1.28	0.98	1.52	3.26	0.20	0.05	0.04	3.85	100.18	939.	40.	4.
VA00507	60.80	60.90	56.50	17.80	5.24	1.92	1.32	3.99	5.82	0.57	0.31	0.06	6.47	100.00	2160.	47.	7.
VA00508	69.60	69.70	42.50	15.40	10.60	5.45	1.01	0.10	14.50	2.61	0.26	0.20	6.93	99.56	64.	32.	12.
VA00509	80.40	80.50	45.50	16.10	7.07	9.18	2.88	0.04	12.30	0.93	0.24	0.24	4.39	98.87	83.	48.	10.
VA00510	85.60	85.70	69.90	13.60	4.11	0.78	2.06	2.79	1.91	0.24	0.06	0.02	4.62	100.09	1020.	37.	6.
VA00511	100.00	100.20	49.40	16.90	10.30	4.28	2.57	0.29	9.57	0.80	0.15	0.19	5.77	100.22	135.	26.	13.
VA00512	105.30	105.50	70.80	13.60	2.84	2.04	3.13	1.77	3.21	0.31	0.07	0.04	2.31	100.12	994.	39.	6.
VA00513	113.30	113.40	63.60	18.10	2.15	2.37	4.05	2.94	3.80	0.41	0.08	0.05	2.39	99.94	1590.	46.	6.
VA00514	122.60	122.70	66.30	16.30	2.91	2.80	3.95	2.14	3.44	0.36	0.09	0.06	1.70	100.05	1620.	42.	7.
VA00515	130.40	130.50	71.80	13.80	1.17	2.34	5.86	0.85	2.58	0.29	0.07	0.06	1.23	100.05	847.	31.	7.
VA00516	144.10	144.20	49.20	13.70	11.10	6.02	1.93	0.36	12.40	1.79	0.17	0.20	2.16	99.03	100.	33.	13.
VA00517	170.10	170.30	52.00	18.20	5.52	5.30	5.64	0.49	8.58	0.72	0.16	0.22	2.54	99.37	286.	34.	11.
VA00518	179.80	180.00	55.90	17.60	3.70	4.47	7.14	0.40	7.54	0.69	0.12	0.14	2.08	99.78	332.	31.	11.
VA00519	189.30	189.40	54.20	17.40	4.06	5.07	6.62	0.50	8.16	0.67	0.15	0.16	2.16	99.15	344.	34.	11.
VA00520	202.90	203.00	51.60	18.10	5.98	5.28	4.09	1.57	9.52	0.69	0.15	0.17	2.39	99.54	689.	40.	10.
VA00521	209.50	209.60	74.50	12.80	1.96	0.83	4.72	1.63	2.39	0.25	0.06	0.05	0.62	99.81	1390.	27.	7.
VA00522	217.90	218.00	52.20	17.10	7.39	4.84	5.44	0.33	8.63	0.71	0.14	0.19	3.00	99.97	180.	29.	13.
VA00523	229.90	230.00	55.80	17.50	4.66	3.97	6.45	0.84	6.34	0.67	0.14	0.15	2.70	99.22	231.	30.	11.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00524	238.70	238.90	53.60	17.70	5.28	5.79	4.68	1.55	6.99	0.69	0.14	0.25	2.93	99.60	503.	42.	10.
VA00525	251.40	251.50	56.40	17.90	5.06	4.38	2.57	2.20	7.38	0.69	0.13	0.16	2.93	99.80	804.	46.	8.
VA00526	258.20	258.30	54.70	17.80	6.13	4.86	2.64	2.05	7.59	0.68	0.13	0.22	2.93	99.73	591.	44.	9.
VA00527	266.50	266.60	48.30	13.60	11.60	5.55	1.13	0.17	13.00	1.88	0.17	0.21	3.23	98.84	<10.	31.	13.
VA00528	271.10	271.20	49.30	17.20	9.84	2.97	0.77	1.28	12.20	0.68	0.13	0.24	4.85	99.46	414.	29.	11.
VA00529	283.80	283.90	67.90	13.30	3.84	1.66	2.63	1.85	4.38	0.26	0.06	0.09	3.00	98.97	811.	35.	6.
VA00530	296.20	296.30	50.80	16.30	7.36	4.32	2.67	1.26	9.25	0.67	0.13	0.18	6.16	99.10	579.	36.	10.
VA00531	308.20	308.30	49.90	15.10	7.95	5.13	2.19	1.21	8.94	0.63	0.11	0.16	8.16	99.48	415.	38.	10.
VA00532	321.50	321.60	49.30	19.00	8.25	4.27	3.22	0.96	7.58	1.40	0.17	0.13	4.00	98.28	1630.	31.	11.
VA00533	328.50	328.60	44.80	15.70	13.30	7.24	1.82	0.35	9.60	1.04	0.13	0.18	4.00	98.16	521.	33.	15.
VA00534	334.20	334.30	72.00	14.30	1.02	1.31	2.52	3.11	2.33	0.29	0.08	0.03	1.93	98.92	2510.	56.	4.
VA00535	340.60	340.70	79.10	12.50	0.81	0.58	1.98	2.87	0.67	0.29	0.07	0.03	1.47	100.37	1480.	55.	3.
VA00536	354.30	354.40	75.00	12.80	0.64	1.32	1.03	3.31	2.47	0.26	0.07	0.05	2.31	99.26	1830.	73.	2.
VA00537	382.90	383.00	71.70	12.60	1.61	1.88	1.08	2.40	4.82	0.30	0.08	0.05	3.00	99.52	2580.	61.	3.
VA00538	437.20	437.30	46.00	14.10	12.10	6.86	2.24	0.29	10.40	1.19	0.11	0.16	4.00	97.45	4790.	33.	14.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01001	7.50	17.20	39.10	13.70	13.30	5.14	1.15	1.73	10.10	1.26	0.29	0.32	14.20	100.39	342.	32.	14.
VA01002	17.30	28.00	69.60	14.00	2.86	1.05	3.23	2.36	2.73	0.30	0.07	0.08	3.70	99.98	1140.	36.	6.
VA01003	33.00	44.50	69.30	13.40	3.68	1.09	3.19	2.20	2.65	0.29	0.07	0.08	4.08	100.03	988.	32.	7.
VA01004	45.00	65.00	66.80	14.60	4.04	0.97	3.37	2.00	3.12	0.34	0.09	0.05	4.62	100.00	1160.	29.	7.
VA01005	82.00	97.00	64.70	14.80	4.75	1.61	2.05	2.60	3.88	0.37	0.14	0.05	5.23	100.18	1030.	38.	7.
VA01006	102.00	138.00	62.60	15.80	5.13	2.87	3.56	1.60	5.75	0.44	0.12	0.10	2.08	100.05	974.	34.	9.
VA01007	162.00	182.00	53.70	17.30	5.83	4.99	5.33	0.88	8.40	0.69	0.15	0.18	2.70	100.15	574.	34.	11.
VA01008	185.00	205.00	52.00	17.50	7.78	4.38	4.85	0.77	8.74	0.75	0.12	0.18	3.08	100.15	335.	29.	13.
VA01009	212.50	234.00	54.90	16.70	6.80	4.09	5.48	0.61	7.19	0.68	0.12	0.18	3.39	100.14	193.	28.	12.
VA01010	251.50	264.00	55.00	16.70	7.37	4.63	1.70	1.56	8.71	0.64	0.12	0.22	3.77	100.42	452.	41.	9.
VA01011	270.00	280.00	49.60	16.60	10.30	3.32	2.12	1.24	9.57	0.85	0.14	0.22	5.85	99.81	376.	27.	12.
VA01012	282.00	288.00	70.00	14.10	2.58	1.09	3.17	2.66	3.43	0.27	0.07	0.07	2.70	100.14	1230.	39.	6.
VA01013	290.00	314.00	49.00	16.40	8.78	4.37	2.07	1.60	9.49	0.66	0.12	0.21	7.39	100.09	512.	35.	11.
VA01014	320.00	330.00	46.50	15.90	10.20	6.76	2.96	0.36	10.10	1.16	0.14	0.18	4.00	98.26	766.	35.	13.
VA01015	333.00	343.00	68.50	15.30	2.08	1.88	2.66	2.82	2.79	0.41	0.07	0.07	2.77	99.35	1800.	50.	5.
VA01016	347.00	358.00	72.20	13.60	0.65	1.30	0.61	3.98	2.79	0.28	0.07	0.05	3.08	98.61	2000.	81.	1.
VA01017	395.00	409.00	48.50	15.60	6.80	8.61	2.65	2.49	9.20	0.70	0.18	0.19	3.54	98.46	712.	54.	9.
VA01018	410.00	430.00	51.40	17.30	3.81	5.85	3.72	3.60	8.73	0.84	0.24	0.15	2.47	98.11	1140.	56.	8.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA01501	110.10	111.40	720.0	87.0	15.0	<0.5	10.0	5.0	3.0	<5.0	6.0	<1.0	1.0	249.0	85.	1.	1.
VA01502	181.80	182.50	220.0	116.0	32.0	<0.5	10.0	14.0	9.0	<5.0	<5.0	<1.0	<1.0	281.0	78.	1.	1.
VA01503	199.30	200.80	390.0	141.0	70.0	<0.5	10.0	26.0	24.0	<5.0	6.0	<1.0	<1.0	668.0	67.	1.	4.
VA01504	201.50	202.00	2190.0	471.0	55.0	0.5	30.0	64.0	28.0	<5.0	15.0	<1.0	2.0	496.0	90.	3.	3.
VA01505	209.90	210.90	1120.0	146.0	49.0	<0.5	15.0	7.0	4.0	<5.0	11.0	<1.0	<1.0	288.0	75.	1.	1.
VA01506	236.00	237.00	630.0	33.0	46.0	<0.5	15.0	7.0	11.0	<5.0	7.0	<1.0	<1.0	553.0	42.	2.	2.
VA01507	237.00	238.00	270.0	50.0	40.0	<0.5	10.0	8.0	9.0	<5.0	16.0	<1.0	<1.0	528.0	56.	2.	2.
VA01508	239.70	240.20	460.0	326.0	103.0	<0.5	15.0	18.0	15.0	<5.0	<5.0	<1.0	<1.0	1041.0	76.	1.	3.
VA01509	252.00	252.50	1210.0	263.0	61.0	<0.5	15.0	21.0	12.0	<5.0	<5.0	<1.0	<1.0	635.0	81.	3.	4.
VA01510	264.40	264.90	1550.0	2428.0	253.0	1.3	30.0	22.0	30.0	<5.0	15.0	2.0	<1.0	802.0	91.	1.	5.
VA01511	315.40	316.40	1010.0	83.0	47.0	<0.5	15.0	15.0	22.0	<5.0	17.0	<1.0	3.0	514.0	64.	2.	3.
VA01512	316.40	317.40	1880.0	177.0	48.0	<0.5	35.0	16.0	30.0	<5.0	17.0	<1.0	2.0	478.0	79.	3.	3.
VA01513	317.40	318.40	2870.0	115.0	401.0	<0.5	55.0	4.0	3.0	12.0	8.0	2.0	2.0	152.0	22.	5.	2.
VA01514	318.40	319.10	2020.0	34.0	55.0	<0.5	30.0	7.0	13.0	6.0	<5.0	<1.0	2.0	330.0	38.	3.	2.
VA01515	321.10	322.40	1520.0	66.0	35.0	<0.5	10.0	20.0	80.0	<5.0	26.0	<1.0	<1.0	570.0	65.	2.	4.
VA01516	322.40	323.40	1310.0	140.0	64.0	<0.5	15.0	47.0	149.0	<5.0	21.0	<1.0	1.0	890.0	69.	2.	6.
VA01517	346.40	348.00	1700.0	30.0	54.0	<0.5	35.0	8.0	6.0	5.0	14.0	<1.0	2.0	194.0	36.	2.	1.
VA01518	348.00	349.50	1350.0	31.0	36.0	<0.5	25.0	4.0	5.0	12.0	12.0	<1.0	<1.0	173.0	46.	2.	1.
VA01519	349.50	351.00	1570.0	108.0	351.0	<0.5	110.0	3.0	2.0	309.0	13.0	2.0	2.0	152.0	24.	2.	1.
VA01520	351.00	352.50	1560.0	51.0	438.0	<0.5	65.0	4.0	2.0	133.0	17.0	2.0	2.0	134.0	10.	2.	1.
VA01521	352.50	354.00	1780.0	39.0	389.0	<0.5	45.0	3.0	2.0	246.0	<5.0	1.0	2.0	176.0	9.	2.	1.
VA01522	354.00	355.50	1720.0	38.0	138.0	<0.5	20.0	5.0	2.0	97.0	12.0	<1.0	2.0	209.0	22.	2.	1.
VA01523	355.50	357.00	1310.0	40.0	86.0	<0.5	45.0	2.0	2.0	58.0	13.0	<1.0	1.0	157.0	32.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)
VA01524	357.00	358.80	1630.0	53.0	168.0	<0.5	25.0	3.0	2.0	94.0	13.0	<1.0	2.0	158.0
VA01525	391.40	392.40	2080.0	98.0	1014.0	0.6	75.0	6.0	4.0	34.0	17.0	5.0	2.0	423.0
VA01526	392.40	393.40	1840.0	65.0	280.0	1.2	85.0	13.0	24.0	142.0	17.0	2.0	1.0	1197.0
VA01527	393.40	394.30	2890.0	172.0	643.0	0.9	70.0	6.0	4.0	314.0	19.0	3.0	2.0	289.0
VA01528	434.70	435.10	1080.0	98.0	80.0	<0.5	20.0	22.0	31.0	6.0	14.0	<1.0	<1.0	744.0

Hole No. CH88-38

Summary Log: DDH CH88-39
Location: 48+00 E, 1+00 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: April 11, 1988
Core logged by: J. Pattison

0.0	3.6	Casing.
3.6	34.6	Chloritic felsic quartz-feldspar crystal tuff
34.6	46.9	Feldspar porphyritic gabbro
46.9	52.7	Chloritic felsic quartz-feldspar crystal lapilli tuff
52.7	78.1	Feldspar porphyritic gabbro
78.1	79.2	Felsic quartz-feldspar crystal tuff
79.2	80.8	Gabbro dyke
80.8	102.0	Chloritic felsic quartz-feldspar crystal tuff 1-2 % disseminated pyrite over most of the interval.
102.0	117.1	Feldspar porphyritic gabbro
117.1	122.5	Chloritic felsic feldspar crystal tuff
122.5	127.6	Mafic tuff
127.6	147.4	Chloritic felsic ash and lapilli crystal tuffs
147.4	160.6	Mafic ash tuff
160.6	163.1	Felsic lapilli tuff Hosts 20 % pyrrhotite and 7 % chalcopyrite over a 1.0 m interval. The sulphides envellope felsic ash and lapilli fragments and may be syngentic. The tuffs above and below the mineralized horizon do not appear to be strongly altered.
163.1	167.0	Chloritic felsic feldspar crystal tuff
167.0	174.4	Mafic tuff
174.4	188.0	Chloritic felsic ash and crystal tuffs
188.0	210.0	Mafic tuff
210.0	223.4	Gabbro with several fault gouges (Fulford fault splay)
223.4	255.3	Felsic quartz feldspar crystal lapilli tuff Moderately to strongly sericitic with 1 to 5 % pyrite as disseminations and thin (< 1.0 cm) bands parallel to foliation.
255.3	300.7	Mafic to intermediate tuffaceous sediments
300.7	308.8	Feldspar porphyritic gabbro

EOH @ 308.8 m

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-39 | Page Number 1

Hole Location: 48+00 E 1+00 S

NTS: 92B13 UTM: 5415951.0 N 431863.3 E
Azimuth: 210 Elevation: 653 m
Dip: -50 Length: 308.8 m

Started: 6-April-88
Completed: 11-April-88

Claim No. Chip 1
Section No.: 48+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size:

Purpose: To test eastern edge of PEM anomaly.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
53.60	207.0	-47.5	250.00	209.0	-45.5
173.70	207.0	-46.5			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.6	OVERBURDEN											
3.6	7.5	FELSIC TUFF Light grey with streaky brown appearance due to moderate Fe-carbonate alteration. Rock is blocky and broken over entire section. Foliation is well developed at 65 degrees to core axis. In less deformed and altered sections of the core the tuff is comprised of 10% <1.0 mm feldspar crystals in a very fine-grained siliceous matrix. Nil sulphides. Lower contact is gradational. 3.6 7.5 MODERATE PERVASIVE CARBONATIZATION. 5.0 5.2 Bull quartz vein. Not possible to measure orientation.	VA02751	5.9	17.4	11.5	n/a	<10	n/a	<10	n/a	n/a	1220
7.5	34.6	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Medium grey well foliated at 65 degrees to core axis. Rock contains up to 10 % <3 mm quartz eyes, 10-20 % ash-sized, epidotized feldspar crystals, occasional ash to lapilli-sized light grey felsic clasts and very rare dark green to black mafic (?) clasts. Clasts are streched 8:1 parallel to foliation. Quartz eyes have a crushed highly fractured appearance and are rare below 16.4 m. Lower contact is sharp at 40 degrees to core axis. STRUCTURE:. Foliation is at 70 degrees to core axis at 10.2 m. Bedding is at 60 degrees to core axis at 14.8 m. Irregular bedding plane or fracture at 67 degrees to core	VA02752 VA03251 VA03252 VA03253	17.4 32.1 33.1 33.5	34.6 33.1 33.5 34.5	17.2 1.0 .4 1.0	n/a 1 5 1	<10 49 187 51	n/a <5 <5 <5	<10 27 50 54	n/a <1 <1 <1	n/a 10 25 10	1440 1270 2630 2120

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-39 Page Number 2

From (m)	To (m)	DESCRIPTION
		axis at 20.6 m. Bedding is at 70 degrees to core axis at 20.7 m. Foliation is at 61 degrees to core axis at 22.1 m. Bedding is at 75 degrees to core axis at 25.2 m. 1 Cm fault gouge at 60 degrees to core axis at 28.1 m. Bedding is at 65 degrees to core axis at 31.5 m. Bedding is at 60 degrees to core axis at 32.9 m. ALTERATION:. 7.5 34.6 WEAK PERVASIVE CHLORITIZATION. SULPHIDES:. 33.1 33.5 5 % fracture controlled pyrite. Pyrite fills hairline fractures and gashes most of which are oriented parallel to foliation at 60 degrees to core axis. 14.1 14.2 Irregular quartz vein or pod. 15.3 16.2 Feldspar crystal rich beds are recognizable at 70 degrees to core axis. Also, there are several light grey lapilli-sized felsic fragments. 16.1 16.4 Mafic ash tuff. Contacts are at 70 degrees to core axis. 19.5 888.8 Chlorite-carbonate rich band at 60 degrees to core axis. 20.6 20.7 Finely bedded interval. 20.7 23.7 Feldspar crystals are coaser (up to 2 mm). 26.3 27.1 Weak to moderate fracture controlled thermal biotite alteration gives rock brownish caste. 34.0 34.6 Weak patchy thermal biotite alteration.
34.6	46.9	FELDSPAR PORPHYRITIC GABBRO Massive, medium green, fine-grained with 10 % <1 to 4 mm white feldspar phenocrysts. Rock is weakly magnetic due to <1-2% disseminated and fracture controlled pyrrhotite. 10 Cm chill margin at upper and lower contacts. 10 cm inclusion of quartz-feldspar crystal tuff. Broken core at lower contact.
46.9	52.7	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Light green with slight brownish tinge due to weak thermal biotite alteration. Up to 20 % light grey felsic clasts in a siliceous, feldspar crystal rich (15-25%) matrix with up to 5 % <4mm quartz eyes. Felsic lapilli are most common over first 0.2 m of unit and have hazy indistinct margins. Nil sulphides. Thermal biotite alteration increases towards lower contact. Lower contact is at 42 degrees to core axis.	VA02753	46.9	52.7	5.8	n/a	21	n/a	102	n/a	n/a	2050
		STRUCTURE:. Locally, intensely microfractured. Bedding is at 60 degrees to core axis at 48.5 m.											
		ALTERATION:. 46.9 52.7 WEAK PERVASIVE CHLORITIZATION.											
52.7	78.1	FELDSPAR PORPHYRITIC GABBRO As 34.6 to 46.9 m. Fine-grained chill margin with quartz +/- carbonate veins and pods over first 1.0 m. Nil-1% disseminated and fracture controlled pyrrhotite. Rock is weakly magnetic. Occasional quartz-carbonate vein <1.0 cm wide. Up to 5% very finely diss ilmenite altered to leucoxene. Lower contact is at 80 degrees to core axis. A very irregular block of fine-grained gabbro runs along the core axis for 10 cm below the lower contact.											
		STRUCTURE:.											
		??.?-68.2 FAULT ZONE. Rusty rubble over entire section. 0.3 m of lost core. Not possible to measure orientation. May just be weathered out quartz-carbonate vein running parallel to core axis.											
		68.2 69.2 Blocky, highly fractured core. 0.3 m of lost core											
		53.7 53.8 Fractured quartz-carbonate vein at 60 degrees to core axis. No sulphides.											
		69.0 69.2 Inclusion of crystal tuff.											
		73.5 888.8 Spot of chalcopyrite - pyrrhotite 0.3 mm long.											
		77.0 77.3 Quartz-carbonate vein with irregular upper contact and lower contact at 45 degrees to core axis.											
78.1	79.2	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light grey-brown and composed of 25-30% <3 mm feldspars and <5% 1-2 mm quartz eyes in a fine-grained siliceous											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-39 Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		thermal biotite altered matrix. Lapilli-sized siliceous patches, which may be clasts, give rock a mottled appearance. Nil sulphides. Broken core at lower contact. ALTERATION:. 78.1 79.2 WEAK PERVASIVE SERICITIZATION.											
79.2	80.8	MAFIC INTRUSIVE As 34.6 46.9 m. 20 cm chill margin at upper contact. Core is blocky over entire section. Especially between 79.4 and 80.7 m where there is 0.5 m of lost core. Fracture surfaces are rusty throughout the interval. Lower contact is irregular but appears to be at 40 degrees to core axis.											
80.8	102.0	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light green-brown to grey and quite massive (no bedding recognizable and only weakly foliated) suggesting that it may be a flow. Composed of 10% 1-4 mm anhedral to subhedral feldspar crystals and <5% <2 mm quartz eyes in a weakly to moderately thermal biotite and chlorite altered fine-grained to very fine-grained siliceous matrix. Weak to moderate patchy thermal biotite alteration and weak to very weak pervasive chlorite alteration. Rusty patches between 80.7 and 81.2 m and between 82.8 and 83.5 m and between 89.8 and 90.7 m. Lower contact is irregular but appears to be at 70 degrees to core axis. STRUCTURE:. Weak foliation at 65 degrees to core axis at 89.8 m. Bedding (?) is at 70 degrees to core axis at 99.8 m. Bedding (?) is at 60 degrees to core axis at 101.3 m. ALTERATION:. 80.6 85.7 WEAK PERVASIVE CHLORITIZATION. 85.7 88.0 WEAK PERVASIVE SERICITIZATION. 88.0 100.2 WEAK PERVASIVE CHLORITIZATION and weak to moderate patchy thermal biotite alteration. 100.2 101.4 MODERATE PERVASIVE SERICITIZATION. 101.4 102.0 WEAK PERVASIVE CHLORITIZATION. SULPHIDES:. 84.5 85.5 1% fracture controlled and disseminated pyrite. 85.5 89.0 1-2% fracture controlled pyrite. 96.7 100.4 2% disseminated and fracture controlled pyrite with minor pyrrhotite. Sulphides occur in hairline fractures. 100.4 101.3 4% pyrrhotite with minor pyrite as spots up to 4 mm long and fracture fillings rock is weakly magnetic. 101.3 102.0 2% disseminated and fracture controlled pyrite.	VA02754	80.8	84.2	3.4	n/a	16	n/a	118	n/a	n/a	1300
			VA02755	84.2	102.0	17.8	n/a	44	n/a	30	n/a	n/a	1140
			VA03254	84.5	85.5	1.0	1	98	<5	70	<1	10	750
			VA03255	85.5	86.5	1.0	2	45	<5	23	<1	20	720
			VA03257	86.5	87.5	1.0	2	45	<5	13	<1	30	820
			VA03256	87.5	88.5	1.0	2	42	<5	32	<1	5	1330
			VA03258	88.5	89.0	.5	2	61	15	45	<1	20	1340
			VA03259	89.0	90.0	1.0	1	19	<5	22	<1	5	980
			VA03260	95.7	96.7	1.0	1	18	<5	40	<1	<5	1020
			VA03261	96.7	97.7	1.0	2	31	<5	33	<1	15	1020
			VA03262	97.7	98.7	1.0	2	37	<5	35	<1	<5	1060
			VA03263	98.7	99.7	1.0	2	86	<5	39	<1	5	860
			VA03264	99.7	100.4	.7	2	12	<5	26	<1	10	1650
			VA03265	100.4	101.3	.9	4	48	<5	15	<1	<5	1310
			VA03266	101.3	102.0	.7	2	95	<5	31	<1	5	1140

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		84.2 84.8 MAFIC DYKE. Light green, fine-grained and feldspar porphyritic in the centre. Upper contact is at 65 degrees to core axis and lower contact is at 60 degrees to core axis.											
		99.8 100.4 Feldspar crystal rich bed. Rock has distinct brownish caste due to thermal biotite alteration and contains 25-30% 2-4 mm feldspar crystals. Upper and lower bedding contacts are sharp at 70 degrees to core axis.											
		101.3 102.0 Brownish weathered altered section similiar to 99.0 to 100.4 m except fewer feldspar crystals											
102.0	117.1	FELDSPAR PORPHYRITIC GABBRO As 34.6 46.9 m. Gabbro is bleached for approximately 1.8 m from lower contact. Lower contact is at 86 degrees to core axis.	VA03267	102.0	103.0	1.0	1	186	<5	81	<1	5	60
		106.7 107.0 Irregular quartz-carbonate pod. No sulphide.											
		107.2 888.8 4.0 cm wide quartz-carbonate vein at 50 degrees to core axis with patchy pyrrhotite and minor chalcopyrite along vein margins.											
117.1	122.5	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF Light grey green with a brownish tint due to patchy, streaky thermal biotite alteration. Rock has a banded appearance. Bands are at 60 to 70 degrees to core axis. Rock is composed of 10 % epidotized feldspar crystals and an occasional lapilli-sized felsic fragment in a fine-grained felsic to intermediate matrix. For the most part the tuff is felsic in composition but locally it ranges into intermediate compositions. Nil to 1 % disseminated pyrite. Lower contact is gradational over 10 cm. STRUCTURE:. Bedding is at 65 degrees to core axis at 117.3 m. FAULT GOUGE at 65 degrees to core axis between 117.6 and 117.7 m. Foliation is at 60 degrees to core axis at 118.3 m. Bedding is at 70 degrees to core axis at 119.6 m. Bedding is at 60 degrees to core axis at 121.7 m. ALTERATION:. 117.1 122.8 WEAK PERVASIVE CHLORITIZATION and weak to moderate thermal biotite. 121.8 122.0 STRONG PERVASIVE SILICIFICATION.	VA02756	117.1	122.5	5.4	n/a	32	n/a	81	n/a	n/a	1080

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		122.0 122.5 WEAK PERVASIVE CHLORITIZATION. 120.9 888.8 Felsic lapilli with 2 mm thick bleached reaction rim. 121.8 122.0 Very siliceous bed of crystal tuff. Upper and lower contacts are sharp at 60 degrees to core axis.											
122.5	126.4	MAFIC TUFF Medium green massive (no bedding recognizable) moderate epidotization centred on feldspar crystals <1-3 mm in diameter which comprise up to 15 % of the rock. Occasional vague, poorly defined lapilli-sized mafic clast. Lower contact is gradational into hornblende bearing tuff below and is placed where hornblende crystals become conspicuous. STRUCTURE:. Bedding is at 42 degrees to core axis at 126.1 m. ALTERATION:. 122.5 126.4 WEAK SPOTTY EPIDOTIZATION. 126.1 888.8 5.0 cm thick bed of thermal biotite altered felsic crystal tuff at 42 degrees to core axis.	VA02757	122.5	127.6	5.1	n/a	115	n/a	141	n/a	n/a	477
126.4	127.6	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF Slightly darker green than unit above. Rock consists of 20-25% epidotized feldspars in a chloritic matrix. Up to 5 % thin, wispy chlorite spots <1.5 cm long which may be fiamme. Nil to trace disseminated pyrite. Very fine-grained for 8.0 cm at lower contact. Lower contact is sharp at 45 degrees to core axis. ALTERATION:. 126.4 127.6 WEAK SPOTTY EPIDOTIZATION.											
127.6	139.3	CHLORITIC FELSIC FELDSPAR CRYSTAL LAPILLI TUFF Light grey to green-grey with a variable brownish tint depending on the intensity of the thermal biotite alteration. Composed of 5-10% weakly epidotized feldspar crystals < 3 mm long in a fine-grained weakly to moderately foliated siliceous matrix. Occasional light grey lapilli-sized felsic clast. Best example of these clasts is between 129.0 and 129.5 m where there are clasts up to 2 cm wide with bleached reaction rims 2-3 mm thick (see skeletal core). Nil to trace fracture controlled pyrite. 10.0 cm mafic dyke at 60 degrees to core axis at lower contact. Broken core at contact between	VA02758	127.6	139.3	11.7	n/a	<10	n/a	29	n/a	n/a	3120

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		dyke and felsic ash tuff below. STRUCTURE:. Foliation is at 40 degrees to core axis at 129.8 m. Minor fault gouge at 40 degrees to core axis at 130.5 m. Bedding is at 60 degrees to core axis at 135.7 m. ALTERATION:. 127.6 130.5 WEAK PERVASIVE CHLORITIZATION and weak spotty epidotization. 130.5 139.3 WEAK PERVASIVE CHLORITIZATION and moderate thermal biotite alteration.											
139.3	141.0	FELSIC TUFF Light grey fine-grained moderately well foliated at 50-55 degrees to core axis (foliation is often kinked). Composed almost entirely of quartz and sericite with ash-sized feldspar crystals and minor wispy chlorite. Trace to 1 % fracture controlled pyrite-pyrrhotite. Lower contact is arbitrarily placed where feldspar crystals become conspicuous. STRUCTURE:. Foliation is at 50 degrees to core axis at 139.6 m. Foliation is at 55 degrees to core axis at 140.9 m. ALTERATION:. 139.3 141.0 WEAK PERVASIVE SERICITIZATION and very weak patchy chlorite. SULPHIDES:. 139.3 139.8 2 % fracture controlled pyrite-pyrrhotite.	VA02759 VA03268	139.3 139.3	147.4 139.8	8.1 .5	n/a 2	44 18	n/a 7	15 14	n/a <1	n/a 30	1330 1320
141.0	143.2	CHLORITIC FELSIC FELDSPAR CRYSTAL LAPILLI TUFF Similiar to 127.6 to 139.3 m. None of the clasts have reaction rims. Trace to 1 % fracture controlled pyrrhotite-pyrite. STRUCTURE:. Foliation is at 50 degrees to core axis at 141.3 m. ALTERATION:. 141.0 143.2 WEAK PERVASIVE CHLORITIZATION and weak pervasive sericitization. SULPHIDES:. 142.3 143.0 1 % fracture controlled pyrrhotite. 142.4 143.2 Rusty fractures run parallel to core axis.	VA03270	142.3	143.2	.9	1	22	<5	9	<1	10	2440
143.2	147.4	FELSIC TUFF Light grey, sericitic, well foliated and rusty fractures parallel to core axis are common. Rock is weakly magnetic due to weak pyrrhotite mineralization. Lower contact is	VA03271 VA03273 VA03275	143.2 144.2 145.2	144.2 145.2 146.2	1.0 1.0 1.0	2 1 2	13 16 26	5 <5 9	7 9 4	<1 <1 <1	50 75 65	1750 1410 1810

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		gradational. STRUCTURE:. Foliation is at 50 degrees to core axis at 146.1 m. ALTERATION:. 143.2 147.4 MODERATE PERVASIVE SERICITIZATION. SULPHIDES:. 3 % fracture controlled pyrrhotite-pyrite. 144.0 144.2 Blocky, highly fractured core. Fractures are rusty.	VA03276	146.2	147.4	1.2	2	41	9	7	<1	75	1700
147.4	160.6	MAFIC TUFF Medium green with a variable brown tint depending on intensity of thermal biotite alteration. Quite massive, bedding not recognizable, although rock does have a vague banded appearance below 158.5 m. Banding is defined by biotite-rich layers < 1.0 cm thick. Foliation is poorly developed. Rock is composed of up to 25 % < 3 mm epidotized feldspar crystals in a fine-grained chlorite rich thermal biotite altered matrix. Upper 0.6 m of the unit contains many quartz-carbonate veins and pods and its overall composition is intermediate. Vague, fine-grained intermediate to felsic lapilli-sized fragments occur locally. STRUCTURE:. Band is at 55 degrees to core axis at 148.4 m. Band is at 60 degrees to core axis at 159.8 m. ALTERATION:. 147.4 160.6 WEAK PERVASIVE CHLORITIZATION , weak to moderate patchy thermal biotite alteration and weak epidotization centred on feldspar crystals. SULPHIDES:. 147.4 158.8 Trace to 1% disseminated and fracture controlled pyrrhotite and pyrite. 158.8 160.2 1 to 2 % disseminated and fracture controlled pyrrhotite and pyrite and trace very finely disseminated chalcopyrite. 160.2 160.6 2 % disseminated pyrrhotite and pyrite and 1 % chalcopyrite.	VA02760	147.4	160.6	13.2	n/a	84	n/a	44	n/a	n/a	1210
			VA03278	156.8	157.8	1.0	1	290	<5	90	<1	95	770
			VA03279	157.8	158.8	1.0	1	204	<5	74	<1	45	1250
			VA03280	158.8	159.5	.7	2	446	<5	73	<1	30	1570
			VA03282	159.5	160.2	.7	2	718	<5	70	1	60	1490
			VA03283	160.2	160.6	.4	4	5100	<5	164	2	100	1120
160.6	163.1	FELSIC LAPILLI TUFF Medium grey, composed of 5 % ash-sized feldspar crystals and up to 10 % lapilli-sized fine-grained felsic fragments in a weakly sericitic fine-grained matrix. Lower contact	VA03269	160.6	161.0	.4	6	1139	<5	51	<1	15	1930
			VA03272	161.0	161.5	.5	11	871	<5	36	<1	45	2630
			VA03274	161.5	162.0	.5	22	12900	31	618	5	110	1670

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		is at 78 degrees to core axis.	VA03277	162.0	162.5	.5	30	80700	42	5800	33	280	910
		STRUCTURE:.	VA03281	162.5	163.1	.6	13	8100	<5	437	3	150	1120
		Foliation is kinked through most of the unit.											
		Foliation is at 60 degrees to core axis at 161.3 m.											
		Bedding (?) is at 60 degrees to core axis at 162.6 m.											
		ALTERATION:.											
		160.6 163.1 WEAK PERVASIVE SERICITIZATION.											
		SULPHIDES:.											
		160.6 161.0 5% pyrrhotite, 1% pyrite and trace chalcopyrite. Sulphides occur along foliation planes and as fracture fillings.											
		161.0 161.5 10% pyrrhotite and 1% chalcopyrite as above.											
		161.5 162.0 15-20% pyrrhotite and 4% chalcopyrite. Sulphides are associated with quartz-carbonate veins and pods up to 4 cm wide at 70-90 degrees to core axis and along foliation planes and as fracture fillings.											
		162.0 162.5 20% pyrrhotite and 8-10% chalcopyrite. Sulphides envellope ash and lapilli fragments forming a net texture.											
		162.5 163.1 10% pyrrhotite and 3% chalcopyrite. Sulphides surround clasts and occur along foliation planes, as fracture fillings and disseminations											
163.1	167.0	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF 3.9											
		Light grey green with up to 10 % ash-sized feldspar crystals. Bedding recognizable in a couple of places. May be intermediate in composition over the first 0.3 m.	VA02761	163.1	167.0	3.9	n/a	34	n/a	58	n/a	n/a	826
			VA03284	163.1	169.1	6.0	1	124	<5	68	<1	75	860
			VA03285	165.0	166.0	1.0	1	31	<5	69	<1	30	1120
			VA03286	166.0	166.5	.5	1	42	<5	107	<1	75	1630
			VA03287	166.5	167.5	1.0	1	279	<5	68	<1	70	1800
		Lower contact is at 40 degrees to core axis.											
		STRUCTURE:.											
		Bedding is at 55 degrees to core axis at 163.8 m.											
		Bedding is at 50 degrees to core axis at 164.5 m.											
		Foliation is at 50 degrees to core axis at 165.3 m.											
		ALTERATION:.											
		163.1 167.0 WEAK PERVASIVE CHLORITIZATION.											
		SULPHIDES:.											
		166.0 166.5 Trace sphalerite. Sphalerite occurs as a 2 mm wide band along the edge of 2.5 cm wide quartz-carbonate vein at 40 degrees to core axis.											
167.0	174.4	MAFIC TUFF 7.4											
		Medium green, fine-grained with 10-15% 1-3 mm weakly epidotized feldspars. Very massive between 168.2 and 170.0 m and is likely a flow. Less homogenious in	VA02762	167.0	174.4	7.4	n/a	280	n/a	76	n/a	n/a	974

From (m)	To (m)	DESCRIPTION
		appearance below 170.0 m but no firm evidence that it is tuffaceous. Foliation very poorly developed. Nil sulphides. Lower contact is gradational over 10.0 cm.
174.4	176.2	WEAKLY CHLORITIC FELSIC TUFF Grey-green fine-grained, weakly foliated at 40-50 degrees to core axis. With rare quartz eyes <1 mm in diameter. Felsic in composition throughout most of the interval but minor chloritic zones near the top may be intermediate in composition. Blocky, highly fractured core throughout. Nil sulphides. Lower contact arbitrarily placed where quartz eyes become conspicuous. ALTERATION:. 174.4 176.2 WEAK PERVASIVE CHLORITIZATION.
176.2	181.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Lighter green than above unit. Composed of 5-10% 1-2 mm feldspar crystals and 2 to 5% 1-3 mm quartz eyes in a very fine-grained, almost aphanitic matrix. Most feldspar crystals are epidotized. Rock is moderately microfractured. Microfractures filled with sericite. Rock is relatively massive bedding is not recognizable and foliation is only weakly developed at 65 degrees to core axis. Lower contact is gradational. 176.2 181.3 WEAK PERVASIVE CHLORITIZATION.
181.3	188.0	WEAKLY CHLORITIC FELSIC TUFF Green-grey to brown due to weak to moderate thermal biotite alteration. Unit is a mixture of ash, feldspar crystal, quartz eye and lapilli tuffs and may range into intermediate compositions. Bedding only recognized in one place. Nil sulphides. Lower contact is gradational. STRUCTURE:. Blocky, highly fractured core between 185.4 and 185.9 m. 0.2 m of lost core. Probably a fault at a low angle to the core axis. Bedding (?) is at 52 degrees to core axis at 186.3 m. 1.0 Cm wide fault gouge or fracture runs along core axis between 186.7 and 187.3 m. Gouge is filled with a mustard yellow clay. ALTERATION:. 181.3 188.0 WEAK PERVASIVE CHLORITIZATION.
188.0	210.0	MAFIC TUFF Massive medium green feldspar crystal tuff or flow.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA02763	174.4	188.0	13.6	n/a	58	n/a	46	n/a	n/a	1040
VA02764	188.0	210.0	22.0	n/a	164	n/a	172	n/a	n/a	1290

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Comprised of up to 15 % 1-2 mm epidotized feldspars in a fine-grained chloritic matrix. Massive non bedded nature of rock suggests that it is a flow, but the variable feldspar content and weak thermal biotite alteration indicates that it is tuffaceous. Below 198.0 m feldspars become much less conspicuous, thermal biotite alteration increases and the rock takes on a definite tuffaceous appearance. 10.0 Cm bed of massive light green cherty siltstone at lower contact. Upper contact of this bed is at 78 degrees to core axis and core is broken at lower contact. STRUCTURE:. 1.0 Cm fault gouge at 35 degrees to core axis at 188.1 m. Gouge is filled with mustard yellow clay. 0.5 Cm fault gouge runs parallel to core axis between 190.8 and 191.0 m. Fault is filled with mustard yellow clay. Several inclusions of felsic crystal tuff up to 20 cm long. Lower contact is a 10 cm fault gouge at 70 degrees to core axis. ALTERATION:. 188.0 210.0 WEAK PERVASIVE CHLORITIZATION and weak to moderate thermal biotite alteration. 199.5 199.9 Quartz-carbonate flooded zone with associated chlorite clots. Nil sulphides. 205.5 206.0 Two fine-grained lapilli-sized felsic fragments											
210.0	223.4	MAFIC INTRUSIVE Dark green, fine-grained and crushed with up to 3 % finely disseminated ilmenite. Not feldspar porphyritic. If not for the ilmenite and hematite alteration it might be a mafic tuff or flow. STRUCTURE:. 20 Cm fault gouge at 60 degrees to core axis at 212.9 m. Rock is broken and blocky and there are numerous minor fault gouges for 1.0 m below the fault. Rock has crushed tectonized appearance and there are numerous fracture and gashes filled with a milky white mineral that does not fizz in HCl between 212.9 and 219.0 m. Fault breccia at 50 degrees to core axis between 219.8 and 220.2 m. Breccia is composed of angular clasts of quartz +/- carbonate and felsic crystal tuff <1-40 mm wide in a grey-green clay-rich matrix. Minor fault gouge at 50 degrees to core axis at 222.8 m and rock is crushed from here to lower contact.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-39 Page Number 12

From (m)	To (m)	DESCRIPTION
		ALTERATION:.
		210.0 214.0 WEAK PERVASIVE CHLORITIZATION and local weak fracture controlled Fe-carbonate alteration.
		214.0 888.8 WEAK FRACTURE CONTROLLED HEMATIZATION and local weak fracture controlled Fe-carbonate alteration.
		214.3 214.7 Inclusion of felsic crystal tuff. Upper contact is a slip at 50 degrees to core axis and lower contact is a slip at 85 degrees to core axis.
		218.8 219.0 Inclusion of felsic crystal tuff. Lower contact is a slip at 65 degrees to core axis core is broken at upper contact.
		223.2 223.3 Inclusion of felsic crystal tuff. Upper contact is a slip at 37 degrees to core axis and lower contact is slip at 60 degrees to core axis.
223.4	255.3	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF Light grey moderately to strongly sericitic with < 5% 1-3 mm quartz eyes, <5% ash-sized feldspar crystals and nil to 10 % ash to lapilli-sized fine-grained felsic fragments. Rock has a crushed, sheared appearance and foliation is contorted over the entire interval. Quartz eyes are absent above 226.7 m and are rare below 230.0 m. Lower contact is sharp but irregular at about 62 degrees to core axis. STRUCTURE:. FAULT ZONE at 30 to 80 degrees to core axis between 225.0 and 226.0 m. Numerous minor fault gouges at 40 to 90 degrees to core axis between 226.0 and 227.7 m. Largest is 10 cm wide at 60 degrees to core axis at 227.6 m. Foliation is at 20 degrees to core axis at 228.3 m. Foliation is at 37 degrees to core axis at 228.7 m. Bedding (?) is at 40 degrees to core axis at 230.0 m. 3 Mm fault gouge at 60 degrees to core axis at 230.7 m. Foliation runs nearly parallel to (ie. < 25) to core axis between 230.7 and 236.3 m. 0.5 Cm wide bed of very fine-grained ash with tiny quartz eyes is at 10 degrees to core axis at 235.3 m. Several minor fault gouges at 35 to 65 degrees to core axis between 236.3 and 236.6 m. 5.0 Cm fault gouge at 40 degrees to core axis at 237.4 m.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03288	223.4	224.4	1.0	1	16	<5	38	<1	60	470
VA02765	223.4	255.3	31.9	n/a	119	n/a	444	n/a	n/a	2030
VA03289	224.4	225.4	1.0	2	27	<5	23	<1	760	710
VA03290	225.4	226.4	1.0	3	14	22	58	<1	50	1070
VA03291	226.4	227.4	1.0	3	12	16	100	1	65	1080
VA03292	227.4	228.4	1.0	3	10	17	33	<1	50	1190
VA03293	228.4	229.4	1.0	3	8	7	35	<1	90	1290
VA03294	229.4	230.4	1.0	3	18	10	75	1	100	1690
VA03295	230.4	231.4	1.0	4	17	9	83	1	95	2340
VA03296	231.4	232.4	1.0	4	29	41	76	1	85	2920
VA03297	232.4	233.4	1.0	3	19	22	81	<1	80	2590
VA03298	233.4	234.4	1.0	3	18	17	33	<1	95	2690
VA03299	234.4	235.4	1.0	3	41	14	37	1	130	2040
VA03300	235.4	236.4	1.0	3	39	21	43	1	90	2240
VA03301	236.4	237.4	1.0	4	18	22	50	1	70	2200
VA03302	237.4	238.4	1.0	3	75	15	58	2	200	1650
VA03303	238.4	239.4	1.0	3	21	21	55	<1	60	1440
VA03304	239.4	240.2	.8	3	29	43	256	1	200	1280
VA03305	240.2	241.0	.8	4	21	32	96	<1	110	1220
VA03306	241.0	242.0	1.0	4	26	40	192	<1	55	1210
VA03307	242.0	243.0	1.0	5	43	74	319	1	125	1210
VA03308	243.0	244.0	1.0	4	44	21	370	<1	85	1310
VA03309	244.0	245.0	1.0	5	27	18	218	<1	40	1360
VA03310	245.0	246.0	1.0	10	73	50	664	1	75	1340
VA03311	246.0	247.0	1.0	6	25	18	184	<1	15	1380
VA03312	247.0	248.0	1.0	5	32	15	181	<1	25	2000
VA03313	248.0	249.0	1.0	5	22	17	181	<1	50	2650
VA03314	249.0	250.0	1.0	7	38	59	790	<1	55	3850

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		0.5 Cm thick pyrite bands or beds are at 40 degrees to core axis at 237.4 m.	VA03315	250.0	251.0	1.0	6	27	49	427	1	110	3240
			VA03316	251.0	252.0	1.0	8	96	81	963	1	130	2910
		Foliation is at 55 degrees to core axis at 239.3 m.	VA03317	252.0	253.0	1.0	6	207	191	5200	1	130	3230
		Foliation is at 45 degrees to core axis at 240.5 m.	VA03318	253.0	254.0	1.0	7	167	142	1854	1	75	2060
		Minor fault at 40 degrees to core axis at 240.9 m.	VA03321	254.0	255.3	1.3	5	117	91	1269	1	60	2070
		Foliation is at 25 degrees to core axis at 243.1 m.											
		5.0 Cm fault gouge at 50 degrees to core axis at 246.2 m.											
		Foliation at 30 degrees to core axis at 248.0 m.											
		Foliation is at 38 degrees to core axis at 253.3 m.											
		ALTERATION:.											
		223.4 225.0 WEAK FRACTURE CONTROLLED CHLORITIZATION and moderate sericitization.											
		225.0 236.5 STRONG PERVASIVE SERICITIZATION and very weak chloritization plus occasional spot of mariposite.											
		236.5 245.0 STRONG PERVASIVE SERICITIZATION and weak chloritization plus occasional spot of mariposite.											
		245.0 250.0 MODERATE PERVASIVE SERICITIZATION WEAK PERVASIVE CHLORITIZATION. Several patches of mariposite up to 2 cm long along foliation planes.											
		250.0 255.3 MODERATE PERVASIVE SERICITIZATION WEAK PERVASIVE CHLORITIZATION.											
		SULPHIDES:.											
		223.4 224.4 1 % fracture controlled and disseminated pyrite											
		224.4 230.0 2-3 % disseminated and banded pyrite. Bands are parallel to foliation.											
		230.0 241.5 3-4 % pyrite as above.											
		241.5 245.0 5 % pyrite in thin 1-2mm bands parallel to foliation and in ash to lapilli-sized clasts and disseminated.											
		245.0 246.0 8 % pyrite as above.											
		245.4 888.8 2.0 cm felsic clast with semi-massive pyrite.											
		245.9 888.8 1.0 cm wide band (bed?) of semi-massive pyrite at 20 degrees to core axis.											
		246.0 255.3 5-6% pyrite disseminated, in thin bands parallel to foliation and as ash to lapilli-sized clasts.											
255.3	300.7	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Fine-grained, moderately well foliated, medium green with brownish tint due to moderate thermal biotite alteration. Ripped up beds of light grey-green siltstone < 1.0 cm wide occur over the first 0.5 m of the unit and dark green chloritic mud clasts up to 4 mm long occur throughout the first 1.7 m of the unit. Then the rock becomes more massive but occasional beds of silt (in some	VA02766	255.3	280.0	24.7	n/a	198	n/a	64	n/a	n/a	848
			VA03323	255.3	256.3	1.0	1	135	11	75	<1	20	1040
			VA03319	272.4	273.4	1.0	0	106	14	69	<1	<5	740
			VA03320	273.4	274.0	.6	1	195	15	64	<1	10	990
			VA03322	274.0	275.0	1.0	0	159	9	60	<1	25	910
			VA02767	280.0	300.7	20.7	n/a	85	n/a	59	n/a	n/a	1670

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		cases they are laminated) < 2.0 cm thick occur at low angles to the core axis throughout the unit. Lower contact is a slip at 20 degrees to core axis. STRUCTURE:. Foliation is at 53 degrees to core axis at 256.9 m. Foliation is at 43 degrees to core axis at 258.2 m. Minor fault at 30 degrees to core axis at 259.0 m. Bedding is at 10 degrees to core axis at 261.3 m. Bedding is at 16 degrees to core axis at 270.0 m. Silt beddings run close to core axis (<10) between 277.5 and 278.3 m. Beds are offset by numerous microfaults at 50-60 degrees to core axis. One bed appears to FINE DOWN HOLE. Soft sediment deformation at 277.3 m. Slip at 30 degrees to core axis at 278.5 m. Bedding parallel to core axis at 284.4 m. Minor fault gouge at 60 degrees to core axis at 285.2 m. Minor fault at 40 degrees to core axis at 288.0 m. 1.0 Cm fault gouge at 44 degrees to core axis at 290.0 m. Slip runs parallel to degrees to core axis between 291.4 292.0 m. Bedding is parallel to core axis at 292.0 m. Bedding is at 30 degrees to core axis at 294.8 m. Scour mark on uphole margin of bed indicates TOPS DOWNHOLE. Bedding is at 37 degrees to core axis at 296.0 m. Bedding is at 60 degrees to core axis at 297.5 m. Bedding runs parallel to core axis at 299.4 m. Blocky, highly fractured core over last 50 cm of unit. 1.0 cm fault gouge 30 cm to core axis. ALTERATION:. 255.3 WEAK PERVASIVE CHLORITIZATION and weak pervasive thermal biotite alteration. SULPHIDES:. 273.4 274.0 0.25 % chalcopyrite and trace sphalerite in two quartz-carbonate veins <1.0 cm thick at 20 to 25 degrees to core axis. Specks of chalcopyrite in quartz-carbonate veinlet at 290.6 m.											
300.7	308.8	FELDSPAR PORPHYRITIC GABBRO Dark green, blocky fine-grained feldspar porphyritic over first 3.5 m but becomes medium-grained and massive with depth. 1-2 % disseminated ilmenite.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02251	12.20	12.40	72.60	13.70	1.33	1.17	3.78	2.51	2.33	0.24	0.06	0.03	2.08	99.83	1130.	42.	5.
VA02252	25.40	26.00	69.30	14.80	2.08	2.16	3.60	2.08	3.53	0.35	0.08	0.07	2.31	100.36	1130.	43.	6.
VA02253	48.00	48.30	67.60	15.50	3.41	2.52	0.73	3.19	3.92	0.34	0.07	0.17	2.39	99.84	1780.	58.	4.
VA02254	85.10	85.40	68.10	15.80	1.04	2.20	4.06	3.08	3.25	0.36	0.07	0.09	2.23	100.28	1690.	51.	5.
VA02255	95.40	95.60	69.50	14.90	2.18	1.40	4.89	2.02	3.51	0.34	0.08	0.07	1.47	100.36	987.	33.	7.
VA02256	122.30	122.40	69.20	14.40	1.96	1.95	4.59	2.09	3.35	0.34	0.09	0.08	1.70	99.75	2340.	38.	7.
VA02257	123.60	123.80	53.40	17.50	4.30	5.73	3.93	1.29	9.13	0.68	0.14	0.22	3.47	99.79	639.	46.	8.
VA02258	126.80	126.90	53.30	16.60	7.01	5.55	3.60	0.63	9.64	0.66	0.15	0.24	3.16	100.54	381.	37.	11.
VA02259	132.90	133.20	70.20	15.20	2.65	0.98	2.69	3.28	2.91	0.32	0.09	0.06	1.77	100.15	2980.	44.	5.
VA02260	140.50	140.60	73.80	12.60	2.98	1.36	2.52	2.40	1.62	0.27	0.06	0.06	2.54	100.21	1410.	41.	6.
VA02261	150.90	151.30	55.20	18.60	4.63	3.64	1.96	2.66	9.16	0.75	0.13	0.16	3.08	99.97	1140.	49.	7.
VA02262	159.10	159.20	54.50	18.00	4.37	2.98	0.99	3.62	9.55	0.72	0.14	0.14	3.54	98.55	1670.	55.	5.
VA02263	164.50	165.00	74.60	11.50	2.70	1.36	2.17	1.93	3.34	0.27	0.07	0.08	2.39	100.41	1380.	40.	5.
VA02264	171.70	171.90	51.90	18.00	6.55	5.19	1.94	0.79	10.70	0.73	0.11	0.21	4.08	100.20	438.	41.	8.
VA02265	180.50	180.70	70.40	13.90	2.66	1.61	2.90	2.13	3.11	0.29	0.07	0.06	2.47	99.60	1020.	40.	6.
VA02266	193.60	193.90	56.20	17.50	6.06	3.28	2.52	1.24	8.77	0.65	0.12	0.18	3.08	99.60	758.	35.	9.
VA02267	210.60	211.00	49.80	11.30	9.58	7.00	2.16	0.14	14.60	1.83	0.15	0.24	3.70	100.50	67.	38.	12.
VA02268	221.20	221.40	46.20	12.30	5.84	3.80	2.15	0.60	16.40	2.97	0.23	0.19	7.77	98.45	322.	36.	8.
VA02269	231.60	231.80	74.20	12.40	0.26	0.55	0.11	3.40	3.67	0.29	0.08	0.01	3.77	98.74	3410.	91.	0.
VA02270	240.10	240.20	69.80	13.90	1.29	1.50	0.11	3.72	3.71	0.32	0.09	0.06	4.00	98.50	1320.	79.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02751	5.90	17.40	72.90	12.90	1.84	1.25	2.96	2.41	2.70	0.27	0.06	0.04	2.39	99.72	1220.	43.	5.
VA02752	17.40	34.60	71.30	14.20	1.47	2.01	3.91	1.81	2.82	0.33	0.07	0.07	1.77	99.76	1440.	42.	5.
VA02753	46.90	52.70	71.90	14.10	2.30	1.25	3.34	2.37	2.59	0.32	0.07	0.11	1.23	99.58	2050.	39.	6.
VA02754	80.80	84.20	71.00	14.30	1.19	1.00	5.43	1.91	3.20	0.33	0.07	0.07	1.77	100.27	1300.	31.	7.
VA02755	84.20	102.00	70.70	13.90	3.02	0.89	3.56	2.22	2.92	0.31	0.06	0.06	2.00	99.64	1140.	32.	7.
VA02756	117.10	122.50	67.90	14.40	3.39	1.93	4.52	1.21	4.28	0.39	0.11	0.11	1.93	100.17	1080.	28.	8.
VA02757	122.50	127.60	52.80	16.90	5.43	5.65	3.65	0.87	9.55	0.68	0.11	0.23	3.70	99.57	477.	42.	9.
VA02758	127.60	139.30	65.90	15.50	3.57	1.73	2.27	2.93	4.05	0.35	0.09	0.08	2.93	99.40	3120.	44.	6.
VA02759	139.30	147.40	71.30	12.90	3.29	1.07	1.38	2.96	2.97	0.26	0.06	0.07	2.70	98.96	1330.	46.	5.
VA02760	147.40	160.60	56.40	18.20	6.04	2.38	2.93	2.67	7.02	0.54	0.13	0.14	2.93	99.38	1210.	36.	9.
VA02761	163.10	167.00	71.70	12.00	3.55	1.53	2.28	1.50	4.30	0.31	0.07	0.11	2.08	99.43	826.	34.	6.
VA02762	167.00	174.40	49.10	15.80	11.90	2.53	2.58	1.82	6.83	0.56	0.12	0.19	8.85	100.28	974.	23.	14.
VA02763	174.40	188.00	66.30	15.50	4.22	1.70	3.33	1.87	4.39	0.35	0.10	0.10	2.31	100.17	1040.	32.	8.
VA02764	188.00	210.00	54.20	18.00	6.96	2.92	1.99	2.80	7.67	0.60	0.12	0.15	3.70	99.11	1290.	39.	9.
VA02765	223.40	255.30	70.20	13.20	0.79	1.40	0.10	3.47	4.65	0.36	0.10	0.05	4.62	98.94	2030.	85.	1.
VA02766	255.30	280.00	47.90	16.00	5.57	9.27	2.33	2.57	9.51	0.68	0.17	0.20	4.00	98.20	848.	60.	8.
VA02767	280.00	300.70	49.10	15.80	6.39	7.60	2.20	3.69	9.56	0.80	0.18	0.19	3.85	99.36	1670.	57.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03251	32.10	33.10	1270.0	49.0	27.0	<0.5	10.0	6.0	7.0	<5.0	<5.0	<1.0	<1.0	384.0	64.	1.	1.
VA03252	33.10	33.50	2630.0	187.0	50.0	<0.5	25.0	11.0	1.0	<5.0	14.0	<1.0	1.0	545.0	79.	5.	3.
VA03253	33.50	34.50	2120.0	51.0	54.0	<0.5	10.0	5.0	3.0	<5.0	<5.0	<1.0	<1.0	476.0	49.	1.	1.
VA03254	84.50	85.50	750.0	98.0	70.0	<0.5	10.0	21.0	40.0	<5.0	8.0	<1.0	<1.0	903.0	58.	1.	4.
VA03255	85.50	86.50	720.0	45.0	23.0	<0.5	20.0	5.0	4.0	<5.0	10.0	<1.0	<1.0	243.0	66.	2.	2.
VA03257	86.50	87.50	820.0	45.0	13.0	<0.5	30.0	4.0	3.0	<5.0	19.0	<1.0	1.0	230.0	78.	2.	1.
VA03256	87.50	88.50	1330.0	42.0	32.0	<0.5	5.0	4.0	3.0	<5.0	12.0	<1.0	<1.0	326.0	57.	2.	2.
VA03258	88.50	89.00	1340.0	61.0	45.0	<0.5	20.0	7.0	3.0	15.0	18.0	<1.0	<1.0	311.0	58.	2.	2.
VA03259	89.00	90.00	980.0	19.0	22.0	<0.5	5.0	3.0	2.0	<5.0	12.0	<1.0	<1.0	241.0	46.	1.	1.
VA03260	95.70	96.70	1020.0	18.0	40.0	<0.5	<5.0	6.0	3.0	<5.0	16.0	<1.0	1.0	422.0	31.	1.	2.
VA03261	96.70	97.70	1020.0	31.0	33.0	<0.5	15.0	5.0	3.0	<5.0	9.0	<1.0	<1.0	335.0	48.	2.	2.
VA03262	97.70	98.70	1060.0	37.0	35.0	<0.5	<5.0	6.0	4.0	<5.0	12.0	<1.0	1.0	398.0	51.	2.	2.
VA03263	98.70	99.70	860.0	86.0	39.0	<0.5	5.0	10.0	7.0	<5.0	8.0	<1.0	1.0	351.0	69.	2.	2.
VA03264	99.70	100.40	1650.0	12.0	26.0	<0.5	10.0	3.0	3.0	<5.0	10.0	<1.0	1.0	230.0	32.	2.	1.
VA03265	100.40	101.30	1310.0	48.0	15.0	<0.5	<5.0	5.0	3.0	<5.0	7.0	<1.0	2.0	186.0	76.	4.	1.
VA03266	101.30	102.00	1140.0	95.0	31.0	<0.5	5.0	8.0	5.0	<5.0	6.0	<1.0	1.0	220.0	75.	2.	1.
VA03267	102.00	103.00	60.0	186.0	81.0	<0.5	5.0	31.0	69.0	<5.0	13.0	<1.0	<1.0	706.0	70.	1.	4.
VA03268	139.30	139.80	1320.0	18.0	14.0	<0.5	30.0	4.0	3.0	7.0	15.0	<1.0	2.0	257.0	56.	2.	1.
VA03270	142.30	143.20	2440.0	22.0	9.0	<0.5	10.0	4.0	3.0	<5.0	9.0	<1.0	3.0	185.0	71.	1.	1.
VA03271	143.20	144.20	1750.0	13.0	7.0	<0.5	50.0	5.0	1.0	5.0	125.0	<1.0	1.0	144.0	65.	2.	1.
VA03273	144.20	145.20	1410.0	16.0	9.0	<0.5	75.0	7.0	3.0	<5.0	226.0	<1.0	2.0	190.0	64.	1.	1.
VA03275	145.20	146.20	1810.0	26.0	4.0	<0.5	65.0	4.0	2.0	9.0	14.0	<1.0	2.0	96.0	87.	2.	1.
VA03276	146.20	147.40	1700.0	41.0	7.0	<0.5	75.0	5.0	2.0	9.0	14.0	<1.0	4.0	145.0	85.	2.	1.

Hole No. CH88-39

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03278	156.80	157.80	770.0	290.0	90.0	<0.5	95.0	22.0	16.0	<5.0	20.0	<1.0	2.0	876.0	76.	1.	4.
VA03279	157.80	158.80	1250.0	204.0	74.0	<0.5	45.0	22.0	16.0	<5.0	8.0	<1.0	<1.0	787.0	73.	1.	4.
VA03280	158.80	159.50	1570.0	446.0	73.0	<0.5	30.0	23.0	21.0	<5.0	12.0	<1.0	<1.0	790.0	86.	2.	5.
VA03282	159.50	160.20	1490.0	718.0	70.0	0.6	60.0	17.0	15.0	<5.0	11.0	<1.0	1.0	788.0	91.	2.	4.
VA03283	160.20	160.60	1120.0	5100.0	164.0	2.0	100.0	24.0	17.0	<5.0	15.0	<1.0	9.0	1045.0	97.	4.	5.
VA03269	160.60	161.00	1930.0	1139.0	51.0	<0.5	15.0	32.0	18.0	<5.0	13.0	<1.0	3.0	496.0	96.	6.	5.
VA03272	161.00	161.50	2630.0	871.0	36.0	<0.5	45.0	22.0	16.0	<5.0	13.0	<1.0	4.0	365.0	96.	11.	5.
VA03274	161.50	162.00	1670.0	12900.0	618.0	4.7	110.0	90.0	24.0	31.0	7.0	6.0	45.0	855.0	95.	22.	9.
VA03277	162.00	162.50	910.0	80700.0	5800.0	33.3	280.0	68.0	36.0	42.0	13.0	44.0	40.0	249.0	93.	30.	>10.
VA03281	162.50	163.10	1120.0	8100.0	437.0	3.1	150.0	37.0	15.0	<5.0	7.0	3.0	24.0	457.0	95.	13.	5.
VA03284	163.10	169.10	860.0	124.0	68.0	<0.5	75.0	8.0	10.0	<5.0	13.0	<1.0	2.0	602.0	65.	1.	2.
VA03285	165.00	166.00	1120.0	31.0	69.0	<0.5	30.0	4.0	2.0	<5.0	13.0	<1.0	1.0	359.0	31.	1.	1.
VA03286	166.00	166.50	1630.0	42.0	107.0	<0.5	75.0	11.0	7.0	<5.0	16.0	<1.0	1.0	624.0	28.	1.	2.
VA03287	166.50	167.50	1800.0	279.0	68.0	<0.5	70.0	12.0	8.0	<5.0	10.0	<1.0	<1.0	535.0	80.	1.	2.
VA03288	223.40	224.40	470.0	16.0	38.0	<0.5	60.0	1.0	<1.0	<5.0	21.0	<1.0	2.0	266.0	30.	1.	1.
VA03289	224.40	225.40	710.0	27.0	23.0	<0.5	760.0	2.0	1.0	<5.0	7.0	<1.0	2.0	267.0	54.	2.	1.
VA03290	225.40	226.40	1070.0	14.0	58.0	<0.5	50.0	3.0	2.0	22.0	13.0	<1.0	5.0	120.0	19.	3.	1.
VA03291	226.40	227.40	1080.0	12.0	100.0	0.5	65.0	2.0	<1.0	16.0	14.0	<1.0	5.0	103.0	11.	3.	1.
VA03292	227.40	228.40	1190.0	10.0	33.0	<0.5	50.0	1.0	<1.0	17.0	10.0	<1.0	4.0	96.0	23.	3.	1.
VA03293	228.40	229.40	1290.0	8.0	35.0	<0.5	90.0	3.0	1.0	7.0	18.0	<1.0	5.0	103.0	19.	3.	1.
VA03294	229.40	230.40	1690.0	18.0	75.0	0.5	100.0	3.0	2.0	10.0	17.0	<1.0	5.0	115.0	19.	3.	1.
VA03295	230.40	231.40	2340.0	17.0	83.0	0.6	95.0	4.0	2.0	9.0	14.0	<1.0	5.0	107.0	17.	4.	2.
VA03296	231.40	232.40	2920.0	29.0	76.0	0.8	85.0	4.0	2.0	41.0	9.0	<1.0	5.0	108.0	28.	4.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA03297	232.40	233.40	2590.0	19.0	81.0	<0.5	80.0	6.0	1.0	22.0	8.0	<1.0	1.0	105.0	19.	3.	2.
VA03298	233.40	234.40	2690.0	18.0	33.0	<0.5	95.0	6.0	2.0	17.0	14.0	<1.0	3.0	92.0	35.	3.	2.
VA03299	234.40	235.40	2040.0	41.0	37.0	0.8	130.0	6.0	3.0	14.0	12.0	<1.0	3.0	94.0	53.	3.	3.
VA03300	235.40	236.40	2240.0	39.0	43.0	0.6	90.0	6.0	2.0	21.0	12.0	<1.0	4.0	90.0	48.	3.	2.
VA03301	236.40	237.40	2200.0	18.0	50.0	0.8	70.0	6.0	2.0	22.0	<5.0	<1.0	2.0	168.0	26.	4.	2.
VA03302	237.40	238.40	1650.0	75.0	58.0	1.6	200.0	5.0	2.0	15.0	<5.0	<1.0	2.0	254.0	56.	3.	2.
VA03303	238.40	239.40	1440.0	21.0	55.0	<0.5	60.0	4.0	<1.0	21.0	8.0	<1.0	<1.0	192.0	28.	3.	2.
VA03304	239.40	240.20	1280.0	29.0	256.0	0.6	200.0	5.0	5.0	43.0	<5.0	<1.0	<1.0	193.0	10.	3.	2.
VA03305	240.20	241.00	1220.0	21.0	96.0	<0.5	110.0	6.0	4.0	32.0	8.0	<1.0	<1.0	229.0	18.	4.	2.
VA03306	241.00	242.00	1210.0	26.0	192.0	<0.5	55.0	8.0	4.0	40.0	7.0	<1.0	<1.0	203.0	12.	4.	2.
VA03307	242.00	243.00	1210.0	43.0	319.0	1.0	125.0	7.0	4.0	74.0	6.0	1.0	2.0	182.0	12.	5.	2.
VA03308	243.00	244.00	1310.0	44.0	370.0	<0.5	85.0	8.0	7.0	21.0	11.0	2.0	<1.0	191.0	11.	4.	3.
VA03309	244.00	245.00	1360.0	27.0	218.0	<0.5	40.0	13.0	8.0	18.0	<5.0	<1.0	3.0	287.0	11.	5.	3.
VA03310	245.00	246.00	1340.0	73.0	664.0	0.8	75.0	18.0	11.0	50.0	13.0	5.0	3.0	262.0	10.	10.	5.
VA03311	246.00	247.00	1380.0	25.0	184.0	<0.5	15.0	13.0	9.0	18.0	<5.0	<1.0	<1.0	399.0	12.	6.	3.
VA03312	247.00	248.00	2000.0	32.0	181.0	<0.5	25.0	10.0	6.0	15.0	<5.0	2.0	<1.0	441.0	15.	5.	3.
VA03313	248.00	249.00	2650.0	22.0	181.0	<0.5	50.0	11.0	8.0	17.0	<5.0	1.0	2.0	271.0	11.	5.	3.
VA03314	249.00	250.00	3850.0	38.0	790.0	<0.5	55.0	12.0	10.0	59.0	<5.0	5.0	<1.0	221.0	5.	7.	3.
VA03315	250.00	251.00	3240.0	27.0	427.0	0.5	110.0	8.0	8.0	49.0	6.0	2.0	2.0	105.0	6.	6.	3.
VA03316	251.00	252.00	2910.0	96.0	963.0	1.4	130.0	10.0	7.0	81.0	8.0	6.0	3.0	140.0	9.	8.	3.
VA03317	252.00	253.00	3230.0	207.0	5200.0	1.4	130.0	10.0	7.0	191.0	<5.0	16.0	5.0	186.0	4.	6.	2.
VA03318	253.00	254.00	2060.0	167.0	1854.0	0.9	75.0	6.0	3.0	142.0	<5.0	7.0	6.0	225.0	8.	7.	2.
VA03321	254.00	255.30	2070.0	117.0	1269.0	0.5	60.0	8.0	5.0	91.0	<5.0	5.0	1.0	187.0	8.	5.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03323	255.30	256.30	1040.0	135.0	75.0	<0.5	20.0	38.0	101.0	11.0	<5.0	3.0	<1.0	1157.0	64.	1.	6.
VA03319	272.40	273.40	740.0	106.0	69.0	<0.5	<5.0	35.0	66.0	14.0	<5.0	3.0	<1.0	1019.0	61.	0.	6.
VA03320	273.40	274.00	990.0	195.0	64.0	<0.5	10.0	46.0	68.0	15.0	<5.0	3.0	<1.0	1229.0	75.	1.	7.
VA03322	274.00	275.00	910.0	159.0	60.0	<0.5	25.0	32.0	58.0	9.0	<5.0	2.0	<1.0	920.0	73.	0.	5.

Summary Log: DDH CH88-40
Location: 46+00 E, 1+00 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: April 15, 1988
Core Logged By: D.P. Money

0.0 - 9.1	Casing.
9.1 - 22.9	Intercalated chlorite and sericite - chlorite schists.
22.9 - 56.4	Felsic crystal tuffs with minor thin gabbro dykes.
56.4 - 69.2	Fine grained plagiophyric gabbro.
69.2 - 116.1	Felsic flow or coarse crystal tuff.
116.1 - 126.3	Felsic lapilli tuff.
126.3 - 134.5	Intercalated felsic and mafic tuffs.
134.5 - 156.4	Mafic lapilli tuff.
156.4 - 173.1	Felsic tuffs. From 171.0 to 173.1 there is weak pyrrhotite - chalcopyrite - pyrite mineralization with 2.5 % chalcopyrite from 172.6 to 173.1. This mineralization corresponds to the pulse E.M. anomaly.
173.1 - 177.5	Fine grained plagiophyric gabbro.
177.5 - 202.3	Intercalated mafic and felsic tuffs.
202.3 - 206.9	Major thrust fault, probably splay off the Fulford Fault.
206.9 - 247.4	Pyritic felsic quartz eye bearing tuff with on average 4 % disseminated and banded fine grained pyrite, trace chalcopyrite and mariposite.
247.4 - 249.5	Mafic sill.
249.5 - 252.0	Felsic tuff.
252.0 - 263.0	Fine grained plagiophyric gabbro.
263.0 - 281.0	Mafic tuffs with minor chert interbeds.
281.0	End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40 | Page Number 1

Hole Location: 46+00 E 1+00 S

NTS: 092B/13 UTM: 5416049.6 N 431685.9 E
Azimuth: 210 Elevation: 640 m
Dip: -50 Length: 281.0 m

Started: April 11, 1988
Completed: April 15, 1988

Claim No. Chip 1
Section No.: Section 46+00 East, Chip Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test western extent of PEM anomaly

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
9.10	203.0	-51.0	188.10	206.0	-45.0
99.10	202.0	-50.0	276.10	206.0	-43.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	9.1	OVERBURDEN											
9.1	15.5	FELSIC QUARTZ EYE TUFF Quartz eye bearing, 5 to 7 %, 2 to 3 mm, with 5 to 7 %, < 1 mm epidotized feldspar grains. Tuff is sericitic with local strong spotty sericitization and very local weak to strong chloritization. Blocky, highly fractured core and oxidized with lost core : 0.9 m from 10.0 to 11.3 1.0 m from 11.3 to 14.3 and 0.5 m from 14.3 to 15.7. Foliation trend is at 46 degrees to core axis. There is trace disseminated pyrite.											
15.5	16.0	CHLORITE SCHIST Chlorite schist with strong kinking. 15.5 16.0 STRONG PERVASIVE CARBONATIZATION.											
16.0	19.9	CHLORITIC FELSIC QUARTZ EYE TUFF Blocky, highly fractured core, mainly chloritized felsic ash tuff to quartz - sericite - chlorite schist with locally up to 5 %, 2 mm, quartz eyes. Lost core :. 16.0 to 16.9 : 0.1 m. 18.0 to 18.6 : 0.2 m. Alteration :. 16.0 19.9 WEAK PERVASIVE CHLORITIZATION.											
19.9	21.5	CHLORITE SCHIST Strongly sheared chloritic mafic with calcite veinlets.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		19.9 21.5 STRONG PERVASIVE CARBONATIZATION. Foliation : approximately 47 degrees to core axis.											
21.5	22.9	WEAKLY CHLORITIC FELSIC TUFF Chloritic felsic tuff with minor sericitized lapilli, up to 2 cm long and 3 mm thick. Approximately 10 to 15 % chlorite. Foliation is at approximately 65 degrees to core axis. Minor up to 1 mm quartz and feldspar crystals occur. 21.5 22.9 WEAK PERVASIVE CHLORITIZATION.											
22.9	36.4	FELSIC QUARTZ EYE TUFF White to light grey quartz - sericite schistose matrix hosts 5 to 12 %, 7 % average, 1 to 3 mm, quartz eyes and 7 to 10 %, 1 mm, feldspar grains. Is competent and almost massive with weak to moderate foliation at 55 to 60 degrees to core axis locally. Is rusty with fractured quartz eyes from 28.5 to 30 degrees to core axis. There are rare mafic ash tuff beds and trace local quartz - calcite veinlets. Is locally blocky, highly fractured core with 0.3 m of lost core from 32.0 to 32.9.	VA01019	23.0	36.3	13.3	n/a	15	n/a	18	n/a	n/a	1170
36.4	36.8	MAFIC INTRUSIVE Fine-grained dark green mafic sill, probably gabbro with sharp contacts parallel to foliation, 42 degrees to core axis.											
36.8	39.8	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Felsic tuff or flow, coarse abundant crystals in quartz - sericite matrix. There are approximately 10 %, 3 to 6 mm, quartz eyes and 10 %, 2 mm, feldspar grains. Is fine-grained from 39.6 to 39.8. Fractures are rusty. Foliation is at 59 to 60 degrees to core axis.											
39.8	40.1	MAFIC INTRUSIVE Fine-grained dark green mafic, dyke (?).											
40.1	42.7	FELSIC FELDSPAR CRYSTAL TUFF Sericitic to siliceous light grey felsic tuff, massive and fine-grained with approximately 5 %, 2 to 3 mm, feldspar crystals. Foliation is at approximately 35 to 40 degrees to core axis. There is minor crystal rich beds, no tops indicators are present.											
42.7	43.3	MAFIC INTRUSIVE											

From (m)	To (m)	DESCRIPTION
		As from 39.8 to 40.1.
43.3	49.9	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF Rusty fractured feldspar crystal tuff with 10 to 15 %, 2 to 4 mm, feldspar grains and crystals. There are minor vuggy quartz veins. Foliation varies locally from 50 to 70 degrees to core axis. Locally there are up to 4 %, 1 to 2 mm, quartz eyes. There are trace 2 cm siliceous feldspar crystal tuff lapilli. No sulphides occur. 43.3 49.9 WEAK PERVASIVE CHLORITIZATION , locally medium green, up to 3 % chlorite.
49.9	56.4	FELSIC TUFF Blocky, highly fractured core. Felsic ash tuff and crystal tuffs. Highly fractured and oxidized. Mixed blocky, highly fractured core, felsic ash tuff with 3 to 5 %, 1 mm, quartz eyes at foliation of approximately 45 degrees to core axis from 49.9 to 51, and local pieces of massive tuff with 10 %, 2 mm, feldspar grains. Lost core :. 50.0 to 50.9 : 0.1 m. 50.9 to 52.0 : 0.5 m. 53.9 to 54.4 : 0.4 m. 54.4 to 55.8 : 0.9 m. 55.8 to 56.4 : 0.5 m.
56.4	69.2	FELDSPAR PORPHYRITIC GABBRO Feldspar porphyritic gabbro with on average 10 %, 1 to 3 mm, feldspars. Is locally fine-grained and sheared, i.e. From 66.5 to 68.7 at foliation of 51 degrees to core axis. There numerous local quartz - calcite - chlorite - trace pyrite veinlets at 30 to 70 degrees to core axis. Is oxidized and locally blocky, highly fractured core, with no lost core.
69.2	79.0	FELDSPAR PORPHYRITIC FELSIC FLOW Felsic flow (?) or coarse siliceous crystal tuff. Hosts 10 %, 3 mm, feldspar grains and up to 15 %, < 1 mm, epidote grains. Massive with local rusty fractures. 69.2 79.0 STRONG SPOTTY SILICIFICATION as local quartz flooding and pervasive silicification. Is very locally weakly epidotized and chloritized. From 71.9 to 77.0 there is locally up to 4 % fracture controlled fine-grained pyrite over 10 cm with an average of approximately 1 % pyrite except for 71.9 to 72.2 and 72.9 to 73.8 with approximately 2 % pyrite in moderate to strongly

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01020	69.2	79.0	9.8	n/a	36	n/a	79	n/a	n/a	1300
VA01529	71.9	72.9	1.0	2	47	6	236	<1	10	1060
VA01530	72.9	74.0	1.1	2	71	6	83	<1	<5	2040
VA01531	74.0	75.0	1.0	1	23	<5	73	<1	<5	1070
VA01532	75.0	76.0	1.0	1	21	<5	44	<1	<5	1260
VA01533	76.0	77.0	1.0	1	16	<5	35	<1	<5	960

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40 Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		contorted and weakly bleached flow. Weak foliation trend at 60 to 70 degrees to core axis.											
79.0	87.5	FELSIC FELDSPAR CRYSTAL TUFF More fine-grained than 69.2 to 79.0, but may be part of the flow. 79.0 87.5 STRONG SPOTTY SILICIFICATION as local white quartz flooding over up to 10 cm locally. Is strongly fractured and oxidized from 79.0 to 80.2 and from 85.0 to 87.5. There is trace disseminated pyrite. Locally is same or similiar to 69.2 to 79.0 with 10 to 15 %, 2 to 4 mm, feldspar grains. Mainly is siliceous, medium grey, with 2 to 3 %, 1 to 2 mm, quartz eyes and 5 to 7 %, 1 to 3 mm, feldspar grains. Has weak to moderate schistosity at 50 to 52 degrees to core axis.	VA01021	79.0	87.5	8.5	n/a	33	n/a	29	n/a	n/a	1610
87.5	101.5	FELDSPAR PORPHYRITIC FELSIC FLOW Felsic flow similiar to 69.2 to 79.0. There is weak to strong fracture controlled chloritized and the flow is locally massive and moderately schistose. The flow is medium to dark green - grey with 10 to 15 %, 2 to 4 mm, feldspar crystals and grains, which are locally strongly epidotized. Is rusty and fractured. There is local very spotty quartz flooding. There is nil sulphides. Alteration :. 87.5 101.5 MODERATE FRACTURE CONTROLLED CHLORITIZATION. 87.5 101.5 QUARTZ FLOODING. 87.5 101.5 WEAK PERVASIVE EPIDOTIZATION. Lost core :. 99.0 to 100.0 : 0.2 m. 100.5 to 100.9 : 0.2 m. 100.9 to 101.5 : 0.3 m.	VA01022	88.0	95.0	7.0	n/a	31	n/a	26	n/a	n/a	1080
101.5	111.6	FELDSPAR PORPHYRITIC FELSIC FLOW Similiar to 87.5 to 101.5, has no rusty fractures. There are 10 to 20 %, 2 to 4 mm, feldspar and completely epidotized feldspar laths and grains. Is very massive and siliceous and is medium grey to green. Could be a lapilli tuff if quartz flooding and spotty epidotized is preferential replacement of 5 to 15 cm lapilli. There is minor local fracture controlled quartz veinlets, up to 1 mm and trace disseminated and fracture controlled pyrite. Very weak foliation from 50 to 75 degrees to core axis occurs. Lost core :. 111.0 to 111.6 : 0.6 m, mis latch. Alteration :. 101.5 111.6 STRONG SPOTTY SILICIFICATION. 101.5 111.6 WEAK PERVASIVE EPIDOTIZATION.	VA01023	101.5	111.6	10.1	n/a	78	n/a	20	n/a	n/a	740

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40 | Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
111.6	126.3	FELSIC LAPILLI TUFF Locally weakly chloritized felsic lapilli tuff with approximately 5 % lapilli, 1 to 3 cm, lapilli are either quartz or epidote rich. There are approximately 7 to 10 %, up to 1 mm, epidotized feldspar grains. There are local minor, < 1 %, quartz and calcite veins and veinlets. There is very local epidotization with trace associated fracture controlled pyrite. From 123.3 to 123.5 there is minor white siliceous papery schist with epidote grains and lapilli. Is light to medium green with local chlorite up to 5 %. Foliations :. 114.6 : 49 degrees to core axis. 116.0 : 65 degrees to core axis. 119.3 : 43 degrees to core axis. 123.5 : 50 degrees to core axis. 125.8 : 56 degrees to core axis. Bedding :. 122.0 : 47 degrees to core axis.	VA01024	112.0	126.0	14.0	n/a	21	n/a	28	n/a	n/a	1630
126.3	129.1	FELDSPAR PORPHYRITIC INTERMEDIATE FLOW Andesitic tuff or fine-grained flow with medium to light green salt and pepper texture. There is approximately 20 to 30 % fine-grained feldspars and trace quartz. Is massive with local fracture controlled calcite - epidote veinlets, < 1 mm. There is trace pyrite at the lower contact and up to 20 cm above it.											
129.1	130.6	FELSIC LAPILLI TUFF Felsic tuff with 1 to 3 cm epidote and chloritized tuff lapilli in a siliceous matrix. There is thermal biotite and 0.5 % disseminated pyrite associated with epidote. Bedding is at 48 to 53 degrees to core axis. Lower contact is sharp, upper is hazy.											
130.6	133.5	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Mafic tuff with 15 to 20 %, 1 to 2 mm, epidotized feldspar grains. There are local 1 cm felsic ash tuff beds with thermal biotite at approximately 70 degrees to core axis. From 130.9 to 131.1 there is strong epidotization or a large clast. Weak foliation at 70 degrees to core axis. There is trace fracture controlled chlorite with trace pyrite.											
133.5	134.5	FELSIC TUFF											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Siliceous felsic tuff with 7 % 1 mm epidote grains with bedding at 55 degrees to core axis. There is 30 % fracture controlled quartz - chlorite veins.											
134.5	156.4	FELDSPAR PORPHYRITIC MAFIC LAPILLI TUFF 21.9 Massive medium to dark green lapilli tuff with 5 to 20 %, average 15 %, 1 to 2 mm, feldspar to epidotized feldspar grains. There are 1 to 2 % epidotized 1 cm lapilli with up to 3 % chloritized hornblende crystals. There are local quartz, calcite and chlorite veins and veinlets. There is trace chalcopyrite at 156.2 and at 142.8 in a calcite veinlet. There are trace hornblende, up to 7 mm, i.e. At 139.1, there is a 7 mm hornblende with 2 %, , 1.5 mm hornblendes, unit average < 0.5 % hornblendes. Foliations :. 139.1 : 69 degrees to core axis. 145.6 : 51 degrees to core axis. 149.6 : 64 degrees to core axis. 155.1 : 47 degrees to core axis.	VA01025	135.0	155.6	20.6	n/a	93	n/a	131	n/a	n/a	351
156.4	173.1	FELSIC TUFF 16.7 This interval is a mixture of several tuff layers that contain the sulphide mineralization that produces the pulse E.M. Anomaly. 156.4 156.6 WEAK PERVASIVE CHLORITIZATION , weakly chloritic felsic tuff with approximately 10 % fine-grained feldspars and trace to 0.5 % fracture controlled pyrite. 156.6 156.9 Sericitic fine-grained siliceous light green lapilli tuff with fracture controlled quartz veins perpendicular to bedding. Bedding is at approximately 65 degrees to core axis. 156.9 157.1 Fine-grained dark green mafic flow or sill. Lower contact at fault at 41 degrees to core axis. 157.1 157.5 Blocky, highly fractured core. Strongly contorted felsic tuff with minor thermal biotite and 3 % fracture controlled pyrite and trace to 0.25 % chalcopyrite. 157.5 159.9 WEAK PERVASIVE CHLORITIZATION , chloritic felsic similiar to 156.4 to 156.6 with local quartz lapilli over last 1 m and 2 % fracture controlled pyrrhotite, 1 % fracture controlled pyrite and minor sphalerite clots in a quartz vein at 158.9. Sulphides are slightly stronger from 159 to 159.9 than from 157.5 to 159.0. 159.9 160.0 Quartz vein with minor chlorite, pyrrhotite and pyrite, trace sulphides.	VA01026	156.4	170.0	13.6	n/a	394	n/a	83	n/a	n/a	1250
			VA01534	157.1	157.6	.5	3	273	<5	41	<1	10	1680
			VA01535	157.6	159.0	1.4	3	137	<5	63	<1	<5	1020
			VA01536	159.0	159.9	.9	4	333	<5	778	<1	10	1450
			VA01537	162.0	162.5	.5	2	621	<5	108	1	15	1010
			VA01538	169.7	171.0	1.3	1	827	<5	208	1	5	1180
			VA01539	171.0	171.8	.8	0	990	<5	89	1	10	980
			VA01540	171.8	172.6	.8	6	1218	<5	67	1	10	1920
			VA01552	172.6	173.1	.5	18	9700	16	248	4	35	850

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40 | Page Number 7

From (m)	To (m)	DESCRIPTION
160.0	161.0	Bleached felsic tuff, light green to grey, with minor up to 5 mm chloritic grains and approximately 5 %, 2 mm, epidote grains. There is trace quartz eyes. There is trace to 0.5 % fracture controlled pyrrhotite and pyrite. Fracture controlled pyrite is at approximately 0 degrees to core axis and fracture controlled pyrrhotite is parallel to to foliation. There is a very strong foliation at 43 degrees to core axis.
161.0	161.2	Quartz - chlorite - calcite fracture spur veins
161.2	162.1	As from 160 to 161, but is blocky, highly fractured core. At 162.1 there is rust and strongly contorted sericite, fault (?), orientation is at 57 degrees to core axis.
162.1	171.0	STRONG PERVASIVE CHLORITIZATION.
162.1	171.0	WEAK FRACTURE CONTROLLED CHLORITIZATION strongly chloritic felsic tuff with 15 to 20 %, 1 mm, feldspar grains and trace to 2 %, 1 mm, quartz eyes. Is brown to green due to strong chlorite and thermal biotite. May be andesitic. There are local green and tan felsic ash tuff or cherty beds locally, up to 2 %, at 50 to 60 degrees to core axis. Foliation is at 44 degrees to core axis. There is trace local disseminated pyrite and chalcopyrite. At 162.1 there is 2 cm of 60 % pyrite as 3 to 7 mm clots. At 169.5 there is minor pyrite with pyrrhotite wrapped around 1 cm quartz lapilli in a 5 mm zone with black chlorite at 73 degrees to core axis. There is a minor fault slip at 169.0 at 80 degrees to core axis. There is 0.5 to 1.5 % fracture controlled pyrrhotite and 0.5 % chalcopyrite from 169.8 to 170.1, fracture controlled (?).
171.0	171.1	6 cm of 25 % pyrite, 10 % pyrrhotite and 5 % chalcopyrite deformed around quartz in strong fracture controlled chloritization.
171.1	173.1	Dark green siliceous felsic with minor lapilli surrounded by sulphides.
171.1	171.8	Weak sulphides zone with 2 to 3 % pyrrhotite, 1 to 2 % pyrite and 0.5 to 1 % chalcopyrite, sulphides are wispy and possibly are fracture controlled.
171.8	172.6	Strongly chloritic with 4 to 5 % pyrite, 2 % pyrrhotite and trace chalcopyrite, is parallel to foliation, which is at 76 degrees to core axis. Strongest pyrite is around 1 to 1.5 cm quartz lapilli.
172.6	173.1	Strong sulphides. Weakly chloritic at start and becomes siliceous. Hosts 15 % pyrrhotite,

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40 | Page Number 8

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		2 to 3 % chalcopyrite and trace to 1 % pyrite, pyrite occurs in chlorite. Pyrrhotite is locally massive over 2 cm at 2 locations.											
173.1	177.5	FELDSPAR PORPHYRITIC GABBRO Strange gabbro, 173.1 to 173.4 has 2 to 3 % pyrrhotite and trace to 0.5 % chalcopyrite, parallel to to foliation. Locally is sheared with fine-grained 5 to 10 mm epidote layers that look like beds and there are 1 to 2 %, 1 to 2 mm, quartz eyes and local thermal biotite in these strange zones. Mostly looks like standard gabbro with 5 % 2 to 3 mm epidotized feldspars in a fine-grained green matrix with numerous quartz - chlorite veins. Foliations : 50 degrees to core axis.	VA01551	173.1	173.6	.5	2	464	<5	100	1	20	20
177.5	182.8	FELSIC TUFF Light green siliceous ash tuff with 5 to 15 %, < 1 mm, sausuritized feldspars throughout. There are trace local sericitic lapilli and quartz eyes. There is 1 pyrite clot at 178.4. Bedding is at approximately 55 degrees to core axis. There is minor local fracture controlled silicification.											
182.8	191.8	FELDSPAR PORPHYRITIC MAFIC LAPILLI TUFF Dark green mafic tuff with 15 to 25 %, 2 mm, epidotized feldspars and local epidotized lapilli. Tuff is massive with very weak local banding or bedding at 183.1 at 55 degrees to core axis. There are minor local quartz - (calcite) - (chlorite) veins. There is minor local carbonatization with trace associated pyrite. There is a weak foliation at 52 degrees to core axis.	VA01027	182.8	191.8	9.0	n/a	520	n/a	99	n/a	n/a	496
191.8	199.3	WEAKLY CHLORITIC FELSIC TUFF Weakly chloritic felsic tuff, siliceous, light to medium green. There is minor local thermal biotite. Variable crystal content with on average 5 %, 3 to 4 mm, quartz eyes and 5 to 10 %, 1 to 2 mm, feldspar and epidotized feldspars. Is locally contorted and foliation starts at approximately 50 degrees to core axis and ends at approximately 0 degrees to core axis. There is minor local fracture controlled silicification and quartz veinlets. There is blocky, highly fractured core from 194.2 to 196.3. Lower contact is a fault.	VA01028	191.8	199.3	7.5	n/a	63	n/a	33	n/a	n/a	1170
199.3	202.3	FELDSPAR PORPHYRITIC MAFIC LAPILLI TUFF 199.3 202.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40 | Page Number 9

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Weakly brecciated mafic tuff with moderate fracture controlled carbonatization and 10 to 15 % on average, 1 to 2 mm, epidotized feldspars and local epidote lapilli. There are local quartz - chlorite veins. Foliation is not developed.											
202.3	206.9	FAULT ZONE											
		Fulford thrust fault or splay thereof.	VA01542	202.3	203.3	1.0	0	139	130	601	<1	20	2650
		Mafic fault gouge to 203.3 and felsic from 203.3 to 206.9.	VA01543	203.3	204.3	1.0	3	140	155	1345	1	60	2950
		There are kinks and chevron folds in the fault. Fault	VA01544	204.3	205.3	1.0	3	124	38	1106	1	70	3160
		trends at 64 degrees to core axis. Felsic fault gouge is	VA01545	205.3	206.9	1.6	3	65	110	976	1	60	1830
		sericitic with 2 to 3 % fine-grained disseminated and banded pyrite.											
206.9	247.4	FELSIC QUARTZ EYE TUFF											
		ACTIVE TUFF - PYRITIC QUARTZ EYE BEARING QUARTZ - SERICITE	VA01029	210.0	230.0	20.0	n/a	211	n/a	472	n/a	n/a	1670
		SCHIST.	VA01546	210.4	212.0	1.6	2	176	127	3200	1	30	1480
		Light grey to white quartz - sericite schist with 1 to 5	VA01547	212.0	213.5	1.5	2	300	419	1085	1	20	1540
		%, 1 mm, quartz eyes and 0 to 5 % .0 2.0 to 3 mm, quartz	VA01548	213.5	215.0	1.5	2	224	517	1044	1	15	1190
		eyes. Quantity and size of quartz eyes increases downhole.	VA01549	215.0	216.5	1.5	2	124	139	487	<1	15	1380
		There are local siliceous felsic ash tuff beds, quartz	VA01550	217.5	218.5	1.0	4	635	61	751	1	85	1550
		veins, fault gouge and minor mafic sills.	VA01553	221.5	223.0	1.5	4	187	9	50	<1	30	1680
		Mineralization :.	VA01554	223.0	224.0	1.0	11	305	8	16	<1	95	1150
		206.9 210.4 0.5 % disseminated fine-grained pyrite.	VA01555	224.0	225.0	1.0	7	108	5	16	1	65	860
		210.4 216.5 1 to 1.5 % banded pyrite parallel to foliation	VA01556	225.0	226.0	1.0	5	78	<5	6	<1	50	700
		and 0.5 % disseminated pyrite, fine-grained up	VA01557	226.0	227.0	1.0	4	187	16	186	<1	50	1410
		to 1 mm.	VA01558	227.0	228.0	1.0	4	739	25	230	1	65	1790
		216.5 223.0 Approximately 1 % disseminated and foliation	VA01559	228.0	229.0	1.0	4	306	32	356	1	50	1610
		parallel fine-grained pyrite with 5 to 7 %	VA01560	229.0	230.0	1.0	4	343	32	849	1	150	1640
		banded pyrite from 217.5 to 218.2, 221.6 to	VA01561	230.0	231.0	1.0	4	214	16	928	1	50	1800
		222.2, and 222.5 to 222.6.	VA01030	230.0	245.0	15.0	n/a	232	n/a	754	n/a	n/a	2240
		223.0 223.4 3 to 5 % banded pyrite parallel to foliation,	VA01562	231.0	232.0	1.0	4	643	25	356	1	95	1580
		bands are 1 to 3 mm.	VA01563	232.0	233.0	1.0	4	968	68	1077	3	260	1710
		223.4 223.6 20 % banded fine-grained pyrite parallel to	VA01564	233.4	234.4	1.0	4	312	71	383	1	190	1650
		the contorted bedding and foliation.	VA01565	234.4	235.4	1.0	4	526	11	690	1	120	1820
		223.6 225.8 Approximately 5 % disseminated and foliation	VA01566	235.4	236.9	1.5	4	69	7	34	<1	170	1180
		parallel banded fine-grained pyrite.	VA01567	236.9	238.4	1.5	4	20	17	70	<1	25	1050
		225.8 233.0 3 to 5 % banded fine-grained pyrite parallel	VA01568	238.4	239.9	1.5	4	93	212	407	5	200	2400
		to foliation with local trace chalcopyrite.	VA01569	239.9	241.4	1.5	4	100	241	448	5	210	2630
		231.2 7.0 Mm quartz veinlet parallel to foliation with on	VA01570	241.4	242.9	1.5	4	127	358	876	6	280	1770
		average 2 mm of chalcopyrite on uphole side.	VA01571	242.9	244.4	1.5	4	66	221	316	5	120	1290
		231.7 2.0 Mm mariposite rich band.	VA01572	244.4	246.4	2.0	4	119	530	1290	5	130	1010
		232.3 2.0 Mm chalcopyrite band parallel to foliation with	VA01573	246.4	247.4	1.0	2	475	64	1279	3	133	2700
		minor pyrite.											
		232.5 1.0 Mm chalcopyrite band parallel to foliation.											
		233.0 233.4 S.G.E.'s early mafic sill, andesitic sill with strong fracture controlled quartz veins and 1 to 2 % pyrite clots.											
		233.4 246.4 1 % disseminated pyrite and 2 to 3 % banded											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: Ch88-40

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
263.0	281.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Dark to medium green mafic lapilli tuff with 10 %, 1 to 20 cm epidotized lapilli. There are 15 cm of 1 to 10 mm green chert beds at 263.2 with minor quartz filled faults perpendicular to bedding with up to 0.5 mm offsets. Tops appears to be uphole. There is weak local fracture controlled carbonatization. Tuff has up to 2 %, up to 1 mm, chloritized hornblende crystals in the matrix on average. Likely has komatiitic chemistry. Foliation is not developed. From 266.0 to 266.8 there is 5 to 7 %, 1 to 2 mm, chloritized hornblendes. From 267.5 to 268.2 there are cherts similiar to at 263.2 with bedding at 58 degrees to core axis at 267.7 and at 50 degrees to core axis at 268.0. Alteration :. 263.0 281.0 STRONG SPOTTY EPIDOTIZATION. 263.0 281.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION. End of hole: 922 feet, Friday April 15, 1988 at 1:30 p.m. Total lost core: 7.7 m % recovery = 97.3 %.	VA01031	263.0	281.0	18.0	n/a	156	n/a	52	n/a	n/a	259

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		parallel to foliation fine-grained pyrite with local 1 cm pyrite with trace chalcopyrite bands every 10 to 50 cm. Chalcopyrite specks at : 242.7, 244.8. Mariposite or fuchsite at 239.5, 246.4.											
		246.4 247.4 Chloritic with epidotized feldspars and chalcopyrite blebs at 246.5 and 2 % disseminated pyrite.											
		Alteration :.											
		206.9 247.4 STRONG PERVASIVE SERICITIZATION.											
		Structure :.											
		Lost core : 211 to 212 : 0.3 m.											
		Fault gouge :.											
		209.1 209.2 Approximately 60 degrees to core axis.											
		225.4 226.2 At 59 degrees to core axis.											
		237.1 237.2 At (?) degrees to core axis.											
		Foliations :.											
		215.2 : 48 degrees to core axis.											
		221.4 : 52 degrees to core axis.											
		232.2 : 38 degrees to core axis.											
		234.0 : 22 degrees to core axis.											
		243.8 : 38 degrees to core axis.											
		Bedding :.											
		226.8 : 48 degrees to core axis.											
247.4	249.5	MAFIC INTRUSIVE Strange margined mafic sill. Core of sill is fine-grained dark green with 10 %, 1 mm chloritized hornblendes and epidotized feldspars. Is 20 % quartz - yellow calcite - chlorite. Chlorite and yellow calcite persists into active tuff for 10 to 20 cm.											
249.5	252.0	FELSIC QUARTZ EYE TUFF Weakly active tuff with trace chalcopyrite, fuchsite and 1 % disseminated and banded parallel to foliation fine-grained pyrite. There are 5 to 7 %, 2 mm, quartz eyes 249.5 252.0 MODERATE PERVASIVE SERICITIZATION. Foliation : 45 to 55 degrees to core axis locally.	VA01574	249.5	251.0	1.5	1	203	75	1140	2	91	3000
			VA01575	251.0	252.0	1.0	1	254	36	2047	1	29	2100
252.0	263.0	FELDSPAR PORPHYRITIC GABBRO Medium to fine-grained gabbro with 10 to 20 %, 1 to 4 mm, feldspar grains. Locally weakly magnetic due to minor ilmenite. Upper contact at 50 cm white bull quartz vein. There is spotty epidotization throughout with local moderate fracture controlled carbonatization. Is 50 % blocky, highly fractured core with 0.3 m of lost core from 253.0 to 253.9, 0.3 m from 255 to 256 and 0.4 m from 261.5 to 261.7.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00539	9.10	9.20	64.20	14.60	5.50	1.25	1.46	3.32	3.19	0.26	0.06	0.04	5.31	99.19	1350.	40.	7.
VA00540	15.80	15.90	61.40	12.30	8.39	1.58	0.48	2.50	4.59	0.22	0.06	0.08	8.31	99.91	825.	32.	9.
VA00541	25.40	25.50	69.30	13.30	3.84	1.58	1.33	2.87	2.38	0.27	0.07	0.03	4.62	99.59	1160.	46.	5.
VA00542	29.30	29.40	66.90	15.70	3.02	1.17	2.91	3.31	1.66	0.29	0.06	0.02	5.00	100.04	1130.	43.	6.
VA00543	38.50	38.60	73.30	13.90	1.55	0.67	4.11	2.29	1.89	0.24	0.06	0.04	1.62	99.67	1020.	34.	6.
VA00544	39.90	40.00	50.40	17.90	6.18	4.48	2.82	0.61	12.00	0.82	0.13	0.19	4.47	100.00	229.	36.	9.
VA00545	48.20	48.30	71.20	13.50	3.33	1.20	3.75	1.38	3.56	0.31	0.07	0.04	1.70	100.04	761.	27.	7.
VA00546	76.40	76.50	70.70	14.20	1.67	0.91	5.87	1.60	2.97	0.35	0.10	0.08	1.39	99.84	1120.	25.	8.
VA00547	81.40	81.50	69.70	14.70	1.52	0.95	5.14	2.13	2.76	0.33	0.07	0.07	1.62	98.99	1300.	32.	7.
VA00548	94.70	94.80	67.50	16.60	2.68	0.95	7.14	0.91	3.06	0.34	0.08	0.09	0.93	100.28	912.	16.	10.
VA00549	107.30	107.40	70.00	15.10	2.34	0.61	6.25	1.40	2.37	0.35	0.07	0.05	1.31	99.85	1410.	19.	9.
VA00550	119.10	119.20	63.00	17.30	3.64	2.25	3.35	2.76	4.47	0.48	0.15	0.09	2.70	100.19	2130.	42.	7.
VA00552	121.60	121.70	71.60	13.60	3.03	0.64	4.26	1.77	2.61	0.33	0.12	0.06	1.23	99.25	1860.	25.	7.
VA00551	127.10	127.20	52.90	17.50	7.98	4.88	2.14	0.47	10.40	0.64	0.12	0.28	3.16	100.47	198.	35.	10.
VA00553	139.10	139.20	52.70	16.00	5.45	7.13	4.83	0.28	9.88	0.68	0.15	0.23	2.70	100.03	251.	42.	10.
VA00554	149.90	150.00	52.90	17.50	4.89	6.25	4.01	0.56	9.99	0.69	0.13	0.24	3.31	100.47	387.	43.	9.
VA00555	164.60	164.70	50.30	17.90	7.09	4.04	0.66	2.41	11.80	0.80	0.12	0.25	3.08	98.45	852.	45.	8.
VA00556	174.20	174.30	44.30	12.90	10.60	5.41	2.10	0.31	12.20	1.75	0.17	0.24	9.47	99.45	146.	31.	13.
VA00557	174.70	174.80	48.70	13.70	11.90	5.63	1.44	0.20	13.20	1.86	0.18	0.21	2.31	99.33	80.	30.	13.
VA00558	181.30	181.40	62.30	16.60	5.29	2.57	1.66	2.56	5.24	0.48	0.13	0.11	2.77	99.71	1410.	42.	7.
VA00559	183.90	184.00	55.40	16.70	5.74	3.76	3.46	0.58	9.59	0.68	0.15	0.19	3.16	99.41	311.	32.	9.
VA00560	247.80	247.90	35.30	21.20	10.60	11.50	<0.01	0.03	12.30	0.58	0.08	0.19	6.93	98.72	82.	52.	11.
VA00561	266.40	266.50	48.40	16.60	8.11	6.18	4.13	0.48	10.20	0.85	0.16	0.18	3.93	99.22	574.	35.	12.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01019	23.00	36.30	71.80	13.80	2.72	1.07	2.93	2.59	2.02	0.28	0.07	0.03	2.54	99.85	1170.	39.	6.
VA01020	69.20	79.00	70.00	14.50	1.78	0.93	5.13	1.87	3.00	0.34			1.54	99.09	1300.	29.	7.
VA01021	79.00	87.50	67.60	15.50	1.11	0.80	5.22	2.72	3.34	0.33			2.08	98.70	1610.	36.	6.
VA01022	88.00	95.00	70.40	14.90	1.78	1.11	6.20	1.04	3.22	0.36			1.16	100.17	1080.	21.	8.
VA01023	101.50	111.60	74.50	12.10	3.25	0.46	4.86	0.79	2.77	0.26			1.08	100.07	740.	13.	8.
VA01024	112.00	126.00	69.70	14.40	3.47	1.35	3.24	1.96	3.47	0.37			1.93	99.89	1630.	33.	7.
VA01025	135.00	155.60	52.00	16.50	5.80	6.07	4.19	0.55	9.49	0.68			2.85	98.13	351.	40.	10.
VA01026	156.40	170.00	52.30	18.10	5.93	3.53	0.85	3.06	10.30	0.68			3.39	98.14	1250.	49.	7.
VA01027	182.80	191.80	53.30	16.80	7.15	3.73	2.56	1.09	9.97	0.66			3.23	98.49	496.	33.	10.
VA01028	191.80	199.30	71.00	14.10	2.59	1.29	2.85	2.31	3.41	0.29			2.39	100.23	1170.	40.	5.
VA01029	210.00	230.00	68.10	14.60	1.63	0.74	0.85	2.52	5.54	0.35			5.23	99.56	1670.	57.	2.
VA01030	230.00	245.00	72.40	13.10	1.29	1.24	0.29	2.98	4.02	0.28			4.00	99.60	2240.	73.	2.
VA01031	263.00	281.00	45.50	16.30	13.50	4.75	3.06	0.49	10.20	0.78			5.23	99.81	259.	24.	17.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01529	71.90	72.90	1060.0	47.0	236.0	<0.5	10.0	6.0	3.0	6.0	9.0	2.0	<1.0	267.0	17.	2.	2.
VA01530	72.90	74.00	2040.0	71.0	83.0	<0.5	<5.0	10.0	3.0	6.0	13.0	<1.0	2.0	401.0	46.	2.	3.
VA01531	74.00	75.00	1070.0	23.0	73.0	<0.5	<5.0	4.0	3.0	<5.0	8.0	1.0	<1.0	324.0	24.	1.	1.
VA01532	75.00	76.00	1260.0	21.0	44.0	<0.5	<5.0	3.0	9.0	<5.0	<5.0	<1.0	<1.0	291.0	32.	1.	1.
VA01533	76.00	77.00	960.0	16.0	35.0	<0.5	<5.0	5.0	4.0	<5.0	9.0	<1.0	1.0	301.0	31.	1.	1.
VA01534	157.10	157.60	1680.0	273.0	41.0	<0.5	10.0	23.0	24.0	<5.0	<5.0	1.0	2.0	334.0	87.	3.	4.
VA01535	157.60	159.00	1020.0	137.0	63.0	<0.5	<5.0	26.0	25.0	<5.0	6.0	1.0	<1.0	815.0	69.	3.	5.
VA01536	159.00	159.90	1450.0	333.0	778.0	<0.5	10.0	21.0	15.0	<5.0	<5.0	9.0	15.0	377.0	30.	4.	5.
VA01537	162.00	162.50	1010.0	621.0	108.0	0.7	15.0	35.0	17.0	<5.0	<5.0	2.0	11.0	678.0	85.	2.	5.
VA01538	169.70	171.00	1180.0	827.0	208.0	0.7	5.0	27.0	20.0	<5.0	<5.0	2.0	4.0	1311.0	80.	1.	6.
VA01539	171.00	171.80	980.0	990.0	89.0	0.5	10.0	18.0	11.0	<5.0	<5.0	2.0	6.0	627.0	92.	0.	5.
VA01540	171.80	172.60	1920.0	1218.0	67.0	0.6	10.0	25.0	12.0	<5.0	<5.0	1.0	3.0	754.0	95.	6.	6.
VA01552	172.60	173.10	850.0	9700.0	248.0	3.8	35.0	39.0	37.0	16.0	<5.0	4.0	32.0	896.0	98.	18.	>10.
VA01551	173.10	173.60	20.0	464.0	100.0	0.6	20.0	32.0	63.0	<5.0	<5.0	<1.0	5.0	1017.0	82.	2.	6.
VA01542	202.30	203.30	2650.0	139.0	601.0	<0.5	20.0	22.0	64.0	130.0	32.0	4.0	2.0	1483.0	19.	0.	4.
VA01543	203.30	204.30	2950.0	140.0	1345.0	1.2	60.0	8.0	8.0	155.0	9.0	6.0	2.0	723.0	9.	3.	3.
VA01544	204.30	205.30	3160.0	124.0	1106.0	0.7	70.0	6.0	4.0	38.0	<5.0	6.0	3.0	627.0	10.	3.	2.
VA01545	205.30	206.90	1830.0	65.0	976.0	0.8	60.0	5.0	4.0	110.0	<5.0	4.0	2.0	480.0	6.	3.	2.
VA01546	210.40	212.00	1480.0	176.0	3200.0	0.7	30.0	7.0	4.0	127.0	6.0	16.0	2.0	980.0	5.	2.	2.
VA01547	212.00	213.50	1540.0	300.0	1085.0	0.6	20.0	7.0	4.0	419.0	69.0	6.0	3.0	729.0	22.	2.	2.
VA01548	213.50	215.00	1190.0	224.0	1044.0	0.9	15.0	6.0	4.0	517.0	86.0	6.0	3.0	1007.0	18.	2.	2.
VA01549	215.00	216.50	1380.0	124.0	487.0	<0.5	15.0	8.0	5.0	139.0	<5.0	3.0	3.0	1123.0	20.	2.	2.
VA01550	217.50	218.50	1550.0	635.0	751.0	1.4	85.0	9.0	5.0	61.0	16.0	3.0	4.0	165.0	46.	4.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01553	221.50	223.00	1680.0	187.0	50.0	<0.5	30.0	10.0	9.0	9.0	33.0	<1.0	4.0	48.0	79.	4.	4.
VA01554	223.00	224.00	1150.0	305.0	16.0	<0.5	95.0	14.0	5.0	8.0	58.0	<1.0	3.0	38.0	95.	11.	5.
VA01555	224.00	225.00	860.0	108.0	16.0	0.6	65.0	9.0	4.0	5.0	32.0	<1.0	3.0	39.0	87.	7.	3.
VA01556	225.00	226.00	700.0	78.0	6.0	<0.5	50.0	7.0	4.0	<5.0	19.0	<1.0	3.0	38.0	93.	5.	2.
VA01557	226.00	227.00	1410.0	187.0	186.0	<0.5	50.0	9.0	8.0	16.0	22.0	1.0	4.0	130.0	50.	4.	2.
VA01558	227.00	228.00	1790.0	739.0	230.0	1.0	65.0	7.0	5.0	25.0	9.0	1.0	3.0	267.0	76.	4.	3.
VA01559	228.00	229.00	1610.0	306.0	356.0	0.8	50.0	6.0	3.0	32.0	<5.0	2.0	3.0	304.0	46.	4.	2.
VA01560	229.00	230.00	1640.0	343.0	849.0	1.2	150.0	5.0	4.0	32.0	<5.0	5.0	3.0	266.0	29.	4.	2.
VA01561	230.00	231.00	1800.0	214.0	928.0	0.8	50.0	5.0	2.0	16.0	<5.0	7.0	3.0	279.0	19.	4.	2.
VA01562	231.00	232.00	1580.0	643.0	356.0	1.4	95.0	10.0	6.0	25.0	15.0	3.0	3.0	312.0	64.	4.	3.
VA01563	232.00	233.00	1710.0	968.0	1077.0	2.5	260.0	12.0	8.0	68.0	<5.0	7.0	4.0	369.0	47.	4.	3.
VA01564	233.40	234.40	1650.0	312.0	383.0	1.2	190.0	6.0	5.0	71.0	<5.0	3.0	4.0	213.0	45.	4.	2.
VA01565	234.40	235.40	1820.0	526.0	690.0	0.8	120.0	5.0	4.0	11.0	16.0	3.0	4.0	140.0	43.	4.	3.
VA01566	235.40	236.90	1180.0	69.0	34.0	<0.5	170.0	3.0	3.0	7.0	13.0	<1.0	3.0	78.0	67.	4.	1.
VA01567	236.90	238.40	1050.0	20.0	70.0	<0.5	25.0	3.0	5.0	17.0	10.0	<1.0	2.0	103.0	22.	4.	1.
VA01568	238.40	239.90	2400.0	93.0	407.0	5.1	200.0	6.0	4.0	212.0	39.0	2.0	7.0	62.0	19.	4.	2.
VA01569	239.90	241.40	2630.0	100.0	448.0	5.3	210.0	5.0	6.0	241.0	36.0	3.0	6.0	61.0	18.	4.	3.
VA01570	241.40	242.90	1770.0	127.0	876.0	5.6	280.0	4.0	5.0	358.0	17.0	3.0	9.0	60.0	13.	4.	3.
VA01571	242.90	244.40	1290.0	66.0	316.0	4.5	120.0	4.0	6.0	221.0	<5.0	1.0	8.0	77.0	17.	4.	2.
VA01572	244.40	246.40	1010.0	119.0	1290.0	4.8	130.0	4.0	5.0	530.0	15.0	6.0	7.0	86.0	8.	4.	3.
VA01573	246.40	247.40	2700.0	475.0	1279.0	2.6	133.0	11.0	7.0	64.0	23.0	6.0	7.0	118.0	27.	2.	3.
VA01574	249.50	251.00	3000.0	203.0	1140.0	1.7	91.0	4.0	4.0	75.0	6.0	5.0	5.0	36.0	15.	1.	2.
VA01575	251.00	252.00	2100.0	254.0	2047.0	0.5	29.0	6.0	3.0	36.0	15.0	8.0	2.0	197.0	11.	1.	2.

Summary Log: DDH CH88-41
Location: 28+00 E, 4+97 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: April 16, 1988
Core logged by: J. Pattison

0.0	3.6	Casing.
3.6	55.6	Gabbro
55.6	68.9	Chloritic felsic ash tuffs
68.9	98.9	Chloritic felsic quartz-feldspar crystal tuff
98.9	101.8	Gabbro
101.8	165.0	Chloritic felsic ash tuff Trace to 2 % disseminated pyrite over much of the interval
165.0	210.5	Chloritic felsic lapilli tuff Trace to 2 % disseminated pyrite over much of the interval
210.5	226.2	Chloritic felsic quartz eye tuff
226.2	257.8	Chloritic felsic lapilli tuff
257.8	258.2	Chlorite schist
258.2	272.0	Chloritic felsic quartz eye tuff
272.0	318.1	Quartz carbonate altered mafic tuffs and argillaceous sediments. Carbonate +/- quartz fills fractures and gashes which are roughly parallel to foliation.
318.1	321.0	Chloritic felsic ash tuff
321.0	325.0	Quartz-carbonate altered mafic tuffs and argillaceous sediments
325.0	327.3	Chloritic felsic quartz eye tuff
327.3	346.3	Quartz-carbonate altered mafic tuffs and argillaceous sediments

346.3 m EOH

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 | Page Number 1

Hole Location: 28+00 E 4+97 N

NTS: 92B13 UTM: 5417474.3 N 430380.6 E
Azimuth: 210 Elevation: 608 m
Dip: -50 Length: 346.3 m

Started: 11-April-88
Completed: 16-April-88

Claim No. Chip 1
Section No.: 28+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size:

Purpose: Determine geology north of the Anita area.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
129.80	209.0	-48.0	239.60	208.0	-46.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.6	OVERBURDEN											
3.6	4.9	FELSIC FELDSPAR CRYSTAL TUFF Light grey-green fine-grained. Broken and blocky over entire section. 0.5 M of lost core. Rusty fracture surfaces but no sulphides. Broken core at lower contact.											
4.9	6.5	MAFIC TUFF Green-brown fine-grained with < 5 % ash to lapilli-sized black mud clasts. Moderate thermal biotite alteration. Broken and blocky over entire unit. Limonite stained fractures thoroughout. Broken core at lower contact.											
6.5	55.6	MAFIC INTRUSIVE Grey-green to medium green fine to medium-grained with 2-4% interstitial ilmenite. Massive over most of section but upper 1.5 m is sheared,quartz+carbonate has flooded in along foliation planes and the rock is fine-grained. Occasional quartz +/- carbonate +/- chlorite veins and veinlets. Occasional speck of chalcopyrite often associated with quartz veins. Lower contact is at 50 degrees to core axis. STRUCTURE:. Foliation is at 30 degrees to core axis at 7.4 m. Foliation is kinked, folded and contorted. Blocky, highly fractured core and 0.3 m of lost core between 34.7 and 37.2 m. 10 Cm fault zone at 40 degrees to core axis at 37.4 m. Fault between 44.2 and 44.5 m. Rock is broken and rubbly. Appears to be oriented at 90 degrees to core axis.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		48.4 - 48.8 m blocky, highly fractured core. 49.7 - 51.8 m blocky, highly fractured core. At 54.5 m at 25 degrees to core axis. 15.5 16.2 MAFIC TUFFACEOUS SEDIMENTS. Sediments are finely bedded near upper and lower contacts and are moderately to strongly thermal biotite altered. Both upper and lower contacts with the gabbro are conformable with bedding and suggest that the gabbro may actually be a flow. The upper and lower contacts are at 40 degrees to core axis. A 1.0 cm bed of chery siltstone occurs at the lower contact. 17.9 18.3 MAFIC TUFFACEOUS SEDIMENTS. Similiar to above but core is broken and blocky and contacts have not been preserved. 20.4 20.7 Fine-grained chloritic zone with 10% disseminated ilmenite and no feldspar phenocrysts 21.8 22.7 Fine-grained chloritic zone with 10% disseminated ilmenite and no feldspar phenocrysts. Rock is strongly magnetic. Upper contact is sharp at 40 degrees to core axis and lower contact is at 55 degrees to core axis. 26.0 27.9 MAFIC TUFF. Minor fault at 80 degrees to core axis at upper contact. Tuff is finely bedded at lower contact and lower contact is parallel to to it at 35 degrees to core axis.												
55.6	57.9	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey-green well foliated ash tuff with 1-3 % < 3 mm quartz eyes. Chlorite alteration is variable giving rock a banded appearance. Grey sericitic bands alternate with light green chloritic bands. The bands are less than 10 cm thick, parallel to foliation and likely represent original bedding. Nil sulphides. Broken core at lower contact but it appears to be conformable with bedding. STRUCTURE:. Bedding is parallel to foliation at 58 degrees to core axis at 56.7 m. ALTERATION:. 55.6 57.9 WEAK PERVASIVE CHLORITIZATION and WEAK PERVASIVE SERICITIZATION.	VA02768	55.6	75.0	19.4	n/a	346	n/a	21	n/a	n/a	1700
57.9	68.9	WEAKLY CHLORITIC FELSIC TUFF											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 Page Number 3

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Similiar to 55.6 to 57.9 m except quartz eyes are rare. Rock has a banded appearance in most places due to differences in chlorite content. Broken core at lower contact.	VA03324	61.9	62.9	1.0	0	21	10	25	<1	5	2040
			VA03325	62.9	63.3	.4	2	109	6	14	<1	5	1730
			VA03326	63.3	64.5	1.2	0	33	<5	97	<1	<5	1010
			VA03327	64.5	65.5	1.0	1	337	7	98	1	<5	750
			VA03328	65.5	66.0	.5	4	112	14	19	<1	<5	1440
			VA03329	66.0	67.0	1.0	1	14	6	14	<1	<5	1310
		STRUCTURE:. Bedding is at 55 degrees to core axis at 62.3. Fault at 40 degrees to core axis at 68.9 m. 2.0 Cm fault gouge at 65 degrees to core axis at 62.9 m. Minor fault at 40 degrees to core axis at 68.9 m.											
		ALTERATION:. 57.9 68.9 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.											
		SULPHIDES:. 3 % fracture controlled pyrite-pyrrhotite from 62.9 to 63.4 m. 2 % fracture controlled pyrite from 65.5 to 66.0 m.											
		59.6 60.0 5 % ash to lapilli-sized chlorite spots (mafic fragments ?) stretched parallel to foliation.											
		63.5 64.5 Very massive section, no bedding recognizable.											
		64.8 65.0 Bed of MAFIC TUFF at 60 degrees to core axis.											
		67.4 67.7 Brecciated fractured zone. Fractures are healed with quartz.											
68.9	98.9	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF 10-15% <3 mm feldspar crystals and up to 5 % 1-4 mm quartz eyes in a siliceous, moderately sericitic, weakly chloritic matrix. Rock has a banded appearance and in most places bands likely represent original bedding. Bands are generally <2.0 cm wide and are produced by slight differences in chlorite and silica content. Broken core at lower contact.	VA02769	75.0	98.9	23.9	n/a	49	n/a	49	n/a	n/a	1190
			VA03330	78.7	79.5	.8	3	150	33	61	<1	25	1510
			VA03331	79.5	80.2	.7	2	37	9	12	<1	5	1080
			VA03332	80.2	81.2	1.0	1	24	5	27	<1	10	1040
			VA03333	84.0	85.0	1.0	2	38	<5	21	<1	<5	1270
			VA03334	85.0	86.0	1.0	1	16	5	16	<1	5	1090
			VA03335	86.0	87.0	1.0	1	13	<5	18	<1	<5	810
			VA03336	87.0	88.4	1.4	1	11	6	17	<1	<5	690
			VA03337	88.4	88.6	.2	4	71	8	31	<1	15	660
			VA03338	88.6	89.5	.9	2	61	<5	60	<1	10	600
			VA03339	89.5	90.2	.7	1	25	5	37	<1	5	520
			VA03340	94.5	95.0	.5	2	341	27	493	<1	35	940
			VA03341	95.3	95.5	.2	3	<1	104	569	<1	10	760
			VA03342	95.9	96.9	1.0	3	233	10	431	<1	20	1200
			VA03343	96.9	97.5	.6	2	382	11	1464	<1	15	1230
			VA03344	97.5	98.5	1.0	1	40	<5	47	<1	<5	1630
		STRUCTURE:. Bedding is at 55-60 degrees to core axis at 72.5 m. Foliation is kinked between 77.7 and 78.7 m. Bedding is at 67 degrees to core axis at 78.9 m. Bedding is at 60 degrees to core axis at 81.6 m. Beds are offset 1.0 cm by a minor fault at 20 degrees to core axis. Bedding is at 60 degrees to core axis at 84.6 m. Bedding is at 58 degrees to core axis at 89.0 m. Bedding is at 57 degrees to core axis at 90.9 m. Foliation is kinked. 3 Mm fault gouge at 25 degrees to core axis at 91.1 m.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 Page Number 4

From (m)	To (m)	DESCRIPTION
		Foliation is kinked, folded and contorted between 93.3 and 94.0 m.
		Foliation is at 50 degrees to core axis at 94.7 m.
		0.5 Cm fault gouge at 65 degrees to core axis at 95.3 m.
		Foliation is kinked and contorted between 96.5 and 98.9 m.
		ALTERATION:.
68.9	98.9	WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.
95.3	95.5	Weak mariposite alteration.
		SULPHIDES:.
78.7	80.2	1-2% pyrite disseminated in discrete beds 2 to 10 mm thick at 60-70 degrees to core axis.
94.5	95.0	2 % pyrite and trace chalcopyrite disseminated along foliation planes.
95.3	95.5	4 % pyrite disseminated along foliation planes.
95.9	97.5	2 % pyrite and trace sphalerite/biotite disseminated and pyrite sometimes occurs in spots <3 mm in diameter which may be clasts. Pyrrhotite-chalcopyrite occasional in a 1.0 cm quartz vein at 50 degrees to core axis at 97.4 m.
83.1	84.0	MAFIC DYKE: massive pale green fine-grained weakly feldspar porphyritic upper contact is sharp at 70 degrees to core axis while lower contact is very irregular.
84.0	86.0	1-2% fracture controlled pyrite.
88.4	88.6	Cherty silt beds < 2.0 cm thick at 58 degrees to core axis. 2 % fracture controlled pyrite. One bed contains a 1.0 cm wide clast of felsic crystal tuff.
88.6	89.5	Felsic ash tuff, no quartz eyes. 2-3% pyrite along foliation planes.
90.2	90.5	MAFIC DYKE. Medium green fine-grained moderately carbonatized no feldspar phenocrysts and moderately well foliated. Upper contact is at 58 degrees to core axis and lower contact is at 60 degrees to core axis.
92.1	92.3	MAFIC DYKE. As above. Upper and lower contacts are conformable with bedding and foliation at 55-60 degrees to core axis.
92.3	98.9	Quartz eyes are very rare.
95.0	95.3	MAFIC DYKE. As 90.2 to 90.5 m. Upper and lower

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 Page Number 5

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		contacts are at 55-60 degrees to core axis.											
		95.5 95.9 MAFIC DYKE. As 90.2 to 90.5 m. Contacts are at 62 to 67 degrees to core axis.											
98.9	101.8	MAFIC INTRUSIVE											
		Medium green, fine-grained with 1-2% finely disseminated ilmenite and trace disseminated pyrite. May be a mafic volcanic but is logged as gabbro based on the presence of ilmenite. Lower contact is at 47 degrees to core axis.	VA03345	100.8	101.3	.5	4	48	<5	199	<1	25	1580
		99.4 99.5 Inclusion or bed of felsic ash tuff at 60 degrees to core axis. Upper and lower contacts are offset 3.0 cm by a fault running parallel to core axis.											
		100.8 101.3 Inclusion of felsic crystal tuff with 4 % pyrite concentrated on foliation planes and in hairline fractures. Upper contact is at 42 degrees to core axis and lower contact is at 52 degrees to core axis.											
101.8	165.0	WEAKLY CHLORITIC FELSIC TUFF											
		Light grey with a greenish tint fine-grained and well foliated. Moderately to strongly sericitized and weakly chloritic. Foliation is kinked over much of the interval. 1.1 M mafic dyke at the lower contact.	VA03346	101.8	102.8	1.0	4	568	123	945	9	220	1230
			VA02770	101.8	131.0	29.2	n/a	72	n/a	81	n/a	n/a	1460
			VA03347	102.8	103.8	1.0	3	157	45	686	1	16	1450
			VA03348	103.8	104.6	.8	2	34	27	198	<1	22	1280
			VA03349	107.0	108.0	1.0	1	41	7	138	<1	71	2070
		STRUCTURE:.	VA03350	108.0	108.7	.7	4	633	118	507	3	104	5340
		102.0-102.5 FAULT ZONE. Several fault gouges up to 5.0 cm wide at 40 to 52 degrees to core axis. Foliation is kinked, ptygmatically folded and contorted for 7.0 m below this zone.	VA03351	108.7	109.7	1.0	1	23	6	285	1	12	930
			VA03352	110.8	111.8	1.0	1	33	17	401	1	31	1320
			VA03353	111.8	112.8	1.0	2	27	13	604	1	13	1260
			VA03354	112.8	113.3	.5	4	25	6	1335	1	24	1250
		At 107.6 m 0.5 cm fault gouge at 60 degrees to core axis.	VA03355	113.3	114.3	1.0	1	28	12	64	<1	9	1290
		108.7 - 109.3 m FAULT ZONE at 50-60 degrees to core axis.	VA03356	128.0	128.5	.5	3	17	10	290	1	37	950
		At 110.1 m bedding is at 70 degrees to core axis.	VA03357	129.8	130.8	1.0	3	19	10	58	<1	15	1070
		At 111.6 m FAULT ZONE at 50 degrees to core axis. 0.4 m of lost core.	VA03358	130.8	132.0	1.2	5	28	10	79	<1	23	960
			VA02771	131.0	163.9	32.9	n/a	104	n/a	38	n/a	n/a	1180
		At 112.8 m 1.0 cm fault gouge at 70 degrees to core axis.	VA03359	132.0	133.0	1.0	3	88	7	67	1	24	1140
		117.4-118.0 m 10.0 cm FAULT ZONE at 50 degrees to core axis	VA03360	133.0	134.0	1.0	2	16	8	37	<1	5	1150
		At 120.5 m foliation is at 47 degrees to core axis.	VA03361	134.0	135.0	1.0	2	14	9	47	<1	<5	1050
		Bedding is at 40 degrees to core axis at 120.9 m.	VA03362	135.0	136.0	1.0	2	14	9	80	1	7	1070
		5.0 Cm fault gouge at 75 degrees to core axis at 129.8 m.	VA03363	136.0	136.0	.0	2	14	6	51	<1	29	1220
		At 103.0 m 10 cm fault at 40 degrees to core axis.	VA03364	137.0	138.0	1.0	1	19	9	56	1	25	1090
		Foliation is at 65 degrees to core axis at 134.2 m.	VA03365	140.0	141.0	1.0	2	17	<5	88	1	26	1090
		Foliation is at 66 degrees to core axis at 140.6 m.	VA03366	141.0	142.0	1.0	2	18	6	130	<1	26	1210
		FAULT ZONE at 55 degrees to core axis between 141.0 and 141.3 m.	VA03367	142.0	143.0	1.0	2	18	9	71	<1	7	1150
			VA03368	143.0	144.0	1.0	2	17	6	39	<1	24	1020
		Bedding is at 50 degrees to core axis at 147.9 m.	VA03369	144.0	145.0	1.0	2	21	9	58	1	40	1010

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

From (m)	To (m)	DESCRIPTION
		Bedding is at 60 degrees to core axis at 153.0 m.
		3.0 Cm fault gouge at 70 degrees to core axis at 154.0 m.
		Foliation is at 50 degrees to core axis 158.0 m.
		Foliation is at 40 degrees to core axis at 162.6 m.
		3.0 Cm fault gouge at 90 degrees to core axis at 166.3 m.
		Foliation is at 42 degrees to core axis at 169.0 m.
		Banding (bedding?) is at 42 degrees to core axis at 169.6 m. Bands are <0.5 cm wide and are the result of differences in chlorite/sericite content.
		105.1-105.2 M fault gouge at 40-60 degrees to core axis.
		ALTERATION.
101.8	165.0	STRONG PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION. Several spots of mariposite at 147.8 m.
		SULPHIDES:.
101.8	104.6	2 % pyrite, disseminated and in <2 mm bands parallel to foliation.
104.6	108.0	<1% pyrite in spots (clasts ?) up to 4 mm in diameter.
108.0	108.7	2 % disseminated pyrite and trace chalcopyrite.
108.7	111.8	1 % disseminated pyrite.
111.8	113.3	3 % disseminated pyrite.
113.3	129.8	<1% disseminated pyrite.
129.8	130.0	2 % pyrite disseminated along foliation planes. Trace chalcopyrite associated with a 3.0 cm irregular quartz-carbonate vein at 132.6 m.
138.0	140.0	1 % disseminated pyrite.
140.0	157.0	2 % pyrite disseminated and in 1-2 mm bands parallel to foliation.
157.0	163.9	1 % disseminated pyrite.
124.3	124.4	Fine-grained MAFIC DYKE at 66 degrees to core axis.
128.2	128.4	Cherty beds <0.5 cm thick at 65 degrees to core axis. 5 % disseminated pyrite.
129.8	132.0	0.8 m of lost core due to problems with the core barrel.
146.3	146.8	MAFIC DYKE/TUFF/STRONGLY CHLORITIZED ZONE. Dark green, fine-grained strongly chloritic. Upper and lower contacts are parallel to to foliation at 40 degrees to core axis. Moderate fracture controlled carbonatization and trace disseminated pyrite.
147.5	147.7	Chlorite-carbonate alteration zone.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03370	145.0	146.3	1.3	2	30	9	88	<1	30	870
VA03371	146.8	147.5	.7	2	45	8	42	<1	25	1000
VA03372	147.7	148.7	1.0	3	50	8	59	1	40	960
VA03373	148.7	149.7	1.0	2	17	11	32	<1	20	1070
VA03374	149.7	150.7	1.0	2	21	9	60	<1	25	1020
VA03375	150.7	151.7	1.0	3	16	<5	28	<1	30	1040
VA03376	151.7	152.7	1.0	3	18	9	32	<1	35	1040
VA03377	152.7	153.5	.8	1	24	8	32	<1	20	920
VA03378	153.8	154.8	1.0	3	17	7	40	<1	20	1100
VA03379	154.8	155.8	1.0	3	15	6	219	<1	25	1250
VA03380	155.8	156.8	1.0	3	16	8	78	<1	30	1310
VA03381	156.8	157.8	1.0	2	6	<5	30	<1	15	990
VA03382	157.8	159.0	1.2	2	4	9	31	<1	35	1020

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	153.5 153.8	MAFIC DYKE/FLO!TUFF. As 146.3 to 146.8 m. Upper and lower contacts are conformable with bedding at 60 degrees to core axis.											
	156.8 163.9	<2% ash-sized quartz eyes.											
	160.6 888.8	0.5 cm band of finely laminated, cherty tuff at 51 c/ with lamelli of pyrite.											
	163.9 165.0	MAFIC DYKE. Medium green, fine-grained, massive with 3 % moderately magnetic ilmenite as subhedral crystals up to 3 mm in diameter and trace chalcopyrite. Broken core at upper contact. Lower contact is at 48 degrees to core axis.											
165.0	210.5	CHLORITIC FELSIC LAPILLI TUFF											
		Similiar to 101.8 165.0 m but contains up to 10 % light grey fine-grained felsic fragments up to 4 cm long (most <1.0 cm) stretched parallel to foliation. In most cases the fragments are hazy and difficult to distinguish from the matrix except where the rock is moderately chloritic. Rock is well banded. Bands are generally < 3.0 cm wide, roughly parallel to foliation and probably represent original bedding. Occasional ash-sized quartz eyes. Mafic ash tuff occurs at lower contact.	VA02772	165.0	188.0	23.0	n/a	42	n/a	54	n/a	n/a	1200
			VA03384	179.0	179.5	.5	3	19	14	87	<1	15	1200
			VA03385	181.6	182.1	.5	2	879	20	2213	3	140	1040
			VA02773	188.0	210.5	22.5	n/a	44	n/a	177	n/a	n/a	1310
			VA03383	189.4	190.1	.7	3	20	12	108	<1	20	1590
			VA03386	198.4	199.4	1.0	0	665	142	2902	2	55	1320
			VA03387	199.4	200.4	1.0	0	110	21	253	<1	45	1520
			VA03388	200.4	201.4	1.0	0	271	480	490	1	24	1200
		STRUCTURE:. Banding (bedding?) is at 40-50 degrees to core axis at 171.5 m. 5.0 Cm fault gouge at 90 degrees to core axis. Foliation is at 50 degrees to core axis at 175 m. 175.9-179.0 FAULT ZONE at 30-60 degrees to core axis. Rock is crushed, there are many fault gouges and foliation runs nearly parallel to core axis over much of the interval. Bedding is at 50 degrees to core axis at 181.8 m. 186.0-186.3 M: fold nose (?). Foliation changes from 50 to 0 back to 50 degrees to core axis. Rock is very crushed in centre of nose (?) and similiar in appearance to what have previously been logged as fault gouges. 186.9-187.7 M: crushed zone. At 188.0 m banding (bedding?) is at 50 degrees to core axis At 189.9 banding is sharply kinked (folded) along edge of a slip at 50 degrees to core axis. 193.4-193.9 M: fault gouge runs parallel to core axis. At 195.0 m foliation is at 50 degrees to core axis. 195.3 195.6 M FAULT ZONE: at 20 degrees to core axis. At 205.0 m foliation is at 50 degrees to core axis.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 Page Number 8

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 206.7 m bedding is at 55 degrees to core axis.											
		ALTERATION:.											
165.0	210.5	WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION to STRONG PERVASIVE SERICITIZATION.											
		SULPHIDES:.											
165.0	179.0	Trace-1% pyrite.											
179.0	179.5	2 % disseminated pyrite.											
179.5	187.8	Trace-1 % disseminated pyrite. 5.0 cm silicified zone at 45 degrees to core axis.											
187.8	189.4	1 % pyrite as spots up to 3 mm in diameter.											
189.4	190.1	3 % pyrite in 1-2 mm bands parallel to to foliation.											
At 182.0 with 10 % pyrite and 2 % chalcopyrite.													
190.1	198.4	1 % disseminated pyrite.											
198.4	201.4	2 % pyrite and nil-trace chalcopyrite. Sulphides are disseminated and occur in chlorite-carbonate alteration zones and in bands up to 1.0 cm wide.											
201.4	210.5	1 % disseminated pyrite as spots < 2 mm in diameter.											
166.3	167.0	MAFIC DYKE. Fine-grained, sheared medium green with weak spotty hematite. Core is broken and blocky throughout. Upper contact is a 3.0 cm fault gouge at 90 degrees to core axis and the lower contact is at 30 degrees to core axis.											
173.6	174.0	Up to 10 % 1-5 mm quartz eyes.											
180.4	181.3	MAFIC DYKE. Dark green, fine-grained and moderately carbonatized. Upper contact is at 58 degrees to core axis and lower contact is at 50 degrees to core axis.											
182.0	183.0	5 % 1-5 mm quartz eyes. Quartz eyes fine downhole.											
188.7	189.4	5 % 1-4 mm quartz eyes.											
199.8	200.4	MAFIC TUFF (?). Dark green, fine-grained well banded. Banding is folded and contorted. Moderate carbonate chlorite alteration and several quartz-carbonate veins up to 2.0 cm wide.											
210.1	210.5	MAFIC ASH TUFF. Medium green, finely bedded with 4 % pyrite. Contacts are at 45-50 degrees to core axis.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 Page Number 9

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
210.5	226.2	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey-green moderately to strongly sericitic very weakly to weakly chloritic, fine-grained with up to 5 % 1-4 mm quartz eyes. Hazy, poorly defined lapilli-sized felsic fragments are common. STRUCTURE:. At 212.0 m foliation is at 40 degrees to core axis. At 214.0 m FAULT ZONE at 42 degrees to core axis. 0.3 m of lost core. At 224.1 m bedding is at 42 degrees to core axis. 225.0-226.2 M FAULT ZONE at 50 degrees to core axis. 0.8 m of lost core. 254.0-255.0 M foliation is kinked and folded. ALTERATION:. 210.5 226.2 WEAK PERVASIVE CHLORITIZATION , MODERATE PERVASIVE SERICITIZATION to STRONG PERVASIVE SERICITIZATION and nil to very weak brown carbonate alteration. SULPHIDES:. 210.5 226.2 Nil-trace disseminated pyrite. 210.9 211.1 MAFIC ASH TUFF. Contacts are at 45 degrees to core axis. 218.1 218.2 MAFIC ASH TUFF. Wavey banding at 30-50 degrees to core axis.	VA02774	210.5	226.2	15.7	n/a	87	n/a	48	n/a	n/a	1190
226.2	257.8	CHLORITIC FELSIC LAPILLI TUFF As 165.0 210.5. Distinctive light brown stain along foliation planes above 242.0 m. Foliation is kinked over most of the unit. Lower contact is at 60 degrees to core axis. STRUCTURE. 228.9 to 229.0 m fault gouge at 60 degrees to core axis. 229.7 to 230.1 m fault gouge at 50 degrees to core axis. 230.6 to 230.9 m fault gouge at 50 degrees to core axis. At 234.0 m foliation is at 55 degrees to core axis. 236.7 238.1 Banding/foliation is kinked and folded. Foliation runs parallel to core axis between 237.2 and 237.5 m. At 245.1 m 1.0 cm fault gouge at 68 degrees to core axis. At 246.7 m foliation is at 57 degrees to core axis. At 252.5 m bedding is at 60 degrees to core axis.	VA02775	226.2	257.8	31.6	n/a	54	n/a	40	n/a	n/a	1020

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ALTERATION:.											
		226.2 257.8 MODERATE PERVASIVE SERICITIZATION , WEAK PERVASIVE CHLORITIZATION and weak beige carbonate alteration.											
		SULPHIDES:.											
		226.2 257.8 Nil-1 % disseminated pyrite.											
		252.5 253.9 2 % quartz eyes up to 5 mm in diameter.											
257.8	258.2	CHLORITE SCHIST Dark green, well foliated, chloritic mafic tuff or flow. Weak carbonatization. Nil sulphides. Broken core at lower contact.	VA02776	257.8	272.0	14.2	n/a	77	n/a	11	n/a	n/a	1340
258.2	261.6	CHLORITIC FELSIC QUARTZ EYE TUFF More strongly chloritic than the felsic units above. Up to 7 % 2-6 mm quartz eyes. Rock is crushed over the entire interval but foliation is not contorted. Rock is silicified for 0.7 m from the lower contact. Trace chalcopyrite associated with a 2.0 cm quartz-carbonate vein along the lower contact. Lower contact is at 50 degrees to core axis. Quartz eyes are relatively rare below 268.0 m. STRUCTURE:. At 260.5 m foliation is at 58 degrees to core axis. ALTERATION:. 258.2 261.6 MODERATE PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.											
261.6	262.8	CHLORITE SCHIST As 257.8 to 258.2 m. Nil sulphides. Lower contact is sharp but irregular at about 50 degrees to core axis.											
262.8	272.0	CHLORITIC FELSIC QUARTZ EYE TUFF Light green-grey, moderately chloritic well foliated crushed matrix with <2 % 2-4 mm quartz eye and up to 20 % light grey felsic fragments <2 cm wide. Lower contact is at 56 degrees to core axis. STRUCTURE:. At 263.3 m foliation is at 66 degrees to core axis. 264.0-264.3 Fault gouge at 68 degrees to core axis. 265.9-270.0 Foliation is kinked and folded. Foliation is parallel to core axis from 266.7 m to 267.1 m (fold nose?). 266.5-266.7 FAULT ZONE at 35 degrees to core axis.	VA03389 VA03390 VA03391	268.0 269.0 270.3	269.0 270.3 271.4	1.0 1.3 1.1	2 2 2	13 19 10	<5 6 <5	30 36 20	<1 <1 <1	14 10 25	1000 960 1000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 Page Number 11

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ALTERATION:.											
		262.8 272.0 MODERATE PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.											
		SULPHIDES:.											
		268.0 269.0 2 % pyrite in patches up to 1.0 cm in diameter associated with quartz-carbonate veins.											
		270.3 271.4 Numerous quartz-carbonate veins up to 15 cm wide at 50-60 degrees to core axis. 2 % pyrite within the veins.											
272.0	318.1	MAFIC TUFFS AND ARGILLACEOUS SEDIMENTS											
		Streaky dark green to black, strongly chloritic with many white carbonate +/- quartz filled fractures and gashes roughly parallel to foliation. Likely a mix of mafic ash tuff and argillaceous sediments. Occasional <1.0 cm bed of feldspar crystal tuff recognizable. Occasional very rare quartz eye up to 4 mm in diameter. Quite different in appearance from MAFIC TUFFACEOUS SEDIMENTS south of the Active Tuff. This rock has a high argillaceous sedimentary component but no thermal biotite alteration and cherty beds are very rare. Sediment component increases below 309.0 m, rock is finely bedded (beds < 0.5 cm) and cherty beds are common. Lower contact is a 1.0 cm fault gouge at 55 degrees to core axis.	VA02777	272.0	295.0	23.0	n/a	68	n/a	67	n/a	n/a	245
			VA03392	278.0	279.0	1.0	1	15	<5	109	<1	20	190
			VA02778	295.0	320.0	25.0	n/a	76	n/a	70	n/a	n/a	307
			VA03393	317.7	318.0	.3	1	30	<5	117	<1	28	690
		STRUCTURE:.											
		273.0-273.7 FAULT ZONE at 45 degrees to core axis. 0.2 m of lost core.											
		276.1-276.2 Foliation is folded. Fold axes are at 40 degrees to core axis.											
		At 279.0 m foliation is at 60 degrees to core axis.											
		282.0-282.2 FAULT ZONE at 70 degrees to core axis.											
		284.5-285.3 M FAULT ZONE. Foliation is nearly parallel to core axis. 0.5 m of lost core.											
		At 286.5 m foliation is at 60 degrees to core axis.											
		At 295.2 m foliation is at 50 degrees to core axis.											
		299.0-299.1 M two 1.0 cm fault gouge at 50-55 degrees to core axis.											
		At 303.4 bedding is at 58 degrees to core axis.											
		At 309.2 fine bedding at 45 degrees to core axis.											
		At 312.4 foliation is at 55 degrees to core axis.											
		ALTERATION:.											
		272.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION and STRONG PERVASIVE CHLORITIZATION.											
		295.6 296.2 2 % <2 mm black anhedral mafic crystals											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		(hornblende ?).											
		SULPHIDES:.											
		278.2 888.8 Few specks of sphalerite (?) associated with quartz-carbonate alteration.											
		317.7 318.1 2 % pyrite associated with strong pervasive carbonate alteration.											
		293.5 294.7 3 % paper thin black chloritic fragments smeared along foliation planes.											
		303.5 304.0 3 % black lapilli-sized mud clasts stretched 1:10 parallel to foliation.											
318.1	321.0	WEAKLY CHLORITIC FELSIC TUFF Light grey-green finely bedded ash tuff. Cherty siliceous beds of ash tuff up to 5.0 cm thick (most < 5 mm) alternate with more chloritic bands. Nil sulphides. Lower contact is at 60 degrees to core axis.	VA02779	320.0	346.3	26.3	n/a	80	n/a	150	n/a	n/a	754
		STRUCTURE:. At 318.1 m bedding is at 50 degrees to core axis.											
		ALTERATION:. 318.1 321.0 MODERATE PERVASIVE CHLORITIZATION and MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
		318.7 319.4 MAFIC-INTERMEDIATE SEDIMENTS. As 272.0 to 318.7 m.											
		320.7 320.8 MAFIC ASH TUFF bed at 60 degrees to core axis.											
321.0	325.0	MAFIC TUFFS AND ARGILLACEOUS SEDIMENTS As 272.0 to 318.7 m. Nil sulphides. Lower contact is gradational over 5.0 cm.											
		ALTERATION:. 321.0 325.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION and STRONG PERVASIVE CHLORITIZATION.											
		322.3 888.8 5.0 cm felsic ash tuff at 70 degrees to core axis.											
		323.6 323.8 Bedding is contorted (soft sediment deormation ?) and there are clasts of cherty tuff up to 1.0 cm wide.											
325.0	325.7	WEAKLY CHLORITIC FELSIC TUFF As 318.1 to 321.0 m. Bedding is at 63 degrees to core											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

axis. Nil sulphides. Lower contact is at 64 degrees to core axis.
325.0 325.7 WEAK PERVASIVE CHLORITIZATION.

325.7 327.3 CHLORITIC FELSIC QUARTZ EYE TUFF
Medium grey-green crushed appearance with 2 % 1-3 mm quartz eyes. Interfingers with mafic ash tuff below 326.2 m and its overall composition is probably intermediate. Nil sulphides. Lower contact is sharp at 65 degrees to core axis and a 3 mm band of cherty felsic ash tuff occurs along the contact.

ALTERATION:.
325.7 327.3 MODERATE PERVASIVE CHLORITIZATION and WEAK PERVASIVE CARBONATIZATION.

327.3 346.3 MAFIC TUFFS AND ARGILLACEOUS SEDIMENTS
As 272.0 to 318.1 m but contains 1-5 % disseminated magnetite above 335.0 m. .
STRUCTURE:.
329.4-330.5 FAULT ZONE at 30 to 70 degrees to core axis.
334.6-334.9 Bedding is kinked and folded.
338.2-338.9 Foliation runs nearly parallel to core axis.
339.6 339.9 Folding clearly displayed by thin (<4 mm) cherty felsic ash tuff beds.
At 343.2 foliation is at 55 degrees to core axis.

ALTERATION:.
327.3 346.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION and MODERATE PERVASIVE CHLORITIZATION.
329.4 330.5 FELSIC ASH TUFF in a fault zone, rock is crushed over most of the interval. Lower contact is sharp at 35 degrees to core axis.

330.6 330.7 Finely bedded FELSIC ASH TUFF. Bedding is at 50-70 degrees to core axis.

342.7 344.0 Up to 10 % black lapilli-sized clasts flattened along foliation planes. This could be the BLACK LAPILLI TUFF (BLT).

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02271	11.00	11.40	49.00	13.70	11.20	5.59	1.47	0.45	14.30	1.91	0.16	0.22	2.16	100.16	130.	32.	13.
VA02272	56.80	57.00	75.60	14.60	0.78	0.61	<0.01	4.66	1.34	0.26	0.06	0.02	2.39	100.32	2200.	87.	1.
VA02273	66.50	66.70	70.30	15.60	2.10	0.92	4.80	1.93	1.83	0.30	0.07	0.03	1.85	99.73	1310.	29.	7.
VA02274	73.60	73.80	73.40	14.50	2.10	0.95	1.96	2.99	1.56	0.25	0.06	0.02	2.08	99.87	2010.	49.	4.
VA02275	92.60	93.00	70.50	14.00	3.12	1.11	2.09	2.73	2.41	0.24	0.06	0.08	3.54	99.88	927.	42.	5.
VA02277	99.20	99.40	46.50	15.70	8.26	6.10	2.61	0.04	11.80	1.55	0.14	0.21	6.62	99.53	139.	36.	11.
VA02276	106.20	106.40	67.00	12.60	4.98	1.70	0.11	2.91	3.40	0.31	0.07	0.14	5.70	98.92	1290.	48.	5.
VA02278	126.40	126.70	65.90	12.50	6.47	1.22	0.59	2.50	2.60	0.29	0.07	0.09	7.47	99.70	1070.	35.	7.
VA02279	144.50	144.90	66.80	13.00	4.08	2.06	0.52	2.94	3.08	0.33	0.08	0.13	6.31	99.33	1020.	52.	5.
VA02280	171.30	171.60	67.40	13.00	4.11	1.26	1.93	2.66	2.90	0.33	0.08	0.11	5.08	98.86	887.	39.	6.
VA02281	184.20	184.60	65.00	13.10	4.80	2.53	0.20	3.32	3.63	0.35	0.08	0.14	6.54	99.69	1150.	54.	5.
VA02282	192.60	192.80	67.20	13.70	4.01	1.39	2.01	2.48	2.85	0.32	0.08	0.10	5.31	99.45	987.	39.	6.
VA02283	202.00	202.30	66.20	13.40	3.92	1.48	0.43	3.40	2.14	0.23	0.07	0.11	7.39	98.77	1290.	53.	4.
VA02284	219.40	219.70	67.50	13.40	3.68	1.63	0.64	2.95	2.74	0.27	0.07	0.07	6.08	99.03	1040.	51.	4.
VA02285	231.80	232.00	64.00	12.50	5.86	2.81	0.72	2.37	2.79	0.22	0.06	0.16	8.39	99.88	829.	44.	7.
VA02286	255.00	255.20	71.10	14.30	2.52	1.21	0.60	3.23	1.61	0.21	0.06	0.06	4.85	99.75	1130.	59.	3.
VA02287	260.00	260.30	70.60	12.90	3.35	0.91	3.15	2.01	2.59	0.25	0.06	0.10	4.23	100.15	917.	31.	7.
VA02288	274.60	274.80	52.50	16.70	7.84	1.92	2.97	1.06	7.82	0.67	0.18	0.14	8.54	100.34	280.	22.	11.
VA02289	295.60	295.80	45.90	15.70	8.88	4.19	3.37	0.96	8.22	0.75	0.16	0.16	12.10	100.39	279.	30.	12.
VA02290	310.80	311.00	59.30	15.10	5.85	2.04	4.49	0.98	5.43	0.47	0.17	0.12	6.08	100.03	371.	23.	10.
VA02291	323.00	323.20	53.30	18.70	4.65	2.32	2.72	0.76	9.98	1.11	0.43	0.13	5.54	99.64	718.	29.	7.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02768	55.60	75.00	69.40	14.10	3.62	1.37	1.52	2.56	4.20	0.33			2.70	99.80	1700.	43.	5.
VA02769	75.00	98.90	72.10	14.00	2.62	1.04	2.07	2.65	2.42	0.28			2.70	99.88	1190.	44.	5.
VA02770	101.80	131.00	65.70	13.30	5.08	1.23	0.33	3.12	3.59	0.32			5.39	98.06	1460.	45.	5.
VA02771	131.00	163.90	66.20	13.10	4.95	1.74	0.56	2.96	3.04	0.29			6.23	99.07	1180.	46.	6.
VA02772	165.00	188.00	69.00	13.60	3.77	1.49	0.81	3.14	2.61	0.29			5.31	100.02	1200.	50.	5.
VA02773	188.00	210.50	68.40	13.40	3.56	1.58	0.81	2.97	2.99	0.25			5.31	99.27	1310.	51.	4.
VA02774	210.50	226.20	69.10	12.90	3.83	1.48	0.61	2.83	2.71	0.28			5.62	99.36	1190.	49.	4.
VA02775	226.20	257.80	67.70	13.80	3.89	1.83	0.61	2.86	2.62	0.21			6.47	99.99	1020.	51.	5.
VA02776	257.80	272.00	70.60	13.40	2.70	0.69	1.96	2.56	2.78	0.25			3.39	98.33	1340.	41.	5.
VA02777	272.00	295.00	46.70	14.80	11.90	2.62	1.79	1.07	7.88	0.68			12.10	99.54	245.	21.	14.
VA02778	295.00	320.00	43.30	14.40	12.60	3.48	1.72	1.08	8.99	0.76			12.90	99.23	307.	24.	14.
VA02779	320.00	346.30	43.80	14.90	12.50	3.37	1.63	1.46	8.42	0.80			11.80	98.68	754.	25.	14.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA03324	61.90	62.90	2040.0	21.0	25.0	<0.5	5.0	7.0	7.0	10.0	<5.0	<1.0	<1.0	239.0	46.	0.	2.
VA03325	62.90	63.30	1730.0	109.0	14.0	<0.5	5.0	17.0	10.0	6.0	<5.0	<1.0	<1.0	164.0	89.	2.	2.
VA03326	63.30	64.50	1010.0	33.0	97.0	<0.5	<5.0	6.0	5.0	<5.0	<5.0	<1.0	5.0	399.0	25.	0.	2.
VA03327	64.50	65.50	750.0	337.0	98.0	0.5	<5.0	22.0	29.0	7.0	29.0	2.0	2.0	682.0	77.	1.	4.
VA03328	65.50	66.00	1440.0	112.0	19.0	<0.5	<5.0	7.0	9.0	14.0	20.0	<1.0	<1.0	204.0	86.	4.	2.
VA03329	66.00	67.00	1310.0	14.0	14.0	<0.5	<5.0	4.0	4.0	6.0	9.0	<1.0	<1.0	128.0	50.	1.	1.
VA03330	78.70	79.50	1510.0	150.0	61.0	<0.5	25.0	4.0	5.0	33.0	7.0	<1.0	3.0	88.0	71.	3.	1.
VA03331	79.50	80.20	1080.0	37.0	12.0	<0.5	5.0	2.0	4.0	9.0	<5.0	<1.0	1.0	91.0	76.	2.	1.
VA03332	80.20	81.20	1040.0	24.0	27.0	<0.5	10.0	8.0	10.0	5.0	14.0	<1.0	<1.0	319.0	47.	1.	2.
VA03333	84.00	85.00	1270.0	38.0	21.0	<0.5	<5.0	5.0	8.0	<5.0	7.0	<1.0	<1.0	274.0	64.	2.	1.
VA03334	85.00	86.00	1090.0	16.0	16.0	<0.5	5.0	4.0	3.0	5.0	<5.0	<1.0	<1.0	228.0	50.	1.	1.
VA03335	86.00	87.00	810.0	13.0	18.0	<0.5	<5.0	3.0	3.0	<5.0	<5.0	<1.0	<1.0	257.0	42.	1.	1.
VA03336	87.00	88.40	690.0	11.0	17.0	<0.5	<5.0	3.0	5.0	6.0	<5.0	<1.0	<1.0	295.0	39.	1.	1.
VA03337	88.40	88.60	660.0	71.0	31.0	<0.5	15.0	7.0	5.0	8.0	13.0	<1.0	1.0	506.0	70.	4.	3.
VA03338	88.60	89.50	600.0	61.0	60.0	<0.5	10.0	10.0	7.0	<5.0	13.0	<1.0	2.0	646.0	50.	2.	3.
VA03339	89.50	90.20	520.0	25.0	37.0	<0.5	5.0	5.0	7.0	5.0	6.0	1.0	<1.0	55.0	40.	1.	0.23
VA03340	94.50	95.00	940.0	341.0	493.0	<0.5	35.0	10.0	9.0	27.0	<5.0	3.0	4.0	493.0	41.	2.	2.
VA03341	95.30	95.50	760.0	0.5	569.0	<0.5	10.0	3.0	26.0	104.0	<5.0	4.0	<1.0	25.0	0.1	3.	0.23
VA03342	95.90	96.90	1200.0	233.0	431.0	<0.5	20.0	2.0	3.0	10.0	15.0	4.0	2.0	171.0	35.	3.	1.
VA03343	96.90	97.50	1230.0	382.0	1464.0	<0.5	15.0	7.0	9.0	11.0	12.0	8.0	<1.0	173.0	21.	2.	1.
VA03344	97.50	98.50	1630.0	40.0	47.0	<0.5	<5.0	10.0	13.0	<5.0	8.0	<1.0	1.0	478.0	46.	1.	2.
VA03345	100.80	101.30	1580.0	48.0	199.0	<0.5	25.0	4.0	2.0	<5.0	<5.0	2.0	1.0	263.0	19.	4.	1.
VA03346	101.80	102.80	1230.0	568.0	945.0	9.1	220.0	10.0	18.0	123.0	47.0	7.0	27.0	226.0	38.	4.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03347	102.80	103.80	1450.0	157.0	686.0	0.6	16.0	5.0	3.0	45.0	9.0	6.0	6.0	312.0	19.	3.	1.
VA03348	103.80	104.60	1280.0	34.0	198.0	<0.5	22.0	5.0	4.0	27.0	<5.0	1.0	<1.0	343.0	15.	2.	2.
VA03349	107.00	108.00	2070.0	41.0	138.0	<0.5	71.0	5.0	1.0	7.0	<5.0	1.0	2.0	504.0	23.	1.	1.
VA03350	108.00	108.70	5340.0	633.0	507.0	3.1	104.0	6.0	7.0	118.0	7.0	3.0	17.0	212.0	56.	4.	1.
VA03351	108.70	109.70	930.0	23.0	285.0	0.7	12.0	6.0	6.0	6.0	<5.0	2.0	2.0	433.0	7.	1.	1.
VA03352	110.80	111.80	1320.0	33.0	401.0	0.6	31.0	4.0	4.0	17.0	41.0	2.0	<1.0	353.0	8.	1.	1.
VA03353	111.80	112.80	1260.0	27.0	604.0	0.5	13.0	5.0	<1.0	13.0	20.0	3.0	2.0	378.0	4.	2.	1.
VA03354	112.80	113.30	1250.0	25.0	1335.0	0.8	24.0	4.0	4.0	6.0	15.0	6.0	2.0	569.0	2.	4.	1.
VA03355	113.30	114.30	1290.0	28.0	64.0	<0.5	9.0	5.0	10.0	12.0	14.0	<1.0	4.0	243.0	30.	1.	1.
VA03356	128.00	128.50	950.0	17.0	290.0	0.6	37.0	4.0	4.0	10.0	<5.0	1.0	3.0	1443.0	6.	3.	2.
VA03357	129.80	130.80	1070.0	19.0	58.0	<0.5	15.0	4.0	<1.0	10.0	<5.0	<1.0	2.0	441.0	25.	3.	1.
VA03358	130.80	132.00	960.0	28.0	79.0	<0.5	23.0	5.0	5.0	10.0	<5.0	<1.0	3.0	362.0	26.	5.	1.
VA03359	132.00	133.00	1140.0	88.0	67.0	0.6	24.0	4.0	3.0	7.0	<5.0	<1.0	2.0	459.0	57.	3.	1.
VA03360	133.00	134.00	1150.0	16.0	37.0	<0.5	5.0	4.0	2.0	8.0	<5.0	<1.0	<1.0	272.0	30.	2.	1.
VA03361	134.00	135.00	1050.0	14.0	47.0	<0.5	<5.0	4.0	3.0	9.0	6.0	<1.0	2.0	451.0	23.	2.	1.
VA03362	135.00	136.00	1070.0	14.0	80.0	1.0	7.0	4.0	3.0	9.0	<5.0	<1.0	<1.0	994.0	15.	2.	2.
VA03363	136.00	136.00	1220.0	14.0	51.0	<0.5	29.0	3.0	3.0	6.0	<5.0	<1.0	<1.0	575.0	22.	2.	1.
VA03364	137.00	138.00	1090.0	19.0	56.0	0.8	25.0	3.0	4.0	9.0	<5.0	<1.0	<1.0	569.0	25.	1.	1.
VA03365	140.00	141.00	1090.0	17.0	88.0	0.6	26.0	5.0	3.0	<5.0	10.0	<1.0	2.0	615.0	16.	2.	1.
VA03366	141.00	142.00	1210.0	18.0	130.0	<0.5	26.0	3.0	5.0	6.0	16.0	<1.0	<1.0	638.0	12.	2.	1.
VA03367	142.00	143.00	1150.0	18.0	71.0	<0.5	7.0	4.0	4.0	9.0	7.0	<1.0	1.0	734.0	20.	2.	2.
VA03368	143.00	144.00	1020.0	17.0	39.0	<0.5	24.0	7.0	4.0	6.0	8.0	<1.0	<1.0	551.0	30.	2.	1.
VA03369	144.00	145.00	1010.0	21.0	58.0	0.5	40.0	3.0	5.0	9.0	8.0	<1.0	<1.0	701.0	27.	2.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03370	145.00	146.30	870.0	30.0	88.0	<0.5	30.0	10.0	49.0	9.0	11.0	<1.0	<1.0	837.0	25.	2.	2.
VA03371	146.80	147.50	1000.0	45.0	42.0	<0.5	25.0	14.0	19.0	8.0	10.0	<1.0	2.0	1041.0	52.	2.	2.
VA03372	147.70	148.70	960.0	50.0	59.0	0.6	40.0	18.0	24.0	8.0	21.0	<1.0	<1.0	1335.0	46.	3.	3.
VA03373	148.70	149.70	1070.0	17.0	32.0	<0.5	20.0	4.0	4.0	11.0	5.0	<1.0	<1.0	639.0	35.	2.	1.
VA03374	149.70	150.70	1020.0	21.0	60.0	<0.5	25.0	6.0	7.0	9.0	6.0	<1.0	4.0	534.0	26.	2.	2.
VA03375	150.70	151.70	1040.0	16.0	28.0	<0.5	30.0	4.0	5.0	<5.0	<5.0	<1.0	<1.0	539.0	36.	3.	1.
VA03376	151.70	152.70	1040.0	18.0	32.0	<0.5	35.0	4.0	5.0	9.0	<5.0	<1.0	<1.0	602.0	36.	3.	1.
VA03377	152.70	153.50	920.0	24.0	32.0	<0.5	20.0	6.0	7.0	8.0	7.0	<1.0	2.0	606.0	43.	1.	1.
VA03378	153.80	154.80	1100.0	17.0	40.0	<0.5	20.0	5.0	7.0	7.0	6.0	<1.0	<1.0	512.0	30.	3.	1.
VA03379	154.80	155.80	1250.0	15.0	219.0	<0.5	25.0	2.0	4.0	6.0	<5.0	2.0	<1.0	468.0	6.	3.	1.
VA03380	155.80	156.80	1310.0	16.0	78.0	<0.5	30.0	4.0	5.0	8.0	<5.0	<1.0	<1.0	639.0	17.	3.	1.
VA03381	156.80	157.80	990.0	6.0	30.0	<0.5	15.0	3.0	5.0	<5.0	<5.0	<1.0	<1.0	523.0	17.	2.	1.
VA03382	157.80	159.00	1020.0	4.0	31.0	<0.5	35.0	2.0	4.0	9.0	<5.0	<1.0	<1.0	404.0	11.	2.	1.
VA03384	179.00	179.50	1200.0	19.0	87.0	<0.5	15.0	4.0	7.0	14.0	7.0	<1.0	<1.0	412.0	18.	3.	1.
VA03385	181.60	182.10	1040.0	879.0	2213.0	2.8	140.0	8.0	8.0	20.0	7.0	21.0	2.0	839.0	28.	2.	2.
VA03383	189.40	190.10	1590.0	20.0	108.0	<0.5	20.0	4.0	6.0	12.0	<5.0	1.0	<1.0	500.0	16.	3.	1.
VA03386	198.40	199.40	1320.0	665.0	2902.0	1.5	55.0	4.0	6.0	142.0	14.0	18.0	<1.0	669.0	19.	0.	1.
VA03387	199.40	200.40	1520.0	110.0	253.0	<0.5	45.0	34.0	22.0	21.0	18.0	1.0	<1.0	1398.0	30.	0.	4.
VA03388	200.40	201.40	1200.0	271.0	490.0	0.8	24.0	5.0	2.0	480.0	19.0	3.0	3.0	861.0	36.	0.	1.
VA03389	268.00	269.00	1000.0	13.0	30.0	<0.5	14.0	6.0	2.0	<5.0	<5.0	<1.0	<1.0	413.0	30.	2.	2.
VA03390	269.00	270.30	960.0	19.0	36.0	<0.5	10.0	4.0	<1.0	6.0	<5.0	<1.0	<1.0	496.0	35.	2.	2.
VA03391	270.30	271.40	1000.0	10.0	20.0	<0.5	25.0	5.0	<1.0	<5.0	6.0	<1.0	<1.0	319.0	33.	2.	1.
VA03392	278.00	279.00	190.0	15.0	109.0	<0.5	20.0	29.0	26.0	<5.0	14.0	2.0	<1.0	1076.0	12.	1.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03393	317.70	318.00	690.0	30.0	117.0	<0.5	28.0	14.0	8.0	<5.0	<5.0	1.0	1.0	1268.0	20.	1.	4.

Summary Log: DDH CH88-42
Location: 30+00 E, 4+80 N; Chip 1 Claim
Azimuth: 030, Dip: -50
Hole Completed: April 18, 1988
Core Logged By: D.P. Money

0.0 -	4.8	Casing.
4.8 -	29.0	Intercalated felsic and mafic tuffs.
29.0 -	40.9	Felsic quartz eye tuff.
40.9 -	196.9	Gabbro, fine grained plagiophyric to coarse grained, with local occurences of 1 to 2 % chalcopyrite over intervals up to 0.7 m. There are two small, up to 1.8 m, inclusions: one of argillite and one felsic tuff.
196.9		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-42 | Page Number 1

Hole Location: 30+00 E 4+80 N

NTS: 092B/13 UTM: 5417347.1 N 430548.8 E
Azimuth: 30 Elevation: 600 m
Dip: -50 Length: 196.9 m

Started: April 15, 1988
Completed: April 18, 1988

Claim No. Chip 1
Section No.: Section 30+00 East, Chip Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: Test Powerline Anomaly, combined soil geochem and I.P. anomaly

Length	Azimuth	Dip	Length	Azimuth	Dip
11.30	29.0	-46.5	191.10	27.0	-46.0
105.80	29.0	-46.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

.0 4.8 OVERBURDEN
No chit marked start of coring. Coarse grained gabbro pebbles.

4.8 8.3 FELSIC QUARTZ EYE TUFF
Quartz - sericite schist with 5 %, 2 mm, quartz eyes. Is locally chloritic, up to 5 % chlorite. At end of unit is minor pyrite blebs and mariposite. There is 0.3 m of lost core from 5.0 to 6.1 and 1.1 m from 6.1 to 8.2. Foliation is strongly contorted.

8.3 10.4 MAFIC TUFF
Mafic ash tuff with minor felsic tuff. Sheared at 55 degrees to core axis. There is 0.9 m of lost core from 8.2 to 10.0.

10.4 10.6 WEAKLY CHLORITIC FELSIC TUFF
Weakly chloritic felsic tuff with approximately 7 %, 2 mm, quartz eyes.

10.6 12.7 FELDSPAR PORPHYRITIC MAFIC ASH TUFF
Massive dark green felsic tuff with approximately 10 to 12 %, 1 to 2 mm, epidotized feldspars. There are local ash tuffs at 62 degrees to core axis.

12.7 16.4 WEAKLY CHLORITIC FELSIC TUFF
Weakly chloritic quartz - sericite - chlorite schist with

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		10 to 15 %, 1 to 3 mm, quartz eyes and local chlorite rich bands with 10 %, 1 mm, epidote grains at 57 degrees to core axis, probably are beds. There is local strong sericitization. Foliation is at 50 to 52 degrees to core axis.											
16.4	29.0	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF Chloritic felsic tuff, weakly to strongly chloritized with 3 to 20 % chlorite. There are locally 3 to 7 % 1 to 3 mm quartz eyes and 10 to 20 %, 1 to 3 mm, epidote and feldspar grains. There are local fracture controlled quartz veinlets. There are minor mafic ash tuff beds and is very locally sericitic for 5 cm, lapilli (?). There is trace local disseminated pyrite from 26.7 to 27.1. There is 0.7 m of lost core from 27 to 28.7. Oxidized to 24.3. The lapilli are mainly epidotized.											
29.0	40.9	FELSIC QUARTZ EYE TUFF Variably altered felsic tuff with 5 %, 3 to 6 mm, quartz eyes and numerous, 5 to 20 %, << 1 mm, quartz eyes. Alteration :. 29.0 31.3 WEAK PERVASIVE CHLORITIZATION. 31.3 35.0 MODERATE PERVASIVE SERICITIZATION. 35.0 40.9 MODERATE PERVASIVE CHLORITIZATION. 35.0 40.9 MODERATE PERVASIVE SERICITIZATION. Chloritization occurs as 10 to 15 % chlorite with sericite. Silicification is characterised by glassy appearance and very siliceous tuff. Sericitic tuff is white and 'flaky'. Tuff is locally contorted with trace fracture controlled sericite veinlets. No sulphides occur. Foliations :. 30.4 : 50 degrees to core axis. 32.4 : 46 degrees to core axis. 36.9 : 51 degrees to core axis. 38.1 : 64 degrees to core axis. Lower contact : 41 degrees to core axis with strongly foliated fine-grained gabbro at contact.	VA01032	29.0	40.0	11.0	n/a	49	n/a	24	n/a	n/a	1890
40.9	80.2	MEDIUM TO COARSE-GRAINED GABBRO Dark green medium to fine-grained gabbro with on average 15 to 25 %, 1 to 4 mm, feldspar grains, 3 to 7 % fine-grained, up to 1.5 mm, ilmenite with purple.5 mm rims of sphene (?). Matrix is chlorite, probably after hornblende. Is massive with weak local foliations in zones of shearing and at contacts. 40.9 41.0 Fine-grained foliated gabbro at contact, foliation is at 41 degrees to core axis. 41.0 42.8 Strong quartz - chlorite - epidote veining.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-42 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		41.9 42.1 1 to 2 % chalcopyrite in veins. 48.0 49.0 Blocky, highly fractured core. 68.4 80.2 Moderately foliated at 45 degrees to core axis with strong chloritization and approximately 10 % feldspar laths. 71.5 to 72.2 strong fracture controlled quartz veining with 1 % chalcopyrite.											
80.2	82.0	BLACK ARGILLITE Argillite or greywacke, mafic with approximately 10 % fine-grained calcite and 0.5 to 1 % disseminated pyrite. Is black with cherty grey upper contact. Foliation at 23 degrees to core axis parallel to bedding (?).	VA01576	80.2	82.0	1.8	1	44	<5	150	<1	<5	190
82.0	99.5	MEDIUM TO COARSE-GRAINED GABBRO Fine-grained at lower and upper contacts. Hosts epidote, quartz and calcite veins at 0 to 80 degrees to core axis. Grains are 2 to 6 mm in size, 40 % chloritic hornblendes, 10 % feldspars and up to 2 % fine-grained ilmenite. Is fine-grained and sheared chlorite from 90.9 to 91.3 and 92.2 to 93.0 at 47 degrees to core axis. There is trace chalcopyrite at 87.7.											
99.5	100.1	FELSIC TUFF Dark grey contorted siliceous felsic ash tuff with minor chloritic mafic ash tuff layers. Is locally contorted. Bedding and foliation are at 32 degrees to core axis.											
100.1	127.8	MEDIUM TO COARSE-GRAINED GABBRO Multi-phased gabbro with large porphyritic feldspar crystals. 100.1 100.4 Fine-grained weakly carbonatized with strong foliation at 43 degrees to core axis. 100.4 101.0 Strongly magnetic gabbro with 15 to 20 %, 2 to 4 mm, ilmenite crystals in dark matrix with up to 3 % feldspars. 101.0 101.1 Quartz - chlorite vein with trace chalcopyrite. 101.1 102.1 Coarse grained gabbro with 30 % of both 3 to 4 mm feldspars and altered hornblendes with trace ilmenite. 102.1 112.2 10 to 15 %, 1 to 5 mm, feldspar laths and approximately 2 % fine-grained ilmenite, is not magnetic. 112.2 115.6 Fine-grained dark green non-magnetic gabbro with hornblendes and trace ilmenite and purple sphene. 115.6 118.3 Feldspar phyric with 10 to 15 %, 1 to 4 mm, in											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-42 Page Number 4

From (m)	To (m)	DESCRIPTION
		fine-grained medium to light green matrix with trace fine-grained ilmenite.
118.3	118.9	White bull quartz - chlorite vein.
118.9	127.8	As from 115.6 to 118.9 with minor local epidotization.
127.8	133.0	MAFIC INTRUSIVE Strongly sheared gabbro with strong pervasive carbonatization, white calcite streaks with local brown carbonate specks. A piece of faulted felsic ash tuff occurs at 130.5. Is sheared at 45 degrees to core axis. There is 1 to 2 %, < 1 mm, fine-grained ilmenite with purple rims.
133.0	137.4	MEDIUM TO COARSE-GRAINED GABBRO Fine-grained gabbro with local epidote veins, at 60 to 90 degrees to core axis, 0.5 to 4 cm.
137.4	142.3	MEDIUM TO COARSE-GRAINED GABBRO Coarse grained gabbro with up to 1 cm chloritized hornblendes, 40 %, 5 to 10 % purple sphene rimmed ilmenite (?). Epidote is in matrix with local feldspar clots. There is trace chalcopyrite with clots at 140.0 and 141.4. There is 0.2 m lost core from 142.0 to 142.6.
142.3	196.9	FELDSPAR PORPHYRITIC GABBRO Medium green gabbro with 5 to 20 %, averages 12 to 15 %, 1 to 4 mm, feldspar grains. Has trace to 2 % ilmenite and minor local fine-grained leucoxene. There are numerous local 0.5 to 2 cm fracture controlled quartz - calcite veinlets. Strongly sheared from 169.6 to 170.6 at 31 degrees to core axis. Is massive with trace blocky, highly fractured core. Minor chloritic clay fault gouge at 192.3 and 193.5. At 193.5 is at 24 degrees to core axis for the 2 cm of fault gouge. From 167 to 168 there are minor fault slips at angles near to the core axis.
		End of Hole : 646 feet, 9:00 a.m. On Monday April 18, 1988.
		Total Lost Core: 3.2 m % Recovery = 98.4%.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00562	14.10	14.20	73.70	13.90	1.85	1.02	2.17	2.65	2.36	0.27	0.07	0.04	2.00	100.03	1380.	48.	4.
VA00563	32.40	32.50	71.60	14.80	2.88	0.40	5.00	1.89	0.49	0.24	0.05	0.02	2.93	100.30	2880.	23.	8.
VA00564	38.00	38.10	73.10	12.60	2.68	0.79	3.70	1.43	2.27	0.23	0.06	0.03	3.00	99.89	598.	26.	6.
VA00565	81.00	81.10	53.20	13.40	6.35	2.41	4.00	1.71	11.30	1.51	0.55	0.20	5.54	100.17	218.	28.	10.
VA00566	99.50	99.60	66.80	14.60	4.03	0.74	6.24	0.78	3.76	0.22	0.03	0.07	3.08	100.35	493.	13.	10.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA01032	29.00	40.00	71.70	13.60	3.28	0.79	3.45	2.05	1.73	0.24			3.23	100.07	1890.	30.	7.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01576	80.20	82.00	190.0	44.0	150.0	<0.5	<5.0	17.0	6.0	<5.0	17.0	1.0	3.0	807.0	23.	1.	5.

Summary Log: DDH CH88-43
Location: 28+00 E, 3+30 N; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: April 21, 1988
Core logged by: J. Pattison

0.0	15.7	Casing.
15.7	45.3	Weakly chloritic felsic tuffs
45.3	85.5	Quartz-carbonate altered mafic tuffs and argillaceous sediments
85.5	134.2	Weakly chloritic felsic quartz eye tuffs
134.2	146.6	Argillaceous volcanic wacke
146.6	162.9	Quartz-carbonate altered mafic tuffs and argillaceous sediments
162.9	173.5	Volcanic wacke
173.5	196.0	Weakly chloritic felsic quartz eye tuff
196.0	198.1	Mafic tuffaceous sediments
198.1	207.0	Tuffaceous conglomerate Up to 20 % pebble-sized, fine-grained magnetite-rich clasts one of which contains jasper and several boulders. or beds of massive feldspar +/- quartz porphyritic felsic flow or tuff.
207.0	220.8	Mafic tuffaceous sediments
220.8	222.5	Epidote-carbonate altered intermediate (?) ash tuff 5 % finely disseminated pyrite
222.5	232.1	Mafic tuffaceous sediments
232.1	269.8	Weakly chloritic felsic quartz eye tuff
269.8	291.8	Feldspar porphyritic gabbro
291.8	298.2	Weakly chloritic felsic quartz eye tuff
298.2	358.0	Chloritic felsic quartz-feldspar crystal tuff
358.0	368.3	CHLORITIC FELSIC QUARTZ EYE TUFF
368.3	385.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF
385.2	386.2	MAFIC TUFF
386.2	391.0	WEAKLY CHLORITIZED FELSIC TUFF
391.0	391.4	CHLORITIC FELSIC QUARTZ EYE TUFF
391.4		End of Hole

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43 | Page Number 1

Hole Location: 28+00 E 3+30 N

NTS: 92B13 UTM: 5417328.7 N 430301.5 E
Azimuth: 210 Elevation: 568 m
Dip: -50 Length: 391.4 m

Started: 16-April-88
Completed: 22-April-88

Claim No. Chip 1
Section No.: 28+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ

Purpose: To outline geology north of the Fulford Fault splay.P TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
23.20	212.0	-51.0	215.20	211.0	-43.0
123.70	211.0	-47.0	337.10	207.0	-36.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	15.7	OVERBURDEN											
15.7	23.0	CHLORITIC FELSIC QUARTZ EYE TUFF Light green moderately sericitic and weakly chloritic with 2-3 % 1-4 mm quartz eyes. Chlorite occurs in spots and patches. Nil to trace pyrite in bands < 2 mm wide parallel to foliation. Lower contact is arbitrarily placed where quartz eyes dissappear. STRUCTURE:. 17.2-17.6 M FAULT ZONE at 60 degrees to core axis. 0.1 m of lost core. At 18.1 foliation is at 68 degrees to core axis. 19.0-20.0 M foliation is contorted. At 21.1 m foliation is tightly folded. Fold axis is at 60 degrees to core axis. ALTERATION:. 15.7 23.0 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.	VA02780	15.7	45.3	29.6	n/a	48	n/a	<10	n/a	n/a	1040
23.0	27.6	CHLORITIC FELSIC LAPILLI TUFF Similiar to 15.7 to 23.0 m but only trace ash-sized quartz eyes. Light grey lapilli-sized felsic fragments are common. Foliation is contorted over most of the interval. 3.0 Cm quartz vein at 70 degrees to core axis. STRUCTURE:. At 25.0 foliation is at 60 degrees to core axis. 23.0 27.6 WEAK PERVASIVE CHLORITIZATION and MODERATE											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43 Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		PERVASIVE SERICITIZATION.											
27.6	28.6	CHLORITE SCHIST Dark green, strongly chloritic with many carbonate +/- quartz filled gashes and fractures. Occasional quartz eye < 4 mm in diameter. Nil sulphides. Broken core at lower contact. 27.6 28.6 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
28.6	30.5	WEAKLY CHLORITIC FELSIC TUFF Light green, fine-grained well foliated with <1 % 1-3 mm quartz eyes. Minor fault gouge at 70 degrees to core axis at the lower contact. STRUCTURE:. At 29.7 bedding is at 60 degrees to core axis. ALTERATION:. 28.6 30.5 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. 29.7 30.5 Finely bedded cherty fine ash tuffs with 2 % pyrite in bands up to 4 mm thick. 30.5 888.8 5.0 cm band of chlorite schist at 76 degrees to core axis.	VA03395	29.7	30.5	.8	2	85	<5	63	<1	17	980
30.5	45.3	CHLORITIC FELSIC QUARTZ EYE TUFF As 15.7 to 23.0 m. Dark green, chloritic mafic tuff occurs from 31.9 to 32.0 m and from 32.3 to 33.1 m. 4.0 cm quartz-carbonate vein at 30 degrees to core axis at the lower contact. STRUCTURE:. 33.1-36.7 FAULT ZONE. Difficult to measure orientation but it appears to be at 40-50 degrees to core axis. Foliation runs parallel to core axis for much of the interval. 1.8 M of lost core. 37.5-38.5 Blocky, highly fractured core. 0.2 m of lost core 38.5-42.4 FAULT ZONE at 20 degrees to core axis. 1.3 m of lost core. At 45.1 2.0 cm fault gouge at 45 degrees to core axis. ALTERATION:. 30.5 42.5 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. 42.5 45.3 MODERATE PERVASIVE CHLORITIZATION.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
45.3	85.5	MAFIC TUFFS AND ARGILLACEOUS SEDIMENTS Streaky, dark green to black, strongly chloritic moderate fracture controlled carbonate +/- quartz alteration. Thin (< 4 mm) bands of black argillaceous material are intercalated with dark green chloritic mafic ash tuff and finely bedded light brown cherty sediment. Thin (<2 mm) black mud clasts are common. Very similiar to the MAFIC TUFFACEOUS SEDIMENTS at the bottom of hole CHEM88-41. Bedding is wavy, contorted and broken up throughout unit. Probably a slump deposit of some sort. A pale brown mineral (biotite ?) occurs throughout the unit. Trace disseminated pyrite. Major fault zone at 30 degrees to core axis at lower contact.	VA02781	45.3	65.0	19.7	n/a	159	n/a	63	n/a	n/a	249
			VA02782	65.0	85.5	20.5	n/a	113	n/a	64	n/a	n/a	337
			VA03394	77.2	78.2	1.0	1	133	<5	73	<1	10	190
			VA03396	78.2	78.6	.4	5	156	<5	71	<1	39	220
			VA03397	78.6	81.2	2.6	1	70	<5	146	<1	48	460
		STRUCTURE:. At 46.3 foliation is at 40 degrees to core axis. 59.1-59.6 M FAULT ZONE at 40 degrees to core axis. 0.4 m of lost core. At 62.5 m foliation is at 45 degrees to core axis. 68.5-71.0 M FAULT ZONE at 50 degrees to core axis. 0.5 m of lost core. At 72.6 m bedding is at 49 degrees to core axis. 73.7-74.4 FAULT ZONE at 40 degrees to core axis. 0.1 m of lost core. 74.9-75.9 FAULT ZONE at 45 degrees to core axis. 0.5 m of lost core. 78.7-81.2 FAULT ZONE at 35 degrees to core axis. 1.7 m of lost core. At 82.3 m foliation is at 34 degrees to core axis. 83.0-85.5 M FAULT ZONE at 30 degrees to core axis. 1.5 m of lost core.												
		ALTERATION:. 45.3 85.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
		SULPHIDES:. 78.2 78.6 5 % disseminated pyrite associated with carbonate alteration. 71.0 73.0 Trace to 3 % disseminated magnetite as grains up to 2 mm in diameter. 72.6 72.7 Bed of MAFIC ASH TUFF at 49 degrees to core axis. 73.1 888.8 1.0 cm bed of felsic ash tuff.											
85.5	89.9	CHLORITIC FELSIC QUARTZ EYE TUFF Mottled light green-grey, well foliated, siliceous, fine-grained matrix with 2-5 % 2-5 mm clear quartz eyes and an occasional cherty lapilli-sized clast. Lower	VA02783	85.5	115.0	29.5	n/a	15	<5	70	<1	<5	1000

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		contact is a minor slip at 72 degrees to core axis. STRUCTURE:. At 85.8 m bedding is at 50 degrees to core axis. At 89.6 m 5 cm fault gouge. Not possible to measure orientation. ALTERATION:. 85.5 89.9 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. 85.6 888.8 5.0 cm bed of chloritic mafic ash at 52 degrees to core axis. 87.6 87.9 MAFIC TUFFACEOUS SEDIMENTS at 40 degrees to core axis. As 45.3 to 85.5 m. 89.8 888.8 5.0 cm band of chlorite schist (mafic ash tuff ?) at 60 degrees to core axis.												
89.9	94.4	WEAKLY CHLORITIC FELSIC TUFF Light grey-green, fine-grained well foliated. Quartz eye bearing between 91.6 and 93.0 m. Lower contact is a minor slip at 53 degrees to core axis. STRUCTURE:. At 93.6 m foliation is at 30 degrees to core axis. ALTERATION:. 89.9 94.4 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. SULPHIDES:. 89.9 91.0 2 % pyrite in hairline fractures.	VA03398	89.9	91.0	1.1	1	52	55	84	<1	17	530
94.4	132.8	CHLORITIC FELSIC QUARTZ EYE TUFF Light green-grey, composed of 1-7 % light grey 1-5 mm quartz eyes in a moderately sericitic, weakly chloritic siliceous matrix. Occasional light grey to white felsic fragments up to 1.0 cm wide are recognizable below 100.6 m and two sulphide-rich clasts occur. Quartz eyes have a crushed appearance. Up to 5 % lapilli-sized felsic fragments below 107.5 m. Tuff becomes heterolithic (ie felsic, cherty felsic and chloritic mafic fragments) below 112.5 m. Mafic ash tuff beds up to 1.3 m thick (most <0.2 m) occur below 123.5 m. Lower contact is at 60 degrees to core axis. STRUCTURE:.	VA02784	115.0	135.9	20.9	n/a	51	n/a	34	n/a	n/a	907

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43 Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 96.4 m foliation is at 45 degrees to core axis.											
		At 101.1 bedding is at 50 degrees to core axis.											
		103.5-103.8 0.5 M fault gouge runs parallel to core axis.											
		At 104.0 m foliation is at 30 degrees to core axis.											
		106.3-106.6 Fault gouge runs parallel to core axis.											
		At 107.4 foliation is at 43 degrees to core axis.											
		At 111.3 bedding is at 46 degrees to core axis.											
		At 119.3 foliation is at 50 degrees to core axis.											
		At 122.4 foliation is at 50 degrees to core axis.											
		At 129.7 bedding is at 40 degrees to core axis.											
		ALTERATION:.											
94.4	132.8	WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.											
97.2	98.0	Bands (beds ?) of light brown very fine-grained material up to 5 mm occur.											
101.3	888.8	2.0 cm bed of felsic ash tuff with thin (1 mm) bands of pyrite.											
107.5	112.5	Light grey, fine-grained lapilli-sized felsic fragments are common (but still comprise < 1% of the core).											
107.7	107.9	Moderately carbonatized MAFIC ASH TUFF bed at 48 degrees to core axis.											
108.2	888.8	4 mm thick bed or clast of very fine-grained cherty ash tuff with finely disseminated sulphides at 60 degrees to core axis.											
112.5	119.7	Wispy chloritic patches (mafic fragments ?) and chloritic bands < 1.0 cm in diameter are common and felsic fragments are rare.											
119.7	120.1	Fine-grained green MAFIC DYKE. Upper contact is very sharp at 60 degrees to core axis. 10 cm zone of assimilation at the lower contact.											
123.0	123.6	Lapilli-sized chloritic mafic fragments are common.											
123.6	125.0	MAFIC ASH TUFF. Weakly thermal biotite altered, bedding not recognizable but rock has a banded appearance. Core is broken and blocky. Upper contact is at 50 degrees to core axis. Broken core at lower contact.											
129.7	129.9	MAFIC ASH bed at 40 degrees to core axis.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	130.9	132.2 MAFIC ASH TUFF / WACKE. Medium green, fine-grained bedding not recognizable, up to 5 % disseminated magnetite. Rock is strongly magnetic. Upper and lower contacts are sharp at 40 degrees to core axis.											
132.8	134.2	IMMATURE VOLCANIC WACKE Medium grey with medium green chloritic streaks, finely banded parallel to foliation at 40-50 degrees to core axis. 2-3 % disseminated magnetite, rock is moderately magnetic. Weak hematite alteration along fracture surfaces Lower contact is at 50 degrees to core axis.											
134.2	135.9	CHLORITIC FELSIC QUARTZ EYE TUFF As 94.4 to 132.8 m. Felsic lapilli fragments are common. Nil sulphides. Broken core at lower contact. 132.2 135.9 WEAK PERVASIVE CHLORITIZATION.											
135.9	146.6	ARGILLACEOUS VOLCANIC WACKE Dark grey with a slight green tint due weak chlorite alteration. Finely bedded and locally weakly graphitic. Trace to 3 % finely disseminated magnetite above 141.0 m. Nil sulphides. STRUCTURE:. 138.7-139.4 Major FAULT ZONE at 30 degrees to core axis. 2.4 m of lost core. At 140.0 m 3.0 cm fault gouge at 47 degrees to core axis. At 142.0 m bedding is at 45 degrees to core axis. At 143.7 m 2.0 cm fault gouge at 57 degrees to core axis. At 146.1 minor fault gouge at 56 degrees to core axis. ALTERATION:. 135.9 146.6 WEAK PERVASIVE CARBONATIZATION.	VA02785	135.9	162.9	27.0	n/a	155	n/a	85	n/a	n/a	180
146.6	162.9	MAFIC TUFFS AND ARGILLACEOUS SEDIMENTS Light to dark grey volcanic wacke beds (30-80%) alternate with green mafic tuff beds (20-60%), light green felsic ash tuff (<5%) and black argillaceous beds (<5%). Beds are generally < 4 mm thick and are often offset slightly by microfaults. Up to 20 % lapilli-sized lithic and chloritic mafic clasts. Trace-3% disseminated magnetite between 146.6 and 150.0 m. Overall composition of the rock varies from mafic to intermediate. Below 151.5 m the rock becomes strongly carbonatized, bedding is harder to recognize, argillite beds are rare and rock takes on a fragmental appearance. Nil sulphides.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43 Page Number 7

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		STRUCTURE:. At 149.0 m bedding is at 50 degrees to core axis. At 158.9 m foliation is at 50 degrees to core axis. ALTERATION:. 146.6 151.5 WEAK PERVASIVE CARBONATIZATION. 151.5 162.9 MODERATE FRACTURE CONTROLLED CARBONATIZATION and MODERATE PERVASIVE SERICITIZATION. Very weak spotty epidote alteration below 153.0 m.											
162.9	173.5	IMMATURE VOLCANIC WACKE Medium green, fine-grained relatively massive (bedding is rare). Up to 10 % dark green, thin lapilli-sized wispy chloritic fragments stretched parallel to foliation. Occasional lapilli-sized felsic fragment and rare quartz eye. Trace to 1 % disseminated magnetite. Below 168.1 m rock becomes strongly carbonatized. Carbonate +/- quartz occurs in bands <4 mm wide parallel to foliation giving rock a streaky appearance. Lower contact is gradational. STRUCTURE:. At 167.5 m foliation is at 45 degrees to core axis. ALTERATION:. 162.9 168.1 WEAK PERVASIVE CARBONATIZATION. 168.1 173.5 STRONG FRACTURE CONTROLLED CARBONATIZATION.	VA02786	162.9	173.5	10.6	n/a	116	n/a	93	n/a	n/a	324
173.5	196.0	CHLORITIC FELSIC QUARTZ EYE TUFF Light green, weakly to moderately chloritic, moderately sericitic matrix with up to 5 % 1-3 mm quartz eyes. Dark green chloritic tuff beds up to 10.0 cm thick are common over the first 5.5 m. Occasional fine cherty bed < 2.5 cm thick. Cherty lapilli-sized fragments are common. Trace very finely disseminated pyrite. Lower contact arbitarily placed where rock appears to become intermediate in composition and quartz eyes become much less conspicuous. STRUCTURE:. At 173.8 m 10 cm fault gouge at 60 degrees to core axis. 175.0-176.2 Blocky, highly fractured core. 0.2 m of lost core. Possible fault at 50 degrees to core axis. At 182.1 m bedding is at 46 degrees to core axis. 184.3-185.0 FAULT ZONE. Core is broken, difficult to measure orientation but appears to be at 50 degrees to core axis. 0.3 m of lost core. At 191.0 m 10 cm fault zone at 75 degrees to core axis.	VA02787	173.5	196.0	22.5	n/a	33	n/a	54	n/a	n/a	936

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ALTERATION:. 173.5 196.0 WEAK PERVASIVE CHLORITIZATION. 186.1 186.6 MAFIC TUFF / WACKE with trace disseminated magnetite. Upper contact is gradational. Lower contact is at 55 degrees to core axis. 190.3 190.4 Band of CHLORITE SCHIST is at 50 degrees to core axis. 191.2 191.3 Bed of MAFIC ASH TUFF at 50 degrees to core axis.											
196.0	198.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Composed of <5-10 % lapilli-sized clasts (felsic tuff, quartz eye tuff and cherty tuff) and 1-3% < 2mm quartz eyes in a moderately chloritic, weakly carbonatized fine-grained matrix which appears to be intermediate in composition. Fragments are stretched parallel to foliation. Locally trace disseminated magnetite. Several pyrite clasts up to 1.0 cm long and 2-3 mm wide at 196.3 m. Lower contact is irregular and crosscuts bedding. STRUCTURE:. At 196.7 foliation is at 50 degrees to core axis. At 198.0 3.0 cm fault gouge at 25 degrees to core axis. At 200.0 m foliation is at 30 degrees to core axis. ALTERATION:. 196.0 198.1 WEAK PERVASIVE CARBONATIZATION.	VA02788	196.0	220.8	24.8	n/a	123	n/a	56	n/a	n/a	263
198.1	207.0	TUFFACEOUS CONGLOMERATE Dark grey-green fine-grained with up to 30 % sand to granule-size rounded quartz grains. Up to 20 % medium grey pebble-sized fine-grained magnetite-rich clasts supported by a moderately chloritic and carbonatized matrix. Trace to 5 % finely disseminated magnetite. A pebble-sized clast at 202.3 m contains jasper. Nil to weak hematite alteration along fractures. Several possible cobble-size clasts of massive feldspar +/- quartz porphyritic siliceous flow or tuff. The feldspars are 1-3 mm long and are very pristine. The edges of the clasts (?) are somewhat hazy, and not as sharp as might be expected suggesting they might actually be thin flows or crystal tuffs. Lower contact is a 0.5 cm fault gouge at 80 degrees to core axis. STRUCTURE:. At 206.1 206.6 FAULT ZONE at 70 degrees to core axis.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43 Page Number 9

From (m)	To (m)	----------DESCRIPTION----------
		Blocky, highly fractured core.
207.0	220.8	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Strongly carbonatized over most of the interval. Carbonate +/- quartz has flooded rock along foliation planes forming white bands 2-5 mm wide. These bands alternate with chloritic bands. Very trace amounts of finely disseminated pyrite. Lower contact is gradational.
		200.9 201.0 FELSIC FELDSPAR PORPHYRITIC FELSIC CLAST (?) at 50-60 degrees to core axis. Composed of 15 % 2-3 mm subhedral feldspar crystals in a massive very fine-grained to aphyric siliceous weakly chloritic matrix.
		203.2 203.4 FELSIC FELDSPAR-QUARTZ PORPHYRITIC FELSIC CLAST (?) at 60 degrees to core axis. Similiar to 200.9 to 201.0 m except also contains an occasional quartz eye.
		203.5 888.8 FELSIC FELDSPAR-QUARTZ PORPHYRITIC FELSIC CLAST at 60 degrees to core axis. As 203.2 to 203.4 m.
		STRUCTURE:. At 208.1 minor fold is clearly outlined by foliation. Fold axis is parallel to the core axis. At 208.4 minor fault gouge at 80 degrees to core axis. At 208.9 5.0 cm fault gouge at 80 degrees to core axis. At 209.5 foliation is at 40 degrees to core axis. 210.5-211.6 Foliation is kinked. 211.6-213.9 Foliation is wavey and runs nearly parallel to core axis. Several minor folds. 213.9-215.0 Foliation is very contorted and kinked. At 217.5 foliation is at 30 degrees to core axis.
		ALTERATION:. 207.0 216.2 STRONG PERVASIVE CARBONATIZATION and STRONG FRACTURE CONTROLLED CARBONATIZATION. 216.2 217.6 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 217.6 220.8 STRONG PERVASIVE CARBONATIZATION and STRONG FRACTURE CONTROLLED CARBONATIZATION.
		216.2 217.7 Less carbonatized, 3 % thin black chloritic fragments up to 10 mm long flattened along foliation planes.
		216.8 888.8 3.0 cm bed of cherty felsic ash tuff at 30 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03399	219.8	220.8	1.0	1	121	<5	78	<1	29	60

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		219.0 219.5 CHLORITIC MAGNETITE-BEARING FELSIC TUFF at 50-60 degrees to core axis.											
220.8	222.5	INTERMEDIATE FELDSPAR CRYSTAL LAPILLI TUFF Mottled grey-olive green moderately carbonatized and moderate pervasive epidote alteration. 3 % thin (<1.5 mm) dark green chloritic fragments flattened along foliation planes. Several of these fragments have swallow tails which indicates they may be fiamme. 5% Finely disseminated pyrite. Foliation is at 40 degrees to core axis. Lower contact is gradational. 220.8 222.5 MODERATE PERVASIVE CARBONATIZATION and MODERATE PERVASIVE EPIDOTIZATION.	VA02789	220.8	222.5	1.7	n/a	158	n/a	74	n/a	n/a	337
			VA03400	220.8	221.8	1.0	5	108	<5	59	<1	37	380
			VA03401	221.8	222.5	.7	5	123	<5	57	<1	50	370
222.5	232.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Medium grey-green, moderately to strongly carbonatized. Varies from mafic to intermediate in composition. Nil to 3 % disseminated magnetite. Slip at 62 degrees to core axis at the lower contact.	VA02790	222.5	232.1	9.6	n/a	121	n/a	76	n/a	n/a	196
			VA03402	222.5	223.5	1.0	1	120	<5	116	<1	8	300
			VA03403	225.0	225.9	.9	1	114	<5	77	<1	11	620
			VA03404	225.9	227.0	1.1	1	89	<5	108	<1	10	510
		STRUCTURE:. 225.8-226.3 Foliation is parallel to to degrees to core axis. 227.7-230.4 FAULT ZONE at 65 degrees to core axis. Rock is broken and blocky over the entire interval 0.5 m of lost core. ALTERATION:. 222.5 232.1 MODERATE PERVASIVE CARBONATIZATION , MODERATE FRACTURE CONTROLLED CARBONATIZATION and locally weak hematization along foliation planes. 225.3 225.6 Irregular quartz-carbonate vein with 3 % pyrite runs parallel to core axis. 225.7 888.8 1.0 cm thick ripped up cherty, carbonatized magnetite+jasper bearing sediment. 226.7 227.0 Irregular quartz-carbonate pods or veins. Trace pyrite.											
232.1	251.8	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey-green, fine-grained with < 2% 1-3 mm quartz eyes. Occasional bed of chloritic mafic ash tuff up to 0.5 m thick. Rock is quite massive, only weakly foliated and bedding is rarely observed. Occasional pyrite cube up	VA02791	232.1	269.8	37.7	n/a	30	n/a	27	n/a	n/a	1040
			VA03405	237.0	237.5	.5	1	44	<5	107	<1	13	780

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

to 4 mm in width. Nil to 1 % disseminated magnetite below 238.0 m. Very weak thermal biotite alteration. Lower contact is gradational.

STRUCTURE:.

At 241.7 bedding is at 70 degrees to core axis.
At 258.1 bedding is at 52 degrees to core axis.

ALTERATION:.
232.1 258.1 WEAK PERVASIVE CHLORITIZATION and WEAK PERVASIVE SERICITIZATION.

234.0 234.2 Dark green mafic tuff bed at 60 degrees to core axis.

236.5 237.0 Dark green mafic tuff. Broken core at upper and lower contacts.

237.3 237.4 Quartz-chlorite-carbonate vein at 60 degrees to core axis with trace pyrite and chalcopyrite

237.4 237.6 Chloritic mafic tuff at 65 degrees to core axis

238.2 238.4 Mafic tuff bed at 65-70 degrees to core axis.

240.0 240.4 Chloritic band at 70 degrees to core axis.

246.0 888.8 Light green cherty clast 1.0 cm wide.

246.3 246.7 Several quartz-carbonate veins and pods, no sulphides.

251.8 269.8 WEAKLY CHLORITIC FELSIC TUFF
Similiar to 232.1 to 251.8 m but quartz eyes are rare. More chloritic sections may range into intermediate compostions weak thermal biotite alteration. Trace disseminated pyrite. Lower contact is a 3.0 cm fault gouge at 70 degrees to core axis.

STRUCTURE:.
At 262.0 m bedding is at 45 degrees to core axis.
At 266.2 m foliation is at 40 degrees to core axis.

ALTERATION.

251.8 269.8 WEAK PERVASIVE CHLORITIZATION , MODERATE PERVASIVE SERICITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION.

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	259.5 888.8	5.0 cm banded chlorite-carbonate alteration at 50 degrees to core axis.											
	264.0 264.4	Quartz-carbonate altered MAFIC DYKE at 60 degrees to core axis.											
	261.0 261.3	MAFIC DYKE at 60 degrees to core axis. Fine-grained, intruded by irregular quartz-carbonate veins up to 1.0 cm thick.											
	262.0 888.8	5.0 cm band of magnetite bearing MAFIC TUFF at 45 degrees to core axis. 4 % disseminated magnetite.											
	269.2 269.4	10 % 2-10 mm light grey fine-grained felsic fragments.											
	269.5 269.6	Quartz-carbonate altered chlorite schist at 60 degrees to core axis. Mafic dyke (?).											
269.8	291.8	FELDSPAR PORPHYRITIC GABBRO Medium green, fine to medium-grained and massive with up to 30 % 2-3 mm white feldspar phenocrysts. Quartz-carbonate veins and veinlets are common. Trace to 3 % disseminated ilmenite. Much of the ilmenite has been altered to leucoxene. Nil to trace disseminated chalcopyrite. 3.0 cm zone of assimilation at lower contact. Lower contact is at 40 degrees to core axis.											
291.8	298.2	CHLORITIC FELSIC QUARTZ EYE TUFF Grey, moderately sericitic with 2-5 % 2-5 mm quartz eyes. Quartz eyes have a crushed highly fractured appearance. In situ brecciation over the first 2.2 m. Lower contact is a minor fault gouge at 70 degrees to core axis.	VA03406	297.5	298.0	.5	1	1	<5	24	<1	11	980
		STRUCTURE:. At 295.0 foliation is at 45 degrees to core axis.											
		ALTERATION:. 291.8 298.2 MODERATE PERVASIVE SERICITIZATION.											
	297.5 298.0	Rusty zits < 1 mm in diameter centred on silver coloured metallic specks. They are likely core barrel material.											
	298.0 888.8	7.0 cm dark brown dyke (?) at 70-90 degrees to core axis. Contacts are sharp but irregular and appear to be intrusive.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43 Page Number 13

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
298.2	358.0	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Up to 25 % 1-3 mm (most are ash-sized) subhedral feldspar crystals and 2-5 % 2-5 mm quartz eyes in a grey-green weakly to moderately sericitized weakly chloritized fine-grained (locally aphyric) matrix. Lower contact is a fault at 60 degrees to core axis.	VA03407	338.0	339.0	1.0	1	9	<5	17	<1	5	920
			VA03408	350.2	351.0	.8	1	9	<5	38	<1	29	1200
			VA03409	351.0	352.0	1.0	1	10	27	169	<1	5	1300
			VA03410	352.0	353.0	1.0	2	22	9	153	<1	20	1200
			VA03411	353.0	354.0	1.0	2	65	15	427	1	27	1200

STRUCTURE:.
At 302.1 3.0 cm fault gouge at 60 degrees to core axis.
At 304.7 bedding is at 50 degrees to core axis.
At 316.4 foliation is at 45 degrees to core axis.
At 322.5 bedding is at 40 degrees to core axis. Bed has been offset 2.5 cm by a minor fault at 30 degrees to core axis.
At 336.0 1.0 cm fault gouge at 50 degrees to core axis.
At 340.7 bedding is at 65 degrees to core axis.
At 348.6 m 1.0 cm fault gouge at 60 degrees to core axis.
At 351.0 m bedding is at 50-60 degrees to core axis.
357.5-358.0 M FAULT ZONE at 60 degrees to core axis. 0.2 m of lost core.

ALTERATION:.
298.2 358.0 WEAK PERVASIVE CHLORITIZATION chlorite occurs as discrete spots < 2 mm in diameter between 335.1 and 340.0 m.
312.2 358.0 Weak epidotization centred on feldspar crystals

SULPHIDES:.
Locally trace fracture controlled pyrite.
338.0 339.0 Possibly trace sphalerite or biotite along fractures.
343.5 344.0 1-2% disseminated and fracture controlled pyrite.
350.2 353.0 Trace to 1 % disseminated pyrite.
353.0 354.0 2 % disseminated and banded pyrite. Bands are parallel to foliation and are up to 3 mm thick.
359.0 360.0 2 % fracture controlled pyrite.

298.9 888.8 5 cm fine-grained mafic dyke/tuff at 50 degrees to core axis.

300.3 300.5 Fine-grained MAFIC DYKE at 50 degrees to core axis. Weak spotty epidote alteration. Lower contact is offset 0.5 cm by a microfault at 50 degrees to core axis.

300.5 301.2 5 % light grey felsic lapilli.

301.4 301.8 Fine-grained MAFIC DYKE at 70 degrees to core axis.

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	304.7 888.8	5 cm feldspar crystal rich bed at 50 degrees to core axis.											
	305.4 888.8	5.0 cm chlorite rich band at 60 degrees to core axis with trace pyrite.											
	311.8 312.0	Fine-grained MAFIC DYKE at 50 degrees to core axis with 2 % fracture controlled pyrite.											
	317.0 334.0	Vague, light grey felsic lapilli are common (5 %).											
	319.5 319.9	Fine-grained MAFIC DYKE at 50-60 degrees to core axis.											
	331.2 333.0	MAFIC ASH TUFF / FINE-GRAINED DYKE. Medium green, moderately chloritic and moderately carbonatized with a banded appearance near the top of the unit suggesting it is tuffaceous. 1 % disseminated pyrite. Upper contact is at 40 degrees to core axis and lower contact is at 60 degrees to core axis.											
	334.0 335.1	FINE-GRAINED MAFIC DYKE / ASH TUFF. Similiar to 331.2 to 333.0 m except no banding upper contact is at 70 degrees to core axis and lower contact is at 50 degrees to core axis.											
	340.7 340.9	Several beds of fine felsic ash tuff < 1.0 cm thick. Some have been offset by minor faults.											
	349.9 350.2	FINE-GRAINED MAFIC DYKE. Upper and lower contacts are sharp but irregular.											
358.0	368.3	CHLORITIC FELSIC QUARTZ EYE TUFF Up to 5 % 1-5 mm quartz eyes and 10 % ash-sized feldspar crystals in very fine-grained weakly chloritic siliceous matrix. Nil to trace disseminated pyrite. Irregular quartz-carbonate pod at the lower contact.	VA03412	359.0	360.0	1.0	2	5	<5	43	<1	18	1200
		STRUCTURE:. At 366.2 foliation is at 40 degrees to core axis.											
	366.5 368.0	Hazy, light grey felsic fragments.											
368.3	385.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF As 298.2 to 358.0 m. Lower contact is at 58 degrees to	VA03413	376.5	377.5	1.0	1	6	<5	31	<1	<5	1100

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

From (m)	To (m)	----------DESCRIPTION----------
		core axis.
		STRUCTURE:.
		At 374.7 m bedding is at 60 degrees to core axis.
		At 379.3 m bedding is at 37 degrees to core axis.
		381.5-381.9 FAULT ZONE at 40 degrees to core axis.
		ALTERATION:.
		368.2 385.2 WEAK PERVASIVE CHLORITIZATION and WEAK PERVASIVE SERICITIZATION.
		SULPHIDES:.
		383.1 384.1 1 % pyrite.
		384.1 385.2 2 % disseminated pyrite.
		368.3 369.0 Several dark green to black chlorite+biotite rich bands at 40-50 degrees to core axis.
		374.3 888.8 Chloritic ash tuff or mafic dyke at 42 degrees to core axis.
		375.0 375.5 Up to 5 % lapilli-sized fragments of quartz feldspar porphyritic material.
		377.0 888.8 Two chloritic bands < 3.0 cm wide at 50 degrees to core axis. Also a carbonate-filled fracture with a reddish brown mineral, possibly sphalerite.
		380.9 383.1 Beds and clasts of cherty salmon pink coloured ash tuff < 2.0 cm thick are common.
385.2	386.2	MAFIC TUFF Fine-grained moderately chloritic, bedding not recognized (may be a dyke). 2-3 % disseminated magnetite, nil sulphides. Lower contact is at 58 degrees to core axis. 385.2 386.2 WEAK PERVASIVE CARBONATIZATION.
386.2	391.0	WEAKLY CHLORITIC FELSIC TUFF Fine bedding, quite cherty in places, microfractured. Trace fracture controlled pyrite. Several chlorite rich bands of fine-grained chloritic magnetite-bearing mafic tuff up to 20 cm thick. Bedding is at 68 degrees to core axis at 388.6 m. 386.2 391.0 WEAK PERVASIVE CHLORITIZATION.
391.0	391.4	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey-green with 5 % 2-4 mm quartz eyes and an

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03414	380.8	381.5	.7	1	7	<5	23	<1	5	910
VA03415	383.1	384.1	1.0	2	4	<5	20	<1	10	840
VA03416	384.1	385.2	1.1	2	<1	<5	9	<1	9	750

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		occasional light green cherty fragment up to 1.0 cm long.											
		Trace disseminated pyrite.											
		391.0 391.4 WEAK PERVASIVE CHLORITIZATION.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02292	18.20	18.40	74.10	14.50	1.12	0.99	0.88	2.59	1.83	0.18	0.06	0.06	3.23	99.54	1430.	64.	2.
VA02293	50.70	50.80	47.30	16.30	8.27	3.87	2.52	0.85	8.78	0.80	0.17	0.15	11.10	100.11	230.	30.	11.
VA02294	67.10	67.90	47.30	15.30	11.30	2.41	1.91	0.98	8.05	0.73	0.15	0.16	11.90	100.19	211.	20.	13.
VA02295	88.10	88.40	67.00	14.30	3.43	1.60	0.56	3.11	2.87	0.20	0.05	0.07	4.93	98.12	1210.	54.	4.
VA02296	103.00	103.40	69.80	15.60	2.26	1.14	2.61	2.94	1.87	0.25	0.08	0.05	3.31	99.91	1170.	46.	5.
VA02297	116.30	116.60	69.90	13.30	1.98	1.64	2.23	2.29	3.56	0.18	0.04	0.06	3.39	98.57	1010.	48.	4.
VA02298	142.30	142.60	49.20	19.80	3.39	1.79	5.61	2.86	11.10	0.99	0.56	0.05	3.54	98.89	320.	34.	9.
VA02299	149.00	149.30	46.20	20.00	5.57	2.20	2.40	4.63	9.37	1.46	0.14	0.06	6.47	98.50	663.	46.	8.
VA02300	159.40	159.70	58.80	16.00	5.06	0.90	4.21	3.54	4.99	0.33	0.22	0.11	4.77	98.93	1820.	32.	9.
VA02301	172.40	172.50	39.70	13.30	14.40	4.11	2.25	0.73	10.00	0.71	0.15	0.18	14.00	99.53	159.	23.	17.
VA02302	180.60	180.70	68.20	15.00	2.50	0.96	2.51	3.49	1.97	0.36	0.11	0.05	3.62	98.77	1420.	47.	5.
VA02303	216.40	216.70	41.20	9.84	15.40	7.34	0.89	0.48	7.59	0.54	0.06	0.16	15.30	98.80	92.	32.	16.
VA02304	236.00	236.40	67.50	14.20	3.00	1.11	2.88	3.04	2.79	0.27	0.07	0.08	3.70	98.64	1250.	41.	6.
VA02305	254.00	254.20	69.70	13.90	1.95	0.94	4.09	2.52	2.63	0.27	0.07	0.07	2.70	98.84	796.	36.	6.
VA02306	300.00	300.30	68.10	13.70	3.15	1.24	2.05	3.62	2.40	0.23	0.06	0.06	4.00	98.61	1720.	48.	5.
VA02307	314.00	314.30	71.70	11.90	3.28	0.67	3.23	3.12	1.35	0.12	0.04	0.07	2.77	98.25	863.	37.	7.
VA02308	322.20	322.70	69.60	14.40	2.65	0.77	3.47	3.01	1.84	0.24	0.06	0.06	2.54	98.64	1210.	38.	6.
VA02309	337.00	337.40	69.60	14.10	2.18	0.84	2.86	3.21	2.52	0.25	0.06	0.05	2.77	98.44	1130.	45.	5.
VA02310	347.60	347.90	69.10	14.10	2.67	0.67	3.44	3.31	2.26	0.25	0.07	0.07	2.54	98.48	1190.	39.	6.
VA02311	361.50	361.90	72.10	13.10	1.09	0.83	3.30	3.93	1.61	0.14	0.04	0.07	2.23	98.44	1370.	52.	4.
VA02312	375.00	375.40	69.40	13.60	2.91	1.81	2.13	2.87	2.84	0.24	0.06	0.07	2.93	98.86	1070.	48.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02780	15.70	45.30	70.70	13.50	2.47	0.98	1.71	2.40	2.44	0.22			4.08	98.50	1040.	45.	4.
VA02781	45.30	65.00	44.80	15.70	11.40	2.90	1.73	1.07	7.79	0.74			12.50	98.63	249.	23.	13.
VA02782	65.00	85.50	44.80	14.70	12.70	2.58	1.80	1.49	8.57	0.74			12.10	99.48	337.	22.	15.
VA02783	85.50	115.00	68.40	13.00	4.27	1.33	1.26	2.72	2.82	0.28			5.16	99.24	1120.	42.	6.
VA02784	115.00	135.90	65.30	13.80	4.80	1.02	2.11	2.54	3.48	0.31			4.85	98.21	907.	34.	7.
VA02785	135.90	162.90	40.90	13.70	15.10	4.38	2.80	1.79	7.47	0.78			12.40	99.32	180.	26.	18.
VA02786	162.90	173.50	33.30	12.40	18.80	3.18	1.27	1.73	9.65	0.62			17.50	98.45	324.	20.	20.
VA02787	173.50	196.00	67.20	13.90	3.78	0.98	3.19	2.74	2.94	0.23			4.39	99.35	936.	35.	7.
VA02788	196.00	220.80	41.00	10.40	17.30	5.26	1.62	1.27	6.64	0.49			15.90	99.88	263.	26.	19.
VA02789	220.80	222.50	40.20	8.98	13.90	4.65	0.02	2.51	10.00	0.50			9.31	90.07	337.	34.	14.
VA02790	222.50	232.10	41.10	11.00	13.00	7.16	1.32	0.76	8.86	0.58			14.80	98.58	196.	36.	14.
VA02791	232.10	269.80	68.80	13.50	3.12	0.89	3.11	2.71	2.75	0.26			3.62	98.76	1040.	37.	6.
VA02792	291.80	321.00	69.20	13.20	3.25	0.88	3.17	2.73	2.15	0.23			3.54	98.35	988.	36.	6.
VA02793	321.00	351.00	69.60	13.50	3.03	0.83	3.04	2.81	2.18	0.23			3.23	98.45	1040.	37.	6.
VA02794	351.00	371.00	69.10	13.10	3.07	1.15	3.40	3.11	2.07	0.18			3.39	98.57	1040.	40.	6.
VA02795	371.00	391.40	69.30	13.50	2.97	1.18	3.66	2.44	2.20	0.21			3.62	99.08	963.	35.	7.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03395	29.70	30.50	980.0	85.0	63.0	<0.5	17.0	6.0	17.0	<5.0	48.0	<1.0	12.0	789.0	57.	2.	2.
VA03394	77.20	78.20	190.0	133.0	73.0	<0.5	10.0	31.0	63.0	<5.0	<5.0	2.0	<1.0	1395.0	65.	1.	4.
VA03396	78.20	78.60	220.0	156.0	71.0	<0.5	39.0	57.0	73.0	<5.0	<5.0	2.0	1.0	790.0	69.	5.	5.
VA03397	78.60	81.20	460.0	70.0	146.0	<0.5	48.0	22.0	29.0	<5.0	<5.0	<1.0	<1.0	1024.0	32.	1.	5.
VA03398	89.90	91.00	530.0	52.0	84.0	<0.5	17.0	12.0	13.0	55.0	19.0	<1.0	18.0	787.0	38.	1.	2.
VA03399	219.80	220.80	60.0	121.0	78.0	<0.5	29.0	35.0	162.0	<5.0	<5.0	2.0	<1.0	1248.0	61.	1.	4.
VA03400	220.80	221.80	380.0	108.0	59.0	<0.5	37.0	57.0	195.0	<5.0	9.0	2.0	3.0	903.0	65.	5.	5.
VA03401	221.80	222.50	370.0	123.0	57.0	<0.5	50.0	55.0	159.0	<5.0	<5.0	2.0	2.0	1009.0	68.	5.	4.
VA03402	222.50	223.50	300.0	120.0	116.0	<0.5	8.0	40.0	200.0	<5.0	7.0	2.0	<1.0	1080.0	51.	1.	5.
VA03403	225.00	225.90	620.0	114.0	77.0	<0.5	11.0	29.0	77.0	<5.0	<5.0	1.0	<1.0	1377.0	60.	1.	4.
VA03404	225.90	227.00	510.0	89.0	108.0	<0.5	10.0	31.0	125.0	<5.0	<5.0	2.0	2.0	1165.0	45.	1.	5.
VA03405	237.00	237.50	780.0	44.0	107.0	<0.5	13.0	26.0	89.0	<5.0	13.0	<1.0	2.0	1250.0	29.	1.	4.
VA03406	297.50	298.00	980.0	1.0	34.0	<0.5	11.0	2.0	3.0	<5.0	<5.0	<1.0	2.0	446.0	4.	1.	1.
VA03407	338.00	339.00	920.0	9.0	17.0	<0.5	5.0	2.0	<1.0	<5.0	9.0	<1.0	<1.0	290.0	35.	1.	1.
VA03408	350.20	351.00	1200.0	9.0	38.0	<0.5	39.0	4.0	2.0	<5.0	<5.0	<1.0	1.0	567.0	19.	1.	1.
VA03409	351.00	352.00	1300.0	10.0	169.0	<0.5	5.0	3.0	<1.0	27.0	<5.0	<1.0	<1.0	642.0	6.	1.	1.
VA03410	352.00	353.00	1200.0	22.0	153.0	<0.5	20.0	3.0	4.0	9.0	12.0	<1.0	<1.0	560.0	13.	2.	1.
VA03411	353.00	354.00	1200.0	65.0	427.0	1.3	27.0	4.0	3.0	15.0	<5.0	<1.0	<1.0	450.0	13.	2.	1.
VA03412	359.00	360.00	1200.0	5.0	43.0	<0.5	18.0	1.0	3.0	<5.0	11.0	<1.0	<1.0	432.0	10.	2.	1.
VA03413	376.50	377.50	1100.0	6.0	31.0	<0.5	<5.0	3.0	1.0	<5.0	<5.0	<1.0	<1.0	235.0	16.	1.	1.
VA03414	380.80	381.50	910.0	7.0	23.0	<0.5	5.0	2.0	3.0	<5.0	7.0	<1.0	2.0	303.0	23.	1.	1.
VA03415	383.10	384.10	840.0	4.0	20.0	<0.5	10.0	2.0	2.0	<5.0	7.0	<1.0	1.0	395.0	17.	2.	1.
VA03416	384.10	385.20	750.0	0.5	9.0	<0.5	9.0	2.0	1.0	<5.0	9.0	<1.0	<1.0	230.0	5.	2.	1.

Summary Log: DDH CH88-44
Location: 27+90 E, 2+40 S; Chip 1 Claim
Azimuth: 210, Dip: -45
Hole Completed: April 25, 1988
Core logged by: J. Pattison

0.0	4.3	Casing.
4.3	30.3	Feldspar porphyritic gabbro
30.3	58.7	Mafic flows
58.7	60.6	Mafic ash tuff
60.6	72.5	Mafic to intermediate tuffaceous sediments. A graded bed fines downhole (ie south)
72.5	98.2	Feldspar phorphyritic gabbro
98.2	110.1	Mafic to intermediate tuffaceous sediments
110.1	127.7	Feldspar porphyritic gabbro
127.7	132.1	Cherty felsic tuff/tuffite Several 3 mm bands of argillite and others of pyrite.
132.1	137.2	Mafic to intermediate tuffaceous sediments
137.2	144.0	Black argillite, cherty with 4 % fracture controlled pyrite.
144.0	150.3	Mafic to intermediate tuffaceous sediments
150.3	176.2	Black argillite with 5 % fracture controlled pyrite
176.2	184.7	Siltstone Several graded beds of fine downhole
184.7	186.0	Conglomerate Probably deposited at the base of a debris flow. Rip-up clasts are common.
186.0	196.6	Greywacke
196.0	197.9	Siltstone
197.9	203.3	Greywacke

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-44 Page Number 1

Hole Location: 27+90 E 2+40 S

NTS: 92B13 UTM: 5416831.7 N 430015.0 E
Azimuth: 210 Elevation: 519 m
Dip: -45 Length: 203.3 m

Started: 22-April-88
Completed: 25-April-88

Claim No. Chip 1
Section No.: 28+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size:

Purpose: To unravel the complex geology in the Anita Showing AreaSTS

Length	Azimuth	Dip	Length	Azimuth	Dip
35.30	213.0	-46.5	203.00	217.0	-45.0
132.90	216.0	-46.0			

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	4.3	CASING Only several metres of overburden then into GABBRO.											
4.3	30.3	FELDSPAR PORPHYRITIC GABBRO Massive medium green with up to 25 % 1-3 mm white feldspar phenocrysts. Rock is broken and blocky over most of the interval (0.2 m of lost core). Up to 4 % interstitial ilmenite. Fracture controlled quartz +/- carbonate veinlets are common difficult to pinpoint the lower contact but it appears to be a slip at 55 degrees to core axis. STRUCTURE:. 17.6 18.0 FAULT ZONE at 50 degrees to core axis.											
30.3	44.3	MAFIC FLOW Fine-grained, medium green with epidote+calcite alteration patches up to 0.4 m long. Beds and ripped up beds of cherty tuffaceous sediments < 1.0 cm thick occur occasionally. Upper contact with the gabbro is difficult to recognize and ilmenite mineralization continues for 1.7 m below the gabbro. Locally weakly feldspar porphyritic. Lower contact is a flow contact (?) at 50 degrees to core axis. STRUCTURE:. At 31.4 m bedding is at 60 degrees to core axis. 40.4-40.8 M bedding runs parallel to the core axis. 47.4-47.8 M FAULT ZONE. Core is broken over entire interval, 0.1 m of lost core. Not possible to measure	VA02796	30.3	57.7	27.4	n/a	148	n/a	59	n/a	n/a	121
			VA03417	32.5	33.5	1.0	0	58	<5	37	<1	10	90
			VA03418	33.5	34.0	.5	1	146	<5	35	<1	10	120
			VA03419	34.0	35.0	1.0	3	81	<5	54	<1	44	310
			VA03420	35.0	36.0	1.0	3	30	<5	38	<1	29	210
			VA03421	36.0	37.0	1.0	1	119	<5	66	<1	6	310
			VA03422	38.0	39.0	1.0	1	195	<5	55	<1	20	370
			VA03423	39.0	40.0	1.0	6	279	<5	48	<1	20	240
			VA03424	40.0	41.0	1.0	1	254	<5	55	<1	25	270
			VA03425	43.0	44.0	1.0	1	145	<5	75	<1	<5	620
			VA03426	44.0	45.0	1.0	1	124	<5	51	<1	<5	200

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		orientation.											
		ALTERATION:.											
		30.3 44.3 MODERATE SPOTTY EPIDOTIZATION , WEAK PERVASIVE CARBONATIZATION, WEAK FRACTURE CONTROLLED CARBONATIZATION and WEAK PERVASIVE CHLORITIZATION											
		SULPHIDES:.											
		33.5 36.0 2-5% fracture controlled pyrite, 1 % pyrrhotite and trace chalcopyrite and sphalerite associated with epidote+calcite alteration patches.											
		39.0 40.0 5 % pyrite, trace-1 % pyrrhotite and trace chalcopyrite and sphalerite associated with epidote+calcite patches.											
44.3	58.7	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION											
		Similiar to 30.3 to 44.3 m but contains up to 5 % 1-3 mm anhedral to euhedral chlorite spots (chlorite replacing hornblende/pyroxene?).	VA03427	45.0	46.0	1.0	1	47	<5	43	<1	6	210
			VA03428	46.0	47.0	1.0	1	59	<5	56	<1	<5	230
			VA03429	52.2	53.0	.8	2	101	<5	40	<1	<5	190
		Lower contact is a 3.0 cm fault gouge at 55 degrees to core axis.	VA02797	57.7	72.5	14.8	n/a	85	n/a	120	n/a	n/a	1290
			VA03430	58.0	59.0	1.0	1	178	<5	123	1	<5	300
		STRUCTURE:.											
		At 52.3 m flow contact at 55 degrees to core axis. Rock is fine-grained and non porphyritic (ie. Chilled) for about 1.0 m uphole of the contact. 1.0 cm thermal biotite rich band at the contact. Minor flow breccia on downhole side of the contact (flow base?). .											
		55.0-57.8 M blocky, highly fractured core.											
		At 57.8 m fault gouge at 15 degrees to core axis.											
		ALTERATION:.											
		44.3 58.7 WEAK SPOTTY EPIDOTIZATION and WEAK PERVASIVE CHLORITIZATION.											
		SULPHIDES:.											
		45.0 46.0 <1 % biotite or sphalerite along edges of irregular quartz +/- carbonate veins <1.0 cm thick.											
		52.5 53.0 2 % biotite or sphalerite along edges of minor quartz veins <1.0 cm thick.											
58.7	60.6	MAFIC TUFF											
		Dark green, ash tuff. Bedding is broken up and there is abundant soft sediment deformation. Lower contact is gradational.	VA03431	59.0	60.0	1.0	1	127	<5	80	<1	<5	280
		STRUCTURE:.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 58.8 m bedding is at 45 degrees to core axis. ALTERATION:. 58.7 60.6 WEAK FRACTURE CONTROLLED CARBONATIZATION. SULPHIDES:. At 59.5 m trace biotite or sphalerite associated with a carbonate-filled fractures.											
60.6	72.5	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Green with a brownish tint due to moderate patchy thermal biotite alteration. Dominately a mafic ash tuff with finely bedded to laminated bands of light brown cherty sediments < 5 cm wide. Becomes medium brown below 68.0 m and very cherty below 71.2 m. Lower contact is at 40 degrees to core axis. STRUCTURE:. At 61.7 m bedding is at 40 degrees to core axis. At 65.2 m bedding is at 50 degrees to core axis. At 67.6 m slip or crosscutting erosional contact at 10 degrees to core axis. At 70.4 m bedding is at 47 degrees to core axis. A 2.0 cm thick bed FINES DOWNHOLE. ALTERATION:. 60.6 68.0 Moderate patchy thermal biotite. 68.0 72.5 Strong thermal biotite. SULPHIDES:. At 61.7 m 2 mm bed of pyrite. 68.0-72.5 M trace pyrite in hairline fractures. 64.0 65.0 Massive MAFIC FLOW ?. Medium green, no thermal biotite alteration and no bedding. 65.5 65.7 Unsorted bed of volcanic wacke at 60 degrees to core axis.	VA03432 VA03433 VA03434 VA03435 VA03436 VA03437	67.0 68.0 69.0 70.0 71.0 72.0	68.0 69.0 70.0 71.0 72.0 72.5	1.0 1.0 1.0 1.0 1.0 .5	1 1 1 1 1 1	118 101 87 132 76 125	<5 5 8 5 18 116	103 103 83 104 72 92	<1 <1 1 1 <1 1	<5 <5 14 <5 <5 194	830 1200 1800 2300 1800 1300
72.5	98.2	FELDSPAR PORPHYRITIC GABBRO Massive, medium green with up to 10 % 1-3 mm white feldspar phenocrysts. Although sections up to 2.0 m long are non porphyritic trace to 3 % disseminated ilmenite. May be a flow. Evidence for this is the possible bedding observed at 89.1 m. Broken core at the lower contact. 79.0 81.5 Weakly carbonatized non porphyritic section. 89.1 89.4 Beds of fine, cherty light green sediment ?!?!	VA02798	92.8	110.1	17.3	n/a	34	n/a	66	n/a	n/a	1080

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		at 40 degrees to core axis. May be part of an xenolith.											
98.2	103.0	MAFIC TUFF Medium to light green weakly to moderately cherty beds are common. Several bleached zones of quartz-carbonate flooding with up to 5 % fracture controlled pyrite. Lower contact is very irregular. STRUCTURE:. At 99.1 m bedding is at 50 degrees to core axis. SULPHIDES:. 100.5 100.9 3 % fracture controlled pyrite, associated with a quartz-carbonate alteration zone.	VA03438	99.5	100.5	1.0	1	51	<5	48	1	<5	1300
			VA03439	100.5	101.0	.5	1	93	<5	246	1	<5	410
			VA03440	101.0	102.0	1.0	1	105	<5	52	1	<5	560
103.0	110.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS As 60.6 to 72.5 m. Thermal biotite alteration occurs in discrete patches. Light brown to green 3-30 mm chert beds over the last 1.0 m of the unit. Broken core at the lower contact. STRUCTURE:. At 109.5 m bedding is at 45 degrees to core axis. ALTERATION:. 103.0 110.1 Moderate thermal biotite alteration. SULPHIDES:. 109.0-110.1 Trace fracture controlled pyrite and sphalerite	VA03441	108.0	109.0	1.0	1	113	<5	67	1	9	830
			VA03442	109.0	110.1	1.1	1	92	6	70	1	6	1900
110.1	127.7	FELDSPAR PORPHYRITIC GABBRO As 72.5 to 98.2 m. Trace pyrite in occasional calcite veinlets. Lower contact appears to be an intrusive one and is at 45 degrees to core axis. No evidence suggesting that it might be a flow.											
127.7	132.1	CHERTY FELSIC TUFF / TUFFITE Well bedded cherty felsic tuffite. Beds are 2-40 mm thick (most < 10 mm). Sediments vary in colour from light grey to light grey-green to salmon pink. Bedding is wavey and is frequently microfaulted. Several beds of argillite < 3 mm thick. Bands of pyrite up to 5 mm thick parallel to bedding are common. Epidote+carbonate alteration patch at lower contact.	VA03443	127.7	128.7	1.0	3	61	8	52	1	<5	3300
			VA02799	127.7	132.1	4.4	n/a	23	n/a	80	n/a	n/a	4750
			VA03444	128.7	129.8	1.1	3	29	7	41	<1	<5	4200
			VA03445	129.8	130.9	1.1	3	56	8	53	1	<5	4400
			VA03446	130.9	132.1	1.2	3	48	6	62	1	<5	6000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-44 Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		STRUCTURE:. At 128.2 m bedding is at 45 degrees to core axis. At 130.6 fault at 76 degrees to core axis. At 131.8 m bedding is at 60 degrees to core axis. ALTERATION:. 132.1 127.7 Unknown. SULPHIDES:. 127.7-132.1 m 3 % pyrite in beds < 5 mm thick and in hairline fractures.											
132.1	137.2	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Medium green-grey, bedding is not as pronounced as in the unit above, beds are up to 0.2 m thick and the sediments are coarser (ie sand to silt). Argillaceous beds are very rare. 3 % angular lapilli-sized felsic clasts throughout the last 0.7 m of the unit. Nil to trace disseminated pyrite. Lower contact is conformable at 60 degrees to core axis. . STRUCTURE:. 133.2 133.5 Cherty bed at 70 degrees to core axis with 2 % fracture controlled pyrite. 140.3-140.6 M bedding is at 50-58 degrees to core axis. Several <1.0 cm beds FINE DOWNHOLE. At 141.4 m a 5.0 cm bed FINES DOWNHOLE.	VA02800 VA03447 VA03448	132.1 132.1 136.2	137.2 133.1 137.2	5.1 1.0 1.0	n/a 0 0	76 90 91	n/a <5 <5	82 68 60	n/a 1 1	n/a 7 <5	418 1300 2000
137.2	142.4	BLACK ARGILLITE Very fine-grained black to dark grey, moderately cherty over most of the interval and weakly to moderately graphitic. Weakly to moderately microfractured, fractures are filled with calcite+quartz and / or pyrite. Rock is blocky over the entire interval. Lower contact is at 55 degrees to core axis. STRUCTURE:. Bedding is often offset by < 3 cm by minor faults at 0-70 degrees to core axis. At 139.6 m bedding is at 50 degrees to core axis. ALTERATION:. 137.2 142.4 WEAK FRACTURE CONTROLLED CARBONATIZATION. SULPHIDES:. 137.2-142.4 m 4 % fractures controlled pyrite.	VA03449 VA03450 VA03451 VA03452 VA03453	137.2 138.2 139.3 140.4 141.4	138.2 139.3 140.4 141.4 142.4	1.0 1.1 1.1 1.0 1.0 5.2	4 4 4 4 4	59 40 33 22 33 37.4	12 13 11 8 10 10.8	105 100 85 87 140 103	1 1 1 1 1 1	<5 <5 7 12 <5 5.3	4000 6600 3500 2800 2400 8906
142.4	144.0	WEAKLY CHLORITIC FELSIC TUFF											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-44 Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		20 % ash-sized feldspar crystals in a very fine-grained cherty light green, massive siliceous matrix. Several blocks of black argillite near the upper contact. Lower contact is very sharp but irregular (errosional ?) at about 30 degrees to core axis. .	~~VA02801~~	~~142.4~~	~~144.0~~	~~1.6~~	~~n/a~~	~~52~~	~~n/a~~	~~125~~	~~n/a~~	~~n/a~~	~~99~~
			VA03454	142.4	143.2	.8	1	26	<5	63	1	<5	1700
			VA03455	143.2	144.0	.8	1	46	<5	70	1	<5	100
						1.6		36	<5	66	1	<5	900
		ALTERATION:.											
		142.4 144.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
		SULPHIDES:.											
		142.4 144.0 Trace fracture controlled pyrite.											
144.0	149.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Medium green with a brownish tint due to weak to moderate patchy thermal biotite alteration. Mafic to intermediate in composition and grain size varies from sand to granule. 10 to 25 % replacing subhedral 2-4 mm hornblende/pyroxene between 144.4 and 146.0 m. Quite massive, bedding rarely observed. Occasional ripped-up cherty bed. Lower contact is sharp at 72 degrees to core axis.	~~VA02802~~	~~144.0~~	~~149.1~~	~~5.1~~	~~n/a~~	~~57~~	~~n/a~~	~~148~~	~~n/a~~	~~n/a~~	~~2430~~
			VA03456	144.0	145.0	1.0	2	55	5	101	1	<5	1600
			VA03457	145.0	146.0	1.0	2	91	<5	133	1	<5	3300
			VA03458	146.0	147.0	1.0	2	63	<5	105	1	<5	2600
			VA03459	147.0	148.0	1.0	2	88	<5	101	1	<5	2400
			VA03460	148.0	149.1	1.1	2	106	8	314	1	<5	2600
						5.1		62	4	151	1	<5	2500
		ALTERATION:.											
		144.0 149.1 WEAK SPOTTY EPIDOTIZATION.											
		SULPHIDES:.											
		144.0 2.0 % fracture controlled pyrite.											
149.1	150.3	WEAKLY CHLORITIC FELSIC TUFF											
		As 142.4 to 144.0 m. Argillaceous over the first 0.1 m's. Massive, no bedding. Broken core at the lower contact.	VA03461	149.1	150.3	1.2	0	43	33	209	1	<5	310
		149.1 150.3 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
150.3	176.2	BLACK ARGILLITE											
		Black, very fine-grained, weakly to moderately graphitic and cherty. Beds of felsic ash tuff, volcanic wackes and cherty sediments < 0.1 m thick are common. Rock is blocky throughout most of the section. Lower contact is sharp at 10 degrees to core axis.	VA03462	150.3	151.3	1.0	5	42	16	106	1	<5	390
			VA03463	151.3	153.3	2.0	0	29	16	85	1	<5	660
			VA03465	153.3	154.3	1.0	5	23	10	23	1	5	8400
			VA03464	154.3	155.1	.8	5	20	14	63	1	<5	9100
			VA03466	155.1	156.7	1.6	5	33	11	206	1	<5	2500
			VA03467	156.7	159.1	2.4	5	31	11	140	1	15	2900
			VA03468	159.1	160.5	1.4	5	29	11	83	1	<5	3100
		STRUCTURE:.	VA03469	160.5	161.5	1.0	5	25	11	74	1	5	2600
		At 151.7 m bedding is at 50 degrees to core axis.	VA03470	161.5	162.8	1.3	5	31	16	96	1	8	2900
		151.8-153.9 M FAULT ZONE at 40-50 degrees to core axis. 1.7 m of lost core.	~~VA03471~~	~~162.3~~	~~162.8~~	~~.5~~	~~5~~	~~19~~	~~<5~~	~~69~~	~~<1~~	~~144~~	~~4100~~
		155.1-159.1 M FAULT ZONE at 20-45 degrees to core axis. 2.0 m of lost core. Moderately to strongly graphitic.	VA03472	162.8	163.8	1.0	5	21	7	71	1	<5	2700
			VA03473	163.8	164.8	1.0	5	20	5	77	1	<5	3000
		At 161.5 m bedding is at 50 degrees to core axis.	VA03474	164.8	165.8	1.0	5	20	<5	71	1	<5	2400
		162.3-162.8 M FAULT ZONE at 60 degrees to core axis. Rock is very broken and blocky over entire interval.	VA03475	165.8	166.8	1.0	5	29	7	96	1	<5	3800
			VA03476	166.8	167.8	1.0	5	18	6	86	1	<5	3000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-44 Page Number 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 167.5 m 1.0 cm wacke bed is nearly parallel to the core axis.	VA03477	167.8	168.8	1.0	5	17	5	65	1	7	2400
		169.6-172.5 M FAULT ZONE at 20-40 degrees to core axis.	VA03478	168.8	170.4	1.6	5	37	7	114	1	5	3100
		Moderately graphitic. 0.6 m of lost core.	VA03479	170.4	172.5	2.1	5	34	10	101	1	<5	2200
		At 174.0 m bedding is at 15 degrees to core axis.	VA03480	172.5	173.5	1.0	5	27	7	93	1	<5	3400
			VA03481	173.5	174.5	1.0	5	28	9	89	1	12	3500
		ALTERATION:.	VA03482	174.5	175.5	1.0	5	24	8	101	1	6	3200
		150.3 176.2 WEAK FRACTURE CONTROLLED CARBONATIZATION.	VA03483	175.5	176.2	.7	5	20	9	53	1	13	2600
						25.9		28	10	97	1	5	2886
		SULPHIDES:.											
		5 % fracture controlled, bedded and disseminated pyrite.											
		160.0 161.6 Beds of light green intermediate ash tuff up to 0.1 m thick comprise 50 % of the core. Bedding is often offset by brittle microfaults.											
		175.4 888.8 Two light grey rounded pebbles of carbonate-rich wacke.											
176.2	184.7	SILTSTONE											
		Medium to light grey with black argillite beds up to 5.0 cm thick and light brown biotite altered greywacke beds up to 2.0 cm thick at low angles to the core axis. Lower contact is sharp errosional (?) at 20 degrees to core axis.	VA03484	176.2	177.2	1.0	3	23	7	78	1	<5	3400
			VA03485	177.2	178.2	1.0	3	19	5	73	1	<5	4900
			VA03486	178.2	179.2	1.0	3	23	9	65	1	<5	4200
			VA03487	179.2	180.2	1.0	3	21	7	68	1	<5	4400
			VA03488	180.2	181.2	1.0	3	19	7	85	1	<5	3100
			VA03489	181.2	182.2	1.0	3	18	6	61	1	<5	3500
			VA03490	182.2	183.2	1.0	3	23	7	70	1	<5	3700
			VA03491	183.2	184.3	1.1	3	23	9	71	1	<5	4800
						8.1		21	7	71	1	45	4000
		STRUCTURE:.											
		At 176.2 m bedding is at bedding is at 10 degrees to core axis and beds appear to FINE DOWNHOLE.											
		At 179.4 m bedding is at 24 degrees to core axis.											
		At 180.0 m 1.0 cm bed of greywacke at 21 degrees to core axis. Bed FINES DOWNHOLE.											
		ALTERATION:.											
		176.2 184.7 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
		SULPHIDES:.											
		At 176.2-184.7 m 3 % fracture controlled and bedded (<5 mm thick beds) pyrite.											
		At 183.0 m 5.0 cm greywacke bed with 20 % pyrite and 5 % sphalerite or biotite at 16 degrees to core axis.											
184.7	186.0	CONGLOMERATE											
		Probably deposited at the base of a debris flow. Comprised of 30 % angular pebble-sized clasts and rip-up clasts of argillite (40%), siltstone (15%), greywacke (15%) and carbonatized sediments (30%) in a coarse, quartz granule and biotite rich matrix. Many clasts have a ripped-up appearance. Clasts are poorly sorted but overall clast content decreases rapidly downhole (eg 40 %												

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		clasts at 185.0 m and only 20 % at 185.9 m). Lower contact is gradational. ALTERATION:. 184.7 186.0 Moderate thermal biotite alteration. SULPHIDES:. 184.7 186.0 2 % pyrrhotite disseminated throughout the matrix.											
186.0	196.6	GREYWACKE Medium brown, quite massive, occasional beds of argillite up to 1.0 cm thick and an occasional angular pebble of argillite or siltstone. Comprised of subrounded quartz grains and subangular volcanic and chert fragments. See thin section sample AB?????. Trace disseminated magnetite and pyrite in the matrix. Occasional dark grey cherty clasts up to 4.0 cm in diameter below 191.4 m. Clasts have distinctive light green or brown reaction rims up to 1.0 cm wide. Lower contact is at 20 degrees to core axis.											
196.6	197.9	SILTSTONE Medium grey, massive, no bedding, very cherty but no sulphides. Lower contact is at 18 degrees to core axis.											
197.9	203.3	GREYWACKE As 186.0 to 196.6 m. Massive and quite coarse-grained with occasional clast or bed of dark grey cherty siltstone. Trace disseminated pyrite. STRUCTURE:. At 201.2 m bedding is at 24 degrees to core axis. 200.3 201.2 CHERTY SILTSTONE: trace fracture controlled pyrite.	VA03492	200.3	201.3	1.0	1	12	7	94	<1	<5	3000

48.1 Cu: 26 Pb: 9 Zn: 101 As: 1 Au <5

Ba 3017

1257

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02313	28.30	28.70	47.40	14.70	12.30	5.64	2.16	0.17	11.70	1.47	0.14	0.20	3.70	99.58	104.	29.	14.
VA02314	32.10	32.30	50.10	16.50	11.00	5.13	3.72	0.11	9.97	0.78	0.15	0.17	2.23	99.86	75.	26.	15.
VA02315	54.40	54.70	50.90	14.00	9.79	7.67	3.33	0.33	10.10	0.58	0.14	0.18	2.39	99.41	226.	38.	13.
VA02316	62.70	63.00	50.20	14.90	8.50	8.69	2.01	2.53	9.85	0.71	0.19	0.20	2.47	100.25	1020.	52.	11.
VA02317	73.00	73.50	51.20	14.00	7.61	5.82	2.47	0.59	13.10	1.87	0.18	0.20	3.00	100.04	341.	39.	10.
VA02318	101.40	101.60	50.80	15.60	4.44	7.81	4.00	0.89	9.02	0.64	0.21	0.12	4.70	98.23	463.	51.	8.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02796	30.30	57.70	44.40	17.50	16.20	4.46	2.03	0.22	10.80	0.59			3.93	100.13	121.	20.	18.
VA02797	57.70	72.50	47.50	16.00	6.62	7.68	2.62	2.67	10.50	0.81			5.23	99.63	1290.	53.	9.
VA02798	92.80	110.10	43.50	14.20	19.80	5.57	0.94	1.16	7.23	0.49			6.39	99.28	1080.	25.	21.
VA02799	127.70	132.10	74.10	11.10	1.24	1.68	2.03	2.47	3.07	0.26			2.00	97.95	4750.	56.	3.
VA02800	132.10	137.20	51.90	15.60	6.57	6.05	5.42	0.24	7.55	0.61			5.47	99.41	418.	34.	12.
VA02801	142.40	144.00	42.50	15.00	7.84	8.53	3.24	0.10	11.20	1.76			7.85	98.02	99.	44.	11.
VA02802	144.00	149.10	43.50	16.30	9.96	6.91	2.13	1.37	11.60	1.98			3.47	97.24	2430.	41.	12.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03417	32.50	33.50	90.0	58.0	37.0	<0.5	10.0	17.0	23.0	<5.0	<5.0	1.0	<1.0	401.0	61.	0.	2.
VA03418	33.50	34.00	120.0	146.0	35.0	<0.5	10.0	15.0	21.0	<5.0	16.0	1.0	<1.0	514.0	81.	1.	3.
VA03419	34.00	35.00	310.0	81.0	54.0	<0.5	44.0	28.0	34.0	<5.0	9.0	2.0	<1.0	684.0	60.	3.	5.
VA03420	35.00	36.00	210.0	30.0	38.0	<0.5	29.0	17.0	28.0	<5.0	6.0	<1.0	<1.0	556.0	44.	3.	3.
VA03421	36.00	37.00	310.0	119.0	66.0	<0.5	6.0	26.0	34.0	<5.0	<5.0	2.0	<1.0	722.0	64.	1.	4.
VA03422	38.00	39.00	370.0	195.0	55.0	<0.5	20.0	26.0	34.0	<5.0	<5.0	2.0	<1.0	801.0	78.	1.	4.
VA03423	39.00	40.00	240.0	279.0	48.0	<0.5	20.0	49.0	37.0	<5.0	20.0	2.0	1.0	627.0	85.	6.	4.
VA03424	40.00	41.00	270.0	254.0	55.0	<0.5	25.0	29.0	31.0	<5.0	7.0	1.0	<1.0	536.0	82.	1.	4.
VA03425	43.00	44.00	620.0	145.0	75.0	<0.5	<5.0	31.0	36.0	<5.0	<5.0	<1.0	<1.0	835.0	66.	1.	5.
VA03426	44.00	45.00	200.0	124.0	51.0	<0.5	<5.0	23.0	38.0	<5.0	<5.0	1.0	<1.0	621.0	71.	1.	4.
VA03427	45.00	46.00	210.0	47.0	43.0	<0.5	6.0	28.0	38.0	<5.0	<5.0	<1.0	<1.0	728.0	52.	1.	4.
VA03428	46.00	47.00	230.0	59.0	56.0	<0.5	<5.0	35.0	43.0	<5.0	<5.0	1.0	<1.0	1087.0	51.	1.	5.
VA03429	52.20	53.00	190.0	101.0	40.0	<0.5	<5.0	23.0	29.0	<5.0	<5.0	<1.0	<1.0	549.0	72.	2.	3.
VA03430	58.00	59.00	300.0	178.0	123.0	0.6	<5.0	37.0	58.0	<5.0	<5.0	<1.0	<1.0	1207.0	59.	1.	6.
VA03431	59.00	60.00	280.0	127.0	80.0	<0.5	<5.0	36.0	62.0	<5.0	<5.0	<1.0	<1.0	1140.0	61.	1.	6.
VA03432	67.00	68.00	830.0	118.0	103.0	<0.5	<5.0	26.0	27.0	<5.0	<5.0	1.0	<1.0	1079.0	53.	1.	6.
VA03433	68.00	69.00	1200.0	101.0	103.0	<0.5	<5.0	21.0	20.0	5.0	<5.0	<1.0	<1.0	788.0	50.	1.	5.
VA03434	69.00	70.00	1800.0	87.0	83.0	0.5	14.0	19.0	31.0	8.0	<5.0	<1.0	1.0	920.0	51.	1.	5.
VA03435	70.00	71.00	2300.0	132.0	104.0	0.6	<5.0	26.0	39.0	<5.0	15.0	1.0	<1.0	1015.0	56.	1.	6.
VA03436	71.00	72.00	1800.0	76.0	72.0	<0.5	<5.0	22.0	42.0	18.0	11.0	<1.0	<1.0	666.0	51.	1.	6.
VA03437	72.00	72.50	1300.0	125.0	92.0	1.0	194.0	8.0	43.0	116.0	19.0	1.0	5.0	337.0	58.	1.	3.
VA03438	99.50	100.50	1300.0	51.0	48.0	0.5	<5.0	22.0	81.0	<5.0	<5.0	<1.0	<1.0	613.0	52.	1.	3.
VA03439	100.50	101.00	410.0	93.0	246.0	0.6	<5.0	27.0	44.0	<5.0	12.0	2.0	1.0	838.0	27.	1.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03440	101.00	102.00	560.0	105.0	52.0	0.7	<5.0	26.0	103.0	<5.0	<5.0	<1.0	<1.0	627.0	67.	1.	5.
VA03441	108.00	109.00	830.0	113.0	67.0	0.7	9.0	24.0	60.0	<5.0	6.0	<1.0	<1.0	565.0	63.	1.	5.
VA03442	109.00	110.10	1900.0	92.0	70.0	0.6	6.0	14.0	35.0	6.0	6.0	<1.0	3.0	472.0	57.	1.	3.
VA03443	127.70	128.70	3300.0	61.0	52.0	0.8	<5.0	7.0	20.0	8.0	5.0	<1.0	1.0	317.0	54.	3.	2.
VA03444	128.70	129.80	4200.0	29.0	41.0	<0.5	<5.0	4.0	14.0	7.0	<5.0	<1.0	<1.0	259.0	41.	3.	2.
VA03445	129.80	130.90	4400.0	56.0	53.0	0.7	<5.0	6.0	17.0	8.0	<5.0	<1.0	1.0	295.0	51.	3.	2.
VA03446	130.90	132.10	6000.0	48.0	62.0	0.8	<5.0	7.0	21.0	6.0	<5.0	<1.0	1.0	565.0	44.	3.	3.
VA03447	132.10	133.10	1300.0	90.0	68.0	0.7	7.0	21.0	72.0	<5.0	10.0	<1.0	2.0	764.0	57.	0.	4.
VA03448	136.20	137.20	2000.0	91.0	60.0	0.6	<5.0	23.0	95.0	<5.0	<5.0	1.0	<1.0	1109.0	60.	0.	4.
VA03449	137.20	138.20	4000.0	59.0	105.0	0.7	<5.0	6.0	23.0	12.0	16.0	<1.0	1.0	445.0	36.	4.	3.
VA03450	138.20	139.30	6600.0	40.0	100.0	0.7	<5.0	3.0	18.0	13.0	8.0	<1.0	2.0	317.0	29.	4.	2.
VA03451	139.30	140.40	3500.0	33.0	85.0	1.0	7.0	2.0	17.0	11.0	<5.0	<1.0	4.0	278.0	28.	4.	2.
VA03452	140.40	141.40	2800.0	22.0	87.0	0.7	12.0	<1.0	14.0	8.0	<5.0	<1.0	4.0	335.0	20.	4.	1.
VA03453	141.40	142.40	2400.0	33.0	140.0	0.8	<5.0	3.0	22.0	10.0	<5.0	<1.0	3.0	488.0	19.	4.	2.
VA03454	142.40	143.20	1700.0	26.0	63.0	0.7	<5.0	3.0	11.0	<5.0	8.0	<1.0	2.0	390.0	29.	1.	2.
VA03455	143.20	144.00	100.0	46.0	70.0	0.7	<5.0	22.0	117.0	<5.0	27.0	<1.0	2.0	777.0	40.	1.	4.
VA03456	144.00	145.00	1600.0	55.0	101.0	0.5	<5.0	35.0	227.0	5.0	8.0	<1.0	2.0	870.0	35.	2.	4.
VA03457	145.00	146.00	3300.0	91.0	133.0	0.6	<5.0	31.0	44.0	<5.0	11.0	<1.0	5.0	855.0	41.	2.	4.
VA03458	146.00	147.00	2600.0	63.0	105.0	0.5	<5.0	26.0	35.0	<5.0	5.0	<1.0	3.0	718.0	38.	2.	4.
VA03459	147.00	148.00	2400.0	88.0	101.0	0.6	<5.0	25.0	26.0	<5.0	<5.0	<1.0	5.0	870.0	47.	2.	4.
VA03460	148.00	149.10	2600.0	106.0	314.0	0.8	<5.0	29.0	54.0	8.0	<5.0	3.0	8.0	1382.0	25.	2.	5.
VA03461	149.10	150.30	310.0	43.0	209.0	0.7	<5.0	4.0	21.0	33.0	6.0	<1.0	2.0	670.0	17.	0.	2.
VA03462	150.30	151.30	390.0	42.0	106.0	0.7	<5.0	4.0	29.0	16.0	<5.0	<1.0	2.0	626.0	28.	5.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA03463	151.30	153.30	660.0	29.0	85.0	0.6	<5.0	4.0	23.0	16.0	10.0	<1.0	3.0	428.0	25.	0.	2.
VA03465	153.30	154.30	8400.0	23.0	23.0	0.9	5.0	1.0	18.0	10.0	14.0	<1.0	58.0	286.0	50.	5.	1.
VA03464	154.30	155.10	9100.0	20.0	63.0	1.1	<5.0	1.0	7.0	14.0	<5.0	<1.0	13.0	380.0	24.	5.	1.
VA03466	155.10	156.70	2500.0	33.0	206.0	0.8	<5.0	2.0	20.0	11.0	13.0	<1.0	5.0	302.0	14.	5.	2.
VA03467	156.70	159.10	2900.0	31.0	140.0	1.0	15.0	3.0	24.0	11.0	17.0	<1.0	3.0	362.0	18.	5.	2.
VA03468	159.10	160.50	3100.0	29.0	83.0	0.7	<5.0	2.0	14.0	11.0	20.0	<1.0	31.0	331.0	26.	5.	2.
VA03469	160.50	161.50	2600.0	25.0	74.0	0.6	5.0	2.0	6.0	11.0	5.0	<1.0	13.0	380.0	25.	5.	2.
VA03470	161.50	162.80	2900.0	31.0	96.0	0.9	8.0	4.0	17.0	16.0	9.0	<1.0	7.0	309.0	24.	5.	2.
VA03471	162.30	162.80	4100.0	19.0	69.0	<0.5	144.0	2.0	9.0	<5.0	<5.0	<1.0	2.0	305.0	22.	5.	1.
VA03472	162.80	163.80	2700.0	21.0	71.0	0.6	<5.0	2.0	11.0	7.0	<5.0	<1.0	<1.0	424.0	23.	5.	2.
VA03473	163.80	164.80	3000.0	20.0	77.0	0.5	<5.0	1.0	8.0	5.0	<5.0	<1.0	1.0	351.0	21.	5.	2.
VA03474	164.80	165.80	2400.0	20.0	71.0	0.7	<5.0	2.0	9.0	<5.0	<5.0	<1.0	<1.0	376.0	22.	5.	2.
VA03475	165.80	166.80	3800.0	29.0	96.0	0.8	<5.0	2.0	8.0	7.0	<5.0	<1.0	11.0	415.0	23.	5.	2.
VA03476	166.80	167.80	3000.0	18.0	86.0	0.5	<5.0	2.0	5.0	6.0	8.0	<1.0	3.0	1164.0	17.	5.	2.
VA03477	167.80	168.80	2400.0	17.0	65.0	0.6	7.0	2.0	5.0	5.0	<5.0	<1.0	1.0	391.0	21.	5.	1.
VA03478	168.80	170.40	3100.0	37.0	114.0	0.7	5.0	3.0	19.0	7.0	<5.0	<1.0	3.0	339.0	25.	5.	2.
VA03479	170.40	172.50	3200.0	34.0	101.0	1.0	<5.0	2.0	24.0	10.0	27.0	<1.0	3.0	293.0	25.	5.	2.
VA03480	172.50	173.50	3400.0	27.0	93.0	0.8	<5.0	2.0	20.0	7.0	<5.0	<1.0	2.0	206.0	23.	5.	2.
VA03481	173.50	174.50	3500.0	28.0	89.0	0.8	12.0	3.0	18.0	9.0	9.0	<1.0	1.0	253.0	24.	5.	2.
VA03482	174.50	175.50	3200.0	24.0	101.0	0.7	6.0	1.0	16.0	8.0	10.0	<1.0	3.0	381.0	19.	5.	2.
VA03483	175.50	176.20	2600.0	20.0	53.0	0.6	13.0	2.0	13.0	9.0	<5.0	<1.0	2.0	242.0	27.	5.	1.
VA03484	176.20	177.20	3400.0	23.0	78.0	0.6	<5.0	2.0	9.0	7.0	<5.0	<1.0	<1.0	373.0	23.	3.	1.
VA03485	177.20	178.20	4900.0	19.0	73.0	0.7	<5.0	1.0	8.0	5.0	<5.0	<1.0	<1.0	304.0	21.	3.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03486	178.20	179.20	4200.0	23.0	65.0	0.5	<5.0	2.0	11.0	9.0	<5.0	<1.0	<1.0	261.0	26.	3.	2.
VA03487	179.20	180.20	4400.0	21.0	68.0	0.6	<5.0	1.0	8.0	7.0	<5.0	<1.0	4.0	398.0	24.	3.	2.
VA03488	180.20	181.20	3100.0	19.0	85.0	0.5	<5.0	3.0	11.0	7.0	<5.0	<1.0	1.0	320.0	18.	3.	2.
VA03489	181.20	182.20	3500.0	18.0	61.0	0.6	<5.0	3.0	9.0	6.0	<5.0	<1.0	<1.0	326.0	23.	3.	1.
VA03490	182.20	183.20	3700.0	23.0	70.0	0.7	<5.0	4.0	9.0	7.0	<5.0	<1.0	1.0	394.0	25.	3.	2.
VA03491	183.20	184.30	4800.0	23.0	71.0	0.6	<5.0	2.0	7.0	9.0	8.0	<1.0	1.0	389.0	24.	3.	2.
VA03492	200.30	201.30	3000.0	12.0	94.0	<0.5	<5.0	1.0	8.0	7.0	<5.0	<1.0	<1.0	326.0	11.	1.	2.

Summary Log: DDH CH88-45
Location: 28+00 E, 1+10 N; Chip 1 Claim
Azimuth: 210, Dip: -58
Hole Completed: April 28, 1988
Core Logged By: D.P. Money

0.0	- 5.1	Casing.
5.1	- 196.3	Chloritic felsic crystal and lapilli tuffs.
196.3	- 202.4	Fault Zone.
202.4	- 218.6	Felsic crystal tuff with 1 % pyrite and trace chalcopyrite.
218.6	- 222.5	Fault Zone.
222.5	- 250.5	Chloritic feldspar porphyritic felsic flow.
250.5	- 345.7	Intercalated felsic and mafic tuffs.
345.7	- 350.7	Mafic sill.
350.7	- 374.0	Felsic ash tuff and minor sediments with up to 5 % banded and disseminated pyrite over 1 m, pyrite content averages 1 to 2 %.
374.0	- 439.5	Gabbro.
439.5		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-45 Page Number 1

Hole Location: 28+00 E 1+10 N

NTS: 092/B13 UTM: 5417131.9 N 430195.6 E
Azimuth: 210 Elevation: 545 m
Dip: -58 Length: 439.5 m

Started: April 22, 1988
Completed: April 28, 1988

Claim No. CHIP1
Section No.: Line 28+00 East, Chip Group

Logged By: David P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test for mineralization dyked out by the Anita Gabbro.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
185.00	210.0	-51.0	297.80	210.0	-49.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	5.1	OVERBURDEN											
5.1	14.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variably chloritic tuff with 5 to 12 %, up to 1.5 mm, quartz eyes and 15 to 25 %, 1 to 2 mm, feldspars and epidotized feldspars. Chlorite is nil to 15 %, averages 10 %. Is sericitic from 10.3 to 11.0 with up to 5 %, 3 to 4 mm, quartz eyes. There is trace disseminated fine-grained pyrite cubes and weak local fracture controlled carbonatization. There is a quartz vein from 5.8 to 6.2. Is locally contorted by folds. 5.1 14.2 MODERATE SPOTTY CHLORITIZATION. Foliations. 9.0 : 28 degrees to core axis. 10.5 : 48 degrees to core axis. 11.6 : 38 degrees to core axis.	VA01039	5.1	14.2	9.1	n/a	41	n/a	95	n/a	n/a	903
14.2	15.2	INTERMEDIATE QUARTZ EYE TUFF Dark green chloritic tuff with 3 to 5 %, 2 to 4 mm, quartz eyes. There is medium fracture controlled carbonatization. There are minor local faults and folds at numerous orientations. There are trace 1 to 3 mm pyrite cubes. Foliation trend is at approximately 30 degrees to core axis	VA01040	15.0	35.0	20.0	n/a	24	n/a	16	n/a	n/a	997
15.2	58.7	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variably chloritic felsic tuff with 10 to 25 % quartz and feldspar crystals and local mafic tuff beds. 15.2 58.7 MODERATE SPOTTY CHLORITIZATION. 15.2 17.4 Weakly chloritic with trace 3 mm quartz eyes and 10 to 15 %, 1 mm, feldspars. There is trace to	VA01041	35.0	55.0	20.0	n/a	27	n/a	34	n/a	n/a	1160
			VA01609	35.4	36.0	.6	1	27	<5	93	<1	<5	1200
			VA01610	40.7	41.0	.3	1	85	<5	127	<1	<5	1400

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-45 Page Number 2

From (m)	To (m)	DESCRIPTION
		0.5 % fine-grained disseminated pyrite. Foliation is at 37 degrees to core axis.
17.4	18.5	Similiar to 15.2 to 17.4 in crystal content, but is dark green with approximately 25 % chlorite. There are minor quartz - calcite veinlets.
18.5	20.8	Sericitic with weak local chloritization, has 3 %, 3 mm, quartz eyes and 5 to 10 %, < 1 mm, feldspar and quartz grains. Foliation is at 28 degrees to core axis.
20.8	21.2	Thin 2 to 5 cm alternating mafic and felsic tuff beds with bedding at 33 degrees to core axis.
21.2	21.4	Quartz - chlorite vein with trace 1 to 3 mm chalcopyrite blebs.
21.4	21.9	Sheared mafic tuff with strong pervasive carbonatization. Foliation at 36 degrees to core axis.
21.9	27.7	Strongly chloritic felsic tuff with on average 10 %, 2 mm, quartz eyes and 10 %, 1 mm, feldspars. Medium green to black with 15 to 30 % chlorite. Foliation is at 41 degrees to core axis. There is local weak pervasive carbonatization.
27.7	29.6	Dark green to light black massive siliceous felsic with trace pyrite cubes and on average 5 %, 3 to 5 mm, quartz eyes and 15 to 20 %, 2 to 3 mm, feldspars. There is minor quartz veins and no foliation.
29.6	30.5	Rusty blocky, highly fractured core. Quartz - feldspar crystal felsic tuff, sericitic not chloritic.
30.5	31.2	0.2 m lost core.
30.5	31.2	Quartz - chlorite - calcite vein.
31.2	32.2	Similiar to 27.7 to 29.6, but is foliated as from 29.6 to 30.5 at 36 degrees to core axis.
32.2	35.4	Chloritic tuff with 5 %, 1 to 2 mm, quartz eyes and 10 to 20 %, < 1 mm crystals. There is nil carbonatization, except as 3 to 5 mm veinlets parallel to foliation. There is on average 15 to 20 % chlorite, with local nil. There is trace fine-grained disseminated pyrite. Dark to medium light green in colour. Weakly contorted with foliation from 30 to 50 degrees to core axis, average from 35 to 45 degrees to core axis.
35.4	36.0	Mafic with strong carbonate bands parallel to foliation. Lower contact at 31 degrees to core axis and upper contact at 37 degrees to core axis. Is locally contorted with trace disseminated 3 to 5 mm pyrite cubes.
36.0	37.7	Very sericitic tuff with 2 to 3 %, 5 mm, quartz eyes. Foliation at approximately 20 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	37.7 37.8	Mafic tuff bedding with strong pervasive carbonatization as bands.											
	37.8 38.6	Weakly chloritic felsic tuff with trace disseminated pyrite, weak pervasive carbonatization and 5 to 7 %, 2 to 3 mm, quartz eyes.											
	38.6 38.8	Sheared mafic at 53 degrees to core axis with 1 % carbonatization and 1 % pyrite in streaks parallel to foliation.											
	38.8 38.9	Sericitic felsic tuff with 5 %, 1 to 3 mm, quartz eyes and, 15 %, < 1 mm feldspar grains.											
	38.9 39.0	Same as 38.6 to 38.9.											
	39.0 40.7	Similiar to 38.8 to 38.9 with minor 5 cm mafic and medium chlorite from 40.2 to 40.7, after the mafic. Foliation is at 52 degrees to core axis.											
	40.7 41.0	Dark black to green chlorite with 10 % calcite bands and 0.5 % pyrite. 45 degrees to core axis.											
	41.0 45.2	Contorted tuff with 10 to 15 % contorted white quartz - k feldspar veins in chloritic tuff with 20 %, 1 to 3 mm, feldspars and approximately 5 %, 2 mm, quartz eyes.											
	45.2 58.7	Weakly chloritic tuff with minor chlorite - carbonate mafics with 0.5 % pyrite from 48.5 to 48.6, 49.6 to 49.7, 50.3 to 50.4, 51.5 to 51.9 and from 56.2 to 56.4. Is locally sericitic with no chlorite, chlorite averages approximately 3 %. There is on average 5 %, 1 to 3 mm, quartz eyes and 10 %, up to 1 mm, feldspars. Foliation averages 50 degrees to core axis. There is trace fine-grained disseminated pyrite locally. At 56.5 there is a ash tuff bedding or lapilli at 44 degrees to core axis. There is trace mariposite (?) at 57.4.											
58.7	63.4	FELSIC QUARTZ EYE TUFF Siliceous light grey felsic tuff with 10 %, 1 to 2 mm, quartz eyes in a fine-grained matrix. There are numerous fracture controlled 1 to 2 cm quartz veins at 70 to 85 degrees to core axis. There is trace to nil disseminated pyrite. Is weakly contorted. Foliations. 59.0 : 62 degrees to core axis. 63.2 : 39 degrees to core axis.	VA01042	60.0	63.0	3.0	n/a	31	n/a	16	n/a	n/a	1360
63.4	94.9	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Locally weakly chloritic felsic tuff with quartz and feldspar crystals. There are local mafic tuff beds. 63.4 94.9 WEAK SPOTTY CHLORITIZATION.	VA01043 VA01044	65.0 85.0	85.0 105.0	20.0 20.0	n/a n/a	<10 22	n/a n/a	<10 20	n/a n/a	n/a n/a	992 1290

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-45 Page Number 4

From (m)	To (m)	----------DESCRIPTION----------
	63.4 63.5	Carbonatized sheared mafic with 9 cm of white quartz vein and trace pyrite.
	63.5 66.4	Weakly chloritic with 3 to 5 % chlorite, hosts 5 %, 2 to 5 mm, and 10 %, up to 1.5 mm, quartz eyes and approximately 10 % up to 1 mm feldspars. There is a white quartz - (chlorite) vein from 64.8 to 64.9. Foliation varies and trends at 45 degrees to core axis.
	66.4 67.5	Same as from 58.7 to 63.4.
	67.5 67.6	Carbonatized mafic chlorite shear at 44 degrees to core axis.
	67.6 67.8	As from 66.4 to 67.5.
	67.8 67.9	As from 63.5 to 66.4.
	67.9 68.4	Carbonatized mafic with approximately 1 % pyrite at 36 degrees to core axis.
	68.4 77.8	Schistose tuff with 5 to 7 %, 1 to 3 mm, quartz eyes and 10 to 15 %, up to 1 mm, feldspar grains. Is variably weakly chloritic with up to 7 % chlorite. There are 1 mm parallel to foliation pyrite bands at 72.5, 72.6, and 73.8. There is trace to nil disseminated pyrite. Foliation is at 41 to 50 degrees to core axis locally.
	77.8 78.1	Carbonatized mafic at 47 degrees to core axis with trace to 0.5 % pyrite cubes.
	78.1 93.0	5 cm to 2 m beds of weakly chloritic tuff and sericitic. Sericitic tuff is approximately 15 % and may locally be lapilli as bands are not continuous. There are 10 %, 1 to 4 mm, average 2 mm, quartz eyes and 10 % up to 1 mm feldspar and epidote grains. There is a 7 mm epidote knot at 87.5. There is a mafic from 90.8 to 91.1 as before. There are minor fault zones at 90 degrees to core axis. Foliation and bedding are sub-parallel at 50 degrees to core axis. 85.0 86.5 0.3 m lost core.
	85.7 86.3	Blocky, highly fractured core with hematite on fractures.
	93.0 94.9	MODERATE PERVASIVE SILICIFICATION along selective beds in chloritic felsic tuff with crystal content similiar to 78.1 to 93.0. Foliation is at 35 to 62 degrees to core axis, rough trend at 50 degrees to core axis. Bedding is parallel to to foliation and is locally contorted.
	94.0 94.5	0.2 m lost core with 3.5 cm fault gouge and minor fracture controlled hematite.
94.9	97.7	CHLORITE SCHIST Blocky, highly fractured core. Mafic ash tuff (?). Strong

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		foliation at 52 to 55 degrees to core axis with weak cross-cut foliation at 31 degrees to core axis. There is minor quartz - calcite veins parallel to strong foliation. There is trace to nil pyrite cubes, up to 4 mm. There is minor felsic tuff from 95.9 to 96.1. 94.9 97.7 STRONG PERVASIVE CARBONATIZATION.											
97.7	98.7	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Felsic tuff with 15 % quartz and feldspar crystals, up to 1.5 mm. Foliation at 55 degrees to core axis.											
98.7	102.3	CHLORITE SCHIST Dark green to black chlorite with calcite streaks (10 %) and 5 % quartz - calcite veins with trace pyrite. Is contorted with foliation trend at 55 degrees to core axis. There are minor pyrite cubes, up to 6 mm, trace, throughout. Is strongly magnetic. 98.7 102.3 STRONG PERVASIVE CARBONATIZATION.											
102.3	152.4	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF Weakly chloritic felsic tuff with 3 to 10 % chlorite, averages 5 %. There are local sericitic tuff lapilli or beds with similiar crystal contents to the chloritic tuff. Colour varies from medium green to light grey. There are 5 to 10 %, 1 to 3 mm, quartz eyes and up to 20 %, average 5 to 10 %, 1 to 2 mm, feldspar grains and laths. There are local quartz veins, fracture controlled, and parallel to foliation, up to 2 cm thick. There are minor chlorite - calcite schists, mafic tuffs (?), from 136.4 to 137.5, 142.7 to 143.8 and from 147.3 to 148.1. There is trace to nil disseminated and fracture controlled pyrite. Mafics are locally weakly magnetic. 102.3 152.4 WEAK PERVASIVE CHLORITIZATION. Structure :. Bedding :. 110.0 : 58 degrees to core axis. 122.6 : 56 degrees to core axis. 131.9 : 55 degrees to core axis. Foliations :. 115.3 : 52 degrees to core axis. 125.3 : 49 degrees to core axis. 138.8 : 44 degrees to core axis. 140.4 : 34 degrees to core axis. 149.7 : 50 degrees to core axis, locally contorted. Faults :. 134.9 : 45 degrees to core axis, 2 to 4 mm fault gouge. 119.2 120.0 (?) degrees to core axis, 0.3 m lost core. 152.4 Lower contact blocky, highly fractured core and	VA01045 VA01046	105.0 125.0	125.0 150.0	20.0 25.0	n/a n/a	15 30	n/a n/a	27 29	n/a n/a	n/a n/a	1030 1190

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		minor fault gouge.											
152.4	172.5	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF May be andesitic, not mafic as from 154.4 there is minor sericite and 3 to 7 %, 1 to 2 mm, quartz eyes and 5 to 10 %, 1 mm, feldspar grains. There is strong black chlorite with moderate pervasive carbonatization from 152.4 to 154.4. Foliation varies locally from 54 to 0 degrees to core axis. Is blocky, highly fractured core or disky. Carbonatization is pervasive as streaks parallel to foliation. There are minor quartz - calcite veins. Very chloritic zone is locally weakly magnetic, other part isn't. Lost core :. 152.2 152.7 0.2 m lost core. 152.7 153.8 0.4 m lost core. 155.0 156.5 0.3 m lost core. 164.6 165.2 0.2 m lost core. Alteration :. 152.4 172.5 WEAK PERVASIVE CARBONATIZATION. 152.4 172.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION. Foliations :. 157.9 : 37 degrees to core axis. 166.1 : 41 degrees to core axis. 171.8 : 45 degrees to core axis. There are minor kinks throughout.	VA01047	160.0	170.0	10.0	n/a	34	n/a	58	n/a	n/a	702
172.5	175.8	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF Massive dark green siliceous tuff with 5 to 7 %, 1 to 3.5 mm, quartz eyes and 10 to 20 %, 1 to 2 mm, feldspar grains. There are local chlorite lapilli, 1 to 5 mm thick and core width long. Cross-cut by numerous < 1 to 7 cm quartz - feldspar veins. There is trace disseminated pyrite in the veins and tuff, up to 3 mm cubes. There is 0.4 m of lost core from 174.0 to 175.3. There is on average approximately 20 % chlorite in the tuff. 172.5 175.8 MODERATE PERVASIVE CHLORITIZATION. Foliations :. 173.5 : 43 degrees to core axis. 175.6 : 55 degrees to core axis.											
175.8	180.4	WEAKLY CHLORITIC FELSIC TUFF Blocky, highly fractured core. Lost core of 0.7 m from 176.0 to 177.1, 0.3 m from 177.7 to 178.6 and 0.4 m from 178.6 to 180.1. There is minor intercalated mafic ash tuff. Felsic tuff is chloritic with approximately 10 %, 2 to 4 mm, quartz eyes and 15 %, 2 mm, feldspar crystals. There are minor drag folds and boudinaged quartz -											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		feldspar veins. There is a rough foliation trend at 40 degrees to core axis.											
180.4	185.6	FELSIC QUARTZ EYE TUFF Sericitic felsic tuff with up to 10 %, up to 6 mm, average 7 % 4 mm, quartz eyes. There are 10 to 15 %, 1 or 3 mm, feldspars. Is light green - grey or bleached white, colour varies locally. There are minor faults or crenulations at 30 degrees to core axis that cross-cut the foliation at 46 degrees to core axis. There are very minor fault slips parallel to foliation locally.	VA01048	180.4	185.6	5.2	n/a	14	n/a	46	n/a	n/a	825
185.6	186.3	CHLORITE SCHIST Strongly magnetic black to dark green chlorite schist with minor local fracture controlled hematite, numerous fracture controlled quartz - feldspar veins and strong fracture controlled carbonatization. There is trace fracture controlled pyrite. Upper contact is sharp at 30 degrees to core axis and lower contact is at a fault slip at 37 degrees to core axis. There is 10 cm of chloritic felsic tuff at 186.0 parallel to foliation.	VA01611	185.6	186.3	.7	1	23	<5	130	<1	<5	1300
186.3	196.3	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light grey felsic tuff with 7 %, 1 to 3 mm, quartz eyes and 15 %, 1 mm, sausuritized feldspar grains. There is weak fracture controlled silicification, tuff is moderately schistose. There are local quartz - (yellow feldspar) veins parallel to to foliation. There are local beds with bedding at 46 degrees to core axis at 192.8. Foliation is at 45 to 50 degrees to core axis. At 195.9 there is trace pyrite in chlorite parallel to bedding.	VA01049	187.0	196.0	9.0	n/a	17	n/a	47	n/a	n/a	734
196.3	202.4	FAULT ZONE Chloritic felsic tuff and sericitic felsic tuff in fault breccia or lapilli tuff. From 199.2 to 202.4 there is blocky, highly fractured core. There is 2.4 m of lost core from 199.6 to 202.4. There are minor faults that cross-cut. There is minor local 2 in the blocky, highly fractured core. Approximately 50 to 55 degrees to core axis.											
202.4	218.6	FELSIC FELDSPAR CRYSTAL TUFF Variable felsic tuff with local quartz eyes and on average 15 %, 1 to 2 mm, feldspar crystals. 202.4 203.9 White to light grey sericitic tuff with 10 %,	VA01612 VA01050	202.4 205.0	203.9 215.0	1.5 10.0	3 n/a	1522 44	304 n/a	1044 310	2 n/a	17 n/a	1100 886

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		1 to 2 mm, and 5 % up to 1 mm feldspars. There is approximately 1 % fine-grained disseminated pyrite. There is 1 % 1 to 3 mm pyrite bands parallel to foliation and minor chalcopyrite at 203.0. There is 4 cm of 7 to 10 % chalcopyrite with pyrite at 203.55. Foliation is at 40 degrees to core axis.											
	203.9 208.8	Medium to light grey - green sericitic with trace to 2 %, 1 to 3 mm, quartz eyes and 15 %, 1 to 2 mm, feldspars. There is trace very fine-grained disseminated pyrite. Minor pyrite stringer at 204.8. Foliation is at 40 to 55 degrees to core axis locally.											
	208.8 218.6	MODERATE SPOTTY SILICIFICATION.											
	208.8 218.6	Similiar to 203.9 to 208.8 with silicification of lapilli or spotty silicification. There is fault gouge with at 75 degrees to core axis and minor local mafic ash tuffs with associated strong pervasive carbonatization. There is blocky, highly fractured core from 215.5 to 218.6.											
		Lost core :. 204.0 205.0 0.2 m. 210.3 212.0 0.6 m. 215.0 217.0 0.7 m. 217.0 218.1 0.5 m.											
218.6	219.0	CHLORITE SCHIST Dark green chloritic mafic ash tuff, strongly magnetic with 2 to 3 % magnetite. There is 5 % calcite with minor quartz and trace to 1 % pyrite. Is very contorted with foliation from 0 to 40 degrees to core axis.											
219.0	222.5	FAULT ZONE Blocky, highly fractured core and fault gouge. Units present are WEAKLY CHLORITIC FELSIC TUFF and local 2. There is one 20 cm quartz vein. Foliation is at 30 degrees to core axis and fault gouge is at 70 degrees to core axis.											
222.5	250.5	FELDSPAR PORPHYRITIC FELSIC FLOW Chloritic felsic flow with 12 to 20 %, average 15 %, 3 to 7 mm, average 5 mm feldspar crystals or weakly chloritic felsic tuff with numerous 5 to 15 cm quartz - feldspar veins. There is strong pervasive spotty silicification or selective alteration of lapilli. There is trace local disseminated pyrite. There is local medium fracture controlled carbonatization with trace associated pyrite.	VA01051 VA01052	225.0 240.0	240.0 250.0	15.0 10.0	n/a n/a	29 25	n/a n/a	71 99	n/a n/a	n/a n/a	681 992

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		There is trace local weak thermal biotite. Is dominantly massive siliceous medium to light grey - green rock. Near upper contact chlorite is interstitial to silicification and flow appears to have siliceous lapilli in chloritic matrix. There is strong kinking above lower contact. Over the last 8 m there is minor fault gouge and carbonate veinlets at 60 to 80 degrees to core axis. There is minor dark chlorite and carbonatization at a fault at 241.5. Alteration :. 222.5 250.5 STRONG SPOTTY SILICIFICATION. 222.5 250.5 WEAK FRACTURE CONTROLLED CARBONATIZATION. Foliations :. 222.5 : 36 degrees to core axis. 223.7 : 46 degrees to core axis. 224.5 : 51 degrees to core axis. 227.8 : 62 degrees to core axis. 232.4 : 46 degrees to core axis. 236.2 : 63 degrees to core axis. 244.0 : 67 degrees to core axis, parallel to fault slip with 1 mm fault gouge. 247.0 250.5 Strong kinks with minor mafics, in 15 cm from 250.25 to 250.40 goes from 70 degrees to core axis to 0 degrees to core axis to 70 degrees to core axis in the other direction. Lost core :. 233.3 234.1 0.3 m. 239.0 240.0 0.3 m. 240.0 240.8 0.3 m. 240.8 242.0 0.5 m.											
250.5	251.2	CHLORITE SCHIST Dark green to black chlorite schist with strong pervasive carbonatization as white calcite streaks and 5 % brown, < 1 mm, carbonate specks. Contorted with minor faults and foliation trend at approximately 60 degrees to core axis. 250.5 251.2 STRONG PERVASIVE CARBONATIZATION.											
251.2	251.7	FELSIC QUARTZ EYE TUFF Siliceous light green schist with strong to moderate kinking and trace disseminated pyrite. There are minor fracture controlled quartz - calcite veinlets. There are up to 2 %, 2 mm, quartz eyes. Foliation trends at 66 degrees to core axis.											
251.7	252.3	CHLORITE SCHIST Very similiar to 250.5 to 251.2 with slightly lighter green. There is felsic dyke or block from 251.9 to 252.0. As above is not magnetic.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-45

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
252.3	268.5	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Siliceous contorted tuff, light to medium green to grey, with trace to 15 % crystals, averages 5 %, 3 to 5 mm, feldspars and 1 to 2 %, 3 mm, quartz eyes. There is trace to 0.5 % disseminated pyrite locally. Is darker over last 2 m. There are numerous fracture controlled quartz - calcite veinlets and there is moderate to strong pervasive carbonatization. Is kinked throughout with trends at 0 and 60 degrees to core axis. Alteration :. 252.3 268.5 STRONG PERVASIVE CARBONATIZATION.	VA01053	255.0	265.0	10.0	n/a	22	n/a	80	n/a	n/a	939
268.5	270.3	CHLORITE SCHIST Argillic sediments or mafic ash tuff with strong pervasive carbonatization parallel to foliation. Is black chlorite with 20 % calcite. From 269.0 to 269.3 there is a felsic with 0.5 % fine-grained disseminated pyrite, similiar to mafic pyrite quantity. Upper contact at fault at 31 degrees to core axis and lower contact at fault at 63 degrees to core axis. Is very strongly contorted with numerous folds and micro-faults. Foliation trend at 56 degrees to core axis.												
270.3	287.8	MAFIC LAPILLI TUFF Mafic lapilli tuff with siliceous bleached felsic crystal tuff from 270.3 to 271.0, 272.3 to 275.2 and 283.8 to 285.0. The felsic tuff may be a strongly bleached lapilli poor zone of the mafic. The mafic is medium green with 20 %, 2 to 3 mm, epidote crystals and 10 % epidotized lapilli. There is strong pervasive carbonatization throughout both the felsic and mafics. From 271.5 to 272.2 there is strong fracture controlled silicification in a bleached and carbonatized mafic with 2 to 3 % pyrite. Rock is massive with minor fault slips and very weak foliation trend at 60 degrees to core axis. Alteration :. 270.3 287.8 STRONG PERVASIVE CARBONATIZATION. 271.5 272.2 STRONG FRACTURE CONTROLLED SILICIFICATION. Sulphides :. 270.3 271.4 2 % fine-grained disseminated pyrite concentrated in zones parallel to the contorted foliation. 271.4 272.3 Trace to 1 % disseminated pyrite in massive mafic lapilli tuff. 272.3 277.2 On average 3 % disseminated and fracture controlled pyrite in bleached carbonatized tuff 277.2 279.2 Trace to 1 % pyrite.	VA01613	270.3	271.4	1.1	2	31	6	99	<1	5	990
			VA01614	271.4	272.3	.9	1	133	<5	140	<1	5	650
			VA01054	272.0	287.0	15.0	n/a	20	n/a	98	n/a	n/a	850
			VA01615	272.3	273.3	1.0	3	13	<5	22	<1	<5	1500
			VA01616	273.3	274.3	1.0	3	13	<5	15	<1	<5	1300
			VA01617	274.3	275.3	1.0	3	10	5	35	<1	<5	1300
			VA01618	275.3	276.3	1.0	3	10	9	46	<1	<5	1500
			VA01619	276.3	277.2	.9	3	22	<5	27	<1	<5	1100
			VA01620	277.2	278.2	1.0	1	116	<5	207	<1	<5	100
			VA01621	278.2	279.2	1.0	1	62	<5	143	<1	<5	470
			VA01622	279.2	280.2	1.0	3	121	<5	153	<1	<5	530
			VA01623	280.2	280.8	.6	7	146	<5	151	1	<5	700
			VA01624	280.8	281.8	1.0	3	122	<5	204	<1	9	430
			VA01625	281.8	282.8	1.0	3	90	<5	186	<1	<5	250
			VA01626	282.8	283.8	1.0	3	130	<5	166	<1	<5	230
			VA01627	283.8	284.8	1.0	3	11	<5	45	<1	<5	1000
			VA01628	284.8	285.8	1.0	3	32	<5	52	<1	<5	1300
			VA01629	285.8	286.8	1.0	3	34	<5	42	<1	<5	1100
			VA01630	286.8	287.8	1.0	3	36	<5	88	<1	<5	890

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		279.2 280.5 2 % fine-grained disseminated and 1 % fracture controlled in epidote lapilli. 280.5 280.7 15 to 17 % pyrite in fracture controlled carbonatization. 280.7 287.8 Approximately 2 to 3 % disseminated and fracture controlled pyrite with minor 1 cm pyrite blebs. Pyrite is concentrated on epidotized lapilli.											
287.8	298.7	FAULT ZONE Blocky, highly fractured core and fault gouge. Core is mafic to 291.1, felsic from 291.1 to 297.8 and mafic as below lower contact to the lower contact. Strong fault gouge at 65 degrees to core axis to 289.0 with very strong local hematite. There are slips at 15 degrees to core axis within the fault zone. Lost core :. 288.0 289.9 0.2 m. 290.0 291.1 0.7 m. 291.1 292.3 0.4 m. 293.5 294.7 0.3 m. 294.7 296.0 0.9 m. 296.0 297.8 0.7 m.											
298.7	300.0	CHLORITE SCHIST Dark green to black non-magnetic chlorite schist with 10 %, < 1 mm, carbonate specks and minor fracture controlled quartz, calcite and chlorite veins. Schistosity is at 51 degrees to core axis.											
300.0	309.6	CHLORITIC FELSIC QUARTZ EYE TUFF Dark green tuff with on average 5 %, 3 mm, quartz eyes. There are 10 %, 2 mm, feldspar and epidote grains. There is 5 to 15 % chloritization and minor biotite. There are local quartz veins that cross-cut the foliation. There is cleavage at 30 degrees to core axis and foliation at 40 and 60 degrees to core axis. 300.0 309.6 MODERATE PERVASIVE CHLORITIZATION.	VA01055	300.0	309.6	9.6	n/a	40	n/a	72	n/a	n/a	663
309.6	313.2	FELSIC QUARTZ EYE TUFF Sericitic medium grey felsic tuff with 5 to 7 %, up to 7 mm, average 3 mm, quartz eyes. There are minor fracture controlled quartz - calcite veinlets. Foliation varies from 34 to 50 degrees to core axis from upper contact to lower contact.	VA01056	309.6	313.2	3.6	n/a	16	n/a	54	n/a	n/a	986

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-45

From (m)	To (m)	DESCRIPTION
313.2	323.7	WEAKLY CHLORITIC FELSIC TUFF Weakly chloritic felsic tuff. Is siliceous and has well developed foliation. Has a glassy appearance from 320.7 to 323.7 and is probably a 9 with associated silicification from approximately 318 to 320.7. There is minor fracture controlled quartz - carbonate veins at approximately 0 to 30 degrees to core axis. There is approximately 10 to 15 % mixed feldspars and quartz eyes, 1 to 4 mm. In the dyke (?) there are 10 %, 4 mm, feldspars. Foliation is at 46 degrees to core axis. There is trace pyrite. 313.2 323.7 WEAK PERVASIVE CHLORITIZATION.
323.7	325.4	CHLORITIC FELSIC QUARTZ EYE TUFF Dark green siliceous schist with 3 or 4 to 1 sericite to chlorite ratio. Core is disky with foliation at 60 degrees to core axis. 323.7 325.4 MODERATE PERVASIVE CHLORITIZATION.
325.4	338.7	WEAKLY CHLORITIC FELSIC TUFF Medium to light grey green silicified felsic tuff with local weak chloritization. There are numerous silicified beds and minor siliceous ash tuff beds. There is strong chloritization or mafic tuffs, chloritic schists between 330.4 and 334.4. On average there is 15 %, 1 to 2 mm, quartz, feldspar, and epidote crystals. There is weak to moderate thermal biotite. From 332.0 to 333.5 there is 0.7 m of lost core. There is trace local pyrite in the more chloritic zones. Bedding :. 327.5 : 34 degrees to core axis. 331.4 : 59 degrees to core axis. 337.2 : 49 degrees to core axis. Foliations :. 330.0 : 40 degrees to core axis. 337.3 : 44 degrees to core axis. Alteration :. 325.4 338.7 STRONG FRACTURE CONTROLLED SILICIFICATION. 330.4 334.4 MODERATE PERVASIVE CHLORITIZATION. 338.6 338.7 STRONG PERVASIVE SILICIFICATION , very strongly silicified lower contact.
338.7	345.2	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Andesitic to rhyo-dacitic (?) tuffaceous material mixed with chert. Unit is green with local rainbow colouring. There is local biotite rich zones and minor biotite in quartz veins. The are minor slumps and local faults. The unit may be a debris flow. Foliation and bedding average

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01057	314.0	338.0	24.0	n/a	25	n/a	66	n/a	n/a	966

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		about 60 degrees to core axis.											
345.2	350.7	MAFIC INTRUSIVE Mafic sill (?) with sharp contacts parallel to foliation. Is not magnetic. There are numerous quartz, calcite and epidote veins and veinlets at all orientations. Is blocky, highly fractured core with 0.2 m lost core from 346.6 to 347.5 and 0.2 m from 349.0 to 350.0. There is moderate fracture controlled and pervasive carbonatization. Alteration :. 345.2 350.7 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 345.2 350.7 WEAK PERVASIVE CARBONATIZATION.	VA01058	350.5	358.8	8.3	n/a	78	n/a	323	n/a	n/a	1930
			VA01631	350.5	352.0	1.5	1	53	73	464	<1	15	1800
350.7	358.8	FELSIC TUFF Siliceous light grey felsic ash tuff with trace to 1 %, up to 3 mm, average 1.5 mm, quartz eyes and trace to 5 %, 1 mm, feldspar crystals. Pyrite is fine-grained and disseminated with minor concentrations in less siliceous beds. There is minor thermal biotite for approximately 50 cm at 355.4. There is weak fracture controlled carbonatization below the thermal biotite and moderate fracture controlled silicification throughout. Pyrite averages 1 %. There is a 10 cm quartz vein 2 cm above the lower contact, which has been disrupted by cross- faults. Bedding :. 350.6 : 50 degrees to core axis. 351.8 : 52 degrees to core axis. 358.6 : 69 degrees to core axis. Foliations :. 351.9 : 52 degrees to core axis. 357.2 : 42 degrees to core axis. Alteration :. 350.7 358.8 MODERATE FRACTURE CONTROLLED SILICIFICATION. 356.0 358.8 WEAK FRACTURE CONTROLLED CARBONATIZATION.	VA01632	352.1	354.0	1.9	1	81	23	89	<1	19	1600
			VA01633	354.0	355.5	1.5	1	163	17	59	<1	18	1100
			VA01634	355.5	357.0	1.5	1	40	11	51	<1	15	1600
			VA01635	357.0	358.8	1.8	1	55	18	297	<1	<5	2000
358.8	374.0	CHERTY FELSIC TUFF / TUFFITE Felsic crystal lapilli tuff with minor cherty and sediment beddings. There is also mafic ash tuff or sills from 365.1 to 367.3, and 367.6 to 369.5. There is minor thermal biotite in local beds. The lapilli are mainly 1 to 3 cm epidote clasts. Is rainbow hued with red, green, yellow and white beds, < 1 to 3 cm thick. There are numerous quartz eyes, 5 to 7 %, 1 to 2 mm, and locally up to 5 %, 1 mm, feldspar grains. There is 2 to 3 % pyrite in beds of cubes, up to 4 mm, and fine-grained pyrite and locally there is disseminated pyrite. Pyrite beds average 5 mm thick and occur on average 30 cm apart. There are more above the mafic. The mafic has trace to 1 % pyrite cubes,	VA01636	358.8	360.0	1.2	3	120	14	113	1	114	4000
			VA01637	360.0	361.0	1.0	3	340	109	549	38	718	14000
			VA01638	361.0	362.0	1.0	5	240	114	269	6	373	12000
			VA01639	362.0	363.0	1.0	2	219	6	131	1	27	1800
			VA01640	363.0	364.0	1.0	2	253	28	196	3	126	5000
			VA01641	364.0	365.0	1.0	3	350	270	670	4	131	5300
			VA01642	365.0	366.1	1.1	4	530	50	207	2	61	3900
			VA01643	369.0	370.0	1.0	2	114	60	129	<1	14	5000
			VA01059	370.0	382.0	12.0	n/a	129	n/a	507	n/a	n/a	2290
			VA01644	370.0	371.5	1.5	4	144	16	77	1	<5	2200
			VA01645	371.5	373.0	1.5	3	165	20	211	1	23	1500
			VA01646	373.0	374.5	1.5	2	135	26	125	1	21	1500

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		up to 3 mm. Bedding :. 364.2 : 31 degrees to core axis. 364.6 : 53 degrees to core axis. 369.8 : 57 degrees to core axis. Foliations :. 370.2 : 66 degrees to core axis. 372.7 : 50 degrees to core axis. Faults :. 362.0 and 363.3 with 0.5 cm fault gouge at 65 degrees to core axis.											
374.0	382.3	FELSIC QUARTZ EYE LAPILLI TUFF Light grey siliceous tuff with siliceous and chloritic lapilli. There are 5 to 10 %, average 7 %, 1 to 7 mm, average 3 mm, quartz eyes. Feldspars and epidotized feldspars occur very locally. There is approximately 1 % disseminated pyrite, fine-grained. There are fracture controlled quartz - calcite veinlets at orientations of 0 to 90 degrees to core axis. Minor local fault slips occur parallel to foliation. Foliations :. 377.0 : 59 degrees to core axis. 381.4 : 66 degrees to core axis.	VA01647 VA01648 VA01649 VA01650	374.5 376.0 378.0 380.0	376.0 378.0 380.0 382.3	1.5 2.0 2.0 2.3	2 2 2 2	65 96 170 93	28 20 <5 7	108 2734 3200 397	1 1 1 <1	22 18 19 14	1800 2400 2900 2700
382.3	439.5	FELDSPAR PORPHYRITIC GABBRO Anita Gabbro. 382.3 384.8 Sheared and fine-grained contact. 384.8 439.5 Is medium to fine-grained with trace to 20 %, 1 to 4 mm, feldspar laths in a chloritic matrix with 1 to 3 %, < 1 mm to 2 mm ilmenite grains. There are numerous, quartz, chlorite carbonatization and epidote veins, +/- each other at all orientation. No sulphides were observed. Is massive and blocky with no foliation. 439.5 End of hole, 1442 feet on Thursday April 28, 1988 at approximately 1:30 p.m.. Lack of tests due to broken Sperry-Sun and unavailibity of acid tests. Total lost core : 13.7 m % Recovery = 96.9.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00575	9.10	9.20	67.40	13.80	4.05	0.98	3.12	2.41	2.88	0.28	0.07	0.09	3.93	99.01	943.	32.	7.
VA00576	22.70	22.80	44.10	15.20	10.70	5.42	2.51	1.23	7.53	0.80	0.20	0.27	10.20	98.16	444.	33.	13.
VA00577	28.30	28.40	70.80	13.80	1.61	0.62	4.93	2.21	2.02	0.28	0.07	0.04	2.47	98.85	1070.	30.	7.
VA00578	41.40	41.50	69.00	13.20	2.71	1.04	4.61	2.95	2.15	0.23	0.06	0.07	2.62	98.64	1350.	35.	7.
VA00579	53.60	53.70	72.20	10.80	4.42	0.73	2.43	2.48	1.06	0.19	0.05	0.08	4.08	98.52	1010.	32.	7.
VA00580	59.10	59.20	75.10	12.90	1.29	0.39	4.41	2.44	1.03	0.13	0.04	0.03	1.62	99.38	876.	33.	6.
VA00581	68.30	68.40	56.80	15.70	6.05	1.76	3.00	2.59	7.05	0.26	0.22	0.17	6.23	99.83	698.	32.	9.
VA00582	75.70	75.80	69.50	13.00	3.94	0.54	2.71	2.93	1.68	0.22	0.06	0.07	4.39	99.04	945.	34.	7.
VA00583	86.50	86.60	72.60	12.20	3.17	0.84	1.88	2.46	2.43	0.21	0.05	0.07	2.54	98.45	1120.	40.	5.
VA00584	97.00	97.10	45.10	14.70	6.25	8.65	2.81	0.23	10.50	0.66	0.11	0.24	9.08	98.33	82.	50.	9.
VA00585	103.40	103.50	71.00	13.20	2.61	1.36	2.71	2.69	2.09	0.23	0.06	0.08	3.23	99.26	873.	43.	5.
VA00586	111.20	111.30	73.30	13.60	1.48	1.15	4.82	1.50	2.33	0.24	0.06	0.07	1.77	100.32	641.	30.	6.
VA00587	122.10	122.20	74.50	12.30	2.58	0.95	2.73	2.46	1.63	0.20	0.05	0.08	3.08	100.56	941.	39.	5.
VA00588	132.10	132.20	70.30	12.80	3.46	1.16	1.87	3.19	1.56	0.22	0.06	0.08	4.23	98.93	1070.	45.	5.
VA00589	141.20	141.30	67.20	14.20	4.50	0.96	1.94	3.24	1.51	0.23	0.06	0.11	5.39	99.34	1060.	39.	6.
VA00590	150.90	151.00	69.60	15.60	1.29	1.13	1.81	3.97	2.09	0.27	0.06	0.04	3.16	99.02	1280.	62.	3.
VA00591	157.10	157.20	62.20	13.20	2.93	4.50	2.56	2.39	4.24	0.33	0.07	0.11	6.47	99.00	648.	56.	5.
VA00592	171.10	171.20	64.30	13.30	3.05	2.88	3.99	1.86	4.45	0.31	0.07	0.08	5.39	99.68	720.	40.	7.
VA00593	174.10	174.20	65.40	14.20	1.46	3.56	3.89	1.64	4.50	0.36	0.07	0.08	3.70	98.86	665.	49.	5.
VA00594	185.40	185.50	73.10	13.10	1.91	0.87	3.62	2.39	1.90	0.23	0.06	0.06	3.16	100.40	879.	37.	6.
VA00595	194.20	194.30	71.80	14.00	1.21	0.47	5.03	2.20	1.90	0.24	0.06	0.05	2.16	99.12	954.	30.	6.
VA00596	212.60	212.70	69.40	12.30	2.75	1.41	4.34	1.64	2.52	0.22	0.06	0.14	4.23	99.01	656.	30.	7.
VA00597	218.90	219.00	36.60	21.70	4.33	4.60	1.33	3.66	16.80	1.52	0.58	0.19	8.47	99.78	1020.	59.	6.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00598	223.60	223.70	67.70	13.80	2.49	1.16	5.57	1.32	3.70	0.32	0.08	0.13	3.70	99.97	490.	24.	8.
VA00599	232.30	232.40	71.50	13.50	1.53	0.76	4.88	1.70	2.56	0.33	0.07	0.07	2.70	99.60	848.	28.	6.
VA00600	249.80	249.90	64.40	13.40	5.37	1.44	0.82	3.59	3.04	0.26	0.07	0.16	5.85	98.40	1040.	45.	6.
VA00601	261.50	261.60	71.50	13.70	2.38	1.23	1.71	3.21	2.90	0.25	0.06	0.10	3.08	100.12	1020.	52.	4.
VA00602	269.70	269.80	44.40	16.20	8.16	6.62	0.25	2.58	10.80	0.70	0.12	0.43	9.31	99.57	810.	52.	8.
VA00603	274.90	275.00	72.30	12.60	3.00	1.16	4.33	1.28	2.44	0.21	0.05	0.07	2.08	99.52	1980.	25.	7.
VA00604	283.70	283.80	54.90	14.80	7.05	5.80	2.08	0.70	8.40	0.54	0.11	0.30	4.16	98.84	1280.	42.	9.
VA00605	298.90	299.00	43.70	18.20	2.24	5.79	2.38	2.07	16.30	3.20	0.33	0.19	5.70	100.10	500.	63.	5.
VA00606	304.40	304.50	70.10	14.80	0.84	1.42	3.45	2.78	3.94	0.39	0.10	0.06	2.00	99.88	750.	49.	4.
VA00607	316.90	317.00	68.10	15.00	0.91	1.27	3.84	2.98	3.84	0.35	0.10	0.04	2.08	98.51	1210.	47.	5.
VA00608	321.00	321.00	74.30	12.60	1.94	0.26	5.36	1.53	1.56	0.29	0.10	0.02	1.77	99.73	635.	20.	7.
VA00609	329.10	329.20	74.40	12.90	0.90	0.31	5.40	2.44	2.35	0.28	0.07	0.02	0.85	99.92	893.	30.	6.
VA00610	340.60	340.70	69.00	16.10	0.59	1.99	3.71	3.04	2.53	0.35	0.09	0.03	2.16	99.59	1150.	54.	4.
VA00611	348.20	348.30	48.40	13.80	8.42	7.50	2.44	0.31	14.60	2.04	0.18	0.22	2.23	100.14	126.	42.	11.
VA00612	352.00	352.10	70.10	13.40	2.83	2.60	1.54	2.48	3.09	0.29	0.07	0.25	2.85	99.50	1380.	54.	4.
VA00613	366.60	366.70	49.40	14.40	6.94	6.51	2.03	0.07	13.90	2.36	0.33	0.24	3.70	99.88	89.	42.	9.
VA00614	370.80	370.90	67.30	14.90	3.55	1.98	2.43	1.84	3.70	0.35	0.08	0.09	2.23	98.45	1670.	39.	6.
VA00615	381.10	381.20	73.30	13.00	1.22	1.75	0.65	3.43	2.71	0.28	0.08	0.09	2.77	99.28	2750.	73.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01039	5.10	14.20	62.20	14.30	5.63	1.38	2.33	2.88	4.71	0.58			5.39	99.40	903.	35.	8.
VA01040	15.00	35.00	69.20	13.20	2.82	0.99	3.47	2.52	2.34	0.26			3.23	98.03	997.	36.	6.
VA01041	35.00	55.00	67.50	13.90	3.22	1.18	2.96	2.87	2.65	0.25			3.77	98.30	1160.	40.	6.
VA01042	60.00	63.00	70.60	14.30	1.71	0.50	2.29	4.35	1.58	0.13			2.93	98.39	1360.	55.	4.
VA01043	65.00	85.00	70.10	13.40	3.39	0.72	2.52	3.04	1.82	0.22			3.70	98.91	992.	39.	6.
VA01044	85.00	105.00	69.40	14.30	2.52	0.95	3.16	3.13	1.85	0.25			2.93	98.49	1290.	42.	6.
VA01045	105.00	125.00	69.40	14.10	2.30	1.10	4.08	2.51	2.34	0.25			2.77	98.85	1030.	36.	6.
VA01046	125.00	150.00	68.50	14.80	2.26	1.09	2.24	3.39	2.37	0.26			3.39	98.30	1190.	50.	5.
VA01047	160.00	170.00	65.00	14.20	2.21	2.44	3.55	2.60	4.03	0.32			3.93	98.28	702.	47.	6.
VA01048	180.40	185.60	68.20	13.20	2.65	1.60	2.00	3.42	2.51	0.22			4.39	98.19	825.	52.	5.
VA01049	187.00	196.00	71.60	13.00	1.94	0.79	4.63	2.05	2.06	0.23			2.70	99.00	734.	30.	7.
VA01050	205.00	215.00	68.70	13.10	2.39	1.34	3.46	2.39	2.53	0.23			3.77	97.91	886.	39.	6.
VA01051	225.00	240.00	70.80	12.80	2.27	0.80	4.73	1.64	2.61	0.29			2.77	98.71	681.	26.	7.
VA01052	240.00	250.00	67.40	13.10	4.08	1.23	1.56	3.03	2.99	0.26			4.31	97.96	992.	43.	6.
VA01053	255.00	265.00	70.80	13.70	2.52	1.30	2.02	3.01	2.87	0.25			3.00	99.47	939.	49.	5.
VA01054	272.00	287.00	59.80	16.00	5.76	2.90	2.71	1.56	6.80	0.49			3.39	99.41	850.	34.	8.
VA01055	300.00	309.60	68.00	15.60	1.64	1.32	4.44	2.56	3.46	0.41			1.85	99.28	663.	39.	6.
VA01056	309.60	313.20	72.70	13.20	0.78	0.72	3.93	3.02	2.55	0.30			1.62	98.82	986.	44.	5.
VA01057	314.00	338.00	70.70	14.10	0.93	0.76	4.64	2.57	2.71	0.31			1.70	98.42	966.	37.	6.
VA01058	350.50	358.80	72.10	13.70	1.75	1.46	2.18	2.53	2.43	0.29			2.47	98.91	1930.	50.	4.
VA01059	370.00	382.00	71.20	13.20	1.68	1.30	1.14	3.30	3.51	0.31			3.31	98.95	2290.	62.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01609	35.40	36.00	1200.0	27.0	93.0	<0.5	<5.0	19.0	3.0	<5.0	<5.0	1.0	<1.0	1231.0	23.	1.	5.
VA01610	40.70	41.00	1400.0	85.0	127.0	<0.5	<5.0	32.0	19.0	<5.0	17.0	1.0	1.0	1470.0	40.	1.	5.
VA01611	185.60	185.30	1300.0	23.0	130.0	<0.5	<5.0	15.0	<1.0	<5.0	<5.0	2.0	<1.0	1122.0	15.	1.	4.
VA01612	202.40	203.90	1100.0	1522.0	1044.0	2.0	17.0	1.0	<1.0	304.0	<5.0	6.0	9.0	266.0	59.	3.	2.
VA01613	270.30	271.40	990.0	31.0	99.0	<0.5	5.0	8.0	4.0	6.0	<5.0	1.0	<1.0	646.0	24.	2.	2.
VA01614	271.40	272.30	650.0	133.0	140.0	<0.5	5.0	23.0	26.0	<5.0	<5.0	2.0	<1.0	1546.0	49.	1.	5.
VA01615	272.30	273.30	1500.0	13.0	22.0	<0.5	<5.0	3.0	<1.0	<5.0	<5.0	1.0	<1.0	112.0	37.	3.	2.
VA01616	273.30	274.30	1300.0	13.0	15.0	<0.5	<5.0	2.0	<1.0	<5.0	<5.0	<1.0	<1.0	173.0	46.	3.	2.
VA01617	274.30	275.30	1300.0	10.0	35.0	<0.5	<5.0	2.0	<1.0	5.0	<5.0	<1.0	<1.0	219.0	22.	3.	2.
VA01618	275.30	276.30	1500.0	10.0	46.0	<0.5	<5.0	6.0	<1.0	9.0	<5.0	<1.0	<1.0	424.0	18.	3.	2.
VA01619	276.30	277.20	1100.0	22.0	27.0	<0.5	<5.0	2.0	<1.0	<5.0	<5.0	<1.0	<1.0	386.0	45.	3.	2.
VA01620	277.20	278.20	100.0	116.0	207.0	<0.5	<5.0	23.0	34.0	<5.0	<5.0	2.0	<1.0	1404.0	36.	1.	4.
VA01621	278.20	279.20	470.0	62.0	143.0	<0.5	<5.0	25.0	22.0	<5.0	<5.0	2.0	<1.0	1233.0	30.	1.	4.
VA01622	279.20	280.20	530.0	121.0	153.0	<0.5	<5.0	27.0	29.0	<5.0	<5.0	2.0	<1.0	1217.0	44.	3.	5.
VA01623	280.20	280.80	700.0	146.0	151.0	0.5	<5.0	25.0	31.0	<5.0	<5.0	1.0	<1.0	1235.0	49.	7.	5.
VA01624	280.80	281.80	430.0	122.0	204.0	<0.5	9.0	26.0	35.0	<5.0	<5.0	1.0	<1.0	1711.0	37.	3.	5.
VA01625	281.80	282.80	250.0	90.0	186.0	<0.5	<5.0	25.0	34.0	<5.0	<5.0	2.0	<1.0	1553.0	33.	3.	5.
VA01626	282.80	283.80	230.0	130.0	166.0	<0.5	<5.0	26.0	31.0	<5.0	<5.0	1.0	<1.0	1750.0	44.	3.	5.
VA01627	283.80	284.80	1000.0	11.0	45.0	<0.5	<5.0	6.0	4.0	<5.0	6.0	<1.0	<1.0	504.0	20.	3.	3.
VA01628	284.80	285.80	1300.0	32.0	52.0	<0.5	<5.0	10.0	4.0	<5.0	<5.0	<1.0	<1.0	556.0	38.	3.	3.
VA01629	285.80	286.80	1100.0	34.0	42.0	<0.5	<5.0	12.0	1.0	<5.0	23.0	<1.0	<1.0	473.0	45.	3.	2.
VA01630	286.80	287.80	890.0	36.0	88.0	<0.5	<5.0	12.0	<1.0	<5.0	14.0	2.0	<1.0	752.0	29.	3.	3.
VA01631	350.50	352.00	1800.0	53.0	464.0	<0.5	15.0	3.0	<1.0	73.0	8.0	4.0	2.0	537.0	10.	1.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	EE
VA01632	352.10	354.00	1600.0	81.0	89.0	<0.5	19.0	3.0	<1.0	23.0	6.0	<1.0	<1.0	514.0	48.	1.	2.
VA01633	354.00	355.50	1100.0	163.0	59.0	<0.5	18.0	3.0	1.0	17.0	<5.0	<1.0	2.0	422.0	73.	1.	2.
VA01634	355.50	357.00	1600.0	40.0	51.0	<0.5	15.0	3.0	<1.0	11.0	<5.0	<1.0	2.0	378.0	44.	1.	2.
VA01635	357.00	358.80	2000.0	55.0	297.0	<0.5	<5.0	4.0	4.0	18.0	<5.0	3.0	<1.0	305.0	16.	1.	1.
VA01636	358.80	360.00	4000.0	120.0	113.0	0.8	114.0	32.0	126.0	14.0	6.0	<1.0	<1.0	585.0	52.	3.	5.
VA01637	360.00	361.00	14000.0	340.0	549.0	38.4	718.0	16.0	12.0	109.0	12.0	4.0	7.0	227.0	38.	3.	4.
VA01638	361.00	362.00	12000.0	240.0	269.0	5.9	373.0	12.0	10.0	114.0	28.0	3.0	4.0	227.0	47.	5.	4.
VA01639	362.00	363.00	1800.0	219.0	131.0	0.6	27.0	25.0	13.0	6.0	<5.0	2.0	1.0	548.0	63.	2.	6.
VA01640	363.00	364.00	5000.0	253.0	196.0	2.8	126.0	16.0	9.0	28.0	7.0	2.0	2.0	420.0	56.	2.	5.
VA01641	364.00	365.00	5300.0	350.0	670.0	4.3	131.0	12.0	9.0	270.0	<5.0	5.0	3.0	305.0	34.	3.	3.
VA01642	365.00	366.10	3900.0	530.0	207.0	1.9	61.0	16.0	8.0	50.0	<5.0	2.0	4.0	242.0	72.	4.	3.
VA01643	369.00	370.00	5000.0	114.0	129.0	<0.5	14.0	12.0	28.0	60.0	16.0	<1.0	2.0	418.0	47.	2.	3.
VA01644	370.00	371.50	2200.0	144.0	77.0	0.6	<5.0	6.0	4.0	16.0	<5.0	<1.0	5.0	350.0	65.	4.	3.
VA01645	371.50	373.00	1500.0	165.0	211.0	0.8	23.0	9.0	5.0	20.0	<5.0	2.0	3.0	548.0	44.	3.	3.
VA01646	373.00	374.50	1500.0	135.0	125.0	0.7	21.0	11.0	14.0	26.0	9.0	1.0	4.0	743.0	52.	2.	3.
VA01647	374.50	376.00	1800.0	65.0	108.0	0.6	22.0	6.0	7.0	28.0	6.0	1.0	2.0	523.0	38.	2.	3.
VA01648	376.00	378.00	2400.0	96.0	2734.0	0.6	18.0	3.0	4.0	20.0	13.0	13.0	2.0	305.0	3.	2.	2.
VA01649	378.00	380.00	2900.0	170.0	3200.0	0.6	19.0	3.0	4.0	<5.0	<5.0	16.0	1.0	290.0	5.	2.	1.
VA01650	380.00	382.30	2700.0	93.0	397.0	<0.5	14.0	5.0	4.0	7.0	7.0	2.0	4.0	400.0	19.	2.	2.

Summary Log: DDH CH88-46
Location: 29+00 E, 1+48 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: April 28, 1988
Core logged by: J. Pattison

0.0 - 19.2	Casing.
19.2 - 33.2	Nanaimo Group sediments
33.2 - 91.5	Felsic lapilli tuff Several 4 to 6 cm thick beds of massive pyrite over 1.9 m.
91.5 - 109.3	Felsic crystal tuffs
103.9 - 113.1	Feldspar porphyritic gabbro
113.1 - 122.5	Felsic lapilli tuff 6 % pyrite, 2.5 % sphalerite and 1 % chalcopyrite over 1.0 m. Sulphides are disseminated and fracture controlled.
122.5 - 139.6	Mafic porphyritic flow/intrusion
139.6 - 168.9	Massive mafic flow
168.9 - 208.2	Mafic porphyritic flow/intrusion
208.2 - 219.2	Mafic porphyritic mafic lapilli tuff
219.2 - 253.1	Mafic to intermediate tuffaceous sediments
253.1 - 257.9	Feldspar porphyritic gabbro

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-46 | Page Number 1

Hole Location: 29+00 E 1+48 S

NTS: 92B13 UTM: 5416852.8 N 430157.1 E
Azimuth: 210 Elevation: 517 m
Dip: -50 Length: 257.9 m

Started: 25-April-88
Completed: 28-April-88

Claim No. Chip 1
Section No.: 29+00 E

Logged By: J. Pattison
Drilling Co.: Burwash
Assayed By: Bondar-Clegg & XRAL

Core Size:

Purpose: To test the Active Tuff 100 m along strike of CHEM87-37.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
29.30	212.0	-52.0	129.60	211.0	-46.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	19.2	OVERBURDEN											
19.2	22.0	NANAIMO CONGLOMERATE Subangular to rounded pebble to granule-size clasts of quartz, argillite, cherty sediments and tuffs comprise 60 to 30 % of the rock. Clast supported over most of the interval. 3-5 % pyrite in the matrix and as granule-sized clasts. Broken core at the lower contact. STRUCTURE:. 19.8-20.0 M fault gouge at 10 degrees to core axis. 1.1 m of lost core. ALTERATION:. 19.2 22.0 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
22.0	29.8	NANAIMO GREYWACKE Medium brown, massive with 5 % granule-sized, subangular to subrounded quartz, felsic volcanics, argillite, cherty sediments and rare sulphide clasts. 3-5% disseminated pyrite. Becomes coaser below 28.3 m and could be classified as a granule conglomerate. Broken core at the lower contact. STRUCTURE. 23.0-26.1 M FAULT ZONE. Upper contact is at 40 degrees to core axis and lower contact is at 70 degrees to core axis. 1.3 m of lost core. At 28.3 bedding is at 60 degrees to core axis. Bed FINES UP HOLE.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-46 Page Number 2

From (m)	To (m)	----------DESCRIPTION----------
		ALTERATION:.
		22.0 29.8 WEAK FRACTURE CONTROLLED CARBONATIZATION.
29.8	31.4	NANAIMO CONGLOMERATE
		Locally clast supported, composed of 50 % pebble to cobble-sized subangular to subrounded felsic volcanics (35 %), cherty green sediments (40%), black argillite (15%) in a coarse quartz rich matrix. Lower contact is at 65 degrees to core axis.
31.4	33.2	NANAIMO GREYWACKE
		As 22.0 to 29.8 m. Less than 5 % round pale brown clasts of approximately the same composition as the matrix above 32.0 m. The unit COARSENS DOWNHOLE. 10.0 cm PEBBLE CONGLOMERATE at the lower contact. Lower contact is an unconformity at 22 degrees to core axis.
33.2	54.9	CHLORITIC FELSIC LAPILLI TUFF
		5 to 20 % dark green chloritic lapilli in a light grey moderately sericitic matrix. Occasional quartz eye. In less sericitic intervals matrix is rich in ash-sized feldspar crystals. Some lapilli have quartz-filled amygdales. Hairline fractures filled with reddish brown biotite are common. In some places difficult to tell whether the fractures are filled with biotite or sphalerite. Pyrite sometimes occurs in the fractures. Lower contact is gradational.
		STRUCTURE:.
		Foliation is contorted and the rock has a crushed appearance in many places.
		At 34.6 foliation is at 60 degrees to core axis.
		At 40.9 m 5.0 cm fault gouge at 50 degrees to core axis.
		At 42.2 m 0.5 cm fault gouge at 45 degrees to core axis.
		At 44.0 m foliation is nearly parallel to the core axis.
		At 48.0 m 0.5 cm fault gouge at 30 degrees to core axis.
		At 48.3 m 0.5 cm fault gouge at 40 degrees to core axis.
		At 53.6 m 0.3 cm fault gouge at 35 degrees to core axis.
		ALTERATION:.
		33.2 40.8 WEAK SPOTTY CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.
		40.8 54.9 MODERATE SPOTTY CHLORITIZATION , WEAK PERVASIVE CHLORITIZATION MODERATE PERVASIVE SERICITIZATION and weak to moderate thermal biotite alteration.
		33.2 38.0 1 % disseminated pyrite and possible trace

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA02803	33.2	54.9	21.7	n/a	46	n/a	60	n/a	n/a	1210
VA03493	33.2	34.0	.8	1	15	5	43	1	<5	1900
VA03494	34.0	35.0	1.0	1	12	6	43	1	<5	1800
VA03495	35.0	36.0	1.0	1	19	5	35	1	<5	2000
VA03496	36.0	37.0	1.0	1	31	6	25	<1	15	1900
VA03497	37.0	38.0	1.0	1	55	<5	53	<1	14	1800
VA03498	38.0	39.0	1.0	2	37	11	50	1	11	890
VA03499	39.0	40.0	1.0	2	33	8	59	1	8	930
VA03500	40.0	41.0	1.0	2	32	7	60	1	5	920
VA03501	41.0	42.0	1.0	2	28	10	39	1	28	1300
VA03502	42.0	43.0	1.0	1	16	15	34	1	<5	1300
VA03503	43.0	44.0	1.0	1	14	13	42	<1	8	1100
VA03504	44.0	45.0	1.0	1	26	11	30	1	7	1100
VA03505	45.0	46.0	1.0	1	25	7	33	1	<5	970
VA03506	46.0	47.0	1.0	1	13	10	27	1	9	1300
VA03507	47.0	48.0	1.0	1	24	11	25	1	27	1000
VA03508	48.0	49.0	1.0	1	8	8	22	<1	39	1100
VA03509	49.0	50.0	1.0	1	22	6	28	1	<5	1100
VA03510	50.0	51.0	1.0	1	50	6	31	1	9	1100
VA03511	51.0	52.0	1.0	1	76	<5	36	1	19	800
VA03512	52.0	53.0	1.0	1	73	6	37	1	6	780
VA03513	53.0	54.0	1.0	1	61	<5	30	1	10	980
VA03514	54.0	55.0	1.0	1	18	6	15	1	<5	1000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-46 Page Number 3

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		fracture controlled sphalerite.											
	38.0 42.2	2-3% disseminated pyrite and possible trace to 1 % fracture controlled sphalerite.											
	42.2 54.9	1 % disseminated pyrite and possible trace sphalerite.											
	54.0 54.7	2.0 cm barren quartz-carbonate vein runs parallel to the core axis.											
54.9	91.5	FELSIC LAPILLI TUFF											
		Similiar to 33.2 to 54.9 m but lapilli are less chloritic and overall chlorite content of the rock is less. Lapilli are felsic in composition, light green to grey, have hazy outlines and comprise 5-10 % of the rock. Chloritic lapilli disappear below 60.0 m. Rock is crushed and there are many fractures and gashes which cross cut the fabric of the rock and are filled with a milky white medium hard mineral which does not fizz in HCl (anhydrite, barite ?) between 74.9 and 85.8 m. Matrix contains up to 10 % < 1 mm feldspar crystals. Lower contact is arbitrarily placed where lapilli become less conspicuous and rock is less sericitic.	VA02804	54.9	74.9	20.0	n/a	45	n/a	55	n/a	n/a	1720
			VA03515	55.0	56.0	1.0	0	96	<5	19	<1	<5	740
			VA03516	56.0	57.0	1.0	0	28	7	21	<1	<5	920
			VA03517	57.0	58.0	1.0	2	20	<5	21	<1	7	950
			VA03518	58.0	59.0	1.0	2	10	<5	17	<1	<5	1000
			VA03519	59.0	59.9	.9	8	19	<5	19	<1	10	1200
			VA03520	59.9	60.3	.4	45	1814	5	17	2	200	1200
			VA03521	60.3	61.3	1.0	6	83	<5	16	<1	12	1400
			VA03522	61.3	61.8	.5	30	437	<5	19	1	66	850
			VA03523	61.8	62.8	1.0	6	158	<5	17	<1	22	1400
			VA03524	62.8	64.0	1.2	6	51	<5	24	<1	30	1100
			VA03525	64.0	65.0	1.0	12	112	<5	15	<1	59	1400
			VA03526	65.0	66.0	1.0	12	85	<5	25	<1	25	1500
		STRUCTURE:.	VA03527	66.0	67.0	1.0	6	35	<5	31	<1	9	1400
		At 56.3 m foliation is at 35 degrees to core axis.	VA03528	67.0	68.0	1.0	6	105	<5	33	<1	20	1600
		56.7-57.0 M FAULT ZONE at 40 degrees to core axis.	VA03529	68.0	69.0	1.0	6	83	<5	40	<1	11	1500
		At 59.0 m 1.0 cm fault gouge at 30 degrees to core axis.	VA03530	69.0	70.0	1.0	6	85	<5	39	<1	16	1400
		At 59.7 m 1.0 cm fault gouge at 50 degrees to core axis.	VA03531	70.0	71.0	1.0	10	131	<5	29	<1	33	1300
		At 63.6 m foliation is at 20 degrees to core axis.	VA03532	71.0	72.0	1.0	6	68	<5	30	<1	17	1200
		At 67.5 m foliation is at 35 degrees to core axis.	VA03533	72.0	73.0	1.0	6	53	<5	19	<1	12	1200
		At 73.0 m bedding is at 35 degrees to core axis.	VA03534	73.0	74.0	1.0	6	21	<5	19	<1	<5	1000
		At 82.3 m foliation is at 40 degrees to core axis.	VA03535	74.0	74.9	.9	6	13	<5	11	<1	<5	1300
		At 83.7 m 2.0 cm fault gouge at 40 degrees to core axis.	VA02805	74.9	91.5	16.6	n/a	60	n/a	47	n/a	n/a	2020
		At 85.3 m foliation is at 38 degrees to core axis.	VA03536	74.9	76.0	1.1	13	174	5	31	<1	14	1600
		At 88.6 m foliation is at 55 degrees to core axis.	VA03537	76.0	77.0	1.0	13	106	14	95	<1	46	3200
			VA03538	77.0	77.5	.5	12	856	35	309	1	40	4700
		ALTERATION:.	VA03539	77.5	78.0	.5	12	4400	29	459	4	148	3800
		54.9 74.9 MODERATE PERVASIVE SERICITIZATION and WEAK SPOTTY CHLORITIZATION.	VA03540	78.0	79.0	1.0	2	72	9	25	<1	18	2300
			VA03541	79.0	80.0	1.0	2	12	<5	10	<1	15	1700
		74.9 91.5 STRONG PERVASIVE SERICITIZATION and occasional spot of mariposite.	VA03542	80.0	81.0	1.0	2	18	5	13	<1	<5	1400
			VA03543	81.0	81.7	.7	2	15	<5	15	<1	<5	1500
			VA03544	81.7	82.7	1.0	2	26	<5	16	<1	7	2200
		SULPHIDES:.	VA03545	82.7	84.0	1.3	5	147	17	311	<1	88	2300
		57.0-59.0 m 2 % disseminated pyrite as spots up to 3 mm in diameter.	VA03546	84.0	85.0	1.0	5	12	17	47	<1	17	1800
			VA03547	85.0	86.0	1.0	10	52	19	19	<1	34	2700
		59.0-59.9 m 8 % pyrite as clasts up to 3 cm in diameter and disseminated.	VA03548	86.0	87.0	1.0	3	28	8	15	<1	14	2500
			VA03549	87.0	88.0	1.0	5	17	<5	13	<1	7	2100
		59.9-60.3 m 45 % pyrite concentrated in two beds 6 and 4 cm thick at 30 degrees to core axis. Both beds are weakly carbonatized and one contains a 1.0 cm long angular	VA03550	88.0	89.0	1.0	3	32	6	17	<1	19	1800
			VA03551	89.0	89.5	.5	3	64	<5	72	<1	13	1800
			VA03552	89.5	90.2	.7	9	136	8	240	<1	153	2000

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		felsic fragment.	VA03553	90.2	90.6	.4	40	241	11	15	<1	90	1600
		60.3-61.3 m 6 % pyrite disseminated and as lapilli-sized clasts.	VA03554	90.6	91.5	.9	9	35	<5	9	<1	12	1700
		61.3-61.8 m 30 % pyrite and 0.5 % chalcopyrite concentrated in two massive pyrite beds 1 and 4 cm thick at 30 degrees to core axis. Beds are slightly offset by minor microfaults.											
		61.8-64.0 m 6 % coarsely disseminated pyrite.											
		64.0-66.0 m 12 % pyrite in beds up to 2.0 cm thick at 20-30 degrees to core axis and clasts up to 3.0 cm wide.											
		66.0-70.0 m 5-6 % pyrite and nil-trace chalcopyrite, disseminated and in bands < 1.0 cm thick at 30 degrees to core axis.											
		70.0-71.0 m 10 % pyrite in bands/beds up to 2.0 cm thick at 30 degrees to core axis, lapilli-sized clasts and disseminated.											
		71.0-74.9 m 6-7 % disseminated and fracture controlled pyrite.											
		74.9-77.5 m 10-15 % black, crushed, fracture controlled pyrite trace chalcopyrite and sphalerite (?) and occasional speck of galena.											
		77.5-78.0 m 12 % disseminated pyrite and 0.8 % chalcopyrite											
		78.0-82.7 m 2-3 % disseminated pyrite nil-trace sphalerite.											
		82.7-85.0 m 5 % pyrite, disseminated in matrix and in felsic lapilli.											
		85.0-86.0 m 10 % pyrite, disseminated and fracture controlled.											
		86.0-87.0 m 3 % pyrite as spots < 2 mm in diameter.											
		87.0-88.0 m 5 % pyrite in heavily mineralized lapilli and disseminated through the matrix.											
		88.0-89.5 m 3 % disseminated pyrite, trace chalcopyrite.											
		89.5-91.5 m 8-10 % pyrite in massive to semi-massive bands. Best mineralization is between 90.2 and 90.6 m where there is a 7.0 cm bed of semi-massive pyrite at 52 degrees to core axis immediately uphole of a 5 cm thick fine cherty tuff bed.											
91.5	103.9	FELSIC FELDSPAR CRYSTAL TUFF											
		Light grey with a slight green tint due to very weak pervasive chlorite alteration. Quite massive bedding rarely recognizable. Comprised of 10-20 % 1-3 mm white feldspar crystals in a very siliceous, weakly to moderately fine-grained, sericitic matrix. Less than 5 % light grey lapilli frag and rare lapilli-sized sulphide clast.	VA02806	91.5	109.3	17.8	n/a	25	n/a	33	n/a	n/a	1560
			VA03555	91.5	92.5	1.0	3	13	<5	17	<1	<5	1000
			VA03556	92.5	93.5	1.0	3	41	<5	19	<1	9	920
			VA03557	93.5	94.5	1.0	3	25	<5	12	<1	<5	810
			VA03558	94.5	95.5	1.0	3	15	<5	7	<1	16	1500
			VA03559	95.5	96.5	1.0	3	15	<5	7	<1	<5	1100
			VA03560	96.5	97.5	1.0	3	30	<5	9	<1	8	1500
		Lower contact is at 52 degrees to core axis.	VA03561	97.5	98.5	1.0	3	56	<5	12	<1	21	1200
			VA03562	98.5	99.5	1.0	3	18	<5	13	<1	<5	910
		STRUCTURE:.	VA03563	99.5	100.5	1.0	3	16	<5	14	<1	<5	940
		At 93.0 m foliation is at 40 degrees to core axis.	VA03564	100.5	101.5	1.0	3	33	<5	15	<1	<5	990
		At 103.9 m bedding is at 52 degrees to core axis.	VA03565	101.5	102.5	1.0	3	41	<5	11	<1	5	1200

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-46

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
			VA03566	102.5	103.5	1.0	3	27	<5	10	<1	5	1500
		ALTERATION.	VA03567	103.5	104.5	1.0	3	64	<5	10	<1	43	1600
		91.5 103.9 WEAK PERVASIVE SERICITIZATION to MODERATE PERVASIVE SERICITIZATION very rare spots of mariposite.											
		SULPHIDES:.											
		91.5 103.9 3 % pyrite, disseminated and as rare lapilli-sized clasts.											
103.9	109.3	FELSIC FELDSPAR CRYSTAL LAPILLI TUFF											
		Feldspar crystal tuff with 5-10 % light green, weakly to moderately chloritic lapilli stretched parallel to foliation. Bedding is not recognizable. 2-4 % pyrite, disseminated and as rare clasts.	VA03568	104.5	105.5	1.0	3	18	6	15	<1	9	1600
			VA03569	105.5	106.5	1.0	3	27	10	10	<1	5	1600
			VA03570	106.5	107.5	1.0	3	19	6	9	<1	<5	1600
			VA03571	107.5	108.5	1.0	3	12	9	7	<1	56	1900
		Lower contact is at 50 degrees to core axis.	VA03572	108.5	109.3	.8	3	16	6	22	<1	<5	1800
		STRUCTURE:.											
		At 105.3 foliation is at 50 degrees to core axis.											
		ALTERATION:.											
		103.9 109.3 MODERATE PERVASIVE SERICITIZATION.											
109.3	113.1	FELDSPAR PORPHYRITIC GABBRO											
		Dark green fine-grained and massive with 5 % 1-3 mm feldspar and trace to 3 % interstitial ilmenite. 5.0 cm asimilation zones at the upper and lower contacts. Several irregular quartz veins and pods with pyrite+pyrrhotite +/- chalcopyrite. Trace disseminated chalcopyrite. Lower contact is at 40 degrees to core axis.											
113.1	122.5	FELSIC LAPILLI TUFF											
		5-10 % 2-30 mm long (most <10 mm) grey felsic fragments stretched 1:2 parallel to foliation in a sericitic fine-grained matrix. Lower contact is at 40 degrees to core axis.	VA03573	113.1	113.8	.7	2	327	28	144	<1	7777	1400
			VA02807	113.1	122.5	9.4	n/a	387	n/a	886	n/a	n/a	2540
			VA03574	113.8	114.2	.4	0	304	18	70	1	55	1400
			VA03575	114.2	115.2	1.0	2	209	9	25	<1	10	2700
			VA03576	115.2	116.2	1.0	0	601	30	196	1	288	7500
		STRUCTURE:.	VA03577	116.2	116.8	.6	0	601	9	1413	<1	260	6400
		At 115.5 m foliation is at 40 degrees to core axis.	VA03578	116.8	117.8	1.0	2	155	10	41	<1	7	3400
		At 119.3 m foliation is at 50 degrees to core axis.	VA03579	117.8	118.8	1.0	2	630	6	70	<1	<5	3100
			VA03580	118.8	119.8	1.0	3	752	<5	11500	1	45	2900
		ALTERATION:.	VA03581	119.8	120.8	1.0	3	506	129	6000	3	316	4000
		113.1 115.0 MODERATE PERVASIVE SERICITIZATION.	VA03582	120.8	121.0	.2	3	2037	14	2537	6	68	3800
		115.0 122.5 STRONG PERVASIVE SERICITIZATION.	VA03583	121.0	122.0	1.0	7	1299	139	2848	4	98	4000
			VA03584	122.0	122.5	.5	6	5400	1584	24200	16	522	5500
		SULPHIDES:.											
		113.1-113.8 m 2 % disseminated pyrite.											
		113.8-114.2 m 10 % disseminated and fracture controlled											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-46 | Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		pyrite associated with an epidote+calcite alteration patch 114.2-115.2 m 2 % disseminated pyrite. 115.2-116.8 m 10 % coarsely disseminated pyrite and 0.5-1.0 % chalcopyrite. 116.8-118.8 m 2 % disseminated pyrite. 118.8-121.0 m 3 % disseminated pyrite and trace to 2 % sphalerite or biotite (?) smeared along foliation planes giving rock a slight reddish brown tint. 121.0-122.0 m 7 % pyrite, 0.5 % chalcopyrite and trace sphalerite, disseminated and fracture controlled. 122.0- 122.5 M 6 % pyrite, 5 % sphalerite 2 % chalcopyrite and trace galena, disseminated and in bands < 4 mm wide roughly parallel to foliation. 116.8 117.3 Tuff has a brecciated appearance. Very siliceous angular clasts in a sericitic matrix											
122.5	126.2	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Medium green very massive (ie no foliation and no bedding), medium-grained with 20 and 40 cm chill margins at the upper and lower contacts. Up to 20 % < 3 mm anhedral chloritized mafic phenocrysts. May be a flow or dyke. No ilmenite and nil sulphide. Lower contact is very sharp and somewhat irregular at 80 degrees to core axis.	VA02808	122.5	139.6	17.1	n/a	88	n/a	126	n/a	n/a	225
126.2	127.6	GREYWACKE Dark brown, sand to silt grainsize with < 5 % granules of quartz and cherty lithics. Trace pyrite. Lower contact is at 75 degrees to core axis.											
127.6	139.6	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION As 122.5 to 126.2 m. Very massive. 10 Cm long xenolith or rip-up clast of dark brown greywacke. Margins are very sharp and irregular. Lower contact is a slip at 80 degrees to core axis. STRUCTURE:. At 129.0 m 1.0 cm fault gouge. Not possible to measure the orientation. ALTERATION:. 127.6 139.6 WEAK PERVASIVE CHLORITIZATION.	VA03585	138.6	139.6	1.0	1	92	18	177	<1	<5	1600
139.6	168.9	MAFIC FLOW The unit appears to contain several massive mafic flows with minor intercalated mafic tuffs and tuff breccias.	VA03586 VA02809	139.6 139.6	140.0 168.9	.4 29.3	1 n/a	8800 87	14 n/a	500 63	6 n/a	41 n/a	1700 223

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-46 Page Number 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Dark green fine-grained (finer grained than unit above) locally mafic porphyritic. Contorted and deformed bedding is recognizable above 140.0 m but below this depth the rock becomes very massive and only rarely contains occasional lapilli to block-sized mafic clasts. 5 % mafic lapilli between 161.8 and 163.0 m. Lower contact arbitrarily placed where rock becomes medium-grained.	VA03587	140.0	141.0	1.0	1	207	38	135	<1	6	80
			VA03588	155.7	156.7	1.0	1	118	<5	53	<1	<5	540
			VA03589	156.7	157.7	1.0	2	178	<5	56	1	<5	380
			VA03590	158.5	159.5	1.0	4	240	<5	74	1	6	420
		STRUCTURE:. At 157.3 m possible bedding plane at 68 degrees to core axis. At 162.2 m 0.1 m fault zone at 35-42 degrees to core axis. 163.8- M locally rock is brecciated. Angular breccia clasts are separated by 2-5 mm fractures filled with slightly lighter coloured chlorite+sericite+epidote.											
		ALTERATION:. 139.6 144.7 WEAK PERVASIVE CHLORITIZATION. 144.7 161.0 MODERATE SPOTTY EPIDOTIZATION and WEAK SPOTTY CARBONATIZATION. Approximately 5 % epidote+calcite patches up to 0.2 m long. 161.0 168.9 WEAK PERVASIVE EPIDOTIZATION. 159.0 168.9 Rock is lighter in colour (slightly bleached?).											
		SULPHIDES:. At 139.9 m 1.5 cm band of massive chalcopyrite-pyrite. Mineralization surrounds dark grey lapilli but it appears to be associated with a quartz-carbonate veining. 156.7-158.5 m 1-2% fracture controlled pyrite and trace sphalerite. 158.5-161.5 m 4 % fracture controlled pyrite and trace sphalerite and chalcopyrite.											
		167.2 888.8 5 mm black argillite bed at 65 degrees to core axis.											
168.9	208.2	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Very massive, no bedding or clasts. Fine to medium-grained but local fine-grained with up to 20 % 2-3 mm chlorite spots (chlorite replacing pyroxene/hornblende). Quartz-carbonate veins and pods up to 4.0 cm wide are common. In areas of more intense veining rock becomes more chloritic, darker and fine-grained. Quartz-carbonate veins often contain dark brown biotite (?). Lower contact is placed where bedding becomes recognizable. No sharp intrusive type of contact suggesting that it is likely a volcanic.	VA02810	168.9	208.2	39.3	n/a	58	n/a	69	n/a	n/a	218
		ALTERATION:.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		168.9 208.2 WEAK PERVASIVE EPIDOTIZATION and WEAK SPOTTY EPIDOTIZATION. 192.3 193.3 Weak fractures controlled hematization associated with quartz-carbonate veinlets up to 5 mm wide. SULPHIDES:. Trace chalcopyrite in quartz-carbonate veins up to 2 cm wide at 80 to 0 degrees to core axis. 171.9 172.1 Strongly mafic porphyritic. 40 % 2-3 mm black subhedral chloritized mafic phenocrysts. 181.7 182.2 Several irregular wispy veins of biotite (?) + carbonate up to 4.0 cm wide. One contains trace disseminated pyrite.											
208.2	217.2	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF Similiar to above unit but tuffaceous. Finely bedded over the first 0.2 m. Contains 5 % ash to lapilli-sized epidotized fragment, and cherty clasts and occ mud clasts. A cherty fragment at 209.9 m has a 2 mm reaction rim. Lower contact arbitrarily placed where amygdales first appear. STRUCTURE:. At 208.3 bedding is at 70 degrees to core axis. At 215.2 bedding is at 48 degrees to core axis. 215.3 215.4 Bed of chloritic quartz-feldspar crystal tuff at 50 degrees to core axis. 215.4 216.0 Green cherty siltstone. Finely bedded but core is too broken and blocky to measure core axis angles.	VA02811	208.2	219.2	11.0	n/a	83	n/a	112	n/a	n/a	863
217.2	219.2	MAFIC FLOW Medium green, fine-grained with 5 % white quartz-carbonate filled amygdales up to 5 mm long. 6.0 cm ripped up bed of cherty tuffaceous siltstone with 3 % fracture controlled pyrite at 218.8 m.											
219.2	253.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Medium green mafic ash tuffs with beds of light green, cherty tuffaceous siltstones and wackes up to 3.0 cm thick. Some beds are graded and most fine downhole. Some sections up to 2.0 m long of massive mafic tuff or flow. Becomes increasingly cherty towards the lower contact. Lower contact is somewhat irregular at 45-55 degrees to	VA02812 VA02813	219.2 239.0	239.0 283.1	19.8 44.1	n/a n/a	107 88	n/a n/a	137 112	n/a n/a	n/a n/a	799 1370

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		core axis. STRUCTURE:. At 219.5 m bedding is at 40 to 25 degrees to core axis. Beds FINE DOWNHOLE and are offset by microfaults at 75-85 degrees to core axis. 219.8-220.0 Bedding is nearly parallel to the core axis (may be a ripped-up bed). Flame structures are common but not possible to determine top direction because bedding is parallel to core axis. At 220.7 m bedding is at 45 degrees to core axis. At 224.1 m bedding is at 50 degrees to core axis. 226.0-227.0 Well bedded interval. Beds are from 3 to 40 mm thick at 42 to 55 degrees to core axis. Graded beds FINE DOWNHOLE. This interval will be sawn. At 231.2 m bedding is at 44 degrees to core axis. At 236.6 m bedding is at 42 degrees to core axis. At 251.1 m bedding is at 70 degrees to core axis. ALTERATION:. 219.5 221.0 WEAK PERVASIVE CHLORITIZATION. 221.0 243.1 Weak to moderate thermal biotite alteration. SULPHIDES:. 219.2-250.8 M trace pyrite in thin bands (beds?) up to 2 mm thick and fracture controlled. Trace fracture controlled chalcopyrite at 247.7 m. 250.8-243.1 m 1 % fracture controlled py in cherty tuffaceous siltstone. 233.7 888.8 6.0 cm ripped-up bed of light green cherty siltstone. 236.6 237.2 MAFIC PORPHYRITIC MAFIC TUFF / FLOW. Weak thermal biotite alteration and 5 % 2-4 mm black, subhedral phenocrysts.												
253.1	257.9	FELDSPAR PORPHYRITIC GABBRO Massive, medium green, fine-grained with 10 % 2-4 mm white feldspar phenocrysts and 2 % finely disseminated ilmenite.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02319	34.60	34.90	69.30	14.20	2.91	1.29	0.12	3.96	2.44	0.28	0.04	0.08	4.70	99.32	1750.	63.	3.
VA02320	47.00	47.20	65.40	15.10	2.39	2.34	2.24	2.69	4.80	0.36	0.09	0.04	3.39	98.84	1050.	52.	5.
VA02321	57.10	57.50	67.50	13.30	4.06	1.60	0.15	3.76	3.83	0.31	0.08	0.03	3.77	98.39	1120.	56.	4.
VA02322	71.20	71.50	67.00	14.20	2.40	2.19	1.69	2.65	3.97	0.33	0.08	0.05	3.77	98.33	1190.	54.	4.
VA02323	86.60	86.70	68.80	15.00	5.39	0.85	2.18	1.77	1.39	0.36	0.11	0.02	3.39	99.26	1730.	26.	8.
VA02324	96.30	96.60	68.50	16.20	4.77	1.06	1.83	1.69	1.65	0.30	0.08	0.01	3.08	99.17	1220.	29.	7.
VA02325	118.40	118.70	71.30	15.20	0.69	0.76	1.89	3.25	2.21	0.29	0.11	0.01	2.31	98.02	4720.	61.	3.
VA02326	123.20	123.50	44.40	13.80	12.00	12.70	0.89	0.13	9.67	0.42	0.07	0.17	4.31	98.56	148.	50.	13.
VA02327	143.80	144.50	48.00	14.30	8.80	7.32	2.89	0.19	14.10	1.97	0.19	0.24	2.08	100.08	153.	39.	12.
VA02328	157.30	157.50	50.00	16.60	6.53	6.48	4.24	0.52	11.10	0.92	0.18	0.17	3.08	99.82	434.	39.	11.
VA02329	168.30	168.60	50.20	14.30	10.70	8.32	2.81	0.32	10.10	0.60	0.15	0.16	2.16	99.82	169.	39.	14.
VA02330	178.00	178.30	48.30	11.20	12.90	11.20	1.73	0.17	9.55	0.50	0.11	0.15	3.23	99.04	120.	44.	15.
VA02331	187.00	187.30	49.90	13.70	11.50	8.82	2.62	0.15	10.20	0.56	0.12	0.17	2.31	100.05	130.	39.	14.
VA02332	200.70	200.90	50.50	14.60	9.69	8.47	3.22	0.15	10.40	0.59	0.13	0.16	2.31	100.22	99.	40.	13.
VA02333	211.80	212.00	46.90	17.00	5.98	7.83	3.57	0.99	10.30	0.71	0.13	0.20	4.77	98.38	539.	48.	10.
VA02334	225.00	225.40	50.00	16.10	9.30	6.56	3.25	1.04	10.50	0.83	0.20	0.20	2.08	100.06	443.	38.	13.
VA02335	246.10	246.30	52.20	17.30	3.77	6.68	5.62	0.66	8.39	0.71	0.23	0.13	3.70	99.39	511.	44.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02803	33.20	54.90	66.60	14.30	3.15	1.77	1.84	2.87	3.77	0.33			4.08	98.71	1210.	48.	5.
VA02804	54.90	74.90	68.50	15.60	1.69	1.65	1.40	3.71	2.96	0.34			3.39	99.24	1720.	63.	3.
VA02805	74.90	91.50	72.00	13.90	3.12	1.18	1.73	1.95	2.31	0.32			3.23	99.74	2020.	39.	5.
VA02806	91.50	109.30	71.40	15.30	2.38	1.56	1.41	2.09	2.26	0.32			2.93	99.65	1560.	49.	4.
VA02807	113.10	122.50	60.40	14.00	6.73	1.25	2.16	1.62	8.59	0.42			3.23	98.40	2540.	24.	9.
VA02808	122.50	139.60	45.30	14.20	12.10	11.90	1.13	0.14	9.78	0.41			4.31	99.27	225.	48.	13.
VA02809	139.60	168.90	45.40	17.00	15.50	4.35	2.31	0.37	10.50	0.71			3.85	99.99	223.	21.	18.
VA02810	168.90	208.20	46.90	11.90	13.10	7.70	2.02	0.31	9.10	0.50			6.93	98.46	218.	35.	15.
VA02811	208.20	219.20	45.60	16.40	11.40	4.79	3.35	1.17	9.24	0.71			6.39	99.05	863.	29.	15.
VA02812	219.20	239.00	48.20	16.50	5.99	8.33	3.09	2.03	10.90	0.79			4.16	99.99	799.	53.	9.
VA02813	239.00	283.10	51.40	16.10	4.96	6.87	3.63	2.11	9.06	0.75			4.39	99.27	1370.	51.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03493	33.20	34.00	1900.0	15.0	43.0	0.6	<5.0	3.0	3.0	5.0	<5.0	<1.0	1.0	213.0	26.	1.	1.
VA03494	34.00	35.00	1800.0	12.0	43.0	0.5	<5.0	3.0	2.0	6.0	<5.0	<1.0	<1.0	270.0	22.	1.	1.
VA03495	35.00	36.00	2000.0	19.0	35.0	0.6	<5.0	2.0	1.0	5.0	<5.0	<1.0	1.0	223.0	35.	1.	1.
VA03496	36.00	37.00	1900.0	31.0	25.0	<0.5	15.0	3.0	4.0	6.0	<5.0	<1.0	<1.0	196.0	55.	1.	1.
VA03497	37.00	38.00	1800.0	55.0	53.0	<0.5	14.0	7.0	5.0	<5.0	<5.0	<1.0	<1.0	448.0	51.	1.	1.
VA03497	37.00	38.00	1800.0	55.0	53.0	<0.5	14.0	7.0	5.0	<5.0	<5.0	<1.0	<1.0	448.0	51.	1.	1.
VA03498	38.00	39.00	890.0	37.0	50.0	0.6	11.0	14.0	10.0	11.0	<5.0	<1.0	1.0	268.0	43.	2.	1.
VA03499	39.00	40.00	930.0	33.0	59.0	0.6	8.0	8.0	5.0	8.0	<5.0	<1.0	2.0	305.0	36.	2.	2.
VA03500	40.00	41.00	920.0	32.0	60.0	0.6	5.0	8.0	6.0	7.0	<5.0	<1.0	2.0	330.0	35.	2.	2.
VA03501	41.00	42.00	1300.0	28.0	39.0	0.7	28.0	5.0	10.0	10.0	<5.0	<1.0	<1.0	265.0	42.	2.	2.
VA03502	42.00	43.00	1300.0	16.0	34.0	0.5	<5.0	9.0	10.0	15.0	<5.0	<1.0	<1.0	281.0	32.	1.	1.
VA03503	43.00	44.00	1100.0	14.0	42.0	<0.5	8.0	10.0	11.0	13.0	<5.0	<1.0	<1.0	294.0	25.	1.	2.
VA03504	44.00	45.00	1100.0	26.0	30.0	0.5	7.0	7.0	10.0	11.0	<5.0	1.0	<1.0	269.0	46.	1.	2.
VA03505	45.00	46.00	970.0	25.0	33.0	0.5	<5.0	7.0	11.0	7.0	7.0	<1.0	<1.0	244.0	43.	1.	2.
VA03506	46.00	47.00	1300.0	13.0	27.0	0.6	9.0	4.0	7.0	10.0	<5.0	<1.0	<1.0	229.0	33.	1.	1.
VA03507	47.00	48.00	1000.0	24.0	25.0	0.5	27.0	6.0	8.0	11.0	<5.0	<1.0	<1.0	228.0	49.	1.	2.
VA03508	48.00	49.00	1100.0	8.0	22.0	<0.5	39.0	4.0	5.0	8.0	<5.0	<1.0	<1.0	245.0	27.	1.	1.
VA03509	49.00	50.00	1100.0	22.0	28.0	0.6	<5.0	4.0	4.0	6.0	<5.0	<1.0	1.0	190.0	44.	1.	2.
VA03510	50.00	51.00	1100.0	50.0	31.0	0.8	9.0	5.0	5.0	6.0	11.0	1.0	<1.0	192.0	62.	1.	2.
VA03511	51.00	52.00	800.0	76.0	36.0	0.5	19.0	4.0	3.0	<5.0	6.0	<1.0	2.0	369.0	68.	1.	2.
VA03512	52.00	53.00	780.0	73.0	37.0	0.6	6.0	6.0	4.0	6.0	<5.0	<1.0	3.0	261.0	66.	1.	2.
VA03513	53.00	54.00	980.0	61.0	30.0	0.5	10.0	4.0	3.0	<5.0	<5.0	<1.0	2.0	215.0	67.	1.	2.
VA03514	54.00	55.00	1000.0	18.0	15.0	0.6	<5.0	2.0	3.0	6.0	16.0	<1.0	2.0	138.0	55.	1.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03515	55.00	56.00	740.0	96.0	19.0	<0.5	<5.0	5.0	3.0	<5.0	16.0	<1.0	3.0	256.0	83.	0.	1.
VA03516	56.00	57.00	920.0	28.0	21.0	<0.5	<5.0	3.0	3.0	7.0	19.0	<1.0	2.0	134.0	57.	0.	1.
VA03517	57.00	58.00	950.0	20.0	21.0	<0.5	7.0	4.0	3.0	<5.0	12.0	<1.0	2.0	172.0	49.	2.	1.
VA03518	58.00	59.00	1000.0	10.0	17.0	<0.5	<5.0	3.0	2.0	<5.0	<5.0	<1.0	<1.0	134.0	37.	2.	1.
VA03519	59.00	59.90	1200.0	19.0	19.0	<0.5	10.0	6.0	2.0	<5.0	<5.0	<1.0	<1.0	130.0	50.	8.	1.
VA03520	59.90	60.30	1200.0	1814.0	17.0	1.7	200.0	52.0	30.0	5.0	22.0	4.0	3.0	109.0	99.	45.	>10.
VA03521	60.30	61.30	1400.0	83.0	16.0	<0.5	12.0	8.0	3.0	<5.0	<5.0	<1.0	1.0	118.0	84.	6.	2.
VA03522	61.30	61.80	850.0	437.0	19.0	0.6	66.0	18.0	11.0	<5.0	22.0	3.0	<1.0	134.0	96.	30.	>10.
VA03523	61.80	62.80	1400.0	158.0	17.0	<0.5	22.0	10.0	4.0	<5.0	<5.0	1.0	1.0	135.0	90.	6.	4.
VA03524	62.80	64.00	1100.0	51.0	24.0	<0.5	30.0	6.0	4.0	<5.0	<5.0	<1.0	1.0	134.0	68.	6.	2.
VA03525	64.00	65.00	1400.0	112.0	15.0	<0.5	59.0	9.0	7.0	<5.0	<5.0	2.0	5.0	106.0	88.	12.	3.
VA03526	65.00	66.00	1500.0	85.0	25.0	<0.5	25.0	7.0	3.0	<5.0	<5.0	1.0	2.0	124.0	77.	12.	3.
VA03527	66.00	67.00	1400.0	35.0	31.0	<0.5	9.0	5.0	1.0	<5.0	<5.0	<1.0	<1.0	122.0	53.	6.	2.
VA03528	67.00	68.00	1600.0	105.0	33.0	<0.5	20.0	6.0	4.0	<5.0	<5.0	<1.0	3.0	116.0	76.	6.	3.
VA03529	68.00	69.00	1500.0	83.0	40.0	<0.5	11.0	5.0	2.0	<5.0	<5.0	<1.0	1.0	126.0	67.	6.	2.
VA03530	69.00	70.00	1400.0	85.0	39.0	<0.5	16.0	6.0	4.0	<5.0	<5.0	<1.0	2.0	150.0	69.	6.	2.
VA03531	70.00	71.00	1300.0	131.0	29.0	<0.5	33.0	11.0	6.0	<5.0	<5.0	<1.0	2.0	144.0	82.	10.	3.
VA03532	71.00	72.00	1200.0	68.0	30.0	<0.5	17.0	8.0	3.0	<5.0	<5.0	<1.0	3.0	172.0	69.	6.	2.
VA03533	72.00	73.00	1200.0	53.0	19.0	<0.5	12.0	5.0	2.0	<5.0	<5.0	<1.0	2.0	103.0	74.	6.	1.
VA03534	73.00	74.00	1000.0	21.0	19.0	<0.5	<5.0	5.0	<1.0	<5.0	<5.0	<1.0	2.0	118.0	53.	6.	1.
VA03535	74.00	74.90	1300.0	13.0	11.0	<0.5	<5.0	6.0	<1.0	<5.0	<5.0	<1.0	2.0	100.0	54.	6.	1.
VA03536	74.90	76.00	1600.0	174.0	31.0	<0.5	14.0	7.0	3.0	5.0	14.0	<1.0	3.0	151.0	85.	13.	2.
VA03537	76.00	77.00	3200.0	106.0	95.0	<0.5	46.0	7.0	3.0	14.0	6.0	1.0	4.0	92.0	53.	13.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03538	77.00	77.50	4700.0	856.0	309.0	1.0	40.0	6.0	3.0	35.0	<5.0	2.0	5.0	104.0	73.	12.	2.
VA03539	77.50	78.00	3800.0	4400.0	459.0	3.5	148.0	6.0	3.0	29.0	8.0	2.0	3.0	116.0	91.	12.	2.
VA03540	78.00	79.00	2300.0	72.0	25.0	<0.5	18.0	5.0	<1.0	9.0	<5.0	<1.0	2.0	154.0	74.	2.	1.
VA03541	79.00	80.00	1700.0	12.0	10.0	<0.5	15.0	2.0	<1.0	<5.0	<5.0	<1.0	2.0	106.0	55.	2.	1.
VA03542	80.00	81.00	1400.0	18.0	13.0	<0.5	<5.0	2.0	<1.0	5.0	<5.0	<1.0	2.0	113.0	58.	2.	1.
VA03543	81.00	81.70	1500.0	15.0	15.0	<0.5	<5.0	2.0	<1.0	<5.0	<5.0	<1.0	2.0	128.0	50.	2.	1.
VA03544	81.70	82.70	2200.0	26.0	16.0	<0.5	7.0	6.0	<1.0	<5.0	<5.0	<1.0	2.0	110.0	62.	2.	1.
VA03545	82.70	84.00	2300.0	147.0	311.0	<0.5	88.0	10.0	6.0	17.0	14.0	4.0	5.0	121.0	32.	5.	3.
VA03546	84.00	85.00	1800.0	12.0	47.0	<0.5	17.0	3.0	<1.0	17.0	<5.0	<1.0	2.0	89.0	20.	5.	1.
VA03547	85.00	86.00	2700.0	52.0	19.0	<0.5	34.0	7.0	4.0	19.0	14.0	<1.0	2.0	122.0	73.	10.	2.
VA03548	86.00	87.00	2500.0	28.0	15.0	<0.5	14.0	5.0	2.0	8.0	6.0	<1.0	2.0	141.0	65.	3.	1.
VA03549	87.00	88.00	2100.0	17.0	13.0	<0.5	7.0	3.0	2.0	<5.0	<5.0	<1.0	3.0	127.0	57.	5.	1.
VA03550	88.00	89.00	1800.0	32.0	17.0	<0.5	19.0	5.0	3.0	6.0	<5.0	<1.0	3.0	130.0	65.	3.	1.
VA03551	89.00	89.50	1800.0	64.0	72.0	<0.5	13.0	4.0	<1.0	<5.0	<5.0	<1.0	3.0	116.0	47.	3.	1.
VA03552	89.50	90.20	2000.0	136.0	240.0	<0.5	153.0	7.0	3.0	8.0	22.0	<1.0	3.0	93.0	36.	9.	3.
VA03553	90.20	90.60	1600.0	241.0	15.0	<0.5	90.0	11.0	5.0	11.0	28.0	<1.0	4.0	110.0	94.	40.	4.
VA03554	90.60	91.50	1700.0	35.0	9.0	<0.5	12.0	4.0	3.0	<5.0	6.0	<1.0	4.0	111.0	80.	9.	1.
VA03555	91.50	92.50	1000.0	13.0	17.0	<0.5	<5.0	2.0	2.0	<5.0	7.0	<1.0	3.0	121.0	43.	3.	1.
VA03556	92.50	93.50	920.0	41.0	19.0	<0.5	9.0	3.0	3.0	<5.0	<5.0	<1.0	6.0	141.0	68.	3.	1.
VA03557	93.50	94.50	810.0	25.0	12.0	<0.5	<5.0	2.0	3.0	<5.0	<5.0	<1.0	3.0	124.0	68.	3.	1.
VA03558	94.50	95.50	1500.0	15.0	7.0	<0.5	16.0	2.0	2.0	<5.0	<5.0	<1.0	2.0	113.0	68.	3.	1.
VA03559	95.50	96.50	1100.0	15.0	7.0	<0.5	<5.0	3.0	2.0	<5.0	<5.0	<1.0	2.0	101.0	68.	3.	1.
VA03560	96.50	97.50	1500.0	30.0	9.0	<0.5	8.0	4.0	2.0	<5.0	<5.0	<1.0	3.0	107.0	77.	3.	1.

Hole No. CH88-46

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03561	97.50	98.50	1200.0	56.0	12.0	<0.5	21.0	2.0	2.0	<5.0	<5.0	<1.0	3.0	117.0	82.	3.	1.
VA03562	98.50	99.50	910.0	18.0	13.0	<0.5	<5.0	3.0	2.0	<5.0	<5.0	<1.0	3.0	123.0	58.	3.	1.
VA03563	99.50	100.50	940.0	16.0	14.0	<0.5	<5.0	2.0	3.0	<5.0	<5.0	<1.0	2.0	130.0	53.	3.	1.
VA03564	100.50	101.50	990.0	33.0	15.0	<0.5	<5.0	4.0	3.0	<5.0	<5.0	<1.0	3.0	122.0	69.	3.	1.
VA03565	101.50	102.50	1200.0	41.0	11.0	<0.5	5.0	3.0	2.0	<5.0	<5.0	<1.0	4.0	115.0	79.	3.	1.
VA03566	102.50	103.50	1500.0	27.0	10.0	<0.5	5.0	2.0	1.0	<5.0	<5.0	<1.0	2.0	114.0	73.	3.	1.
VA03567	103.50	104.50	1600.0	64.0	10.0	<0.5	43.0	3.0	1.0	<5.0	6.0	<1.0	2.0	102.0	86.	3.	1.
VA03568	104.50	105.50	1600.0	18.0	15.0	<0.5	9.0	3.0	2.0	6.0	<5.0	<1.0	2.0	104.0	55.	3.	1.
VA03569	105.50	106.50	1600.0	27.0	10.0	<0.5	5.0	4.0	2.0	10.0	<5.0	<1.0	2.0	99.0	73.	3.	1.
VA03570	106.50	107.50	1600.0	19.0	9.0	<0.5	<5.0	2.0	<1.0	6.0	<5.0	<1.0	2.0	99.0	68.	3.	1.
VA03571	107.50	108.50	1900.0	12.0	7.0	<0.5	56.0	1.0	<1.0	9.0	<5.0	<1.0	2.0	103.0	63.	3.	1.
VA03572	108.50	109.30	1800.0	16.0	22.0	<0.5	<5.0	3.0	3.0	6.0	<5.0	<1.0	2.0	171.0	42.	3.	1.
VA03573	113.10	113.80	1400.0	327.0	144.0	<0.5	40.0	14.0	14.0	28.0	<5.0	<1.0	3.0	182.0	69.	2.	1.
VA03574	113.80	114.20	1400.0	304.0	70.0	0.6	55.0	65.0	51.0	18.0	45.0	1.0	2.0	578.0	81.	0.	5.
VA03575	114.20	115.20	2700.0	209.0	25.0	<0.5	10.0	5.0	4.0	9.0	7.0	<1.0	4.0	151.0	89.	2.	1.
VA03576	115.20	116.20	7500.0	601.0	196.0	0.9	288.0	7.0	8.0	30.0	14.0	<1.0	15.0	99.0	75.	0.	3.
VA03577	116.20	116.80	6400.0	601.0	1413.0	<0.5	260.0	7.0	7.0	9.0	14.0	6.0	13.0	93.0	30.	0.	2.
VA03578	116.80	117.80	3400.0	155.0	41.0	<0.5	7.0	2.0	1.0	10.0	<5.0	<1.0	3.0	112.0	79.	2.	1.
VA03579	117.80	118.80	3100.0	630.0	70.0	<0.5	<5.0	3.0	1.0	6.0	<5.0	<1.0	3.0	114.0	90.	2.	1.
VA03580	118.80	119.80	2900.0	752.0	11500.0	1.1	45.0	3.0	1.0	<5.0	<5.0	55.0	3.0	95.0	6.	3.	1.
VA03581	119.80	120.80	4000.0	506.0	6000.0	3.3	316.0	4.0	3.0	129.0	9.0	21.0	4.0	92.0	8.	3.	1.
VA03582	120.80	121.00	3800.0	2037.0	2537.0	5.8	68.0	5.0	3.0	14.0	<5.0	12.0	4.0	101.0	45.	3.	2.
VA03583	121.00	122.00	4000.0	1299.0	2848.0	4.4	98.0	3.0	3.0	139.0	14.0	12.0	4.0	117.0	31.	7.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03584	122.00	122.50	5500.0	5400.0	24200.0	15.5	522.0	7.0	5.0	1584.0	<5.0	110.0	6.0	140.0	18.	6.	2.
VA03585	138.60	139.60	1600.0	92.0	177.0	<0.5	<5.0	35.0	345.0	18.0	33.0	1.0	3.0	626.0	34.	1.	3.
VA03586	139.60	140.00	1700.0	8800.0	500.0	5.8	41.0	41.0	205.0	14.0	26.0	5.0	4.0	1397.0	95.	1.	7.
VA03587	140.00	141.00	80.0	207.0	135.0	<0.5	6.0	22.0	60.0	38.0	<5.0	2.0	3.0	710.0	61.	1.	3.
VA03588	155.70	156.70	540.0	118.0	53.0	<0.5	<5.0	37.0	39.0	<5.0	13.0	5.0	<1.0	1104.0	69.	1.	6.
VA03589	156.70	157.70	380.0	178.0	56.0	0.7	<5.0	36.0	34.0	<5.0	<5.0	3.0	<1.0	757.0	76.	2.	5.
VA03592	157.70	158.50	430.0	223.0	104.0	0.5	16.0	52.0	37.0	7.0	36.0	5.0	<1.0	877.0	68.	0.	5.
VA03590	158.50	159.50	420.0	240.0	74.0	1.1	6.0	56.0	44.0	<5.0	<5.0	4.0	<1.0	925.0	76.	4.	5.
VA03591	159.50	160.50	460.0	174.0	84.0	<0.5	19.0	36.0	39.0	<5.0	14.0	5.0	<1.0	867.0	67.	4.	5.
VA03593	160.50	161.50	290.0	155.0	65.0	1.0	18.0	30.0	35.0	<5.0	16.0	4.0	<1.0	653.0	70.	4.	4.
VA03594	181.70	182.20	550.0	201.0	46.0	0.7	<5.0	32.0	37.0	<5.0	18.0	3.0	<1.0	853.0	81.	1.	4.
VA03595	192.30	193.30	190.0	146.0	40.0	0.6	13.0	33.0	41.0	<5.0	6.0	3.0	<1.0	725.0	78.	1.	4.
VA03596	206.00	206.60	410.0	329.0	55.0	0.8	20.0	37.0	44.0	<5.0	<5.0	4.0	1.0	1059.0	86.	1.	5.
VA03597	247.00	248.00	2200.0	122.0	88.0	1.0	10.0	30.0	71.0	10.0	11.0	5.0	<1.0	1048.0	58.	1.	6.
VA03598	250.80	251.80	1000.0	126.0	62.0	0.9	<5.0	20.0	41.0	30.0	23.0	4.0	1.0	593.0	67.	1.	4.
VA03599	251.80	253.10	1700.0	68.0	72.0	0.8	45.0	36.0	85.0	7.0	28.0	5.0	1.0	1232.0	49.	1.	6.

Summary Log: DDH CH88-47
Location: 29+00 E, 2+10 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 2, 1988
Core logged by: J. Pattison

0.0	9.6	Casing.
9.6	17.3	Feldspar porphyritic gabbro
17.3	20.4	Mafic to intermediate tuffaceous sediments
20.4	27.7	Massive mafic flow
27.7	50.5	Feldspar porphyritic gabbro
50.5	62.5	Massive mafic flow
62.5	79.7	Mafic porphyritic mafic flow or sill
79.7	92.4	Mafic to intermediate tuffaceous sediments
92.4	96.0	Tuffaceous conglomerate
96.0	122.9	Mafic to intermediate tuffaceous sediments
122.9	154.8	Feldspar porphyritic gabbro
154.8	170.8	Mafic to intermediate tuffaceous sediments
170.8	188.0	Feldspar porphyritic gabbro
188.0	193.5	Cherty felsic tuffite
193.5	206.8	Cherty black argillite with 3-5 % fracture controlled py
206.8	210.1	Tuffaceous sediments
210.1	214.6	Mafic porphyritic mafic flow or sill
214.6	236.4	Cherty black argillite with 3 % fracture controlled pyrite
236.4	247.1	Felsic volcanic wacke
247.1	260.0	Cherty felsic tuff/tuffite
260.0	264.0	Cherty black argillite
264.0	294.4	Felsic lithic tuff with felsic ash tuff beds Up to 30 % ash to lapilli-sized clasts of cherty sediments, quartz and very rarely pyrite.

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-47 | Page Number 1

Hole Location: 29+00 E 2+10 S

NTS: 92B13 UTM: 5416799.6 N 430125.5 E
Azimuth: 210 Elevation: 519 m
Dip: -50 Length: 294.4 m

Started: 28-April-88
Completed: 2-May-88

Claim No. Chip 1
Section No.: 29+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size:

Purpose: To outline stratigraphy south of the active tuff. DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
18.60	212.0	-50.0	294.40	215.0	-49.0
152.70	214.0	-50.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	9.6	OVERBURDEN											
9.6	17.3	FELDSPAR PORPHYRITIC GABBRO Medium green, medium to fine-grained with up to 25 % 1-3 mm feldspar phenocrysts and trace to 1 % finely disseminated ilmenite. Weakly glomeroporphyritic. Fine-grained and non porphyritic below 13.7 m. Broken core at the lower contact but it appears to be at 50 degrees to core axis. 11.0 12.7 Xenolith of fine-grained FELSIC TUFF. Medium brown-green moderate spotty chloritization and weak pervasive thermal biotite alteration. Trace disseminated pyrite. Broken core at the upper contact. Lower contact is at 50 degrees to core axis.											
17.3	20.4	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Light green to medium brown, weakly to moderately cherty. Generally intermediate in composition but ranges into felsic compositions. Lower contact is at 55 degrees to core axis. STRUCTURE:. At 18.3 m bedding is at 65 degrees to core axis. 19.3-19.7 M bed is nearly parallel to the core axis. ALTERATION:. 17.3 20.4 WEAK PERVASIVE CHLORITIZATION.	VA02814	17.3	27.7	10.4	n/a	128	n/a	62	n/a	n/a	109

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-47 Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		17.6 17.8 Finely bedded section. Beds are deformed (soft sediment deformtion?) and run at 0-60 degrees to core axis.											
20.4	27.7	MAFIC FLOW Massive, medium grey-green with 5 % pale yellow epidote+carbonate alteration patches up to 15 cm wide. Lower contact is difficult to pinpoint. There appears to be some assimilation with the gabbro below. ALTERATION:. 20.4 27.7 WEAK SPOTTY EPIDOTIZATION , WEAK SPOTTY EPIDOTIZATION, WEAK FRACTURE CONTROLLED CARBONATIZATION and weak fracture controlled hematization.											
27.7	50.5	FELDSPAR PORPHYRITIC GABBRO As 9.6 to 17.3 m. Quartz +/- carbonate filled fractures are common. Broken core at lower contact but it appears to be at 75 degrees to core axis. STRUCTURE:. At 32.0 m 3.0 cm fault gouge at 50 degrees to core axis. 33.3-33.5 M two fault gouges < 2.0 cm wide at 30 to 50 degrees to core axis. 45.1 45.9 Xenolith of MAFIC TUFFACEOUS SEDIMENT. Medium green-brown, fine-grained and massive. Upper contact is sharp but irregular at 50-60 degrees to core axis and lower contact is sharp at 45 degrees to core axis.											
50.5	62.5	MAFIC FLOW Similiar to 20.4 to 27.7 m. Finely bedded ash tuffs over the first 0.2 m. Locally wkly mafic porphyritic. Tuffaceous in appearance between 55.0 and 56.7 m and between 62.0 and 62.5 m. Lower contact arbitrarily placed where mafic phenocrysts become conspicuous. STRUCTURE:. At 50.6 m bedding is at 48 degrees to core axis. At 55.0 m bedding is at 50 degrees to core axis. ALTERATION:. 50.5 62.5 WEAK SPOTTY EPIDOTIZATION. Epidote+carbonate patches up to 0.1 m wide.	VA02815	50.5	62.5	12.0	n/a	103	n/a	67	n/a	n/a	170

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
62.5	79.7	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Similiar to 50.5 to 62.5 m but slightly darker green and up to 25 % 1-3 mm subhedral chloritic mafic (chlorite replacing hornblende/pyroxene) phenocrysts. Lower contact is sharp at 65 degrees to core axis. STRUCTURE:. At 66.2 m bedding is at 30 degrees to core axis. At 67.0 m bedding is at 52 degrees to core axis. ALTERATION:. 62.5 79.7 WEAK SPOTTY EPIDOTIZATION to MODERATE SPOTTY EPIDOTIZATION. 66.2 67.0 Dark brown TUFFACEOUS SEDIMENTS with 3.0 cm block of mafic flow.	VA02816	62.5	79.9	17.4	n/a	41	n/a	87	n/a	n/a	182
79.7	92.4	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Mafic ash tuff, medium grey-green, volcanic wackes with light pinkish grey cherty beds up to 5.0 cm thick. Nil to moderate thermal biotite alteration. Thermal biotite alteration appears to be related to the original composition of the rock because the intensity of alteration changes from bed to bed. Lower contact is a bedding contact at 45 degrees to core axis. STRUCTURE:. At 82.4 m bedding is at 55 degrees to core axis and is offset 1.0 cm by a microfault at 30 degrees to core axis. At 89.0 m bedding is at 25 degrees to core axis. At 92.2 m bedding is at 50 degrees to core axis. ALTERATION:. 79.7 92.4 WEAK PERVASIVE CHLORITIZATION and nil to weak thermal biotite alteration. 83.1 83.7 Broken, ripped up beds of cherty sediments throughout the interval. SULPHIDES:. 92.0-92.4 m 2 % pyrrhotite and pyrite in fractures and fine (<2 mm) bands parallel to bedding. 84.5 86.0 Bleached, silicified altered zone. Alteration appears to be fracture controlled. Trace fracture controlled pyrite.	VA02817	79.9	100.0	20.1	n/a	68	n/a	84	n/a	n/a	218
			VA03600	84.0	85.0	1.0	1	68	<5	18	1	13	<20
			VA03601	85.0	86.0	1.0	1	22	<5	11	<1	<5	30
			VA03602	92.0	92.5	.5	2	202	<5	78	1	<5	490
92.4	96.0	TUFFACEOUS CONGLOMERATE											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		10 % subangular to angular light green to grey granule to pebble-sized clasts of quartz, chert and epidotized mafics (?) in a grey-brown moderately carbonatized matrix. Epidote spots are rare above 93.6 m. Lower contact is at 45 degrees to core axis.											
		ALTERATION:.											
		92.4 96.0 MODERATE PERVASIVE CARBONATIZATION.											
96.0	122.9	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Intercalated mafic ash tuffs and cherty mafic to intermediate tuffaceous sediments. Similiar to 79.7 to 92.4 m except cherty beds are less common and are light green to brown. Dark brown cherty beds become thicker and more common below 105.0 m. Lower contact is at 70 degrees to core axis.	VA02818	100.0	122.9	22.9	n/a	64	n/a	93	n/a	n/a	1720
			VA03603	117.5	118.5	1.0	1	99	7	73	1	17	990
		STRUCTURE:.											
		100.2-100.4 m 2.0 cm fault gouge at 10 degrees to core axis											
		At 100.9 m bedding is at 55 degrees to core axis. Bedding is offset by many microfaults at 20 degrees to core axis.											
		At 104.8 m bedding is at 55 degrees to core axis.											
		109.4-111.0 M bedding is broken up, contorted and runs at all angles degrees to core axis (soft sediment deformation ?).											
		At 111.3 bedding is at 50 degrees to core axis.											
		At 117.6 m bedding is at 60 degrees to core axis.											
		At 121.0 m bedding is at 54 degrees to core axis.											
		SULPHIDES:.											
		117.5-118.5 m 1 % fracture controlled pyrite.											
		113.0 113.4 Cherty tuff is moderately microfractured, microfractures and gashes are filled with chlorite.											
		117.5 118.1 Cherty, finely bedded interval with 1 % fracture controlled pyrite.											
		119.1 120.0 Bleached altered zone: many quartz +/- carbonate filled fractures. Nil thermal biotite alteration.											
		120.0 122.8 Medium brown, thermal biotite altered bands of tuffaceous sediments up to 18 cm thick alternate with green weakly bleached ash tuff beds up to 22 cm thick.											
122.9	154.8	FELDSPAR PORPHYRITIC GABBRO											

From (m)	To (m)	DESCRIPTION
		As 9.6 to 17.3 m. 5.0 cm zone of assimilation at the upper contact. Up to Several fine-grained non porphyritic weakly to moderately sheared zones up to 1.3 m long. Finer grained and less than 5 % feldspar phenocrysts below 138.3 m. Lower contact is vague due to assimilation. STRUCTURE:. 131.0-132.3 M rock is weakly sheared at 30 degrees to core axis and carbonatized. 124.3 888.8 7.0 cm biotite rich band (xenolith?) at 57 degrees to core axis. 136.1 136.3 Non porphyritic moderately carbonatized zone at 65-70 degrees to core axis.
154.8	170.8	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Unit consists of medium green mafic ash to lapilli tuffs (above 162.5 m) and green-brown weakly to moderately thermal biotite altered weakly to moderately cherty volcanic wacke with minor amounts of pale green to brown cherty sediments. STRUCTURE:. At 155.3 m foliation is at 55 degrees to core axis. At 155.6 bedding is at 47 degrees to core axis. At 158.0 bedding is at 55 degrees to core axis. At 165.8 bedding is at 50 degrees to core axis. At 170.4 bedding is at 55 degrees to core axis. At 170.5 m 0.3 cm fault gouge at 25 degrees to core axis. SULPHIDES:. 154.8 158.0 2-3% pyrite in hairline fractures. At 164.4 m few specks of chalcopyrite. 163.8-164.9 M bedding is contorted, broken up and offset up to 1.0 cm by numerous microfaults. 170.0-170.8 m 2 % pyrite in 2 mm beds and fracture controlled. 158.0 158.7 MAFIC LAPILLI TUFF: 5 % dark green, chloritic 3-30 mm fragments stretched 3:1 or more parallel to foliation. Occasional cherty clast. Upper and lower contacts are parallel to bedding at 45 degrees to core axis.
170.8	188.0	FELDSPAR PORPHYRITIC GABBRO As 9.6 to 17.3 m. Non feldspar porphyritic, weakly to moderately carbonatized zones are common. Broken core at the lower contact.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA02819	154.8	170.8	16.0	n/a	106	n/a	102	n/a	n/a	1350
VA03604	154.8	156.0	1.2	3	101	7	80	1	27	540
VA03605	156.0	157.0	1.0	3	104	6	75	1	22	440
VA03606	157.0	158.0	1.0	3	101	6	65	1	47	300
VA03607	158.0	159.0	1.0	1	90	5	92	1	31	980
VA03608	159.0	160.0	1.0	1	88	<5	91	1	5	230

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-47 Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		172.0 174.3 Fine-grained slightly, sheared, moderately carbonatized, non feldspar porphyritic section. The zone has sharp upper and lower contacts at 60-70 degrees to core axis.											
188.0	193.5	CHERTY FELSIC TUFF / TUFFITE Mottled light pink to green to brown, finely bedded cherty felsic ash tuff above 190.5 m. Becomes a coarser (ie sand to granule) volcanic wacke / tuffite below this depth. Bedding is less recognizable, rock is green-grey and ranges into intermediate compositions. Two intermediate feldspar crystal tuff beds < 0.2 m thick. Broken core at the lower contact. STRUCTURE:. At 188.4 bedding is at 70 degrees to core axis. Bedding is offset an unknown ammount by slips at 15 degrees to core axis. At 192.3 bedding is at 65 degrees to core axis.	~~VA02820~~	~~188.0~~	~~193.5~~	~~5.5~~	~~n/a~~	~~115~~	~~n/a~~	~~74~~	~~n/a~~	~~n/a~~	~~3130~~
			VA03609	188.0	189.0	1.0	1	60	<5	33	1	5	2900
			VA03610	189.0	190.0	1.0	1	43	6	51	<1	<5	3700
			VA03611	190.0	191.0	1.0	1	144	<5	102	<1	12	2700
			VA03612	191.0	192.0	1.0	1	184	<5	81	1	<5	1800
			VA03613	192.0	193.0	1.0	1	152	<5	79	<1	<5	1900
			VA03614	193.0	193.5	.5	1	131	<5	86	1	<5	2600
						5.5		142	<5	86	1	5	3120
193.5	203.7	BLACK ARGILLITE Black, cherty moderately graphitic argillite with 3 % fracture controlled and disseminated pyrite. Soft sediment deformation is common. Light grey beds of tuffaceous sediment up to 0.1 m thick are common. The lower contact is gradational over 5.0 cm. STRUCTURE:. At 193.7 m bedding is at 67 degrees to core axis. At 194.0 m 0.5 cm graphitic fault gouge at 30 degrees to core axis. At 194.3 1.0 cm fault gouge at 40 degrees to core axis. 200.1-202.0 M FAULT ZONE at 20-30 degrees to core axis. Rock is crushed over entire interval and there are numerous fault gouges the largest of which is 0.1 m long at 201.4 m. ALTERATION:. 193.5 203.7 WEAK FRACTURE CONTROLLED CARBONATIZATION. SULPHIDES:. 193.5-203.7 m 3 % fracture controlled pyrite. At 196.3 m fracture controlled chalcopyrite.	VA03615	193.5	194.5	1.0	3	88	8	110	<1	<5	2900
			VA03616	194.5	195.5	1.0	3	46	8	108	1	<5	5100
			VA03617	195.5	196.5	1.0	3	44	10	105	1	<5	5400
			VA03618	196.5	197.5	1.0	3	30	7	108	1	14	6000
			VA03619	197.5	198.5	1.0	3	29	7	80	1	<5	2900
			VA03620	198.5	199.5	1.0	3	39	8	124	1	9	4200
			VA03621	199.5	200.5	1.0	3	31	8	116	1	7	1800
			VA03622	200.5	201.5	1.0	3	32	8	114	1	64	2900
			VA03623	201.5	202.5	1.0	3	59	22	138	1	41	3300
			VA03624	202.5	203.7	1.2	3	18	6	71	<1	<5	1300
						10.2		42	9	107	1	15	3580
203.7	205.5	GREYWACKE Light grey-brown, massive with 30 % 1-2 mm biotite flakes. Biotite flakes have creamy brown reaction rims. Cherty	VA03625	203.7	204.7	1.0	1	76	<5	98	<1	<5	1300
			VA03626	204.7	205.7	1.0	1	50	<5	90	<1	<5	1600
						2.0		63	<5	94	<1	<5	1450

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		light green siltstone over the first 0.3 m. Broken core at lower contact. ALTERATION:. 193.5 203.7 Moderate spotty biotite alteration.											
205.5	206.8	BLACK ARGILLITE Similiar to 193.5 to 203.7 m except somewhat more cherty. Trace fracture controlled pyrite. Lower contact is at 30 degrees to core axis. STRUCTURE:. At 206.0 bedding is at 45 degrees to core axis and is offset by numerous microfaults at 30-40 degrees to core axis. 206.0 888.8 14 mm bed of felsic ash tuff with 5 % pyrite. ALTERATION:. 205.6 206.8 WEAK FRACTURE CONTROLLED CARBONATIZATION.	VA03627	205.5	206.8	1.3	1	17	<5	50	<1	<5	1300
206.8	208.8	CHERTY FELSIC TUFF / TUFFITE Light green, cherty, moderately microfractured felsic tuff. 10 % white hazy 2-10 mm felsic lapilli at 208.0 m. Lower contact is irregular at 70-80 degrees to core axis. STRUCTURE:. At 207.7 m bedding is at 30 degrees to core axis. 206.8 208.8 WEAK PERVASIVE CHLORITIZATION.	VA03628	206.8	207.8	1.0	1	26	7	68	<1	<5	210
208.8	210.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Medium green-brown coarse volcanic wacke. Occasional pale cherty bed or rip-up clast up to 1.0 cm thick. Broken core at the lower contact. STRUCTURE:. At 210.0 m bedding is at 50 degrees to core axis.											
210.1	214.6	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Fine to medium-grained with up to 30 % 2-3 mm biotitic and chloritic mafic phenocrysts (pyroxene?). Nil sulphides. 3.0 cm wide carbonate+chlorite+biotite vein at 40 degrees to core axis at the lower contact.	VA03629	214.2	215.2	1.0	1	62	<5	95	<1	<5	3800
214.6	215.2	GREYWACKE Coarse thermal biotite altered greywacke. Cherty for 0.1 m above the lower contact. Lower contact is at 45 degrees to core axis.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-47 Page Number 8

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
215.2	236.4	BLACK ARGILLITE As 193.5 to 203.7 m. Weakly to moderately microfractured and locally brecciated. Core is blocky over most of the interval. Lower contact is irregular, possibly errosional, at 10 degrees to core axis. STRUCTURE:. 216.4-217.2 M rock is blocky, 0.2 m of lost core. At 217.6 m bedding is at 35 degrees to core axis. 219.0-219.4 m 3 mm fault gouge runs at 10 degrees to core axis. Fault breccia on downhole side of the flt. At 200.0 m 3 mm fault gouge at 30 degrees to core axis. At 222.0 m 5 mm ptygmatically folded bed of felsic ash tuff with 10 % pyrite. At 222.8 m bedding is at 50 degrees to core axis. 222.1-226.0 M blocky, highly fractured core. 0.3 m of lost core. 230.5-230.8 M bedding is nearly parallel to the core axis. 232.0-235.8 M blocky, highly fractured core, 1.4 m of lost core. At 234.0 m bedding is at 20 degrees to core axis. ALTERATION:. 215.2 WEAK FRACTURE CONTROLLED CARBONATIZATION. SULPHIDES:. 215.2 236.4 3% pyrite fracture controlled and rarely in beds up to 3 mm thick.	VA03630 VA03631 VA03632 VA03633 VA03634 VA03635 VA03636 VA03637 VA03638 VA03639 VA03640 VA03641 VA03642 VA03643 VA03644 VA03645 VA03646 VA03647 VA03648	215.2 216.2 217.2 218.2 219.2 220.2 221.2 222.0 223.0 224.0 225.0 226.0 227.0 228.0 229.0 230.0 231.0 232.0 234.0	216.2 217.2 218.2 219.2 220.2 221.2 222.0 223.0 224.0 225.0 226.0 227.0 228.0 229.0 230.0 231.0 232.0 234.0 236.4	1.0 1.0 1.0 1.0 1.0 1.0 .8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0 2.4 21.2	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	27 40 54 141 53 37 36 46 40 46 48 41 32 26 40 23 38 33 17 43	7 7 9 41 8 6 <5 8 6 7 7 7 7 <5 7 <5 9 5 7 8	79 86 105 247 105 75 84 81 85 91 152 111 93 93 71 92 90 92 70 100	<1 1 1 1 1 1 <1 1 1 1 1 1 1 <1 1 <1 1 1 <1 1	<5 <5 <5 9 <5 <5 <5 <5 <5 5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	3300 2000 1600 2200 2300 2000 1500 2100 2200 1500 1300 1200 1400 1200 1900 1400 720 1900 3300 1843
236.4	247.1	IMMATURE VOLCANIC WACKE Composed of 70 % sand to granule-sized subrounded quartz grains and 10% pebble-sized cherty lithic clasts in a biotite rich matrix. Massive, bedding is rare. Lower contact is at 20 degrees to core axis. ALTERATION:. 215.2 247.1 Moderate pervasive thermal biotite alteration. 238.0 888.8 Two 2-4 cm long clasts of argillite.	VA03649	236.4	237.4	1.0	3	9	40	83	<1	<5******	
247.1	260.0	CHERTY FELSIC TUFF / TUFFITE Light green felsic ash tuff with minor siltstone beds and argillaceous clasts. 5.0 Cm of argillite at the upper contact and an argillaceous sediment runs parallel to to the core axis between 248.0 and 248.6 m. Quite massive, bedding is rare. Locally microfractured. Minor fault gouge at 35 degrees to core axis at the lower	~~VA02821~~	~~247.1~~	~~260.0~~	~~12.9~~	~~n/a~~	~~13~~	~~n/a~~	~~99~~	~~n/a~~	~~n/a~~	~~2510~~

U 3.2 Cu: 54 Pb: 8 Zn 97 Ag 1 Au 5 Ba 2462

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		contact. STRUCTURE:. At 247.1 m bedding is at 15-20 degrees to core axis. 249.0 250.2 M blocky, highly fractured core. 0.2 m of lost core. 256.7-256.8 M fault gouge at 35 degrees to core axis. ALTERATION:. 247.1 260.0 WEAK PERVASIVE SERICITIZATION.											
260.0	264.0	BLACK ARGILLITE Black cherty moderately graphitic argillite with 3 % fracture controlled pyrite. Black argillite and greywacke over the first 0.9 m. Bedding is nearly parallel to the core axis. Minor quartz-carbonate filled fractures. Becomes a light grey argillaceous siltstone below 162.6 m. Lower contact is at 15 degrees to core axis. STRUCTURE:. At 263.2 m 0.3 cm fault gouge at 40 degrees to core axis.											
264.0	266.8	FELSIC TUFF Composed of 5 % <1 mm feldspar crystals is a very fine-grained siliceous light grey-green matrix. Rock is darker grey above 265.5 m due to argillite contamination. Ripped up beds of argillite are common. Nil sulphides. Lower contact is at 30 degrees to core axis. ALTERATION:. 264.0 266.8 WEAK PERVASIVE SERICITIZATION.	~~VA02822~~	~~264.0~~	278.0	14.0	n/a	19	n/a	128	n/a	n/a	2950
266.8	273.9	FELSIC LITHIC TUFF 30 % ash to lapilli-sized (most < 3 mm in diameter) subangular lithic fragments (cherty sediments and quartz) and epidotized feldspar crystals in light grey-green, fine-grained siliceous matrix. Felsic to intermediate in overall composition and massive (bedding rarely observered). Lower contact appears to be gradational but occurs along in a fault zone at 20 degrees to core axis. STRUCTURE:. 273.4-273.9 M FAULT ZONE at 20 degrees to core axis. ALTERATION:. 266.8 274.9 WEAK PERVASIVE SERICITIZATION and locally WEAK SPOTTY EPIDOTIZATION.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-47

From (m)	To (m)	DESCRIPTION
		273.6 273.9 FELSIC ASH TUFF BED AT 15 degrees to core axis.
273.9	278.0	FELSIC TUFF Up to 10 % < 1 mm feldspar crystals in a massive, fine-grained light grey-green quartz rich matrix with < 2 % lapilli-sized cherty lithic clasts. Nil to trace fracture controlled pyrite. Lower contact is gradational over 0.1 m. ALTERATION:. 273.9 278.0 WEAK PERVASIVE SERICITIZATION.
278.0	294.4	FELSIC LITHIC TUFF Similiar to 266.8 to 273.9 m except somewhat finer grained. Up to 20 % 2-4 mm cherty, fine-grained lithic and quartz clasts and 10 % ash-sized feldspar crystals in a quartz rich fine-grained matrix. Barren of sulphides except for a 2.0 cm pyrite clast at 279.6 m. Nil to trace disseminated pyrite. 0.5 X 4.0 cm pyrite clasts at 289.0 m and 293.0 m. Grades into an ash tuff at the bottom of the hole. STRUCTURE:. At 292.7 1.0 cm fault gouge at 25 degrees to core axis. ALTERATION:. 278.0 294.4 WEAK PERVASIVE SERICITIZATION.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA02823	278.0	294.4	16.4	n/a	24	n/a	131	n/a	n/a	1760

Cu : 40

~~92.5~~ 321

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02336	15.70	15.90	51.90	14.10	11.30	4.97	0.24	0.03	12.30	1.50	0.15	0.16	3.47	100.12	53.	30.	12.
VA02337	23.70	24.00	47.90	17.90	6.64	6.66	4.12	0.26	11.90	0.95	0.18	0.20	3.39	100.10	208.	39.	11.
VA02338	53.20	53.50	50.00	17.80	6.02	6.59	4.61	0.61	10.10	0.94	0.18	0.19	3.08	100.12	435.	40.	11.
VA02339	64.00	64.50	49.10	14.70	11.70	7.78	2.70	0.24	10.20	0.59	0.14	0.18	2.00	99.33	93.	36.	14.
VA02340	74.00	74.50	49.70	14.30	10.20	7.54	3.19	0.26	9.69	0.58	0.14	0.14	2.47	98.21	183.	37.	13.
VA02341	86.40	86.90	58.60	15.80	5.77	3.37	7.36	0.17	5.87	0.85	0.23	0.11	1.23	99.36	149.	21.	13.
VA02342	94.50	95.00	48.40	17.20	8.52	6.28	4.26	0.74	8.71	0.67	0.16	0.22	4.31	99.47	805.	35.	13.
VA02343	111.00	111.30	53.10	18.00	2.43	6.77	4.43	2.59	9.10	0.78	0.22	0.09	2.93	100.44	1160.	58.	7.
VA02344	160.50	161.00	51.30	16.20	4.17	8.04	4.68	0.56	9.62	0.68	0.23	0.16	3.47	99.11	686.	49.	9.
VA02345	208.00	208.20	68.40	9.69	6.87	1.78	4.58	0.14	2.85	0.44	0.11	0.07	5.31	100.24	178.	14.	11.
VA02346	210.70	211.20	45.00	13.70	12.80	9.12	1.15	1.07	11.60	1.85	0.42	0.20	3.16	100.07	1940.	42.	14.
VA02347	256.00	256.40	69.70	14.50	1.12	2.99	0.68	3.57	3.23	0.39	0.09	0.11	3.31	99.69	2710.	78.	2.
VA02348	266.00	266.40	70.90	13.90	1.49	2.52	1.06	2.40	2.85	0.33	0.06	0.10	3.16	98.77	2770.	66.	3.
VA02349	273.10	273.30	68.00	13.90	3.82	2.10	3.90	0.40	4.31	0.55	0.14	0.15	2.16	99.43	675.	24.	8.
VA02350	277.00	277.40	68.90	15.30	1.81	2.35	1.17	2.65	3.44	0.41	0.06	0.11	2.77	98.97	3210.	63.	3.
VA02351	287.70	288.00	66.50	15.90	2.79	2.29	2.00	2.01	3.83	0.51	0.09	0.14	2.77	98.83	1970.	47.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02814	17.30	27.70	47.00	17.40	13.90	3.71	2.47	0.17	11.20	0.74			3.47	100.06	109.	19.	16.
VA02815	50.50	62.50	44.30	18.70	13.30	3.48	2.52	0.30	11.20	0.78			3.54	98.12	170.	19.	16.
VA02816	62.50	79.90	49.90	14.70	9.92	7.84	3.38	0.28	9.92	0.61			3.39	99.94	182.	38.	13.
VA02817	79.90	100.00	49.40	15.80	10.70	5.80	4.18	0.32	8.99	0.82			3.77	99.78	218.	29.	15.
VA02818	100.00	122.90	47.80	15.70	9.00	6.61	2.25	2.91	8.97	0.74			4.23	98.21	1720.	46.	11.
VA02819	154.80	170.80	48.20	14.50	9.82	7.25	1.99	1.90	9.42	0.65			3.93	97.66	1350.	44.	12.
VA02820	188.00	193.50	61.90	13.10	4.26	4.74	1.74	1.63	7.22	0.62			4.39	99.60	3130.	52.	6.
VA02821	247.10	260.00	70.90	13.40	2.17	2.35	1.27	3.17	2.92	0.34			3.00	99.52	2510.	62.	3.
VA02822	264.00	278.00	66.50	15.30	2.70	2.41	2.03	2.00	3.97	0.49			3.39	98.79	2950.	48.	5.
VA02823	278.00	294.40	69.80	13.40	2.69	2.13	2.33	1.34	3.63	0.44			2.39	98.15	1760.	41.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03600	84.00	85.00	<20.0	68.0	18.0	0.7	13.0	10.0	18.0	<5.0	<5.0	2.0	<1.0	404.0	79.	1.	2.
VA03601	85.00	86.00	30.0	22.0	11.0	<0.5	<5.0	4.0	8.0	<5.0	15.0	2.0	<1.0	170.0	67.	1.	1.
VA03602	92.00	92.50	490.0	202.0	78.0	0.8	<5.0	36.0	20.0	<5.0	7.0	4.0	<1.0	1090.0	72.	2.	7.
VA03603	117.50	118.50	990.0	99.0	73.0	0.9	17.0	25.0	38.0	7.0	12.0	4.0	1.0	565.0	58.	1.	5.
VA03604	154.80	156.00	540.0	101.0	80.0	0.8	27.0	25.0	43.0	7.0	42.0	5.0	1.0	692.0	56.	3.	5.
VA03605	156.00	157.00	440.0	104.0	75.0	0.8	22.0	25.0	39.0	6.0	44.0	3.0	1.0	523.0	58.	3.	4.
VA03606	157.00	158.00	300.0	101.0	65.0	1.0	47.0	22.0	32.0	6.0	34.0	3.0	1.0	491.0	61.	3.	5.
VA03607	158.00	159.00	980.0	90.0	92.0	1.1	31.0	32.0	88.0	5.0	18.0	5.0	<1.0	959.0	49.	1.	6.
VA03608	159.00	160.00	230.0	88.0	91.0	1.0	5.0	16.0	37.0	<5.0	35.0	4.0	1.0	676.0	49.	1.	5.
VA03609	188.00	189.00	2900.0	60.0	33.0	0.6	5.0	8.0	16.0	<5.0	18.0	2.0	1.0	462.0	65.	1.	3.
VA03610	189.00	190.00	3700.0	43.0	51.0	<0.5	<5.0	3.0	15.0	6.0	<5.0	<1.0	4.0	362.0	46.	1.	2.
VA03611	190.00	191.00	2700.0	144.0	102.0	<0.5	12.0	23.0	32.0	<5.0	16.0	2.0	2.0	1174.0	59.	1.	5.
VA03612	191.00	192.00	1800.0	184.0	81.0	0.5	<5.0	34.0	36.0	<5.0	13.0	3.0	2.0	1512.0	69.	1.	7.
VA03613	192.00	193.00	1900.0	152.0	79.0	<0.5	<5.0	31.0	40.0	<5.0	5.0	4.0	<1.0	1371.0	66.	1.	6.
VA03614	193.00	193.50	2600.0	131.0	86.0	0.6	<5.0	30.0	52.0	<5.0	23.0	3.0	1.0	1710.0	60.	1.	6.
VA03615	193.50	194.50	2900.0	88.0	110.0	<0.5	<5.0	9.0	32.0	8.0	11.0	2.0	2.0	601.0	44.	3.	4.
VA03616	194.50	195.50	5100.0	46.0	108.0	0.7	<5.0	2.0	24.0	8.0	<5.0	<1.0	3.0	250.0	30.	3.	3.
VA03617	195.50	196.50	5400.0	44.0	105.0	0.9	<5.0	2.0	23.0	10.0	27.0	1.0	4.0	349.0	30.	3.	3.
VA03618	196.50	197.50	6000.0	30.0	108.0	0.5	14.0	<1.0	18.0	7.0	10.0	<1.0	3.0	328.0	22.	3.	3.
VA03619	197.50	198.50	2900.0	29.0	80.0	0.6	<5.0	<1.0	20.0	7.0	7.0	<1.0	4.0	420.0	27.	3.	2.
VA03620	198.50	199.50	4200.0	39.0	124.0	1.1	9.0	2.0	26.0	8.0	<5.0	1.0	5.0	306.0	24.	3.	3.
VA03621	199.50	200.50	1800.0	31.0	116.0	0.7	7.0	<1.0	28.0	8.0	13.0	<1.0	5.0	304.0	21.	3.	2.
VA03622	200.50	201.50	2900.0	32.0	114.0	0.6	64.0	<1.0	21.0	8.0	16.0	1.0	4.0	563.0	22.	3.	2.

Hole No. CH88-47

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03623	201.50	202.50	3300.0	59.0	138.0	1.0	41.0	10.0	40.0	22.0	24.0	<1.0	2.0	593.0	30.	3.	4.
VA03624	202.50	203.70	1300.0	18.0	71.0	<0.5	<5.0	<1.0	8.0	6.0	9.0	<1.0	1.0	360.0	20.	3.	2.
VA03625	203.70	204.70	1300.0	76.0	98.0	<0.5	<5.0	43.0	212.0	<5.0	25.0	3.0	2.0	1257.0	44.	1.	6.
VA03626	204.70	205.70	1600.0	50.0	90.0	<0.5	<5.0	48.0	216.0	<5.0	7.0	3.0	2.0	1324.0	36.	1.	6.
VA03627	205.50	206.80	1300.0	17.0	50.0	<0.5	<5.0	<1.0	9.0	<5.0	<5.0	<1.0	<1.0	381.0	25.	1.	2.
VA03628	206.80	207.80	210.0	26.0	68.0	<0.5	<5.0	10.0	54.0	7.0	7.0	<1.0	<1.0	654.0	28.	1.	3.
VA03629	214.20	215.20	3800.0	62.0	95.0	<0.5	<5.0	27.0	58.0	<5.0	16.0	3.0	2.0	1018.0	39.	1.	5.
VA03630	215.20	216.20	3300.0	27.0	79.0	<0.5	<5.0	<1.0	13.0	7.0	<5.0	1.0	26.0	437.0	25.	3.	2.
VA03631	216.20	217.20	2000.0	40.0	86.0	0.6	<5.0	2.0	23.0	7.0	25.0	<1.0	8.0	262.0	32.	3.	2.
VA03632	217.20	218.20	1600.0	54.0	105.0	0.7	<5.0	2.0	31.0	9.0	<5.0	<1.0	3.0	292.0	34.	3.	3.
VA03633	218.20	219.20	2200.0	141.0	247.0	1.3	9.0	6.0	28.0	41.0	11.0	1.0	2.0	318.0	36.	3.	3.
VA03634	219.20	220.20	2300.0	53.0	105.0	0.8	<5.0	6.0	26.0	8.0	<5.0	1.0	1.0	305.0	34.	3.	3.
VA03635	220.20	221.20	2000.0	37.0	75.0	0.6	<5.0	4.0	20.0	6.0	<5.0	<1.0	1.0	212.0	33.	3.	2.
VA03636	221.20	222.00	1500.0	36.0	84.0	<0.5	<5.0	2.0	17.0	<5.0	<5.0	<1.0	1.0	229.0	30.	3.	2.
VA03637	222.00	223.00	2100.0	46.0	81.0	0.6	<5.0	5.0	19.0	8.0	6.0	<1.0	<1.0	373.0	36.	3.	2.
VA03638	223.00	224.00	2200.0	40.0	85.0	0.6	<5.0	4.0	21.0	6.0	<5.0	<1.0	<1.0	235.0	32.	3.	2.
VA03639	224.00	225.00	1500.0	46.0	91.0	0.7	5.0	3.0	27.0	7.0	7.0	<1.0	2.0	223.0	34.	3.	2.
VA03640	225.00	226.00	1300.0	48.0	152.0	0.7	<5.0	3.0	36.0	7.0	<5.0	<1.0	2.0	240.0	24.	3.	2.
VA03641	226.00	227.00	1200.0	41.0	111.0	0.7	<5.0	3.0	25.0	7.0	6.0	<1.0	2.0	393.0	27.	3.	3.
VA03642	227.00	228.00	1400.0	32.0	93.0	0.6	<5.0	2.0	20.0	7.0	<5.0	1.0	1.0	267.0	26.	3.	2.
VA03643	228.00	229.00	1200.0	26.0	93.0	<0.5	<5.0	<1.0	20.0	<5.0	<5.0	<1.0	1.0	279.0	22.	3.	2.
VA03644	229.00	230.00	1900.0	40.0	71.0	0.7	<5.0	2.0	21.0	7.0	15.0	<1.0	2.0	387.0	36.	3.	3.
VA03645	230.00	231.00	1400.0	23.0	92.0	<0.5	<5.0	1.0	17.0	<5.0	<5.0	<1.0	1.0	308.0	20.	3.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA03646	231.00	232.00	720.0	38.0	90.0	0.6	<5.0	<1.0	22.0	9.0	11.0	<1.0	3.0	398.0	30.	3.	2.
VA03647	232.00	234.00	1900.0	33.0	92.0	0.5	<5.0	3.0	19.0	5.0	<5.0	<1.0	2.0	358.0	26.	3.	2.
VA03648	234.00	236.40	3300.0	17.0	70.0	<0.5	<5.0	2.0	7.0	7.0	<5.0	<1.0	2.0	412.0	20.	3.	2.
VA03649	236.40	237.40	3500.0	9.0	83.0	<0.5	<5.0	3.0	10.0	40.0	<5.0	<1.0	3.0	562.0	10.	3.	2.

Summary Log: DDH CH88-48
Location: 27+00 E, 1+61 S; Chip 1 Claim
Azimuth: 210, Dip: -45
Hole Completed: May 1, 1988
Core Logged By: D.P. Money

0.0	6.7	Casing.
6.7	50.1	Gabbro.
50.1	94.6	Pyritic felsic crystal lapilli tuff with 1.8 m of semi-massive to massive pyrite from 90.5 to 92.3 m.
94.6	98.3	Gabbro.
98.3	109.6	Felsic crystal lapilli tuff with 1.1 m of 6 % pyrrhotite, 3 % pyrite and 1 % chalcopyrite from 106.3 to 107.4 m.
109.6	112.8	Gabbro.
112.8	128.2	Mafic crystal tuff.
128.2	152.1	Mafic hornblende bearing flow.
152.1	178.1	Andesitic tuffs and cherty sediments.
178.1	195.8	Mafic hornblende bearing flow.
195.8	242.6	Mafic crystal and lapilli tuffs with cherty sediments intercalated.
242.6	246.6	Gabbro.
246.6	256.3	Andesitic tuffs and cherty sediments.
256.3		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-48 | Page Number 1

Hole Location: 27+00 E 1+61 S

NTS: 092/B13 UTM: 5416951.4 N 429985.6 E
Azimuth: 210 Elevation: 473 m
Dip: -45 Length: 256.3 m

Started: April 28, 1988
Completed: May 1, 1988

Claim No. CHIP1
Section No.: Line 27+00 East, Chip Group

Logged By: David P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test for PEM anomaly located in CHEM87-28 under the Anita Showing.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
15.20	211.0	-46.0	185.00	217.0	-44.0
91.40	210.0	-45.0	255.10	220.0	-45.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	6.7	OVERBURDEN											
6.7	50.1	MEDIUM TO COARSE-GRAINED GABBRO											
		6.7 31.7 Medium grained gabbro with approximately 60 % chloritized hornblendes, 35 % feldspars and 3 % ilmenite. There are numerous local feldspar rich 10 cm zones. There are minor quartz, calcite, epidote and chlorite veinlets. Ilmenite is disseminated, up to 3 mm crystals, purple in colour and is not magnetic. Is blocky, highly fractured core to 8.8 and locally throughout. Is oxidized to 10.7 m.											
		14.4 14.8 45 cm quartz -(chlorite) vein with 0.5 to 1 % chalcopyrite as up to 3 cm blebs.											
		31.7 34.8 Fine-grained dark green chloritic gabbro with 3 to 5 % ilmenite and 1 to 2 % chalcopyrite disseminated and as clots, up to 7 cm. The large chalcopyrite clot also has pyrite.											
		34.8 47.6 Coarse grained gabbro with up to 8 or 9 mm crystals. There is local epidotization. There is a white bull quartz vein from 46.0 to 46.6. Ilmenite locally is up to 7 to 10 % over 10 to 20 cm.											
		47.6 50.1 Fine-grained chilled margin phase with on average 7 %, 1 to 3 mm, feldspars and local fracture controlled epidotization and calcite veinlets.											
		Lost core :.											
		6.7 8.2 0.7 m lost core.											
		8.2 9.0 0.4 m lost core.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-48 Page Number 2

From (m)	To (m)	----------DESCRIPTION----------
50.1	94.6	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF ACTIVE TUFF - PYRITIC QUARTZ - SERICITE SCHIST. Sericitic felsic tuff, medium grey to light grey - white with up to 5 to 10 % crystals, , 2 mm, feldspars and quartz eyes. Locally no crystals are observed. Lapilli are up to 3 cm and are best observed when surrounded by pyrite or more sericitic matrix. Lapilli are usually medium grey and siliceous. Thermal biotite occurs from 50.1 to 52.3, the tuff is brown with local 1 to 6 mm biotite layers parallel to foliation. Pyrite content increases downhole. There are local sphalerite bands uphole with pyrite. Chalcopyrite is associated with the strong pyrite. Minor early maf sills occur at 73.7, and 79.3 and see sulphides for others, these are questionable 10 cm sills. Alteration :. 56.7 61.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 58.5 60.0 MODERATE PERVASIVE SILICIFICATION. 64.1 66.6 WEAK FRACTURE CONTROLLED SILICIFICATION. 69.0 82.1 WEAK FRACTURE CONTROLLED CARBONATIZATION. 81.1 84.1 STRONG FRACTURE CONTROLLED CARBONATIZATION. Fracture controlled carbonatization occurs as white fracture controlled calcite veins and veinlets. Fracture controlled silicification occurs as weak pervasive silicification with quartz filled fractures throughout silicification. Sulphides :. 50.1 52.3 Trace to nil pyrite. 52.3 61.3 2 % pyrite banded or bedded parallel to foliation with trace sphalerite (?) or very fine-grained pyrite at 52.5, 54.1 and 56.3. 61.3 62.8 S.G.E.'s early mafic sill with moderate pervasive carbonatization and 3 to 5 % pyrite clots, probably associated with carbonatization. 62.8 82.7 0.5 % disseminated pyrite with local up to 5 cm zones of 10 to 20 % pyrite, comprising up to 1 % of the tuff. 82.7 83.7 Very strong fracture controlled carbonatization with 12 to 15 % pyrite as semi- massive 5 to 10 cm layers parallel to foliation. There is 1 speck of mariposite at 82.6. Trace galena (?) in calcite. 83.7 83.8 Early Mafic Sill with 5 to 7 % fine-grained disseminated pyrite. 83.8 88.0 0.5 % disseminated with trace 1 cm zones massive pyrite parallel to foliation. 88.0 90.1 Approximately 2 % disseminated fine-grained pyrite. 90.1 90.5 5 % pyrite and 0.5 % chalcopyrite as stringers

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01060	50.1	60.0	9.9	n/a	201	n/a	82	n/a	n/a	1700
VA01651	52.3	54.3	2.0	2	277	17	191	<1	33	1800
VA01652	54.3	56.3	2.0	2	517	15	378	1	27	1400
VA01653	56.3	58.3	2.0	2	348	25	361	1	8	1700
VA01654	58.3	59.8	1.5	2	23	12	37	<1	8	1100
VA01655	59.8	61.3	1.5	3	120	6	807	<1	37	2600
VA01061	60.0	70.0	10.0	n/a	70	n/a	50	n/a	n/a	2260
VA01656	61.3	62.8	1.5	5	104	8	141	<1	17	300
VA01657	62.8	64.3	1.5	2	127	<5	74	<1	26	2100
VA01062	70.0	80.0	10.0	n/a	52	n/a	42	n/a	n/a	1850
VA01063	80.0	89.0	9.0	n/a	166	n/a	190	n/a	n/a	3700
VA01658	81.2	82.7	1.5	1	125	46	463	2	139	3700
VA01659	82.7	83.7	1.0	15	224	53	221	1	44	4100
VA01660	83.7	85.2	1.5	1	87	18	34	1	62	5000
VA01661	85.2	86.5	1.3	1	291	6	12	<1	51	3700
VA01662	86.5	88.0	1.5	1	52	<5	1	<1	17	3900
VA01663	88.0	89.0	1.0	2	46	6	2	<1	26	3600
VA01664	89.0	90.1	1.1	2	64	8	1	<1	66	2400
VA01665	90.1	90.5	.4	6	419	8	6	1	64	2000
VA01666	90.5	90.9	.4	40	1173	15	20	1	266	1200
VA01667	90.9	91.7	.8	65	1389	14	22	2	257	820
VA01668	91.7	92.3	.6	30	1281	17	18	2	202	1600
VA01669	92.3	92.8	.5	12	343	6	7	1	82	2800
VA01670	92.8	93.8	1.0	12	398	7	11	<1	42	4700
VA01671	93.8	94.2	.4	25	5800	10	116	5	191	4400
VA01672	94.2	94.6	.4	10	3300	8	83	2	179	1600

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-48 | Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		(?).											
		90.5 90.9 Semi- massive pyrite, approximately 40 % pyrite in sericite, pyrite is fine-grained.											
		90.9 91.7 Massive pyrite, 60 to 70 % with trace to 0.5 % chalcopyrite as up to 3 mm, blebs.											
		91.7 92.3 Semi- massive pyrite, 25 to 30 %.											
		92.3 93.8 12 % fine-grained pyrite with local 3 to 4 mm cubes.											
		93.8 94.2 20 to 25 % fine-grained pyrite with 1 to 2 % chalcopyrite clots.											
		94.2 94.6 7 to 10 % pyrite and 1 % chalcopyrite in silicified tuff with 2 cm of semi- massive pyrite at lower contact with the gabbro at 20 degrees to core axis.											
		Structure :.											
		Faults :.											
		58.7 59.0 0.3 m lost core with minor fault gouge at 42 degrees to core axis.											
		77.4 at 85 to 90 degrees to core axis with minor dragging and 12 cm displacement.											
		87.8 Minor fault slip at 81 cm with minor 3 cm fault breccia.											
		Foliations.											
		51.0 : 71 degrees to core axis.											
		66.8 : 60 degrees to core axis.											
		75.4 : 46 degrees to core axis.											
		84.0 86.0 Strongly contorted and kinked.											
		86.4 : 42 degrees to core axis.											
		92.0 : 67 degrees to core axis.											
		Bedding :.											
		51.0 : 71 degrees to core axis.											
		67.9 : 63 degrees to core axis.											
94.6	98.3	FELDSPAR PORPHYRITIC GABBRO											
		Fine-grained medium to light green gabbro dyke with irregular lower contact. Is plagiophyric with on average 5 to 7 %, 1 to 3 mm, feldspar to weakly epidotized feldspar laths. There is weak local fracture controlled epidotization with trace associated pyrite in core of epidote.	VA01673	94.6	96.0	1.4	0	260	<5	80	<1	62	170
			VA01674	97.3	98.3	1.0	0	273	6	73	1	48	610
98.3	109.6	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF											
		Sericitic felsic tuff with fine-grained crystals, approximately 10 %, up to 2 mm, feldspar and quartz crystals. There are up to 3 %, 2 to 5 cm, lapilli (?) surrounded by pyrite, or pyrite filled fractures. There is local fracture controlled silicification with white quartz veinlets throughout silicified tuff. There are minor vuggy fracture controlled calcite veinlets. There	VA01675	98.3	99.2	.9	15	543	11	34	1	69	1400
			VA01676	99.2	100.1	.9	15	392	10	20	<1	47	1400
			VA01677	100.1	101.4	1.3	6	1646	<5	28	1	71	2000
			VA01678	101.4	101.9	.5	12	12200	9	98	8	329	1600
			VA01679	102.2	103.0	.8	12	3800	8	87	4	116	1300
			VA01064	103.0	109.0	6.0	n/a	366	n/a	134	n/a	n/a	3510
			VA01680	103.0	104.5	1.5	4	841	8	22	1	96	2000

From (m)	To (m)	DESCRIPTION
		are minor small fine-grained sheared gabbro sills from 98.57 to 98.65 and from 101.9 to 102.2.
		Alteration :.
		98.3 101.6 WEAK FRACTURE CONTROLLED CARBONATIZATION.
		98.3 101.0 MODERATE FRACTURE CONTROLLED SILICIFICATION.
		104.0 109.6 Weakly bleached with strong foliation.
		Sulphides :.
		98.3 100.1 15 % stringer pyrite or pyrite encapsulating 4 to 5 cm lapilli, which are very similiar to the host tuff. Pyrite is as 1 to 3 mm broken cubes with trace 1 to 2 mm chalcopyrite blebs.
		100.1 101.4 5% fine-grained disseminated pyrite with trace to 0.5 % chalcopyrite blebs.
		101.4 101.9 Approximately 10 % stringer (?) pyrite and 1 to 1.5 % chalcopyrite as blebs concentrated with pyrite.
		102.2 103.0 As from 101.4 to 101.9.
		103.0 104.5 3 to 5 % fine-grained pyrite around lapilli or as stringers with 0.5 %, 1 to 2 mm, blebs.
		104.5 106.3 7 % pyrite, 3 % is fine-grained disseminated and 4 % is as two 5 to 10 cm pyrite rich bands parallel to foliation.
		106.3 107.4 P.E.M. Anomaly zone. Contorted tuff with moderate black chlorite and locally 10 to 15 % pyrrhotite, 10 % pyrite and 2 % chalcopyrite over 10 to 20 cm. Average sulphide content is 5 to 7 % pyrrhotite, 3 to 4 % pyrite and approximately 1 % chalcopyrite. Pyrrhotite and chalcopyrite are ductilely deformed and pyrite has suffered minor brittle failure. All sulphides are intermixed with no zoning.
		107.4 109.6 2 % disseminated pyrite with 1 cm pyrite rich bed at 109.0 and 1 cm chalcopyrite rich bed at 109.3.
		Structure :.
		Foliations :.
		99.7 : 46 degrees to core axis.
		102.7 : 67 degrees to core axis.
		105.2 : 53 degrees to core axis.
		108.3 : 70 degrees to core axis.
		Bedding :.
		108.4 : 67 degrees to core axis.
		108.8 : 90 degrees to core axis.
109.6	112.8	MAFIC INTRUSIVE
		Very fine-grained aphanitic gabbro with 2 to 3 % << 1 mm ilmenite grains with (?) leucoxene or sphene rims. There is weak fracture controlled epidote and carbonate veinlets. Foliation is at 38 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01681	104.5	105.5	1.0	7	1662	7	30	2	58	5100
VA01682	105.5	106.3	.8	7	1148	7	62	2	119	5700
VA01683	106.3	107.0	.7	10	2906	10	209	4	264	5700
VA01684	107.0	107.5	.5	10	435	24	968	<1	60	3600
VA01685	107.5	109.0	1.5	2	344	38	1241	1	42	2000
VA01686	109.0	110.0	1.0	2	906	10	1395	1	72	1200
VA01687	110.0	111.0	1.0	0	159	<5	107	1	<5	110

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-48 Page Number 5

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
112.8	128.2	MAFIC TUFF Mafic rock with moderate fracture controlled carbonatization. There are up to 30 cm epidotized and bleached zones with 1 to 2 % associated pyrite. Matrix has 10 to 15 %, < 1 mm, feldspar and epidotized feldspars with up to 3 %, 1 mm, chloritized hornblendes locally. There are epidote beds (?) locally. From 123.0 to 126.3 there is weak thermal biotite and locally up to 1 % fracture controlled pyrite with minor (?) sediment beds. From 126.3 to 127.8 there is very strong thermal biotite with brown colour and increased crystal content with minor quartz eyes and fining of beds downhole. Foliations :. 120.4 : 60 degrees to core axis. 124.3 : 48 degrees to core axis. 127.1 : 61 degrees to core axis. Bedding :. 127.0 : 63 degrees to core axis.	VA01065	114.0	128.0	14.0	n/a	140	n/a	33	n/a	n/a	509
			VA01688	114.5	116.0	1.5	1	71	<5	49	<1	<5	410
			VA01689	117.0	118.0	1.0	1	36	<5	40	1	<5	400
			VA01690	120.0	121.0	1.0	1	122	<5	77	1	<5	480
128.2	152.1	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Mafic flow or sill. Is variably fine-grained to medium grained, may be sill to 133.4 and flow after 133.4. From 128.2 to 128.7 is fine-grained with 20 %, < 1 mm feldspars and minor calcite fracture controlled veinlets. From 128.7 to 133.4 is medium grained with salt and pepper texture of 2 mm hornblende, feldspar and (?) quartz, in 2 : 2 : 0.5 to 1 ratios. In sill (?) there are numerous fracture controlled epidote and carbonatization veinlets and trace disseminated pyrite occurs. From 133.4 to 133.7 there is strong biotite and calcite veinlets with 2 %, 2 mm, round quartz eyes. After is medium green, as opposed to a darker green with up to 15 %, 2 to 4 mm, hornblendes and 10 %, up to 1 mm, feldspars in a massive matrix with local moderate fracture controlled epidotization. Foliations are weak at 30 to 60 degrees to core axis. There is weak fracture controlled chloritization. Lower contact is at fault at 45 degrees to core axis with minor fault gouge.	VA01066	140.0	150.0	10.0	n/a	227	n/a	41	n/a	n/a	464
152.1	178.1	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Medium to dark green to brown intermediate tuffs with local pervasive thermal biotite. On average there is 10 to 15 % sediments, white to dark brown cherty sediments. There are minor crystal rich and supported beds. At 162.6 there is a 15 cm bed with downhole tops and at 162.8 there is a similiar 10 cm bed with tops uphole, i.e. Fining direction. Cherty sediments offer no clear tops directions and bedding is very variable. There are	VA01067	155.0	175.0	20.0	n/a	72	n/a	68	n/a	n/a	628

From (m)	To (m)	DESCRIPTION
		numerous quartz and calcite veinlets, often hosting red to brown biotite. Intermediate tuff locally, 172.6 to 177.2, hosts greater than 10 %, up to 5 mm, quartz clasts, and is there probably andesitic. Average tuff matrix hosts 15 %, 1 to 3 mm, chloritized hornblendes and 5 % epidote grains in green tuff and approximately 5 % hornblende, 10 % feldspar to epidote and 5 to 7 %, 1 to 2 mm, quartz eyes in thermal biotite altered tuff. Foliation is subparallel or parallel to bedding. There is trace to nil disseminated and fracture controlled pyrite locally. Structure :. Foliations :. 162.3 : 53 degrees to core axis. 165.5 : 54 degrees to core axis. 171.2 : 43 degrees to core axis. 177.2 : 47 degrees to core axis. Bedding :. 161.0 : 57 degrees to core axis. 165.3 : 36 degrees to core axis. 174.4 : 63 degrees to core axis.
178.1	195.8	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Mafic flow with 15 to 20 %, 1 to 2 mm, chloritized hornblende crystals and moderate epidotization from 188.0 to the lower contact. Epidotization is spotty from 189.0 to 190.0 with carbonatized - biotite fracture controlled veins and veinlets. Epidote after 190.0 is 5 to 10 %, 1 to 2 mm, grains, (?) alteration of feldspars. Flow is light grey at upper contact and dark green at lower contact. There are minor quartz - calcite - (biotite) - (chlorite) veins, up to 2 cm thick at numerous orientations. Flow is massive with no well developed foliations.
195.8	197.9	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Dark brown tuff with minor sediments and 2 to 3 % quartz eyes. Foliation at 65 degrees to core axis.
197.9	202.9	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF Mafic tuff or flow with 10 to 15 %, up to 1 mm, hornblendes and 5 %, 1 to 4 mm, round epidote. There is weak fracture controlled pyrite and numerous 1 to 3 mm calcite - quartz veins. From 201.0 to 202.9 there are 10 %, 1 to 3 mm, eye to spherical calcite +/- quartz lapilli or amygdules. There are < 1 % chloritization clasts or lapilli, up to 2 cm long and 5 mm wide, elongation parallel to foliation. Mafic is massive with weak foliation at 70 to 80 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01068	180.0	195.0	15.0	n/a	16	n/a	26	n/a	n/a	341
VA01069	197.9	202.9	5.0	n/a	163	n/a	29	n/a	n/a	150

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

From (m)	To (m)	DESCRIPTION
202.9	242.6	MAFIC TUFFS WITH MINOR CHERTY SEDIMENTS Dark brown to green mafic ash tuff with cream to green to brown cherty sediments. There is local blue fracture controlled chlorite and quartz - biotite veins and is locally feldspar crystal rich up to 20 %, up to 1 mm. From 205.0 to 213.0 there is trace fracture controlled pyrite with sediments. At 205.1 tops is downhole, bedding is at 67 degrees to core axis. From 217.9 there is very strong thermal biotite to approximately 236 with minor sediments and trace to 0.25 % fracture controlled pyrite and trace to 2 % 1 mm quartz eyes locally. From 236.8 to 237.5 there is white and grey chert with 1 % fracture controlled pyrite and bedding at 60 degrees to core axis. From 240 to 242.6 is light grey mafic with hornblende and 5 cm biotite filled fractures. At 218.7 and 219.5 tops is uphole, bedding is 58 degrees to core axis. Foliation is at 60 to 80 degrees to core axis locally.
242.6	246.6	FELDSPAR PORPHYRITIC GABBRO Light green fine-grained gabbro dyke with fracture controlled calcite veinlets and average of 5 %, 2 mm, feldspar grains. At 246.5 there is 10 cm quartz vein with 4 mm thick chalcopyrite. Lower contact at 51 degrees to core axis and at 46 degrees to bed in underlying unit.
246.6	256.3	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Andesitic medium green to brown tuff with 10 %, 1 mm, feldspar grains and up to 5 %, 1 mm, quartz eyes locally. There are minor cherty sediment beds, at 252.7, tops is downhole with bedding at 70 degrees to core axis. There is minor quartz - biotite veining. Foliation averages approximately 60 degrees to core axis, locally 45 to 80.
		End of hole : 841 feet, 256.3 m, on May 1, 1988 at 12:30 pm
		Total lost core : 1.4 m % Recovery = 99.5%.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01691	205.0	207.0	2.0	1	168	<5	105	1	<5	1000
VA01070	205.0	225.0	20.0	n/a	108	n/a	62	n/a	n/a	734
VA01692	207.0	209.0	2.0	1	112	<5	95	1	<5	820
VA01693	209.0	211.0	2.0	1	138	<5	72	1	12	730
VA01694	211.0	213.0	2.0	1	153	<5	72	1	123	680
VA01071	225.0	240.0	15.0	n/a	128	n/a	65	n/a	n/a	772
VA01695	236.5	238.0	1.5	1	105	6	72	1	103	470
VA01072	240.0	256.3	16.3	n/a	155	n/a	39	n/a	n/a	716

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01060	50.10	60.00	67.80	14.50	2.39	1.35	1.75	2.95	4.32	0.36			3.39	98.81	1700.	51.	4.
VA00616	51.00	51.10	70.60	13.70	2.77	1.81	1.77	3.32	1.82	0.29	0.07	0.05	3.16	99.36	1690.	53.	5.
VA00617	56.60	56.70	68.40	14.50	0.28	0.54	0.37	3.89	5.73	0.37	0.07	<0.01	4.16	98.32	1680.	87.	1.
VA01061	60.00	70.00	70.50	14.10	0.93	0.95	1.14	3.46	3.44	0.30			3.54	98.36	2260.	68.	2.
VA00618	66.70	66.80	70.90	14.70	0.94	0.99	1.44	3.35	2.88	0.31	0.05	0.01	2.70	98.27	2280.	65.	2.
VA00619	80.00	80.10	71.00	14.80	0.18	1.17	0.48	3.75	3.76	0.32	0.05	0.01	3.54	99.06	3690.	88.	1.
VA00620	103.60	103.70	80.70	8.41	0.25	0.21	0.88	1.66	4.45	0.23	0.04	<0.01	2.93	99.76	2180.	62.	1.
VA00621	111.50	111.60	49.20	13.50	8.37	7.24	3.26	0.22	14.00	2.07	0.19	0.23	1.93	100.21	225.	39.	12.
VA00622	116.40	116.50	49.80	17.00	6.19	7.55	4.32	0.59	10.60	0.93	0.17	0.16	2.70	100.01	663.	44.	11.
VA00623	127.60	127.70	48.10	16.50	6.18	8.12	2.72	2.22	11.20	0.90	0.22	0.21	2.70	99.07	1360.	54.	9.
VA00624	130.00	130.10	47.60	11.70	11.80	11.60	1.65	0.25	12.10	0.72	0.17	0.22	2.23	100.04	83.	47.	13.
VA00625	146.30	146.40	49.40	13.90	12.00	9.11	1.98	0.44	10.60	0.56	0.13	0.18	2.08	100.38	271.	41.	14.
VA00626	162.20	162.30	49.10	18.50	5.61	6.06	1.49	2.43	12.40	1.29	0.38	0.23	2.93	100.42	1140.	54.	7.
VA00627	175.80	175.90	48.00	18.60	8.38	5.15	3.63	0.63	9.72	0.99	0.28	0.20	4.31	99.89	507.	32.	12.
VA00628	184.80	184.90	50.60	13.90	13.50	7.56	1.28	0.29	9.95	0.55	0.13	0.17	2.08	100.01	179.	35.	15.
VA00629	200.90	201.00	49.80	12.80	9.43	9.75	3.11	0.29	10.80	0.72	0.19	0.22	3.31	100.42	103.	44.	13.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA01062	70.00	80.00	71.20	13.80	0.85	0.80	1.36	3.20	3.79	0.32			3.70	99.02	1850.	64.	2.
VA01063	80.00	89.00	71.60	13.50	1.65	0.69	0.64	2.81	3.93	0.33			4.31	99.46	3700.	60.	2.
VA01064	103.00	109.00	75.20	10.90	0.28	0.32	0.72	2.29	5.41	0.33			3.62	99.07	3510.	72.	1.
VA01065	114.00	128.00	48.00	16.70	8.64	6.17	3.78	0.80	10.30	0.75			2.93	98.07	509.	36.	12.
VA01066	140.00	150.00	50.00	13.70	12.20	8.40	2.22	0.48	9.68	0.56			1.93	99.17	464.	38.	14.
VA01067	155.00	175.00	52.20	17.10	6.31	4.83	3.48	1.20	9.42	0.94			3.39	98.87	628.	38.	10.
VA01068	180.00	195.00	46.70	15.10	12.40	7.14	2.62	0.63	9.17	0.57			5.70	100.03	341.	34.	15.
VA01069	197.90	202.90	46.80	14.10	10.50	8.00	3.10	0.40	10.70	0.73			4.77	99.10	150.	38.	14.
VA01070	205.00	225.00	50.30	16.70	4.36	8.55	3.78	2.18	9.85	0.85			3.31	99.88	734.	57.	8.
VA01071	225.00	240.00	50.90	16.10	4.66	7.11	3.67	2.58	9.59	0.77			3.23	98.61	772.	54.	8.
VA01072	240.00	256.30	48.40	16.70	5.63	8.27	2.47	2.66	10.60	0.89			3.39	99.01	716.	57.	8.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01651	52.30	54.30	1800.0	277.0	191.0	<0.5	33.0	11.0	6.0	17.0	<5.0	2.0	6.0	200.0	59.	2.	2.
VA01652	54.30	56.30	1400.0	517.0	378.0	0.8	27.0	10.0	10.0	15.0	<5.0	4.0	4.0	189.0	58.	2.	3.
VA01653	56.30	58.30	1700.0	348.0	361.0	0.6	8.0	4.0	4.0	25.0	8.0	3.0	4.0	129.0	49.	2.	2.
VA01654	58.30	59.80	1100.0	23.0	37.0	<0.5	8.0	2.0	2.0	12.0	<5.0	<1.0	2.0	136.0	38.	2.	1.
VA01655	59.80	61.30	2600.0	120.0	807.0	<0.5	37.0	5.0	4.0	6.0	25.0	5.0	5.0	119.0	13.	3.	2.
VA01656	61.30	62.80	300.0	104.0	141.0	<0.5	17.0	33.0	14.0	8.0	<5.0	3.0	1.0	1156.0	42.	5.	6.
VA01657	62.80	64.30	2100.0	127.0	74.0	<0.5	26.0	5.0	3.0	<5.0	<5.0	2.0	5.0	152.0	63.	2.	3.
VA01658	81.20	82.70	3700.0	125.0	463.0	1.5	139.0	6.0	4.0	46.0	20.0	4.0	3.0	136.0	21.	1.	3.
VA01659	82.70	83.70	4100.0	224.0	221.0	0.5	44.0	9.0	5.0	53.0	11.0	2.0	4.0	236.0	50.	15.	4.
VA01660	83.70	85.20	5000.0	87.0	34.0	0.8	62.0	5.0	7.0	18.0	<5.0	<1.0	4.0	166.0	72.	1.	2.
VA01661	85.20	86.50	3700.0	291.0	12.0	<0.5	51.0	6.0	6.0	6.0	<5.0	<1.0	4.0	61.0	96.	1.	1.
VA01662	86.50	88.00	3900.0	52.0	1.0	<0.5	17.0	8.0	5.0	<5.0	<5.0	<1.0	3.0	65.0	98.	1.	1.
VA01663	88.00	89.00	3600.0	46.0	2.0	<0.5	26.0	10.0	6.0	6.0	22.0	<1.0	4.0	59.0	96.	2.	2.
VA01664	89.00	90.10	2400.0	64.0	1.0	<0.5	66.0	11.0	5.0	8.0	<5.0	<1.0	3.0	62.0	98.	2.	3.
VA01665	90.10	90.50	2000.0	419.0	6.0	0.6	64.0	23.0	10.0	8.0	<5.0	3.0	4.0	68.0	99.	6.	6.
VA01666	90.50	90.90	1200.0	1173.0	20.0	1.1	266.0	74.0	28.0	15.0	19.0	7.0	3.0	67.0	98.	40.	>10.
VA01667	90.90	91.70	820.0	1389.0	22.0	2.3	257.0	66.0	22.0	14.0	31.0	9.0	2.0	66.0	98.	65.	>10.
VA01668	91.70	92.30	1600.0	1281.0	18.0	1.7	202.0	24.0	10.0	17.0	35.0	6.0	1.0	70.0	99.	30.	>10.
VA01669	92.30	92.80	2800.0	343.0	7.0	0.7	82.0	11.0	5.0	6.0	<5.0	2.0	3.0	67.0	98.	12.	5.
VA01670	92.80	93.80	4700.0	398.0	11.0	<0.5	42.0	13.0	5.0	7.0	<5.0	2.0	3.0	65.0	97.	12.	6.
VA01671	93.80	94.20	4400.0	5800.0	116.0	4.9	191.0	23.0	9.0	10.0	31.0	9.0	12.0	86.0	98.	25.	>10.
VA01672	94.20	94.60	1600.0	3300.0	83.0	2.4	179.0	33.0	25.0	8.0	16.0	3.0	8.0	406.0	98.	10.	8.
VA01673	94.60	96.00	170.0	260.0	80.0	<0.5	62.0	30.0	59.0	<5.0	16.0	3.0	2.0	660.0	76.	0.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01674	97.30	98.30	610.0	273.0	73.0	0.6	48.0	34.0	62.0	6.0	7.0	2.0	2.0	689.0	79.	0.	4.
VA01675	98.30	99.20	1400.0	543.0	34.0	0.7	69.0	10.0	28.0	11.0	24.0	4.0	7.0	162.0	94.	15.	8.
VA01676	99.20	100.10	1400.0	392.0	20.0	<0.5	47.0	15.0	6.0	10.0	28.0	2.0	6.0	102.0	95.	15.	6.
VA01677	100.10	101.40	2000.0	1646.0	28.0	1.1	71.0	2.0	5.0	<5.0	25.0	<1.0	6.0	88.0	98.	6.	4.
VA01678	101.40	101.90	1600.0	12200.0	98.0	8.2	329.0	4.0	9.0	9.0	12.0	4.0	7.0	111.0	99.	12.	8.
VA01679	102.20	103.00	1300.0	3800.0	87.0	3.7	116.0	14.0	75.0	8.0	48.0	3.0	3.0	261.0	98.	12.	8.
VA01680	103.00	104.50	2000.0	841.0	22.0	0.9	96.0	7.0	5.0	8.0	14.0	2.0	3.0	68.0	97.	4.	4.
VA01681	104.50	105.50	5100.0	1662.0	30.0	1.9	58.0	9.0	9.0	7.0	<5.0	4.0	3.0	68.0	98.	7.	7.
VA01682	105.50	106.30	5700.0	1148.0	62.0	1.5	119.0	2.0	4.0	7.0	8.0	2.0	2.0	60.0	95.	7.	4.
VA01683	106.30	107.00	5700.0	2906.0	209.0	3.9	264.0	5.0	3.0	10.0	12.0	5.0	2.0	62.0	93.	10.	8.
VA01684	107.00	107.50	3600.0	435.0	968.0	<0.5	60.0	3.0	4.0	24.0	11.0	6.0	6.0	84.0	31.	10.	3.
VA01685	107.50	109.00	2000.0	344.0	1241.0	0.6	42.0	12.0	24.0	38.0	<5.0	7.0	6.0	234.0	22.	2.	3.
VA01686	109.00	110.00	1200.0	906.0	1395.0	1.2	72.0	16.0	54.0	10.0	<5.0	9.0	4.0	413.0	39.	2.	4.
VA01687	110.00	111.00	110.0	159.0	107.0	0.6	<5.0	25.0	66.0	<5.0	25.0	3.0	2.0	562.0	60.	0.	4.
VA01688	114.50	116.00	410.0	71.0	49.0	<0.5	<5.0	25.0	29.0	<5.0	<5.0	2.0	2.0	618.0	59.	1.	5.
VA01689	117.00	118.00	400.0	36.0	40.0	0.6	<5.0	22.0	28.0	<5.0	19.0	3.0	<1.0	578.0	47.	1.	4.
VA01690	120.00	121.00	480.0	122.0	77.0	0.7	<5.0	28.0	60.0	<5.0	25.0	2.0	1.0	854.0	61.	1.	6.
VA01691	205.00	207.00	1000.0	168.0	105.0	0.9	<5.0	31.0	44.0	<5.0	<5.0	4.0	<1.0	1361.0	62.	1.	7.
VA01692	207.00	209.00	820.0	112.0	95.0	0.8	<5.0	29.0	54.0	<5.0	<5.0	4.0	<1.0	1305.0	54.	1.	6.
VA01693	209.00	211.00	730.0	138.0	72.0	0.9	12.0	35.0	53.0	<5.0	10.0	4.0	<1.0	1022.0	66.	1.	7.
VA01694	211.00	213.00	680.0	153.0	72.0	0.7	123.0	31.0	36.0	<5.0	37.0	3.0	<1.0	873.0	68.	1.	5.
VA01695	236.50	238.00	470.0	105.0	72.0	0.7	103.0	22.0	41.0	6.0	5.0	3.0	1.0	610.0	59.	1.	4.

Summary Log: DDH CH88-49
Location: 26+98 E, 2+18 S; Chip 1 Claim
Azimuth: 210, Dip: -45
Hole Completed: May 4, 1988
Core Logged By: D.P. Money

0.0	5.2	Casing.
5.2	33.9	Felsic crystal lapilli tuff with 1 to 5 % pyrite, disseminated and banded parallel to foliation.
33.9	42.8	Gabbro.
42.8	46.7	Felsic cystal tuff with 1 to 2 % pyrite.
46.7	52.2	Mafic sill.
52.2	63.0	Altered felsic tuff with 4.9 m of strong sulphides averaging approximately 4 % chalcopyrite and 4 % sphalerite. There is 2.7 metres of semi-massive to massive pyrite - pyrrhotite - chalcopyrite - sphalerite from 56.3 to 59.0 m.
63.0	67.4	Gabbro.
67.4	84.6	Mafic tuffs with minor intercalated cherty sediments.
84.6	126.6	Mafic hornblende bearing flow.
126.6	177.5	Mafic to andesitic tuffs with intercalated cherts and argillites.
177.5	198.8	Gabbro.
198.8	202.2	Andesitic tuffs with minor cherty sediments.
202.2	203.4	Gabbro.
203.4	205.5	Andesitic tuffs with cherts.
205.5	209.1	Mafic sill
209.1	218.1	Andesitic tuffs with chert and argillite beds.
218.1	220.2	Black argillite with 4 % fracture controlled pyrite.
220.2	220.8	Gabbro.
220.8	250.6	Black argillite with 3 % fracture controlled pyrite.
250.6	252.1	Tuffaceous conglomerate.
252.1		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-49 Page Number 1

Hole Location: 26+98 E 2+18 S

NTS: 092/B13 UTM: 5416897.4 N 429956.0 E
Azimuth: 210 Elevation: 485 m
Dip: -45 Length: 252.1 m

Started: May 1, 1988
Completed: May 4, 1988

Claim No. CHIP1
Section No.: Line 27+00 East, Chip Group

Logged By: David P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test the PEM anomaly located in CHEM87-28 under the Anita Showing.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
14.30	208.0	-44.0	185.00	212.0	-43.0
90.50	210.0	-44.0	246.00	213.0	-43.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	5.2	OVERBURDEN											
5.2	33.9	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF Pyritic felsic tuff with variable crystal content, with strong alteration and approximately 15 % feldspar and quartz crystals, average size 1 to 1.5 mm. At beginning of unit there is mostly, > 90 % of crystals, feldspar grains with downhole transition to 3 to 5 : 1 ratio of quartz to feldspar crystals. Lapilli are up to 1 cm, approximately 2 % grey siliceous lapilli in sericitic matrix. There is moderate variable alteration. Alteration :. 5.2 9.5 MODERATE FRACTURE CONTROLLED SILICIFICATION , weak pervasive silicification centred on fracture controlled white fracture controlled quartz veinlets. 9.5 16.0 QUARTZ FLOODING , as strong pervasive fracture controlled silicification, 30 to 40 % added white quartz. 16.0 19.8 MODERATE PERVASIVE SILICIFICATION , glassy silicified tuff. 19.8 23.3 WEAK PERVASIVE SILICIFICATION , similiar to 16.0 to 19.8 with minor 1 to 2 cm fracture controlled white quartz veins. 23.3 25.3 WEAK PERVASIVE CHLORITIZATION , light green with 3 to 5 % chlorite. 25.3 33.9 MODERATE PERVASIVE SERICITIZATION , bleached tuff, is strongly bleached from 31.9 to 33.6. Mineralization :. 5.2 10.5 5 % banded and fine-grained disseminated pyrite, banded pyrite is parallel to foliation.	VA01073	5.2	21.0	15.8	n/a	34	n/a	<10	n/a	n/a	1360
			VA01696	5.2	7.0	1.8	5	31	6	31	<1	93	1200
			VA01697	7.0	8.2	1.2	5	61	5	17	1	104	1000
			VA01698	8.2	9.0	.8	5	27	<5	12	<1	149	1500
			VA01699	9.0	10.5	1.5	5	17	5	8	1	102	1100
			VA01700	10.5	12.0	1.5	2	22	<5	13	<1	41	750
			VA01702	12.0	13.0	1.0	2	23	7	12	<1	42	1200
			VA01701	13.0	14.0	1.0	2	22	6	8	<1	111	1500
			VA01703	14.0	15.0	1.0	2	108	9	14	<1	60	2100
			VA01704	15.0	16.0	1.0	2	254	14	44	1	119	2300
			VA01705	16.0	17.2	1.2	5	43	<5	17	1	176	760
			VA01706	17.2	20.2	3.0	4	49	8	17	<1	224	1500
			VA01707	20.2	21.2	1.0	4	17	10	38	<1	147	1900
			VA01074	21.0	33.0	12.0	n/a	<10	n/a	<10	n/a	n/a	1600
			VA01708	21.2	22.7	1.5	1	36	6	20	<1	51	1400
			VA01709	30.0	32.0	2.0	2	37	<5	12	<1	77	2200

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-49 Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		10.5 16.0 1 to 2 % fine-grained and banded pyrite with galena (?), grey fine-grained mineral in white quartz.											
		16.0 21.2 3 to 4 % pyrite with 2 % disseminated and local 1 to 10 cm semi-massive pyrite zones.											
		21.2 33.8 Trace disseminated fine-grained pyrite with 3 to 5 % over 10 cm locally.											
		33.8 33.9 Thermal biotite with 5 to 7 % fracture controlled pyrite.											
		Lost core :.											
		5.2 8.2 1.0 m.											
		14.5 16.9 0.2 m.											
		16.9 18.0 0.5 m.											
		18.0 19.8 1.5 m.											
		19.8 22.6 0.4 m.											
		Foliations :.											
		9.2 : 68 degrees to core axis.											
		13.0 : 38 degrees to core axis.											
		18.9 : 46 degrees to core axis.											
		25.1 : 61 degrees to core axis.											
		29.2 : 63 degrees to core axis.											
		33.5 : 67 degrees to core axis.											
33.9	42.8	FELDSPAR PORPHYRITIC GABBRO 10 to 15 %, 1 to 3 mm, feldspars in a fine-grained medium green matrix with minor quartz - chlorite veins.											
42.8	46.7	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Sericitic light grey felsic tuff with 5 to 15 % crystals, up to 2 mm, average 1 mm, feldspars and quartz eyes. There 1 to 2 % fine-grained disseminated and banded parallel to foliation pyrite. There is minor compositional layering or variable weak silicification and sericitization. Bedding (?) is parallel to foliation. 42.8 46.7 MODERATE PERVASIVE CHLORITIZATION. Foliations :. 42.9 : 56 degrees to core axis. 44.7 : 61 degrees to core axis. 46.0 : 61 degrees to core axis.	VA01710	42.8	43.8	1.0	2	188	9	19	1	293	1500
			VA01075	43.0	46.0	3.0	n/a	99	n/a	<10	n/a	n/a	1530
			VA01711	43.8	44.8	1.0	2	176	14	32	1	69	1800
			VA01712	44.8	45.8	1.0	2	173	14	38	1	22	850
			VA01713	45.8	46.7	.9	2	1361	34	10000	5	445	6500
46.7	52.2	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Probably sill, has fine-grained sheared contacts with the tuffs. Contacts are at approximately 60 degrees to core axis and have minor fracture controlled carbonatization. Intergrown mafic crystals, hornblende (?), and feldspar laths, up to 5 mm, average 3 to 4 mm. Is massive with no foliation.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-49 Page Number 3

From (m)	To (m)	DESCRIPTION
52.2	63.0	FELSIC TUFF
		Strongly altered and mineralized rock, only recognizible as felsic tuff from 58.9 to 63.0 and 52.2 to 53.1. There is very strong silicification and local strong epidotization and thermal biotite from 53.1 to 56.3 with no carbonatization. Alteration is cream to green epidote to red - brown in colour. There is 2 to 3 % fracture controlled pyrite and numerous minor faults in the altered tuff, which may be a lapilli tuff. From 52.2 to 53.1 and 61.2 to 63.0 there is weak to moderate thermal biotite and 10 to 15 %, 1 mm, feldspar and quartz crystals with weak sulphides. From 56.3 to 61.2 there is strong sulphides in dark grey silicified tuff with fracture controlled white quartz veinlets. Alteration is probably hornfelsing due to mafic dyke.
		Sulphides :.
		52.2 53.1 Trace to 0.5 % disseminated and banded pyrite and one 2 mm chalcopyrite bleb at 52.5.
		53.1 56.3 2 to 3 % fracture controlled pyrite, concentrated on epidotization.
		56.3 56.6 30 % pyrite, 20 % sphalerite, as two 4 cm and one 2 cm bands of 65 % red brown sphalerite and 1 % disseminated 1 to 3 mm chalcopyrite blebs. Pyrite is coarse with clots up to 12 mm and cubes up to 3 mm. There is minor epidotization and quartz veinlets.
		56.6 57.4 Strong local sericitization, epidotization and fracture controlled and pervasive silicification. There is approximately 20 % fine-grained disseminated pyrite, 5 % sphalerite in local 1 to 3 cm semi- massive to massive zones, and 1 to 2 % disseminated 2 to 3 mm chalcopyrite blebs. Sphalerite is silica encapsulated with no brown streak.
		57.4 57.6 50 % pyrite and 5 % chalcopyrite as massive sulphides encapsulating siliceous grey tuff rounded clasts and with moderate epidotization.
		57.6 57.8 5 to 7 % pyrite and 1 % chalcopyrite as blebs in grey sericitic tuff.
		57.8 58.2 30 % pyrite, 20 % sphalerite and 2 to 3 % chalcopyrite, sulphides form up to 7 cm bands of fine-grained massive sulphides. Sulphides encapsulate felsic lapilli and quartz crystals. There is post mineralization fracture controlled white quartz veins.
		58.2 58.3 Grey sericitic tuff with trace pyrite. Blocky, highly fractured core.
		58.3 59.0 Approximately 30 % pyrrhotite, 17 % chalcopyrite and 5 to 10 % pyrite. Pyrite occurs as rims on the 30 % siliceous grey felsic lapilli and as 1

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01714	52.2	53.1	.9	1	721	21	1321	2	145	2500
VA01715	53.1	54.1	1.0	3	367	94	535	2	288	3600
VA01716	54.1	55.1	1.0	3	203	10	106	1	29	2300
VA01717	55.1	56.3	1.2	3	4800	5600	1604	28	634	3800
VA01718	56.3	56.6	.3	51	15600	13800	198500	74	1954	7100
VA01719	56.6	57.0	.4	27	19200	12000	22500	84	3051	10000
VA01720	57.0	57.4	.4	27	14300	23600	46000	146	6068	7200
VA01721	57.4	57.8	.4	33	23900	6300	38000	80	1885	26000
VA01722	57.8	58.2	.4	52	20400	2099	105500	68	1063	32000
VA01723	58.2	58.6	.4	50	47500	1763	17700	119	2571	29000
VA01724	58.6	59.0	.4	50	64000	346	26000	136	960	25000
VA01725	59.0	59.7	.7	8	14900	156	4900	47	688	30000
VA01726	59.7	60.1	.4	17	14300	874	12200	36	1714	19000
VA01727	60.1	60.8	.7	8	13600	952	12200	35	1645	20000
VA01728	60.8	61.2	.4	8	16000	250	1800	33	335	17000
VA01729	61.2	62.0	.8	3	1200	93	1200	8	266	11000
VA01730	62.0	63.0	1.0	3	2400	524	700	12	540	11000

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		to 2.5 cm clots. Chalcopyrite and pyrrhotite are intergrown and pyrrhotite is strongly magnetic. There is black chlorite on fractures.											
		59.0 59.7 Grey strongly silicified felsic with 2 to 3 % chalcopyrite, 5 % pyrite as fine-grained disseminated and stringers (?).											
		59.7 60.1 Siliceous felsic lapilli surrounded by 5 to 7 % chalcopyrite and 10 to 12 % pyrite. Chalcopyrite is very variable with 5 % on one side of the core and 10 to 12 % on the other.											
		60.1 60.8 Silicified with 5 to 7 % pyrite and 2 % sphalerite. Sulphides may be fracture controlled or were remobilized.											
		60.8 61.2 Sericitic tuff with 5 % chalcopyrite as stringers with 2 to 3 % disseminated pyrite.											
		61.2 63.0 Sericitic tuff with trace disseminated chalcopyrite blebs and 3 % banded pyrite.											
		Stucture :.											
		Foliations :.											
		53.1 : 51 degrees to core axis.											
		56.6 : 65 degrees to core axis.											
		61.9 : 57 degrees to core axis.											
		Lower contact (63.0) : 57 degrees to core axis.											
63.0	67.4	FELDSPAR PORPHYRITIC GABBRO											
		Fine-grained medium green gabbro with approximately 5 %, 1 to 4 mm, feldspar grains. There is weak local fracture controlled epidote and quartz - calcite veinlets at 0 to 90 degrees to core axis.											
67.4	84.6	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Mafic crystal lapilli tuff with minor cherty sediment beds. There are on average 15 %, 1 to 2 mm, mafic crystals, probably hornblende and variable feldspars, < 1 to 15 % feldspar to epidotized feldspar, 1 to 2 mm. There are local 10 cm epidote alteration spots with fracture controlled calcite and biotite veinlets and trace fracture controlled pyrite. From 71.0 to 71.7 there is a mafic phyric sill. Is locally weakly silicified and weak fracture controlled chloritization occurs, to a much lesser extent than the underlying mafic flow. Structure :.	VA01076	68.0	84.0	16.0	n/a	141	n/a	34	n/a	n/a	451
		Foliations :.											
		69.3 : 87 degrees to core axis.											
		72.5 : 56 degrees to core axis.											
		78.2 : 54 degrees to core axis.											
		83.7 : 84 degrees to core axis.											
		Bedding :.											
		78.4 : 57 degrees to core axis.											
		84.0 : 66 degrees to core axis.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-49

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
84.6	126.6	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Mafic flow, medium green, massive, with on average 30 %, 1 to 3 mm, chloritized hornblende crystals and locally up to 5 %, average 3 %, 2 to 3 mm epidote grains. There is weak local fracture controlled epidotization and moderate fracture controlled chloritization. There is minor shearing from 96.6 to 99.5 and from 115.8 to 118.5 with quartz and calcite veins and 30 to 40 cm dark brown siliceous sediment at end. There are numerous minor fracture controlled quartz - calcite - chlorite - biotite veinlets with minor pink calcite at 106.8. From 119.8 to 120.8 there is 1.5 % disseminated pyrite in dark silicified flow. Alteration :. 84.6 126.6 MODERATE FRACTURE CONTROLLED CHLORITIZATION. 96.6 99.5 WEAK FRACTURE CONTROLLED CARBONATIZATION. 115.8 118.5 WEAK FRACTURE CONTROLLED CARBONATIZATION. 121.3 123.0 WEAK FRACTURE CONTROLLED CARBONATIZATION. 119.8 120.8 MODERATE PERVASIVE SILICIFICATION. Foliations :. 87.8 : 57 degrees to core axis. 103.5 : 61 degrees to core axis. 108.0 : 68 degrees to core axis. 117.8 : 61 degrees to core axis. Lower contact : 49 degrees to core axis.	VA01077	85.0	105.0	20.0	n/a	95	n/a	19	n/a	n/a	163
			VA01078	105.0	125.0	20.0	n/a	59	n/a	37	n/a	n/a	257
			VA01731	119.8	120.8	1.0	2	68	<5	92	1	14	2000
126.6	132.6	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Andesitic crystal tuffs, lapilli tuffs and cherty sediments 126.6 126.7 Green chert with bedding at 75 degrees to core axis. 126.7 127.2 Thermal biotite coloured andesitic ash tuff with bedding (?) and foliation at 56 degrees to core axis. 127.2 127.3 Green and white cherts with bedding at 55 degrees to core axis. 127.3 127.5 Andesitic brown crystal tuff with 10 %, 1 mm, feldspars and 3 to 5 %, 1 mm, quartz eyes. 127.5 128.5 Brown andesitic lapilli tuff with strong fining downhole. 128.5 131.8 Green tuff with 15 %, 1 to 4 cm, epidote - (carbonate) clots. 131.8 132.6 Dark grey cherty sediments with moderate fracture controlled carbonatization. Bedding at 50 degrees to core axis.	VA01079	127.0	137.0	10.0	n/a	268	n/a	35	n/a	n/a	634
132.6	139.4	MAFIC LAPILLI TUFF Fine-grained light to medium green mafic, lapilli tuff											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		(?). There is on average 5 % mafic and 5 % epidote crystals with local carbonate, epidote and quartz lapilli, up to 2 %, up to 1 cm. There is fracture controlled quartz - calcite - chlorite veins and veinlets.											
139.4	160.7	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS											
		Brown to green andesitic tuff with chert and argillite beds. Tuff hosts up to 25 % crystals, up to 1 mm, feldspar and quartz. There is weak fracture controlled blue chloritization. Minor fracture controlled quartz - biotite veins occur. Brown to black argillite beds with 1 % fracture controlled pyrite occur from 139.5 to 140.5, 141.1 to 142.2 152.9 to 154.6 and 158.3 to 160.2. There are minor green and white 1 to 2 cm chert beds in the argillite and tuff.	VA01732	139.5	140.5	1.0	1	175	<5	72	1	<5	800
			VA01080	140.2	160.2	20.0	n/a	177	n/a	59	n/a	n/a	622
			VA01733	141.1	142.2	1.1	1	148	<5	54	1	<5	1000
			VA01734	152.9	153.9	1.0	1	116	<5	52	1	<5	760
			VA01735	153.9	154.6	.7	1	135	<5	83	1	<5	820
			VA01736	158.3	159.2	.9	1	157	<5	104	1	25	1100
			VA01737	159.2	160.2	1.0	1	134	7	63	1	12	2000
		Structure :. Bedding :. 140.2 : 59 degrees to core axis. 144.6 : 61 degrees to core axis. 153.0 : 63 degrees to core axis. 158.6 : 70 degrees to core axis. Foliations :. 147.2 : 66 degrees to core axis. 150.3 : 70 degrees to core axis. 157.3 : 68 degrees to core axis.											
160.7	167.6	FELDSPAR PORPHYRITIC MAFIC LAPILLI TUFF											
		Light green mafic tuff with 5 to 10 %, 1 mm, feldspar to epidotized feldspar crystals with minor chert clasts and epidotized lapilli. There are numerous minor fracture controlled quartz - red biotite veinlets. There is a 9 cm clast of hornblende bearing mafic flow at 162.1 near a brecciated chert bed. There is a 2 mm speck of chalcopyrite in a quartz - calcite vein at 163.6 m.	VA01081	161.0	167.0	6.0	n/a	150	n/a	54	n/a	n/a	312
		Foliations :. 161.4 : 69 degrees to core axis. 163.1 : 72 degrees to core axis. 166.0 : 85 degrees to core axis. Alteration :. 160.7 167.6 WEAK FRACTURE CONTROLLED CHLORITIZATION.											
167.6	177.5	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		167.6 168.6 Green, white and brown cherts with bedding at 63 degrees to core axis and 1 to 2 % fracture controlled pyrite with approximately 30 % mafic thermal biotite coloured tuffs.	VA01738	167.6	168.6	1.0	2	101	7	63	1	15	2300
			VA01739	168.6	169.6	1.0	1	77	12	71	<1	<5	810
			VA01740	169.6	170.5	.9	2	32	<5	88	<1	<5	3200
			VA01741	170.5	171.4	.9	2	26	7	58	<1	<5	2400
		168.6 169.6 Thermal biotite coloured tuff with very fine-grained crystals, minor cherts and	VA01742	171.4	173.0	1.6	1	90	5	42	<1	<5	1400
			VA01743	173.0	174.5	1.5	1	18	10	39	<1	<5	1400

From (m)	To (m)	DESCRIPTION
		fracture controlled pyrite, up to 1 %.
	169.6 171.4	Dark brown contorted tuff with augens of quartz , minor calcite and a 8 mm red - brown garnet at 170.0. There is approximately 1 to 2 % fracture controlled and fine-grained disseminated pyrite. Up to Foliation trend is at 69 degrees to core axis.
	171.4 177.5	Intercalated brown cherty argillites, green and white cherts and mafic to andesitic green to brown tuffs. There is minor epidotization and local fracture controlled calcite veinlets. Trace fracture controlled pyrite occurs in the sediments. There is trace chalcopyrite in strong fracture controlled carbonatization at 177.3. Bedding is at 52 degrees to core axis at 172.0 m, and 63 degrees to core axis at 176.0. Foliation is variable from 55 to 80 degrees to core axis.
177.5	198.8	FELDSPAR PORPHYRITIC GABBRO Fine-grained medium green plagiophyric gabbro dyke, with 3 to 20 %, average 10 %, 2 to 4 mm, feldspar grains. From 190.9 to 192.1 there is strong shearing with strong carbonatization and hematite. Shearing is at 84 degrees to core axis. There are minor fracture controlled quartz, epidote and carbonate veinlets at orientations of 0 to 90 degrees to core axis.
198.8	202.2	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Brown andesitic tuffs with 20 to 30 %, < 1 mm, feldspars and trace to 2 %, < 1 mm, quartz eyes. There is red, brown, green and white cherts and cherty argillites. Minor quartz veins occur. Sediments constitute 40 % of the interval with 2 to 3 % fracture controlled pyrite or 1 to 1.5 % pyrite for the interval. Bedding :. 199.9 : 50 degrees to core axis. 200.7 : 60 degrees to core axis. 200.9 : 64 degrees to core axis. 201.2 : 58 degrees to core axis. Lower contact : 44 degrees to core axis.
202.2	203.4	FELDSPAR PORPHYRITIC GABBRO Fine-grained gabbro with 15 %, 1 to 4 mm, feldspars and 5 % fracture controlled quartz - calcite - chlorite veinlets.
203.4	205.5	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01744	174.5	176.0	1.5	1	30	11	54	<1	<5	1500
VA01745	176.0	177.6	1.6	1	108	10	43	<1	<5	1300

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Brown to green andesitic tuff with 30 to 40 %, < 1 mm, and approximately 10 to 20 % light grey, green or white cherts with minor fracture controlled pyrite. Bedding at 204.9 is at 66 degrees to core axis and at 205.34 is at 61 degrees to core axis. Foliation is variable from 70 to 80 degrees to core axis.	VA01746	204.5	205.5	1.0	1	78	13	59	<1	<5	80
205.5	209.1	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Fine-grained medium green rock with strong quartz veins from 205.9 to 206.2. Is probably a mafic sill. Hosts 20 to 25 %, 1 to 2 mm, average up to 1 mm, mafic crystals, (?) hornblendes. There is strong local pervasive carbonatization and minor fracture controlled quartz - calcite - biotite veinlets. Trace to nil disseminated pyrite occurs. Alteration :. 205.5 209.1 STRONG PERVASIVE CARBONATIZATION. Foliations :. 208.5 : 56 degrees to core axis.	VA01082	205.5	209.1	3.6	n/a	199	n/a	37	n/a	n/a	249
209.1	218.1	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Grey - brown to grey to dark brown tuff with on average 20 to 25 % crystals, variable from 5 to 1 feldspar to quartz to 3 to 1 quartz to feldspar, crystals are from < 1 to 3 mm. There are green to black chert and cherty argillite beds. Matrix is chloritic with strong thermal biotite from 217.5 to 218.1. There is 1 % fracture controlled pyrite in the sediments. There are minor fracture controlled quartz veinlets. Sediments are less than 5 % of total interval. Bedding :. 210.8 : 53 degrees to core axis. 211.2 : 54 degrees to core axis. 212.4 : 63 degrees to core axis. 215.2 : 62 degrees to core axis. 217.9 : 60 degrees to core axis. Foliations :. 214.5 : 62 degrees to core axis. 215.5 : 52 degrees to core axis.	VA01083	210.0	218.0	8.0	n/a	165	n/a	45	n/a	n/a	1470
218.1	220.2	BLACK ARGILLITE Black argillite with minor clasts of INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS to 218.6. There is 3 to 5 % pyrite parallel to bedding and fracture controlled. There are numerous < 1 mm fracture controlled quartz veinlets, most are perpendicular to bedding. Bedding is at 71 to 74 degrees to core axis locally. Beds are on average 3 to 5 mm thick. Tops is downhole.	VA01747	218.1	219.2	1.1	4	74	15	89	<1	<5	2700
			VA01748	219.2	220.2	1.0	4	38	26	70	<1	<5	4200

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-49 | Page Number 9

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
220.2	220.8	FELDSPAR PORPHYRITIC GABBRO Fine-grained medium green gabbro with approximately 10 %, 3 mm, feldspars and minor fracture controlled calcite veinlets.											
220.8	250.6	BLACK ARGILLITE Blocky, highly fractured core from 235 to lower contact. Contains minor chert beds, but is greater than 90 % argillite. There is numerous fracture controlled quartz and calcite veinlets, up to 5 % of the argillite. There is 2 to 3 % fine-grained fracture controlled pyrite in the argillite. There is fault gouge from 243.4 to 244.4 at 63 degrees to core axis. Is much harder than Nanaimo argillite with good bedding. Lost core :. 236.8 238.0 0.1 m. 238.0 239.9 0.6 m. 239.9 240.8 0.3 m. 240.8 243.2 0.2 m. 243.2 244.4 0.3 m. 245.1 247.2 0.3 m. Bedding :. 221.0 : 73 degrees to core axis. 224.0 : 62 degrees to core axis. 226.5 : 72 degrees to core axis. 236.1 : 70 degrees to core axis. 241.9 : 50 degrees to core axis. Alteration :. 220.8 250.6 STRONG FRACTURE CONTROLLED CARBONATIZATION. 220.8 250.6 MODERATE FRACTURE CONTROLLED SILICIFICATION.	VA01749	220.8	222.0	1.2	3	54	28	89	<1	<5	3400
			VA01750	222.0	223.0	1.0	3	30	25	82	<1	<5	4800
			VA01751	223.0	224.0	1.0	3	47	25	98	<1	<5	5500
			VA01752	224.0	225.0	1.0	3	40	28	92	<1	<5	6200
			VA01753	225.0	226.0	1.0	3	21	29	80	<1	<5	4300
			VA01754	226.0	227.0	1.0	3	19	30	75	<1	<5	3100
			VA01755	227.0	228.0	1.0	3	18	25	69	<1	<5	2500
			VA01756	228.0	229.0	1.0	3	19	22	71	<1	<5	3100
			VA01757	229.0	230.0	1.0	3	23	28	88	<1	<5	2700
			VA01758	230.0	232.0	2.0	3	28	29	77	<1	43	2700
			VA01759	232.0	234.0	2.0	3	23	29	65	<1	6	3600
			VA01760	234.0	235.0	1.0	3	21	25	59	<1	<5	4000
			VA01761	236.0	238.0	2.0	3	28	30	86	<1	6	2800
			VA01762	238.0	240.0	2.0	3	25	31	66	<1	11	2200
			VA01763	240.0	242.0	2.0	3	22	31	72	<1	<5	2600
			VA01764	242.0	244.0	2.0	3	16	29	58	<1	25	2400
			VA01765	244.0	246.0	2.0	3	20	29	56	<1	<5	2300
			VA01766	246.0	248.0	2.0	3	24	30	68	<1	<5	2600
			VA01767	248.0	249.6	1.6	3	9	27	43	<1	<5	3200
			VA01768	249.6	250.6	1.0	3	18	29	40	<1	<5	2900
						30.9		28	27	72	<1	<5	3355
250.6	252.1	TUFFACEOUS CONGLOMERATE Felsic tuff with 15 to 20 %, 2 to 3 mm, quartz and feldspar grains and 5 %, 1 to 5 mm, argillite lapilli and 10 to 15 %, 5 to 20 cm, argillite angular blocks. There is minor fracture controlled calcite veinlets. Bedding is at 40 degrees to core axis and the foliation is at 65 to 70 degrees to core axis. End of hole : 827 feet (252.1 m) on Wednesday May 4, 1988 at 9:15 a.m. Total lost core: 5.4 m % Recovery = 97.9 %.												

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA00630	23.10	23.20	73.30	14.40	2.43	2.34	2.25	1.33	1.28	0.32	0.10	0.01	1.92	99.68	1120.	44.	5.
VA00631	33.40	33.50	71.00	15.00	2.11	1.52	1.69	3.08	1.48	0.33	0.08	0.02	3.08	99.39	2200.	55.	4.
VA00632	71.00	71.10	45.50	8.41	14.10	12.90	0.83	0.21	12.80	0.62	0.11	0.23	4.08	99.79	122.	47.	15.
VA00633	79.30	79.40	50.00	17.20	7.52	7.40	3.97	0.60	9.02	0.71	0.13	0.18	2.47	99.20	503.	41.	11.
VA00634	93.50	93.60	49.80	14.00	11.60	8.77	2.41	0.25	10.10	0.56	0.13	0.16	2.47	100.25	163.	39.	14.
VA00635	108.10	108.20	50.10	13.20	11.30	9.38	2.53	0.16	10.20	0.55	0.13	0.18	2.23	99.96	65.	41.	14.
VA00636	126.30	126.40	43.00	14.60	18.60	6.43	0.97	0.25	10.10	0.51	0.13	0.13	5.39	100.11	161.	25.	20.
VA00637	138.90	139.00	48.20	13.30	9.65	10.10	2.69	0.43	10.90	0.70	0.18	0.20	3.08	99.43	201.	46.	12.
VA00638	163.10	163.20	48.20	16.40	8.59	7.99	3.10	0.57	11.80	0.84	0.18	0.19	2.47	100.33	404.	42.	12.
VA00639	207.10	207.20	48.50	14.80	10.10	7.93	3.35	0.20	9.94	0.60	0.14	0.16	4.08	99.80	264.	38.	13.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01073	5.20	21.00	63.50	16.40	5.43	1.82	1.39	1.51	2.78	0.34			5.23	98.40	1360.	33.	7.
VA01074	21.00	33.00	70.40	15.70	2.39	2.49	2.17	2.11	1.60	0.37			2.70	99.93	1600.	50.	5.
VA01075	43.00	46.00	71.20	14.20	2.32	1.06	2.47	2.19	2.46	0.34			2.00	98.24	1530.	40.	5.
VA01076	68.00	84.00	44.40	17.30	14.30	5.76	2.12	0.62	10.60	0.62			3.77	99.49	451.	28.	16.
VA01077	85.00	105.00	49.20	13.80	11.10	8.60	2.68	0.30	9.84	0.56			2.62	98.70	163.	39.	14.
VA01078	105.00	125.00	45.70	14.00	10.20	8.32	2.71	0.41	10.00	0.58			7.16	99.08	257.	40.	13.
VA01079	127.00	137.00	46.00	15.00	10.80	7.75	2.38	1.09	10.50	0.81			3.47	97.80	634.	40.	13.
VA01080	140.20	160.20	49.70	16.60	5.98	6.91	4.00	1.58	9.74	0.79			3.08	98.38	622.	46.	10.
VA01081	161.00	167.00	47.10	16.20	9.68	7.33	3.07	0.40	11.00	0.80			2.85	98.43	312.	38.	13.
VA01082	205.50	209.10	51.30	14.80	7.52	7.64	4.53	0.17	9.43	0.61			3.00	99.00	249.	39.	12.
VA01083	210.00	218.00	48.40	16.50	5.68	8.15	3.73	0.98	10.00	0.77			5.23	99.44	1470.	49.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA01696	5.20	7.00	1200.0	31.0	31.0	<0.5	93.0	7.0	2.0	6.0	28.0	3.0	2.0	188.0	50.	5.	3.
VA01697	7.00	8.20	1000.0	61.0	17.0	0.6	104.0	10.0	<1.0	5.0	30.0	2.0	5.0	132.0	78.	5.	3.
VA01698	8.20	9.00	1500.0	27.0	12.0	<0.5	149.0	5.0	<1.0	<5.0	13.0	2.0	4.0	110.0	69.	5.	3.
VA01699	9.00	10.50	1100.0	17.0	8.0	0.6	102.0	6.0	<1.0	5.0	18.0	2.0	4.0	72.0	68.	5.	2.
VA01700	10.50	12.00	750.0	22.0	13.0	<0.5	41.0	5.0	<1.0	<5.0	9.0	2.0	2.0	79.0	63.	2.	2.
VA01702	12.00	13.00	1200.0	23.0	12.0	<0.5	42.0	5.0	<1.0	7.0	12.0	<1.0	3.0	73.0	66.	2.	2.
VA01701	13.00	14.00	1500.0	22.0	8.0	<0.5	111.0	6.0	2.0	6.0	12.0	2.0	4.0	62.0	73.	2.	2.
VA01703	14.00	15.00	2100.0	108.0	14.0	<0.5	60.0	8.0	2.0	9.0	10.0	3.0	3.0	54.0	89.	2.	3.
VA01704	15.00	16.00	2300.0	254.0	44.0	0.9	119.0	10.0	4.0	14.0	24.0	4.0	7.0	43.0	85.	2.	8.
VA01705	16.00	17.20	760.0	43.0	17.0	0.5	176.0	9.0	5.0	<5.0	15.0	2.0	3.0	196.0	72.	5.	4.
VA01706	17.20	20.20	1500.0	49.0	17.0	<0.5	224.0	9.0	4.0	8.0	13.0	2.0	4.0	62.0	74.	4.	3.
VA01707	20.20	21.20	1900.0	17.0	38.0	<0.5	147.0	5.0	<1.0	10.0	<5.0	2.0	6.0	167.0	31.	4.	3.
VA01708	21.20	22.70	1400.0	36.0	20.0	<0.5	51.0	3.0	<1.0	6.0	20.0	<1.0	3.0	86.0	64.	1.	1.
VA01709	30.00	32.00	2200.0	37.0	12.0	<0.5	77.0	5.0	<1.0	<5.0	30.0	2.0	4.0	78.0	76.	2.	3.
VA01710	42.80	43.80	1500.0	188.0	19.0	0.7	293.0	10.0	3.0	9.0	<5.0	1.0	4.0	103.0	91.	2.	2.
VA01711	43.80	44.80	1800.0	176.0	32.0	0.8	69.0	7.0	2.0	14.0	16.0	3.0	4.0	80.0	85.	2.	2.
VA01712	44.80	45.80	850.0	173.0	38.0	0.7	22.0	17.0	12.0	14.0	20.0	2.0	3.0	261.0	82.	2.	3.
VA01713	45.80	46.70	6500.0	1361.0	10000.0	4.9	445.0	13.0	11.0	34.0	17.0	57.0	9.0	97.0	12.	2.	2.
VA01714	52.20	53.10	2500.0	721.0	1321.0	2.0	145.0	11.0	11.0	21.0	12.0	11.0	5.0	146.0	35.	1.	3.
VA01715	53.10	54.10	3600.0	367.0	535.0	1.7	288.0	17.0	3.0	94.0	29.0	6.0	2.0	415.0	41.	3.	4.
VA01716	54.10	55.10	2300.0	203.0	106.0	1.0	29.0	22.0	4.0	10.0	11.0	3.0	<1.0	595.0	66.	3.	5.
VA01717	55.10	56.30	3800.0	4800.0	1604.0	28.0	634.0	25.0	10.0	5600.0	35.0	11.0	2.0	529.0	75.	3.	5.
VA01718	56.30	56.60	7100.0	15600.	198500.0	73.7	1954.2	9.0	57.0	13800.0	368.0	1161.0	225.0	609.0	7.	51.	>10.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS
VA01719	56.60	57.00	10000.0	19200.0	22500.0	83.7	3051.4	26.0	72.0	12000.0	318.0	143.0	32.0	150.0	46.	27.
VA01720	57.00	57.40	7200.0	14300.0	46000.0	145.7	6068.4	15.0	37.0	23600.0	531.0	246.0	31.0	213.0	24.	27
VA01721	57.40	57.80	26000.0	23900.0	38000.0	79.5	1885.7	7.0	31.0	6300.0	186.0	271.0	40.0	277.0	39.	33
VA01722	57.80	58.20	32000.0	20400.	105500.0	68.2	1062.8	4.0	28.0	2099.0	78.0	608.0	40.0	170.0	16.	52
VA01723	58.20	58.60	29000.0	47500.0	17700.0	119.3	2571.4	3.0	38.0	1763.0	132.0	125.0	41.0	149.0	73.	5C
VA01724	58.60	59.00	25000.0	64000.0	26000.0	135.8	960.0	3.0	36.0	346.0	98.0	166.0	44.0	92.0	71.	5C
VA01725	59.00	59.70	30000.0	14900.0	4900.0	46.6	688.0	4.0	15.0	156.0	83.0	27.0	23.0	60.0	75.	
VA01726	59.70	60.10	19000.0	14300.0	12200.0	35.7	1714.3	10.0	10.0	874.0	71.0	56.0	20.0	53.0	54.	1
VA01727	60.10	60.80	20000.0	13600.0	12200.0	35.0	1645.7	13.0	12.0	952.0	84.0	66.0	24.0	76.0	53.	
VA01728	60.80	61.20	17000.0	16000.0	1800.0	32.9	335.0	26.0	6.0	250.0	136.0	18.0	8.0	40.0	90.	
VA01729	61.20	62.00	11000.0	1200.0	1200.0	8.1	266.0	8.0	2.0	93.0	139.0	10.0	4.0	31.0	50.	
VA01730	62.00	63.00	11000.0	2400.0	700.0	12.3	540.0	7.0	3.0	524.0	86.0	5.0	4.0	36.0	77.	
VA01731	119.80	120.80	2000.0	68.0	92.0	0.7	14.0	23.0	3.0	<5.0	23.0	3.0	<1.0	1376.0	43.	
VA01732	139.50	140.50	800.0	175.0	72.0	0.6	<5.0	29.0	32.0	<5.0	22.0	5.0	1.0	1193.0	71.	
VA01733	141.10	142.20	1000.0	148.0	54.0	0.7	<5.0	25.0	53.0	<5.0	8.0	4.0	<1.0	1006.0	73.	
VA01734	152.90	153.90	760.0	116.0	52.0	0.7	<5.0	23.0	27.0	<5.0	<5.0	5.0	1.0	896.0	69.	
VA01735	153.90	154.60	820.0	135.0	83.0	0.8	<5.0	27.0	29.0	<5.0	<5.0	5.0	1.0	1167.0	62.	
VA01736	158.30	159.20	1100.0	157.0	104.0	0.6	25.0	26.0	19.0	<5.0	31.0	4.0	1.0	773.0	60.	
VA01737	159.20	160.20	2000.0	134.0	63.0	0.7	12.0	26.0	37.0	7.0	8.0	5.0	2.0	1034.0	68.	
VA01738	167.60	168.60	2300.0	101.0	63.0	0.6	15.0	20.0	41.0	7.0	21.0	4.0	2.0	583.0	62.	
VA01739	168.60	169.60	810.0	77.0	71.0	<0.5	<5.0	26.0	51.0	12.0	8.0	2.0	6.0	463.0	52.	
VA01740	169.60	170.50	3200.0	32.0	88.0	<0.5	<5.0	33.0	146.0	<5.0	<5.0	2.0	8.0	1235.0	27.	
VA01741	170.50	171.40	2400.0	26.0	58.0	<0.5	<5.0	27.0	89.0	7.0	<5.0	2.0	6.0	709.0	31.	

Hole No. CH88-49

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01742	171.40	173.00	1400.0	90.0	42.0	<0.5	<5.0	29.0	56.0	5.0	<5.0	2.0	4.0	511.0	68.	1.	4.
VA01743	173.00	174.50	1400.0	18.0	39.0	<0.5	<5.0	25.0	69.0	10.0	<5.0	2.0	4.0	837.0	32.	1.	3.
VA01744	174.50	176.00	1500.0	30.0	54.0	<0.5	<5.0	32.0	84.0	11.0	8.0	2.0	5.0	921.0	36.	1.	4.
VA01745	176.00	177.60	1300.0	108.0	43.0	<0.5	<5.0	34.0	73.0	10.0	10.0	2.0	4.0	547.0	72.	1.	4.
VA01746	204.50	205.50	80.0	78.0	59.0	<0.5	<5.0	26.0	51.0	13.0	<5.0	2.0	3.0	528.0	57.	1.	4.
VA01747	218.10	219.20	2700.0	74.0	89.0	<0.5	<5.0	24.0	54.0	15.0	14.0	2.0	6.0	772.0	45.	4.	5.
VA01748	219.20	220.20	4200.0	38.0	70.0	<0.5	<5.0	11.0	23.0	26.0	13.0	<1.0	1.0	342.0	35.	4.	3.
VA01749	220.80	222.00	3400.0	54.0	89.0	<0.5	<5.0	12.0	28.0	28.0	13.0	1.0	2.0	358.0	38.	3.	3.
VA01750	222.00	223.00	4800.0	30.0	82.0	<0.5	<5.0	7.0	16.0	25.0	10.0	<1.0	2.0	327.0	27.	3.	3.
VA01751	223.00	224.00	5500.0	47.0	98.0	<0.5	<5.0	9.0	30.0	25.0	14.0	<1.0	1.0	368.0	32.	3.	3.
VA01752	224.00	225.00	6200.0	40.0	92.0	<0.5	<5.0	7.0	29.0	28.0	13.0	<1.0	1.0	418.0	30.	3.	3.
VA01753	225.00	226.00	4300.0	21.0	80.0	<0.5	<5.0	3.0	14.0	29.0	8.0	<1.0	2.0	348.0	21.	3.	2.
VA01754	226.00	227.00	3100.0	19.0	75.0	<0.5	<5.0	3.0	18.0	30.0	11.0	<1.0	4.0	558.0	20.	3.	2.
VA01755	227.00	228.00	2500.0	18.0	69.0	<0.5	<5.0	4.0	12.0	25.0	8.0	<1.0	<1.0	557.0	21.	3.	3.
VA01756	228.00	229.00	3100.0	19.0	71.0	<0.5	<5.0	6.0	13.0	22.0	<5.0	<1.0	<1.0	614.0	21.	3.	3.
VA01757	229.00	230.00	2700.0	23.0	88.0	<0.5	<5.0	3.0	19.0	28.0	11.0	<1.0	5.0	554.0	21.	3.	2.
VA01758	230.00	232.00	2700.0	28.0	77.0	<0.5	43.0	3.0	35.0	29.0	17.0	<1.0	2.0	399.0	27.	3.	3.
VA01759	232.00	234.00	3600.0	23.0	65.0	<0.5	6.0	2.0	16.0	29.0	5.0	<1.0	<1.0	408.0	26.	3.	2.
VA01760	234.00	235.00	4000.0	21.0	59.0	<0.5	<5.0	2.0	10.0	25.0	<5.0	<1.0	<1.0	353.0	26.	3.	2.
VA01761	236.00	238.00	2800.0	28.0	86.0	<0.5	6.0	2.0	23.0	30.0	6.0	<1.0	<1.0	451.0	25.	3.	2.
VA01762	238.00	240.00	2200.0	25.0	66.0	<0.5	11.0	4.0	19.0	31.0	10.0	<1.0	<1.0	399.0	27.	3.	2.
VA01763	240.00	242.00	2600.0	22.0	72.0	<0.5	<5.0	2.0	21.0	31.0	6.0	<1.0	<1.0	294.0	23.	3.	2.
VA01764	242.00	244.00	2400.0	16.0	58.0	<0.5	25.0	2.0	11.0	29.0	13.0	<1.0	<1.0	493.0	22.	3.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA01765	244.00	246.00	2300.0	20.0	56.0	<0.5	<5.0	3.0	14.0	29.0	17.0	<1.0	<1.0	282.0	26.	3.	2.
VA01766	246.00	248.00	2600.0	24.0	68.0	<0.5	<5.0	3.0	26.0	30.0	16.0	<1.0	1.0	403.0	26.	3.	2.
VA01767	248.00	249.60	3200.0	9.0	43.0	<0.5	<5.0	2.0	11.0	27.0	<5.0	<1.0	<1.0	603.0	17.	3.	2.
VA01768	249.60	250.60	2900.0	18.0	40.0	<0.5	<5.0	3.0	16.0	29.0	12.0	<1.0	<1.0	297.0	31.	3.	2.

Summary Log: DDH CH88-50
Location: 30+00 E, 0+95 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 6, 1988
Core logged by: J. Pattison

0.0	12.7	Casing.
12.7	39.1	Chloritic felsic ash and crystal tuffs
39.1	42.7	Gabbro
42.7	43.9	Nanaimo Formation argillite
43.9	50.0	Weakly chloritized felsic tuff
50.0	95.4	Nanaimo Formation argillite, greywacke and conglomerate
95.4	104.0	Chloritic felsic ash tuff
104.0	129.0	Chloritic felsic lapilli tuff
129.0	139.7	Chloritic felsic quartz eye tuff
139.7	147.0	Weakly chloritized felsic tuff
147.0	194.4	Felsic lapilli tuff 10 % pyrite over 6.0 m. Pyrite is heavily disseminated in the matrix of the coarsest portion of the tuff where angular felsic fragments up to 1.5 cm wide and over 7.0 cm long occur.
194.4	200.5	Felsic feldspar crystal tuff
200.5	218.3	Felsic lapilli tuff
218.3	223.4	Gabbro
223.4	234.8	Felsic lapilli tuff 7 % sphalerite, 5 % pyrite and 1.5 % chalcopyrite over 2.4 m. Sulphides are disseminated in a quartz crystal-rich matrix. The sphalerite is red-brown, finely dissminated along foliatio planes and is difficult to distinguish from biotite which also occurs throughout the interval.
234.8	259.0	Gabbro
259.0	280.7	Massive mafic flows or gabbro
280.7	286.3	Mafic to intermediate tuffaceous sediments
286.3	300.5	Massive mafic flow

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 | Page Number 1

Hole Location: 30+00 E 0+95 S

NTS: 92B13 UTM: 5416854.9 N 430278.4 E
Azimuth: 210 Elevation: 533 m
Dip: -50 Length: 300.5 m

Started: 2-May-88
Completed: 6-May-88

Claim No. Chip 1
Section No.: 30+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size:

Purpose:

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
20.10	211.0	-50.0	216.70	214.0	-46.0
123.70	213.0	-48.5			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	12.7	OVERBURDEN											
12.7	17.1	WEAKLY CHLORITIC FELSIC TUFF Medium to light green moderately to weakly chloritic, well foliated felsic ash tuff with an occasional quartz eye up to 3 mm or lapilli-sized felsic fragment. STRUCTURE:. Foliation is kinked over most of the interval. At 15.0 m bedding is at 70 degrees to core axis. ALTERATION:. 12.7 17.1 MODERATE PERVASIVE CHLORITIZATION. SULPHIDES:. 15.1-17.1 m 2 % pyrite and trace sphalerite disseminated and in <2 mm bands parallel to foliation.	VA02824	12.7	29.3	16.6	n/a	121	n/a	32	n/a	n/a	661
			VA03650	14.1	15.1	1.0	2	72	16	204	<1	<5	480
			VA03651	15.1	16.1	1.0	2	12	45	47	<1	<5	970
			VA03652	16.1	17.1	1.0	2	17	47	32	<1	<5	1100
17.1	29.3	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF 2-10 %, 1-3 mm epidotized feldspar crystals in a well foliated, moderately chloritic felsic to intermediate matrix. Locally up to 5 % grey, poorly defined felsic fragments. 5 % 2-4 mm white quartz eyes. Trace disseminated pyrite. Lower contact is a major fault at 40 degrees to core axis. STRUCTURE:. Rock has a crushed appearance over the entire interval. 18.8-18.9 M strongly chloritic fault breccia at 40 degrees to core axis.	VA03653	17.1	18.1	1.0	1	30	41	45	<1	<5	1000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		23.2-23.6 M FAULT ZONE at 10 degrees to core axis. 0.3 m of lost core. At 26.1 m 3.0 cm fault gouge at 60 degrees to core axis. 27.2 27.7 M FAULT ZONE at 70 degrees to core axis. 28.0-29.3 M FAULT ZONE at 40 degrees to core axis. 0.9 m of lost core. ALTERATION:. 17.1 29.3 MODERATE PERVASIVE CHLORITIZATION.											
29.3	31.6	MAFIC INTRUSIVE Dark green, fine-grained with trace to 1 % finely disseminated ilmenite. Crushed over the entire interval. Lower contact is a fault gouge at 70 degrees to core axis. STRUCTURE:. Entire interval is part of a FAULT ZONE at 40-70 degrees to core axis. No lost core although there are fault gouges up to 0.5 m long. ALTERATION:. 29.3 31.6 Weak fracture controlled hematization.											
31.6	39.1	FELSIC TUFF Crushed, light grey, moderately sericitic ash tuff. Lower contact is very irregular and intrusive in appearance. STRUCTURE:. 32.3 33.0 M FAULT ZONE at 40 degrees to core axis. Core is broken and blocky. 0.3 m of lost core. At 34.4 m.1 m fault gouge at 60 degrees to core axis. Strongly microfractured for 0.2 m from the lower contact. Microfractures are filled with quartz + carbonate. 37.4-37.7 M fault zone at 70 degrees to core axis. 0.2 m of lost core. ALTERATION:. 31.6 39.1 MODERATE PERVASIVE SERICITIZATION. SULPHIDES:. 31.6-39.1 m 2 % fracture controlled pyrite. In most cases pyrite is crushed and is almost black. Trace chalcopyrite at 31.9 m.	VA02825	31.6	39.1	7.5	n/a	18	n/a	14	n/a	n/a	2080
			VA03654	31.6	32.6	1.0	2	124	44	28	<1	<5	2700
			VA03655	32.6	33.6	1.0	2	49	43	37	<1	<5	2000
			VA03656	33.6	34.6	1.0	2	11	48	21	<1	<5	2300
			VA03657	34.6	35.6	1.0	2	14	51	27	<1	<5	2700
			VA03658	35.6	36.6	1.0	2	35	28	19	<1	<5	2600
			VA03659	36.6	37.6	1.0	2	27	28	27	<1	<5	1900
			VA03660	37.6	38.6	1.0	2	48	24	30	<1	5	2000
			VA03661	38.6	39.1	.5	2	32	9	59	<1	<5	290
39.1	42.7	MAFIC INTRUSIVE As 29.3 to 31.6 m. Lower contact is sharp and appears to be an unconformity at 50 degrees to core axis. The contact is offset 1.5 cm by a microfault at 30 degrees to											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		core axis. STRUCTURE:. 31.2-31.4 M fault gouge at 15 degrees to core axis.											
42.7	43.9	NANAIMO ARGILLITE Less than 5 % < 2 mm light grey angular fine-grained felsic clasts in a black, weakly graphitic argillite. Several rip-up greywacke clasts. Rock is crushed over the entire interval. Lower contact is a fault at 60 degrees to core axis.											
43.9	50.0	WEAKLY CHLORITIC FELSIC TUFF Appears to be an ash tuff but is strongly crushed over most of the interval and original textures are difficult to recognize. Lower contact is a 0.1 m fault gouge at 30 degrees to core axis.	VA02826 VA03662 VA03663 VA03664	43.9 46.9 48.0 49.0	50.0 48.0 49.0 50.0	6.1 1.1 1.0 1.0	n/a 2 1 1	27 31 28 43	n/a 27 28 17	12 39 18 34	n/a <1 <1 <1	n/a 23 <5 <5	1980 1100 460 1400
		STRUCTURE. 43.9-46.9 M FAULT ZONE at 30-50 degrees to core axis. 0.4 m of lost core. At 48.8 m 5.0 cm fault gouge at 60 degrees to core axis. 48.8-49.4 M blocky, highly fractured core. 0.2 m of lost core. ALTERATION:. 43.9 46.9 MODERATE PERVASIVE SERICITIZATION. 46.9 50.0 MODERATE PERVASIVE SILICIFICATION. SULPHIDES:. 47.0 2.0 % fracture controlled pyrite. 46.9 47.5 Ripped-up argillite beds are common.												
50.0	61.3	NANAIMO ARGILLITE Black to dark brown weakly graphitic argillite. Up to 5 % <2 mm felsic and occasionaly pyrite clasts < 4 mm in diameter below 55.0 m. Rock becomes coarser below 55.0 m and broken up beds and clasts of argillaceous wackes are common. Below 58.0 m clasts are up to 1.0 cm in diameter, are often sulphide rich. And comprise less than 2 % of the rock. Broken core at the lower contact.	VA03665	55.0	56.0	1.0	2	68	<5	100	<1	6	790
		STRUCTURE:. At 50.9 m 0.5 cm fault gouge at 65 degrees to core axis. At 51.5 m 1.0 cm fault gouge at 70 degrees to core axis. 51.8-52.0 M blocky, highly fractured core. At 52.3 m foliation is at 60 degrees to core axis. 52.7-52.8 M fault zone at 70 degrees to core axis.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 Page Number 4

From (m)	To (m)	DESCRIPTION
		At 53.6 m 7.0 cm fault gouge at 40 degrees to core axis. 53.9-54.0 M fault gouge at 40 degrees to core axis. 52.3 888.8 0.5 cm ripped-up bed of greywacke. At 60.6 m minor fault gouge. Not possible to measure the orientation.
61.3	76.0	NANAIMO GREYWACKE Medium grey, massive greywacke with less than 5 % black mud clasts < 1.0 cm long and up to 1 % angular lithic and sulphide fragments < 4 mm in diameter. Becomes coarser and richer in quartz grains below 71.0 m (5-10 % granule-sized quartz and volcanic clasts). Grades into the next unit. The lower contact is arbitrarily placed where pebbles first appear. STRUCTURE:. 61.1-61.7 M blocky, highly fractured core. 62.5-63.8 M blocky, highly fractured core. 65.8-66.9 M blocky, highly fractured core. At 67.0 m 1.0 cm fault gouge at 70 degrees to core axis. 67.3-68.7 M FAULT ZONE (?) at 75 degrees to core axis. Blocky, highly fractured core. 70.5-71.0 M blocky, highly fractured core. 72.1-72.9 m 1.0 cm fault gouge runs parallel to the core axis. 74.1-76.0 M FAULT ZONE. Core is broken and rubbly over the entire interval. 1.2 M of lost core. Not possible to measure the orientation of the fault but it appears to run close to the core axis. This fault runs into the next unit
76.0	80.0	NANAIMO CONGLOMERATE Matrix supported pebble conglomerate which coarsens downhole on a gross scale. The following clasts occur in the coarse quartz rich matrix. Cherty black argillite (5%). Light to medium green, fine-grained clasts (5%). Light grey, fine-grained felsic volcanics (5%). Lght green to brown to grey cherty clasts (5%). Sulphide clasts (<1%). The lower contact is very sharp and appears to be a fault at 60 degrees to core axis. STRUCTURE:. 76.2-76.6 M FAULT ZONE which appears to be at a very low angle to the core axis. 77.1-79.6 M FAULT ZONE. Blocky, highly fractured core. 1.0 m of lost core. Not possible to measure orientation of the fault.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 | Page Number 5

From (m)	To (m)	----------DESCRIPTION----------
80.0	83.5	NANAIMO CONGLOMERATE As 61.3 to 76.0 m with up to 5 % angular to subrounded, granule to pebble-sized clasts of cherty sediments and felsic volcanics. Lower contact is a fault zone at 65 degrees to core axis. STRUCTURE:. 80.4-80.8 M FAULT ZONE at 70 degrees to core axis. 0.1 m of lost core. 83.0-83.5 M FAULT ZONE at 65 degrees to core axis. 81.6 888.8 5.0 cm bed of pebble conglomerate at 60 degrees to core axis.
83.5	84.9	NANAIMO CONGLOMERATE Similiar to 76.0 to 80.0 m except felsic clasts are somewhat more abundant and clasts are larger on average. Clasts are largest and most abundant immediately above the lower contact which is at 75 degrees to core axis.
84.9	86.6	NANAIMO GREYWACKE As 61.3 to 76.0 m with several 10.0 cm beds of granule to pebble conglomerate. Lower contact is a fault that appears to be at 40 degrees to core axis. STRUCTURE:. At 85.3 m bedding is at 70 degrees to core axis. 86.4-86.6 M fault zone at 40 ? degrees to core axis.
86.6	88.3	NANAIMO CONGLOMERATE Unsorted granule to pebble conglomerate similiar to 76.0 to 80.0 m. Lower contact is at 80 degrees to core axis.
88.3	93.6	NANAIMO GREYWACKE Greywacke as 61.3 to 76.0 m with up to 5 % granule to pebble-sized black argillite, light green cherty sediment and light grey felsic clasts. Also, locally up to 20 % irregular rip-up clasts of slightly lighter grey greywacke. Several beds of pebble conglomerate up to 0.3 m thick. Lower contact is gradational over 5.0 cm. STRUCTURE:. At 91.2 m bedding is at 70 degrees to core axis. At 92.2 m bedding is at 75 degrees to core axis. At 93.2 m bedding is at 70 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		90.9 91.2 Pebble conglomerate at 75 degrees to core axis.											
		92.0 92.2 Pebble conglomerate coaresens downhole.											
		92.4 93.2 Granule conglomerate. Similiar to other conglomerates but almost all clasts are < 5 mm in diameter. Lower contact is sharp at 70 degrees to core axis.											
93.6	95.4	NANAIMO CONGLOMERATE Generally a matrix supported conglomerate but locally is clast supported over 0.1 m intervals. Minor 1.0 cm fault gouge near the lower contact but lower contact itself appears to be an irregular erosional contact at approximately 80 degrees to core axis. STRUCTURE:. At 94.6 m bedding is at 79 degrees to core axis. 94.6 94.8 Greywacke.											
95.4	104.0	WEAKLY CHLORITIC FELSIC TUFF Light grey, moderately sericitic, coarse felsic ash tuff with 2 % light grey quartz eyes <3 mm in diameter. Less than 5 % light grey, hazy lapilli-sized felsic fragments. Lower contact is placed where lapilli become conspicuous. STRUCTURE:. 95.7-96.0 M FAULT ZONE at 45 degrees to core axis. 0.1 m of lost core. At 100.5 m foliation is at 20 degrees to core axis. At 104.4 m 3 mm fault gouge at 15 degrees to core axis. ALTERATION:. 95.4 104.0 MODERATE PERVASIVE SERICITIZATION and WEAK SPOTTY CHLORITIZATION. Chlorite alteration increases downhole. 97.3 97.7 Moderate biotization gives rock a reddish hue. SULPHIDES:. 95.4-96.7 m 5 % fracture controlled and disseminated pyrite 96.7-98.4 m 2 % disseminated pyrite and possibly trace disseminated sphalerite (maybe thermal biotite). 98.4-101.3 m 5 % disseminated and fracture controlled pyrite. Pyrite occurs in spots up to 3 mm in diameter. 101.3-103.3 m 2 % disseminated pyrite. 103.3-104.0 m 7 % pyrite disseminated and fracture	VA03666	95.4	96.4	1.0	5	43	28	27	<1	<5	1700
			VA02827	95.4	104.0	8.6	n/a	17	n/a	<10	n/a	n/a	1410
			VA03667	96.4	97.4	1.0	4	39	35	39	<1	<5	1300
			VA03668	97.4	98.0	.6	4	43	24	29	<1	<5	1300
			VA03669	98.0	99.0	1.0	5	55	26	9	<1	6	1500
			VA03670	99.0	100.0	1.0	5	28	25	14	<1	<5	1400
			VA03671	100.0	101.3	1.3	5	47	23	37	<1	<5	1600
			VA03672	101.3	102.3	1.0	2	42	22	54	<1	32	1800
			VA03673	102.3	103.3	1.0	2	28	25	6	<1	<5	1600
			VA03674	103.3	104.0	.7	7	65	23	9	<1	<5	2100

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		controlled and possibly 1 % fracture controlled dark brown sphalerite (or biotite). Much of the pyrite is within a light brown alteration patch (epidote+biotite ?).											
104.0	129.0	CHLORITIC FELSIC LAPILLI TUFF											
		5-20 % dark green chloritic fragments up to 1.0 cm wide and 8.0 cm long stretched parallel to foliation in a grey sericitic felsic matrix. The larger fragments below 113.0 m are similiar to the chloritic fiamme exposed in the Anita Excavation.	VA02828	104.0	129.0	25.0	n/a	20	n/a	16	n/a	n/a	1610
			VA03675	104.0	105.0	1.0	2	22	24	6	<1	<5	2000
			VA03676	105.0	106.0	1.0	2	9	22	7	<1	<5	1600
			VA03677	106.0	107.0	1.0	2	15	23	5	<1	<5	1500
			VA03678	107.0	108.0	1.0	2	43	22	6	<1	<5	1900
		Locally up to 5 % <3 mm quartz eyes. Quartz eyes sometimes occur within the chloritic lapilli.	VA03679	108.0	109.0	1.0	2	26	24	12	<1	<5	1700
			VA03680	109.0	110.0	1.0	2	3	29	15	<1	<5	1400
		Lower contact is placed where chloritic lapilli become rare	VA03681	110.0	111.0	1.0	2	49	38	28	<1	8	1300
			VA03682	111.0	112.0	1.0	2	22	30	16	<1	12	1400
		STRUCTURE:.	VA03683	126.0	127.0	1.0	4	18	21	45	<1	<5	1100
		At 106.1 m foliation is at 20 degrees to core axis.	VA03684	127.0	128.0	1.0	4	18	20	44	<1	<5	940
		108.4-108.6 M crushed fault zone at 55-70 degrees to core axis. Several fault gouges up to 5.0 cm wide.											
		At 110.4 m foliation is at 30 degrees to core axis.											
		At 116.0 m foliation is at 40 degrees to core axis.											
		At 122.4 m foliation is at 20 degrees to core axis.											
		At 126.9 m 1.0 cm fault gouge at 20 degrees to core axis.											
		At 127.6 m foliation is at 20 degrees to core axis.											
		ALTERATION:.											
		104.0 123.7 WEAK SPOTTY CHLORITIZATION.											
		123.7 125.0 MODERATE PERVASIVE SILICIFICATION.											
		125.0 128.0 WEAK SPOTTY CHLORITIZATION.											
		SULPHIDES:.											
		104.0-112.0 m 1-2 % disseminated pyrite and possibly trace sphalerite.											
		112.0-126.0 M trace disseminated and fracture controlled pyrite.											
		126.0-129.0 m 3-4% disseminated pyrite as spots up to 2 mm in diameter.											
		108.6 109.0 40 % chloritic lapilli (fiamme ?) up to 5 mm wide stretched parallel to foliation. Gives rock a green striped appearance.											
129.0	139.7	CHLORITIC FELSIC QUARTZ EYE TUFF											
		Up to 10 % 1-4 mm clear quartz eyes and up to 5 % poorly defined, hazy light grey to green felsic lapilli in a sericitic fine-grained, siliceous matrix which contains up to 15 % <0.5 mm feldspar crystals. Quite massive, only weakly foliated. Weak patchy chloritization gives rock a mottled appearance. Weakly to moderately microfractured, fractures are filled with quartz.	VA02829	129.0	139.7	10.7	n/a	31	n/a	<10	n/a	n/a	1430
			VA03685	133.0	134.0	1.0	3	2	26	12	<1	<5	1400
			VA03686	134.0	135.2	1.2	3	2	21	23	<1	<5	1500

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Lower contact is placed where quartz eyes dissapear.											
		STRUCTURE:.											
		At 138.7 m bedding is at 45 degrees to core axis.											
		ALTERATION:.											
		129.0 135.4 WEAK PERVASIVE SILICIFICATION and WEAK PERVASIVE SERICITIZATION.											
		135.4 138.7 MODERATE PERVASIVE SILICIFICATION and WEAK SPOTTY CHLORITIZATION.											
		138.7 139.7 WEAK PERVASIVE SILICIFICATION and WEAK SPOTTY CHLORITIZATION.											
		SULPHIDES:.											
		129.0-133.0 m 1 % disseminated pyrite.											
		133.0-135.2 m 3 % disseminated pyrite. Pyrite occurs as spots 1-3 mm in diameter.											
		135.2-139.7 M nil to trace disseminated pyrite.											
139.7	147.0	WEAKLY CHLORITIC FELSIC TUFF											
		As 129.0 to 139.7 m except no quartz eyes.	VA02830	139.7	147.0	7.3	n/a	<10	n/a	<10	n/a	n/a	1420
		STRUCTURE:.											
		143.2-143.9 M FAULT ZONE at 40-60 degrees to core axis.											
		0.5 m of lost core.											
		At 145.2 m foliation is at 46 degrees to core axis.											
		ALTERATION:.											
		139.7 147.0 WEAK SPOTTY CHLORITIZATION.											
		SULPHIDES:.											
		143.9-147.0 m 2-3 % disseminated pyrite.											
147.0	194.4	FELSIC LAPILLI TUFF											
		Up to 30 % light to dark grey fine-grained rounded felsic lapilli in a siliceous, moderately sericitic, fine-grained matrix. Locally weak, patchy chlorite alteration gives rock a mottled appearance. Lower contact is a bedding contact at 50 degrees to core axis.	VA02831	147.0	177.0	30.0	n/a	46	n/a	<10	n/a	n/a	2460
			VA03687	147.0	148.0	1.0	4	43	21	18	<1	<5	1500
			VA03688	148.0	149.0	1.0	2	15	23	11	<1	<5	1500
			VA03689	149.0	150.0	1.0	2	17	23	14	<1	<5	1300
			VA03690	150.0	151.0	1.0	2	233	23	16	<1	10	1900
			VA03691	151.0	151.3	.3	4	75	19	27	<1	<5	1300
		STRUCTURE:.	VA03692	151.3	151.8	.5	5	4300	32	169	6	192	470
		At 148.8 m foliation is at 30 degrees to core axis.	VA03693	151.8	153.0	1.2	3	49	24	15	<1	<5	1400
		At 151.8 m bedding is at 35 degrees to core axis.	VA03694	153.0	154.0	1.0	3	187	20	30	<1	12	1700
		156.0-156.6 M slip runs parallel to the core axis. Blocky, highly fractured core.	VA03695	154.0	155.0	1.0	3	107	6	24	<1	9	1200
			VA03696	155.0	156.0	1.0	2	20	8	19	<1	<5	1100
		At 161.6 m foliation is at 33 degrees to core axis.	VA03697	156.0	157.0	1.0	4	27	8	19	<1	5	1800
		At 173.5 m 0.5 cm fault gouge at 40 degrees to core axis.	VA03698	157.0	158.0	1.0	4	17	10	11	<1	5	1700
		At 180.7 m bedding is at 30 degrees to core axis.	VA03699	158.0	159.0	1.0	4	18	8	14	<1	<5	1500
		At 183.0 m foliation is at 30 degrees to core axis.	VA03700	159.0	160.0	1.0	4	21	5	15	<1	<5	1400

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50

From (m)	To (m)	----------DESCRIPTION----------
		At 185.1 m 5.0 cm fault gouge at 30 degrees to core axis.
		At 186.1 m 4.0 cm fault gouge at 35 degrees to core axis.
		At 190.1 m foliation is at 50 degrees to core axis.
		ALTERATION:.
		147.0 MODERATE PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION.
		169.5 175.0 WEAK FRACTURE CONTROLLED SILICIFICATION.
		SULPHIDES:.
		147.0-148.0 m 4 % pyrite, disseminated and in two large lapilli.
		148.0-151.0 m 1-2 % disseminated pyrite.
		151.0-151.5 M pyrite in clumps up to 5 mm in diameter.
		151.5-151.8 M bed of massive pyrite with trace chalcopyrite and sphalerite at 35 degrees to core axis.
		151.8-155.0 m 3 % disseminated pyrite.
		155.0-156.0 m 2 % disseminated pyrite.
		156.0-162.0 m 3-4 % disseminated pyrite.
		162.0-165.0 m 4 % pyrite disseminated in lapilli and matrix
		165.0-167.7 m 5 % pyrite concentrated in lapilli.
		167.7-169.0 m 8 % disseminated pyrite 1 % chalcopyrite and trace to 1 % sphalerite. Sulphides occur as lapilli-sized clasts and disseminated in the matrix.
		169.0-173.5 m 3-4% disseminated pyrite.
		173.5-174.0 m 15 % fracture controlled and disseminated pyrite.
		174.0-177.0 m 5 % pyrite disseminated and in bands/beds < 3 mm thick.
		177.0-178.0 m 8 % fracture controlled and disseminated pyrite.
		178.0-179.5 m 25 % pyrite and trace to nil chalcopyrite. Pyrite is heavily disseminated in the matrix and surrounds lapilli fragments forming a net texture.
		179.5-184.0 m 8-10 % pyrite as lapilli-sized clasts and disseminated in matrix.
		184.0-187.0 m 7 % pyrite as clasts < 5 mm wide, bands/beds < 3 mm thick and disseminated.
		187.0-193.0 m 5 % pyrite, disseminated and as lapilli-sized clasts.
		193.0-194.4 m 3 % pyrite, disseminated and in bands < 3 mm wide parallel to foliation.
180.5	184.0	Several beds of medium brown cherty sediment up to 0.1 m thick at 30-40 degrees to core axis. Beds contain 5 % disseminated pyrite and trace chalcopyrite and possibly sphalerite.
177.0	180.0	Lapilli are quite large (up to 2 cm wide and over 7 cm long) and angular. They stand out well in the sulphide-rich matrix.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03701	160.0	161.0	1.0	4	22	5	19	<1	<5	1500
VA03702	161.0	162.0	1.0	4	100	7	54	<1	<5	1000
VA03703	162.0	163.0	1.0	4	86	6	390	<1	5	1800
VA03704	163.0	164.0	1.0	4	69	<5	25	<1	5	1500
VA03705	164.0	165.0	1.0	4	67	5	15	<1	5	1400
VA03706	165.0	166.0	1.0	5	27	14	19	<1	6	1400
VA03707	166.0	167.0	1.0	5	15	14	29	<1	<5	1500
VA03708	167.0	167.7	.7	5	15	25	34	<1	<5	3000
VA03709	167.7	168.2	.5	8	4300	133	3700	5	247	4800
VA03710	168.2	169.0	.8	8	945	32	128	<1	55	4800
VA03711	169.0	170.0	1.0	4	300	7	39	<1	18	2400
VA03712	170.0	171.0	1.0	4	49	8	24	<1	5	2100
VA03713	171.0	172.0	1.0	4	66	7	22	<1	8	1900
VA03714	172.0	173.0	1.0	4	46	<5	22	<1	<5	1500
VA03715	173.0	173.5	.5	4	46	9	17	<1	<5	2800
VA03716	173.5	174.0	.5	15	25	43	25	<1	22	3500
VA03717	174.0	175.0	1.0	5	20	13	20	<1	6	2900
VA03718	175.0	176.0	1.0	5	48	36	20	<1	8	2800
VA03719	176.0	177.0	1.0	5	41	45	19	<1	10	3200
VA02832	177.0	194.4	17.4	n/a	146	n/a	629	n/a	n/a	3720
VA03720	177.0	178.0	1.0	8	148	61	615	<1	37	2400
VA03721	178.0	179.0	1.0	25	523	24	80	1	96	1500
VA03722	179.0	179.5	.5	25	466	22	45	<1	56	1500
VA03723	179.5	180.0	.5	9	116	15	8	<1	27	2000
VA03724	180.0	181.0	1.0	9	145	6	35	<1	27	1500
VA03725	181.0	182.0	1.0	9	60	10	25	<1	55	1300
VA03726	182.0	184.0	2.0	9	93	13	315	<1	103	1500
VA03728	184.0	185.0	1.0	7	160	240	1525	<1	188	1900
VA03729	185.0	186.0	1.0	7	117	290	1046	<1	135	2000
VA03730	186.0	187.0	1.0	7	165	55	384	1	150	3700
VA03731	187.0	188.0	1.0	5	67	26	46	<1	91	4400
VA03732	188.0	189.0	1.0	5	27	19	<1	<1	141	4600
VA03733	189.0	190.0	1.0	5	164	43	44	<1	95	2700
VA03734	190.0	191.0	1.0	5	119	34	22	<1	182	3200
VA03735	191.0	192.0	1.0	5	57	31	15	<1	433	4400
VA03736	192.0	193.0	1.0	5	75	32	9	<1	388	3400
VA03737	193.0	194.0	1.0	3	19	19	9	<1	7	2000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 | Page Number 9

From (m)	To (m)	----------DESCRIPTION----------
		At 185.1 m 5.0 cm fault gouge at 30 degrees to core axis.
		At 186.1 m 4.0 cm fault gouge at 35 degrees to core axis.
		At 190.1 m foliation is at 50 degrees to core axis.
		ALTERATION:.
		147.0 MODERATE PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION.
		169.5 175.0 WEAK FRACTURE CONTROLLED SILICIFICATION.
		SULPHIDES:.
		147.0-148.0 m 4 % pyrite, disseminated and in two large lapilli.
		148.0-151.0 m 1-2 % disseminated pyrite.
		151.0-151.5 M pyrite in clumps up to 5 mm in diameter.
		151.5-151.8 M bed of massive pyrite with trace chalcopyrite and sphalerite at 35 degrees to core axis.
		151.8-155.0 m 3 % disseminated pyrite.
		155.0-156.0 m 2 % disseminated pyrite.
		156.0-162.0 m 3-4 % disseminated pyrite.
		162.0-165.0 m 4 % pyrite disseminated in lapilli and matrix
		165.0-167.7 m 5 % pyrite concentrated in lapilli.
		167.7-169.0 m 8 % disseminated pyrite 1 % chalcopyrite and trace to 1 % sphalerite. Sulphides occur as lapilli-sized clasts and disseminated in the matrix.
		169.0-173.5 m 3-4% disseminated pyrite.
		173.5-174.0 m 15 % fracture controlled and disseminated pyrite.
		174.0-177.0 m 5 % pyrite disseminated and in bands/beds < 3 mm thick.
		177.0-178.0 m 8 % fracture controlled and disseminated pyrite.
		178.0-179.5 m 25 % pyrite and trace to nil chalcopyrite. Pyrite is heavily disseminated in the matrix and surrounds lapilli fragments forming a net texture.
		179.5-184.0 m 8-10 % pyrite as lapilli-sized clasts and disseminated in matrix.
		184.0-187.0 m 7 % pyrite as clasts < 5 mm wide, bands/beds < 3 mm thick and disseminated.
		187.0-193.0 m 5 % pyrite, disseminated and as lapilli-sized clasts.
		193.0-194.4 m 3 % pyrite, disseminated and in bands < 3 mm wide parallel to foliation.
180.5	184.0	Several beds of medium brown cherty sediment up to 0.1 m thick at 30-40 degrees to core axis. Beds contain 5 % disseminated pyrite and trace chalcopyrite and possibly sphalerite.
177.0	180.0	Lapilli are quite large (up to 2 cm wide and over 7 cm long) and angular. They stand out well in the sulphide-rich matrix.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03701	160.0	161.0	1.0	4	22	5	19	<1	<5	1500
VA03702	161.0	162.0	1.0	4	100	7	54	<1	<5	1000
VA03703	162.0	163.0	1.0	4	86	6	390	<1	5	1800
VA03704	163.0	164.0	1.0	4	69	<5	25	<1	5	1500
VA03705	164.0	165.0	1.0	4	67	5	15	<1	5	1400
VA03706	165.0	166.0	1.0	5	27	14	19	<1	6	1400
VA03707	166.0	167.0	1.0	5	15	14	29	<1	<5	1500
VA03708	167.0	167.7	.7	5	15	25	34	<1	<5	3000
VA03709	167.7	168.2	.5	8	4300	133	3700	5	247	4800
VA03710	168.2	169.0	.8	8	945	32	128	<1	55	4800
VA03711	169.0	170.0	1.0	4	300	7	39	<1	18	2400
VA03712	170.0	171.0	1.0	4	49	8	24	<1	5	2100
VA03713	171.0	172.0	1.0	4	66	7	22	<1	8	1900
VA03714	172.0	173.0	1.0	4	46	<5	22	<1	<5	1500
VA03715	173.0	173.5	.5	4	46	9	17	<1	<5	2800
VA03716	173.5	174.0	.5	15	25	43	25	<1	22	3500
VA03717	174.0	175.0	1.0	5	20	13	20	<1	6	2900
VA03718	175.0	176.0	1.0	5	48	36	20	<1	8	2800
VA03719	176.0	177.0	1.0	5	41	45	19	<1	10	3200
VA02832	177.0	194.4	17.4	n/a	146	n/a	629	n/a	n/a	3720
VA03720	177.0	178.0	1.0	8	148	61	615	<1	37	2400
VA03721	178.0	179.0	1.0	25	523	24	80	1	96	1500
VA03722	179.0	179.5	.5	25	466	22	45	<1	56	1500
VA03723	179.5	180.0	.5	9	116	15	8	<1	27	2000
VA03724	180.0	181.0	1.0	9	145	6	35	<1	27	1500
VA03725	181.0	182.0	1.0	9	60	10	25	<1	55	1300
VA03726	182.0	184.0	2.0	9	93	13	315	<1	103	1500
VA03728	184.0	185.0	1.0	7	160	240	1525	<1	188	1900
VA03729	185.0	186.0	1.0	7	117	290	1046	<1	135	2000
VA03730	186.0	187.0	1.0	7	165	55	384	1	150	3700
VA03731	187.0	188.0	1.0	5	67	26	46	<1	91	4400
VA03732	188.0	189.0	1.0	5	27	19	<1	<1	141	4600
VA03733	189.0	190.0	1.0	5	164	43	44	<1	95	2700
VA03734	190.0	191.0	1.0	5	119	34	22	<1	182	3200
VA03735	191.0	192.0	1.0	5	57	31	15	<1	433	4400
VA03736	192.0	193.0	1.0	5	75	32	9	<1	388	3400
VA03737	193.0	194.0	1.0	3	19	19	9	<1	7	2000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
194.4	200.5	FELSIC FELDSPAR CRYSTAL TUFF 10-15 %, 1-2 mm feldspar crystals, nil to 2 % light grey quartz eyes up to 3 mm in diameter and up to 5 % light grey to green fine-grained felsic lapilli in a very fine-grained to aphanitic massive siliceous matrix. Foliation is very poorly developed and if not for the presence of hazy lapilli it might be a flow. Lower contact is gradational over 5.0 cm. STRUCTURE:. At 195.5 m foliation is at 30 degrees to core axis. ALTERATION:. 194.4 198.5 WEAK PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION. 198.5 200.0 MODERATE FRACTURE CONTROLLED SILICIFICATION. 200.0 200.5 WEAK PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION. SULPHIDES:. 194.4-195.0 M nil sulphides. 195.0-197.0 m 1-2 % disseminated and fracture controlled pyrite. 197.0-200.5 M trace disseminated and fracture controlled pyrite.	VA02833	194.4	200.5	6.1	n/a	20	n/a	<10	n/a	n/a	1160
			VA03738	194.4	195.0	.6	0	6	8	7	<1	<5	1700
			VA03739	195.0	196.0	1.0	2	25	<5	17	<1	<5	1300
			VA03740	196.0	197.0	1.0	2	28	6	12	<1	7	1300
			VA03741	197.0	198.0	1.0	1	5	<5	10	<1	<5	1100
			VA03742	198.0	199.0	1.0	1	4	9	8	<1	<5	1200
			VA03743	199.0	199.7	.7	1	15	<5	12	<1	<5	1200
			VA03744	199.7	200.5	.8	1	12	8	7	<1	<5	1100
200.5	218.3	FELSIC LAPILLI TUFF 10-30 % medium grey, fine-grained rounded felsic lapilli up to 1.0 cm wide and over 5.0 cm long stretched parallel to foliation in a moderately sericitic light grey fine-grained felsic matrix. Locally up to 5 % < 3 mm light grey quartz eyes. Lower contact is at 50 degrees to core axis. STRUCTURE:. At 202.9 m foliation is at 45 degrees to core axis. At 211.5 m foliation is at 26 degrees to core axis. ALTERATION:. 200.5 218.3 MODERATE PERVASIVE SERICITIZATION. 217.7 217.9 Epidote sericite carbonate alteration patch probably associated with the gabbro intrusion below. Weak thermal biotite alteration for 0.2 m from lower contact. SULPHIDES:. 200.5-212.0 m 4 % pyrite concentrated in lapilli fragments. Occasional pyrite clast up to 0.5 cm wide and 2 cm long.	VA03745	200.5	201.0	.5	4	8	8	14	<1	<5	1300
			VA02834	200.5	218.3	17.8	n/a	43	n/a	<10	n/a	n/a	2590
			VA03746	201.0	202.0	1.0	4	22	19	10	<1	5	1700
			VA03747	202.0	203.0	1.0	4	34	24	7	<1	<5	1500
			VA03748	203.0	204.0	1.0	4	119	20	14	<1	7	1600
			VA03749	204.0	205.0	1.0	4	69	28	8	<1	9	1400
			VA03750	205.0	206.0	1.0	4	63	17	13	<1	5	1100
			VA03751	206.0	207.0	1.0	4	96	16	16	<1	7	1700
			VA03752	207.0	208.0	1.0	4	16	13	16	<1	<5	1400
			VA03753	208.0	209.0	1.0	4	29	17	19	<1	<5	1500
			VA03754	209.0	210.0	1.0	4	86	27	12	<1	10	1700
			VA03755	210.0	211.0	1.0	4	334	21	23	<1	11	1300
			VA03756	211.0	212.0	1.0	4	82	24	15	<1	<5	1600
			VA03757	212.0	213.0	1.0	5	120	24	11	<1	26	2000
			VA03758	213.0	214.0	1.0	5	97	27	15	<1	45	3500
			VA03759	214.0	215.0	1.0	5	40	30	8	<1	19	3000
			VA03760	215.0	216.0	1.0	5	54	31	12	<1	48	3100
			VA03761	216.0	217.0	1.0	5	121	34	158	<1	42	2800
			VA03762	217.0	218.3	1.3	5	144	37	79	<1	21	1900

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		212.0-218.3 m 5 % pyrite disseminated and in lapilli fragments as above.											
		204.8 205.2 Several fine ash beds up to 6.0 cm thick at 25 to 40 degrees to core axis.											
218.3	223.4	FELDSPAR PORPHYRITIC GABBRO Massive, medium green, fine-grained with 5 % 1-3 mm feldspar phenocrysts. 5.0 cm assimilation zone at the upper contact. Lower contact is at 40 degrees to core axis	VA03764	218.3	218.9	.6	6	549	9	62	<1	16	20
		218.3 218.9 Quartz-carbonate epidote flooded zone with 3 % pyrrhotite, 2 % pyrite and 1 % chalcopyrite.											
		222.5 223.0 5 % fracture controlled pyrite.											
223.4	234.8	FELSIC LAPILLI TUFF Ash tuff above 224.5 m. Below this depth it is a lapilli tuff with 5-40 % quartz grains and 5-10% grey felsic fragments up to 1.0 cm long (most < 0.5 cm) in a fine-grained grey felsic matrix. Felsic fragments predominate above 225.8 m and below 227.7 m. Between 225.8 and 227.7 m (where the economic sulphides occur) quartz fragments predominate. Lower contact is at 52 degrees to core axis.	VA02835	223.4	234.8	11.4	n/a	935	n/a	200	n/a	n/a	4660
			VA03763	223.4	224.2	.8	1	154	57	38	<1	9	2500
			VA03765	224.2	225.0	.8	5	1542	41	2097	<1	51	2300
			VA03766	225.0	225.4	.4	10	7300	809	13300	20	582	5500
			VA03767	225.7	226.2	.5	12	3600	81	32000	20	1337	12000
			VA03768	226.2	226.7	.5	12	5500	74	28600	26	3154	20000
			VA03769	226.7	227.2	.5	13	4200	278	55600	27	1954	25000
			VA03770	227.2	227.7	.5	15	4300	1764	41600	45	1782	25000
			VA03771	227.7	228.7	1.0	5	200	122	606	<1	52	5800
			VA03772	228.7	229.7	1.0	5	154	99	293	<1	47	4900
			VA03773	229.7	230.7	1.0	5	80	59	258	<1	23	4200
			VA03774	230.7	231.2	.5	10	195	59	184	<1	24	6100
			VA03775	231.2	231.7	.5	5	31	67	39	<1	13	5700
			VA03776	231.7	232.7	1.0	5	98	49	37	<1	16	4200
			VA03777	232.7	233.7	1.0	5	43	<5	45	<1	16	2400
			VA03778	233.7	234.8	1.1	5	81	11	41	<1	18	3200
		STRUCTURE:. At 224.4 m foliation is at 50 degrees to core axis. At 231.1 m bedding is at 50 degrees to core axis.											
		ALTERATION:. 223.4 225.4 MODERATE PERVASIVE SERICITIZATION. 225.7 227.7 MODERATE PERVASIVE BIOTIZATION. 227.7 234.8 WEAK PERVASIVE SILICIFICATION and WEAK PERVASIVE SERICITIZATION.											
		SULPHIDES:. N.B. The SPHALERITE noted below is red-brown and is finely disseminated along foliation planes and some of it may be BIOTITE. 223.4-224.2 M trace disseminated pyrite. 224.2-225.0 m 5 % disseminated pyrite and 1 % chalcopyrite and sphalerite. 225.0-225.4 m 3 % chalcopyrite, 5 % sphalerite and 2 % pyrite. Sulphides are disseminated. 225.7-226.2 m 8 % finely disseminated sphalerite, 4 % pyrite and 1 % chalcopyrite. 226.2-226.7 m 6 % sphalerite, 5 % pyrite and 3 % chalcopyrite.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		226.7-227.2 m 8 % sphalerite, 5 % pyrite and 1.5 % chalcopyrite. 227.2-227.7 m 8 % sphalerite, 3 % pyrite and 1 % chalcopyrite. 227.7-230.7 m 4-5 % pyrite as spots up to 3 mm in diameter. 230.7-231.2 m 10 % pyrite in semi-massive bands (beds?) up to 1.0 cm thick at 50 degrees to core axis. 231.2-234.8 m 4-5 % pyrite disseminated and as clasts up to 1.0 cm in diameter. 225.4-225.7 M fine-grained MAFIC DYKE. Upper contact is at 25 degrees to core axis and lower contact is at 40 degrees to core axis.											
234.8	280.7	FELDSPAR PORPHYRITIC GABBRO Massive, medium green, fine to medium-grained and locally feldspar porphyritic (< 5 %, 1-3 mm feldspar phenocrysts). 1-3 % disseminated ilmenite and trace chalcopyrite. Ilmenite is surrounded by a white alteration mineral (leucoxene ?). Core is blocky throughout the interval. Becomes fine-grained and epidote+calcite patches up to 5.0 cm wide are common below 259.0 m. Below 259.0 m it is difficult to tell if the rock is intrusive or extrusive. It is logged as gabbro because occasionaly trace ammounts of ilmenite can be seen. Check the WRA samples for TiO2. Lower contact is at 35 degrees to core axis. STRUCTURE:. 238.6-239.0 m; 1.0 cm fault gouge runs parallel to the core axis. 237.3 237.8 Xenolith of FELSIC TUFF. Light grey moderately sericitic ash (?) tuff with 4 % disseminated pyrite. Lower contact is at 60 degrees to core axis. 264.0 280.7 5 % dark grey-green patches up to 2.5 cm wide with relatively sharp but jagged margins. They are probably abrasions caused by the drill bit.	VA03779	237.3	237.8	.5	5	665	103	1449	<1	313	5500
280.7	286.3	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Pale to medium green fine-grained mafic ash tuffs intercalated with coarser, quartz eye, bearing intermediate tuffs and light brown cherty tuffaceous sediments. 1-3 % fracture controlled pyrite. Lower contact is difficult to pinpoint. STRUCTURE:.											

* Anim fault ?

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50 Page Number 13

From (m)	To (m)	----------DESCRIPTION----------
		At 283.5 m bedding is at 40 degrees to core axis.
286.3	300.5	MAFIC FLOW Massive fine-grained medium green locally weakly feldspars and or mafic porphyritic, feldspar are epidotized. May be gabbro but no ilmenite observered. ALTERATION:. 286.3 300.5 WEAK SPOTTY EPIDOTIZATION and locally WEAK FRACTURE CONTROLLED CARBONATIZATION. 287.6 288.0 Quartz-carbonate flooded zone at 40 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02352	12.70	13.00	50.40	16.70	5.63	5.22	2.67	1.79	8.88	0.64	0.14	0.25	7.16	99.48	592.	46.	8.
VA02353	34.00	34.40	69.80	14.20	1.56	1.59	2.56	4.78	1.95	0.24	0.08	0.04	1.85	98.65	2500.	61.	4.
VA02354	97.00	97.30	72.10	14.00	1.25	0.98	1.63	3.42	2.10	0.29	0.08	0.03	2.23	98.11	1830.	60.	3.
VA02355	107.10	170.20	71.70	15.20	0.63	1.43	1.07	3.77	1.91	0.34	0.07	0.02	2.47	98.61	2110.	75.	2.
VA02356	116.30	116.60	68.90	17.10	0.36	2.09	0.63	3.75	2.29	0.38	0.10	0.03	3.70	99.33	1780.	86.	1.
VA02357	127.20	127.40	69.60	14.00	2.17	2.03	1.63	2.88	2.86	0.28	0.07	0.03	2.62	98.17	1050.	56.	4.
VA02358	139.00	139.20	74.80	14.50	1.58	0.74	3.72	2.12	0.44	0.30	0.07	0.01	1.54	99.82	1380.	35.	5.
VA02359	147.00	147.30	70.50	15.40	2.55	1.63	5.68	1.12	0.87	0.32	0.07	0.02	2.00	100.16	630.	25.	8.
VA02360	160.10	160.30	71.90	14.90	2.25	1.44	2.63	2.04	1.47	0.36	0.10	0.02	2.08	99.19	1440.	42.	5.
VA02361	176.40	176.60	72.40	13.60	1.59	0.94	1.25	2.94	2.56	0.29	0.07	0.02	2.77	98.43	3160.	58.	3.
VA02362	185.30	185.50	71.70	13.80	0.29	0.56	0.49	3.60	4.42	0.35	0.06	<0.01	3.93	99.20	1850.	84.	1.
VA02363	197.20	197.50	71.60	15.80	5.27	1.24	2.38	0.75	1.07	0.33	0.09	0.01	1.77	100.31	966.	21.	8.
VA02364	211.10	211.50	73.60	14.90	2.29	0.77	2.06	2.17	1.29	0.31	0.07	0.02	2.00	99.48	1920.	40.	4.
VA02365	229.90	230.10	59.90	21.00	2.61	1.43	2.09	4.38	2.76	0.37	0.12	0.03	3.70	98.39	6930.	55.	5.
VA02366	254.00	254.50	48.80	13.40	11.00	7.18	2.60	0.30	11.80	1.37	0.14	0.19	1.77	98.55	285.	35.	14.
VA02367	260.70	261.00	49.10	15.60	8.24	6.67	4.39	0.31	10.30	0.85	0.17	0.17	2.93	98.73	255.	36.	13.
VA02368	270.10	270.40	45.20	17.70	12.30	5.19	2.46	0.27	13.10	0.92	0.11	0.13	2.16	99.54	185.	27.	15.
VA02369	279.00	279.20	49.10	13.90	11.40	8.09	2.75	0.31	9.84	0.55	0.13	0.16	2.39	98.62	135.	37.	14.
VA02370	282.00	282.20	52.80	17.50	5.45	4.58	1.76	2.25	9.55	1.02	0.36	0.11	3.31	98.69	1430.	49.	7.
VA02371	291.10	291.40	48.10	12.30	13.40	9.34	2.05	0.19	9.63	0.51	0.12	0.17	3.08	98.89	106.	38.	15.

Hole No. CH88-50 WHOLE ROCK SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02824	12.70	29.30	57.10	15.00	6.01	3.75	2.42	1.53	7.21	0.53			5.00	98.55	661.	39.	8.
VA02825	31.60	39.10	70.40	13.90	1.85	1.12	2.74	4.91	1.65	0.23			1.77	98.57	2080.	57.	5.
VA02826	43.90	50.00	69.10	13.30	2.93	1.43	3.69	2.40	2.64	0.25			2.70	98.44	1980.	37.	7.
VA02827	95.40	104.00	68.80	15.70	1.55	0.89	1.77	3.64	2.22	0.36			3.00	97.93	1410.	58.	3.
VA02828	104.00	129.00	72.20	15.80	0.86	1.44	1.29	3.44	1.62	0.37			2.77	99.79	1610.	69.	2.
VA02829	129.00	139.70	71.40	14.20	2.25	1.01	3.62	2.15	1.58	0.30			1.93	98.44	1430.	35.	6.
VA02830	139.70	147.00	68.60	16.00	1.62	1.62	3.18	2.85	1.65	0.33			2.23	98.08	1420.	48.	5.
VA02831	147.00	177.00	69.50	14.30	1.60	1.12	1.16	3.16	3.48	0.32			3.62	98.26	2460.	61.	3.
VA02832	177.00	194.40	64.30	16.90	0.54	0.72	0.66	4.30	5.34	0.42			5.08	98.26	3720.	81.	1.
VA02833	194.40	200.50	72.10	15.10	3.61	1.63	2.15	1.12	1.30	0.31			2.23	99.55	1160.	32.	6.
VA02834	200.50	218.30	67.40	17.00	2.32	0.95	1.96	2.68	3.16	0.37			3.00	98.84	2590.	46.	4.
VA02835	223.40	234.80	61.30	20.10	2.53	1.32	2.15	4.17	2.53	0.37			3.31	97.78	4660.	54.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03650	14.10	15.10	480.0	72.0	204.0	<0.5	<5.0	19.0	53.0	16.0	9.0	2.0	8.0	1634.0	26.	2.	4.
VA03651	15.10	16.10	970.0	12.0	47.0	<0.5	<5.0	7.0	11.0	45.0	<5.0	<1.0	1.0	743.0	20.	2.	2.
VA03652	16.10	17.10	1100.0	17.0	32.0	<0.5	<5.0	7.0	6.0	47.0	<5.0	<1.0	1.0	631.0	35.	2.	2.
VA03653	17.10	18.10	1000.0	30.0	45.0	<0.5	<5.0	8.0	19.0	41.0	<5.0	<1.0	2.0	622.0	40.	1.	2.
VA03654	31.60	32.60	2700.0	124.0	28.0	<0.5	<5.0	7.0	9.0	44.0	<5.0	<1.0	2.0	392.0	82.	2.	2.
VA03655	32.60	33.60	2000.0	49.0	37.0	<0.5	<5.0	9.0	13.0	43.0	<5.0	<1.0	3.0	380.0	57.	2.	2.
VA03656	33.60	34.60	2300.0	11.0	21.0	<0.5	<5.0	4.0	3.0	48.0	<5.0	<1.0	<1.0	228.0	34.	2.	1.
VA03657	34.60	35.60	2700.0	14.0	27.0	<0.5	<5.0	4.0	5.0	51.0	<5.0	<1.0	<1.0	211.0	34.	2.	1.
VA03658	35.60	36.60	2600.0	35.0	19.0	<0.5	<5.0	3.0	4.0	28.0	<5.0	<1.0	1.0	238.0	65.	2.	1.
VA03659	36.60	37.60	1900.0	27.0	27.0	<0.5	<5.0	3.0	5.0	28.0	<5.0	<1.0	1.0	229.0	50.	2.	1.
VA03660	37.60	38.60	2000.0	48.0	30.0	<0.5	5.0	5.0	8.0	24.0	<5.0	<1.0	1.0	230.0	62.	2.	1.
VA03661	38.60	39.10	290.0	32.0	59.0	<0.5	<5.0	24.0	84.0	9.0	16.0	<1.0	7.0	755.0	35.	2.	3.
VA03662	46.90	48.00	1100.0	31.0	39.0	<0.5	23.0	3.0	5.0	27.0	<5.0	<1.0	1.0	288.0	44.	2.	1.
VA03663	48.00	49.00	460.0	28.0	18.0	<0.5	<5.0	3.0	20.0	28.0	<5.0	<1.0	1.0	275.0	61.	1.	1.
VA03664	49.00	50.00	1400.0	43.0	34.0	<0.5	<5.0	9.0	21.0	17.0	<5.0	<1.0	3.0	349.0	56.	1.	2.
VA03665	55.00	56.00	790.0	68.0	100.0	<0.5	6.0	26.0	67.0	<5.0	29.0	1.0	8.0	537.0	40.	2.	5.
VA03666	95.40	96.40	1700.0	43.0	27.0	<0.5	<5.0	6.0	9.0	28.0	<5.0	<1.0	1.0	208.0	61.	5.	1.
VA03667	96.40	97.40	1300.0	39.0	39.0	<0.5	<5.0	6.0	11.0	35.0	<5.0	<1.0	1.0	398.0	50.	4.	1.
VA03668	97.40	98.00	1300.0	43.0	29.0	<0.5	<5.0	5.0	12.0	24.0	<5.0	<1.0	3.0	359.0	60.	4.	2.
VA03669	98.00	99.00	1500.0	55.0	9.0	<0.5	6.0	5.0	6.0	26.0	<5.0	<1.0	1.0	195.0	86.	5.	1.
VA03670	99.00	100.00	1400.0	28.0	14.0	<0.5	<5.0	4.0	5.0	25.0	<5.0	<1.0	1.0	144.0	67.	5.	1.
VA03671	100.00	101.30	1600.0	47.0	37.0	<0.5	<5.0	5.0	6.0	23.0	<5.0	<1.0	1.0	149.0	56.	5.	1.
VA03672	101.30	102.30	1800.0	42.0	54.0	<0.5	32.0	3.0	6.0	22.0	<5.0	<1.0	<1.0	110.0	44.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03673	102.30	103.30	1600.0	28.0	6.0	<0.5	<5.0	3.0	4.0	25.0	<5.0	<1.0	<1.0	59.0	82.	2.	0.
VA03674	103.30	104.00	2100.0	65.0	9.0	<0.5	<5.0	16.0	9.0	23.0	<5.0	<1.0	<1.0	97.0	88.	7.	2.
VA03675	104.00	105.00	2000.0	22.0	6.0	<0.5	<5.0	4.0	7.0	24.0	<5.0	<1.0	<1.0	74.0	79.	2.	1.
VA03676	105.00	106.00	1600.0	9.0	7.0	<0.5	<5.0	3.0	5.0	22.0	<5.0	<1.0	1.0	92.0	56.	2.	1.
VA03677	106.00	107.00	1500.0	15.0	5.0	<0.5	<5.0	3.0	5.0	23.0	<5.0	<1.0	1.0	83.0	75.	2.	1.
VA03678	107.00	108.00	1900.0	43.0	6.0	<0.5	<5.0	6.0	6.0	22.0	<5.0	<1.0	1.0	78.0	88.	2.	1.
VA03679	108.00	109.00	1700.0	26.0	12.0	<0.5	<5.0	4.0	3.0	24.0	<5.0	<1.0	<1.0	60.0	68.	2.	1.
VA03680	109.00	110.00	1400.0	3.0	15.0	<0.5	<5.0	2.0	5.0	29.0	<5.0	<1.0	<1.0	31.0	17.	2.	0.
VA03681	110.00	111.00	1300.0	49.0	28.0	<0.5	8.0	5.0	3.0	38.0	<5.0	<1.0	1.0	67.0	64.	2.	1.
VA03682	111.00	112.00	1400.0	22.0	16.0	<0.5	12.0	3.0	4.0	30.0	<5.0	<1.0	<1.0	43.0	58.	2.	1.
VA03683	126.00	127.00	1100.0	18.0	45.0	<0.5	<5.0	6.0	8.0	21.0	<5.0	<1.0	2.0	169.0	29.	4.	2.
VA03684	127.00	128.00	940.0	18.0	44.0	<0.5	<5.0	5.0	9.0	20.0	<5.0	<1.0	1.0	183.0	29.	4.	1.
VA03685	133.00	134.00	1400.0	2.0	12.0	<0.5	<5.0	4.0	4.0	26.0	<5.0	<1.0	1.0	113.0	14.	3.	1.
VA03686	134.00	135.20	1500.0	2.0	23.0	<0.5	<5.0	6.0	11.0	21.0	<5.0	<1.0	1.0	123.0	8.	3.	2.
VA03687	147.00	148.00	1500.0	43.0	18.0	<0.5	<5.0	10.0	15.0	21.0	<5.0	<1.0	1.0	147.0	70.	4.	2.
VA03688	148.00	149.00	1500.0	15.0	11.0	<0.5	<5.0	7.0	6.0	23.0	<5.0	<1.0	1.0	116.0	58.	2.	1.
VA03689	149.00	150.00	1300.0	17.0	14.0	<0.5	<5.0	3.0	4.0	23.0	<5.0	<1.0	<1.0	151.0	55.	2.	1.
VA03690	150.00	151.00	1900.0	233.0	16.0	<0.5	10.0	7.0	9.0	23.0	<5.0	<1.0	1.0	150.0	94.	2.	2.
VA03691	151.00	151.30	1300.0	75.0	27.0	<0.5	<5.0	14.0	14.0	19.0	<5.0	<1.0	1.0	168.0	74.	4.	2.
VA03692	151.30	151.80	470.0	4300.0	169.0	5.5	192.0	84.0	93.0	32.0	127.0	7.0	6.0	210.0	96.	5.	+10.
VA03693	151.80	153.00	1400.0	49.0	15.0	<0.5	<5.0	8.0	8.0	24.0	<5.0	<1.0	1.0	153.0	77.	3.	2.
VA03694	153.00	154.00	1700.0	187.0	30.0	<0.5	12.0	15.0	16.0	20.0	<5.0	<1.0	1.0	111.0	86.	3.	3.
VA03695	154.00	155.00	1200.0	107.0	24.0	<0.5	9.0	9.0	9.0	6.0	<5.0	<1.0	2.0	70.0	82.	3.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03696	155.00	156.00	1100.0	20.0	19.0	<0.5	<5.0	4.0	5.0	8.0	<5.0	<1.0	1.0	77.0	51.	2.	1.
VA03697	156.00	157.00	1800.0	27.0	19.0	<0.5	5.0	9.0	9.0	8.0	<5.0	<1.0	3.0	99.0	59.	4.	3.
VA03698	157.00	158.00	1700.0	17.0	11.0	<0.5	5.0	5.0	2.0	10.0	<5.0	<1.0	1.0	67.0	61.	4.	2.
VA03699	158.00	159.00	1500.0	18.0	14.0	<0.5	<5.0	5.0	3.0	8.0	<5.0	<1.0	1.0	75.0	56.	4.	1.
VA03700	159.00	160.00	1400.0	21.0	15.0	<0.5	<5.0	5.0	4.0	5.0	<5.0	<1.0	1.0	105.0	58.	4.	1.
VA03701	160.00	161.00	1500.0	22.0	19.0	<0.5	<5.0	4.0	3.0	5.0	<5.0	<1.0	2.0	96.0	54.	4.	1.
VA03702	161.00	162.00	1000.0	100.0	54.0	<0.5	<5.0	4.0	4.0	7.0	<5.0	<1.0	1.0	118.0	65.	4.	1.
VA03703	162.00	163.00	1800.0	86.0	390.0	<0.5	5.0	6.0	4.0	6.0	<5.0	6.0	2.0	81.0	18.	4.	2.
VA03704	163.00	164.00	1500.0	69.0	25.0	<0.5	5.0	9.0	10.0	<5.0	<5.0	<1.0	5.0	93.0	73.	4.	3.
VA03705	164.00	165.00	1400.0	67.0	15.0	<0.5	5.0	4.0	3.0	5.0	<5.0	<1.0	3.0	74.0	82.	4.	1.
VA03706	165.00	166.00	1400.0	27.0	19.0	<0.5	6.0	6.0	4.0	14.0	<5.0	<1.0	3.0	109.0	59.	5.	2.
VA03707	166.00	167.00	1500.0	15.0	29.0	<0.5	<5.0	6.0	9.0	14.0	<5.0	<1.0	3.0	135.0	34.	5.	2.
VA03708	167.00	167.70	3000.0	15.0	34.0	<0.5	<5.0	5.0	1.0	25.0	<5.0	<1.0	2.0	123.0	31.	5.	2.
VA03709	167.70	168.20	4800.0	4300.0	3700.0	5.2	247.0	12.0	14.0	133.0	7.0	13.0	4.0	111.0	54.	8.	4.
VA03710	168.20	169.00	4800.0	945.0	128.0	<0.5	55.0	9.0	13.0	32.0	<5.0	1.0	4.0	80.0	88.	8.	4.
VA03711	169.00	170.00	2400.0	300.0	39.0	<0.5	18.0	4.0	3.0	7.0	<5.0	<1.0	3.0	68.0	89.	4.	1.
VA03712	170.00	171.00	2100.0	49.0	24.0	<0.5	5.0	4.0	2.0	8.0	<5.0	<1.0	2.0	54.0	67.	4.	1.
VA03713	171.00	172.00	1900.0	66.0	22.0	<0.5	8.0	5.0	1.0	7.0	<5.0	<1.0	2.0	54.0	75.	4.	2.
VA03714	172.00	173.00	1500.0	46.0	22.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	3.0	98.0	68.	4.	1.
VA03715	173.00	173.50	2800.0	46.0	17.0	<0.5	<5.0	5.0	7.0	9.0	<5.0	<1.0	3.0	79.0	73.	4.	1.
VA03716	173.50	174.00	3500.0	25.0	25.0	<0.5	22.0	6.0	10.0	43.0	11.0	<1.0	2.0	87.0	50.	15.	4.
VA03717	174.00	175.00	2900.0	20.0	20.0	<0.5	6.0	6.0	3.0	13.0	<5.0	<1.0	2.0	91.0	50.	5.	2.
VA03718	175.00	176.00	2800.0	48.0	20.0	<0.5	8.0	6.0	4.0	36.0	<5.0	<1.0	2.0	91.0	71.	5.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03719	176.00	177.00	3200.0	41.0	19.0	<0.5	10.0	7.0	4.0	45.0	<5.0	<1.0	1.0	82.0	68.	5.	2.
VA03720	177.00	178.00	2400.0	148.0	615.0	<0.5	37.0	6.0	5.0	61.0	<5.0	3.0	1.0	73.0	19.	8.	3.
VA03721	178.00	179.00	1500.0	523.0	80.0	0.5	96.0	20.0	31.0	24.0	56.0	2.0	3.0	31.0	87.	25.	+10.
VA03722	179.00	179.50	1500.0	466.0	45.0	<0.5	56.0	12.0	20.0	22.0	41.0	2.0	3.0	17.0	91.	25.	+10.
VA03723	179.50	180.00	2000.0	116.0	8.0	<0.5	27.0	4.0	2.0	15.0	<5.0	<1.0	<1.0	16.0	94.	9.	2.
VA03724	180.00	181.00	1500.0	145.0	35.0	<0.5	27.0	15.0	12.0	6.0	10.0	<1.0	6.0	332.0	81.	9.	4.
VA03725	181.00	182.00	1300.0	60.0	25.0	<0.5	55.0	18.0	14.0	10.0	9.0	<1.0	3.0	233.0	71.	9.	4.
VA03726	182.00	184.00	1500.0	93.0	315.0	<0.5	103.0	10.0	12.0	13.0	12.0	2.0	3.0	141.0	23.	9.	4.
VA03728	184.00	185.00	1900.0	160.0	1525.0	<0.5	188.0	6.0	7.0	240.0	11.0	6.0	1.0	37.0	10.	7.	3.
VA03729	185.00	186.00	2000.0	117.0	1046.0	<0.5	135.0	6.0	5.0	290.0	6.0	4.0	1.0	48.0	10.	7.	3.
VA03730	186.00	187.00	3700.0	165.0	384.0	0.5	150.0	8.0	19.0	55.0	27.0	3.0	5.0	58.0	30.	7.	7.
VA03731	187.00	188.00	4400.0	67.0	46.0	<0.5	91.0	5.0	5.0	26.0	5.0	<1.0	2.0	47.0	59.	5.	3.
VA03732	188.00	189.00	4600.0	27.0	0.5	<0.5	141.0	6.0	2.0	19.0	<5.0	<1.0	1.0	57.0	98.	5.	2.
VA03733	189.00	190.00	2700.0	164.0	44.0	<0.5	95.0	11.0	12.0	43.0	16.0	1.0	2.0	71.0	79.	5.	5.
VA03734	190.00	191.00	3200.0	119.0	22.0	<0.5	182.0	13.0	9.0	34.0	13.0	<1.0	2.0	62.0	84.	5.	4.
VA03735	191.00	192.00	4400.0	57.0	15.0	<0.5	433.0	13.0	15.0	31.0	9.0	<1.0	5.0	36.0	79.	5.	4.
VA03736	192.00	193.00	3400.0	75.0	9.0	<0.5	388.0	9.0	9.0	32.0	6.0	<1.0	1.0	18.0	89.	5.	3.
VA03737	193.00	194.00	2000.0	19.0	9.0	<0.5	7.0	3.0	3.0	19.0	<5.0	<1.0	4.0	52.0	68.	3.	1.
VA03738	194.40	195.00	1700.0	6.0	7.0	<0.5	<5.0	2.0	2.0	8.0	<5.0	<1.0	5.0	53.0	46.	0.	1.
VA03739	195.00	196.00	1300.0	25.0	17.0	<0.5	<5.0	7.0	5.0	<5.0	<5.0	<1.0	7.0	80.0	60.	2.	2.
VA03740	196.00	197.00	1300.0	28.0	12.0	<0.5	7.0	5.0	4.0	6.0	<5.0	<1.0	8.0	77.0	70.	2.	1.
VA03741	197.00	198.00	1100.0	5.0	10.0	<0.5	<5.0	2.0	3.0	<5.0	<5.0	<1.0	7.0	74.0	33.	1.	1.
VA03742	198.00	199.00	1200.0	4.0	8.0	<0.5	<5.0	2.0	3.0	9.0	<5.0	<1.0	5.0	61.0	33.	1.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03743	199.00	199.70	1200.0	15.0	12.0	<0.5	<5.0	3.0	3.0	<5.0	<5.0	<1.0	6.0	73.0	56.	1.	1.
VA03744	199.70	200.50	1100.0	12.0	7.0	<0.5	<5.0	2.0	1.0	8.0	<5.0	<1.0	6.0	62.0	63.	1.	1.
VA03745	200.50	201.00	1300.0	8.0	14.0	<0.5	<5.0	3.0	4.0	8.0	<5.0	<1.0	7.0	78.0	36.	4.	1.
VA03746	201.00	202.00	1700.0	22.0	10.0	<0.5	5.0	7.0	5.0	19.0	<5.0	<1.0	4.0	69.0	69.	4.	2.
VA03747	202.00	203.00	1500.0	34.0	7.0	<0.5	<5.0	9.0	7.0	24.0	<5.0	<1.0	2.0	41.0	83.	4.	2.
VA03748	203.00	204.00	1600.0	119.0	14.0	<0.5	7.0	8.0	5.0	20.0	<5.0	<1.0	4.0	65.0	89.	4.	1.
VA03749	204.00	205.00	1400.0	69.0	8.0	<0.5	9.0	5.0	6.0	28.0	<5.0	<1.0	1.0	36.0	90.	4.	1.
VA03750	205.00	206.00	1100.0	63.0	13.0	<0.5	5.0	8.0	6.0	17.0	<5.0	<1.0	6.0	80.0	83.	4.	2.
VA03751	206.00	207.00	1700.0	96.0	16.0	<0.5	7.0	13.0	5.0	16.0	<5.0	<1.0	9.0	91.0	86.	4.	2.
VA03752	207.00	208.00	1400.0	16.0	16.0	<0.5	<5.0	4.0	2.0	13.0	<5.0	<1.0	8.0	118.0	50.	4.	1.
VA03753	208.00	209.00	1500.0	29.0	19.0	<0.5	<5.0	6.0	6.0	17.0	<5.0	<1.0	6.0	116.0	60.	4.	2.
VA03754	209.00	210.00	1700.0	86.0	12.0	<0.5	10.0	6.0	7.0	27.0	<5.0	<1.0	1.0	61.0	88.	4.	2.
VA03755	210.00	211.00	1300.0	334.0	23.0	<0.5	11.0	8.0	4.0	21.0	<5.0	<1.0	4.0	146.0	94.	4.	2.
VA03756	211.00	212.00	1600.0	82.0	15.0	<0.5	<5.0	5.0	3.0	24.0	<5.0	<1.0	3.0	116.0	85.	4.	1.
VA03757	212.00	213.00	2000.0	120.0	11.0	<0.5	26.0	10.0	6.0	24.0	<5.0	<1.0	6.0	84.0	92.	5.	2.
VA03758	213.00	214.00	3500.0	97.0	15.0	<0.5	45.0	7.0	5.0	27.0	<5.0	<1.0	6.0	72.0	87.	5.	2.
VA03759	214.00	215.00	3000.0	40.0	8.0	<0.5	19.0	6.0	4.0	30.0	<5.0	<1.0	3.0	36.0	83.	5.	2.
VA03760	215.00	216.00	3100.0	54.0	12.0	<0.5	48.0	5.0	3.0	31.0	<5.0	<1.0	6.0	41.0	82.	5.	2.
VA03761	216.00	217.00	2800.0	121.0	158.0	<0.5	42.0	5.0	4.0	34.0	<5.0	<1.0	1.0	61.0	43.	5.	2.
VA03762	217.00	218.30	1900.0	144.0	79.0	<0.5	21.0	14.0	17.0	37.0	<5.0	1.0	2.0	390.0	65.	5.	3.
VA03764	218.30	218.90	20.0	549.0	62.0	<0.5	16.0	47.0	82.0	9.0	13.0	2.0	7.0	495.0	90.	6.	4.
VA03763	223.40	224.20	2500.0	154.0	38.0	<0.5	9.0	4.0	3.0	57.0	<5.0	<1.0	<1.0	65.0	80.	1.	1.
VA03765	224.20	225.00	2300.0	1542.0	2097.0	<0.5	51.0	8.0	5.0	41.0	5.0	10.0	1.0	42.0	42.	5.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03766	225.00	225.40	5500.0	7300.0	13300.0	19.7	582.0	15.0	44.0	809.0	17.0	46.0	7.0	143.0	35.	10.	3.
VA03767	225.70	226.20	12000.0	3600.0	32000.0	19.7	1337.1	7.0	23.0	81.0	7.0	107.0	7.0	102.0	10.	12.	3.
VA03768	226.20	226.70	20000.0	5500.0	28600.0	26.0	3154.2	10.0	12.0	74.0	8.0	98.0	5.0	45.0	16.	12.	3.
VA03769	226.70	227.20	25000.0	4200.0	55600.0	26.7	1954.2	8.0	16.0	278.0	8.0	175.0	4.0	81.0	7.	13.	3.
VA03770	227.20	227.70	25000.0	4300.0	41600.0	45.3	1782.8	7.0	13.0	1764.0	19.0	119.0	5.0	76.0	9.	15.	3.
VA03771	227.70	228.70	5800.0	200.0	606.0	<0.5	52.0	7.0	12.0	122.0	<5.0	3.0	5.0	83.0	25.	5.	2.
VA03772	228.70	229.70	4900.0	154.0	293.0	<0.5	47.0	13.0	8.0	99.0	<5.0	2.0	9.0	195.0	34.	5.	2.
VA03773	229.70	230.70	4200.0	80.0	258.0	<0.5	23.0	4.0	3.0	59.0	<5.0	1.0	7.0	77.0	24.	5.	1.
VA03774	230.70	231.20	6100.0	195.0	184.0	<0.5	24.0	5.0	4.0	59.0	<5.0	1.0	5.0	103.0	51.	10.	2.
VA03775	231.20	231.70	5700.0	31.0	39.0	<0.5	13.0	5.0	6.0	67.0	<5.0	<1.0	14.0	154.0	44.	5.	1.
VA03776	231.70	232.70	4200.0	98.0	37.0	<0.5	16.0	6.0	12.0	49.0	<5.0	<1.0	9.0	132.0	73.	5.	1.
VA03777	232.70	233.70	2400.0	43.0	45.0	<0.5	16.0	7.0	14.0	<5.0	6.0	<1.0	6.0	180.0	49.	5.	1.
VA03778	233.70	234.80	3200.0	81.0	41.0	<0.5	18.0	6.0	16.0	11.0	<5.0	<1.0	4.0	117.0	66.	5.	1.
VA03779	237.30	237.80	5500.0	665.0	1449.0	<0.5	313.0	11.0	12.0	103.0	<5.0	7.0	3.0	112.0	31.	5.	2.

Summary Log: DDH CH88-51
Location: 26+92 E, 3+10 S; Chip 1 Claim
Azimuth: 210, Dip: -45
Hole Completed: May 6, 1988
Core Logged By: D.P. Money

0.0	4.0	Casing.
4 0	25.4	Gabbro.
25 4	44.4	Black argillite with 4 % fracture controlled pyrite.
44.4	50.6	Tuffaceous conglomerate with argillite clasts in a felsic tuffaceous matrix.
50.6	101.7	Felsic crystal tuffs with minor 1 to 2 m argillite beds.
101.7	104.4	Volcanic wacke with argillite clasts.
104.4	117.1	Felsic ash tuff.
117.1	118.7	Black argillite with intercalated cherts.
118.7	131.4	Felsic ash tuff with minor chert beds.
131.4	132.5	Black argillites and cherts with 2 % fracture controlled pyrite.
132.5	136.2	Tuffaceous conglomerate.
136.2	147.6	Mafic lapilli tuff with strong carbonatization, 2 % fracture controlled pyrite and trace pyrrhotite.
147.6	159.7	Mafic tuffs and intercalated cherty sediments.
159.7		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-51 | Page Number 1

Hole Location: 26+92 E 3+10 S

NTS: 092/B13 UTM: 5416817.7 N 429904.4 E
Azimuth: 210 Elevation: 510 m
Dip: -45 Length: 159.7 m

Started: May 4, 1988
Completed: May 6, 1988

Claim No. CHIP1
Section No.: Line 27+00 East, Chip Group

Logged By: David P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test the strong southern IP anomaly

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
14.30	220.0	-44.0	93.60	218.0	-42.0

From (m)	To (m)	DESCRIPTION
.0	4.0	OVERBURDEN
4.0	25.4	FELDSPAR PORPHYRITIC GABBRO Fine-grained medium green gabbro with on average 10 to 15 %, 1 to 3 mm, feldspar grains. There is moderate local shearing at 76 degrees to core axis with moderate fracture controlled carbonatization. There are minor fracture controlled calcite, epidote and hematite veinlets. There is blocky, highly fractured core from 5.4 to 5.8, 13.0 to 14.8, and 24.0 to 25.0. Is oxidized throughout with rust on fractures. Lost core :. 20.4 23.5 : 0.3 m. 23.5 24.7 : 0.7 m.
25.4	44.4	BLACK ARGILLITE Black argillite with up to 2 % white and grey - green cherty sediment beds. Core is mostly blocky, highly fractured core with 20 cm of fault gouge at 31.0. There is strong fracture controlled carbonatization. Fracture controlled pyrite is fine-grained and averages 3 to 5 %. Beds are variable in thickness from up to 1 mm to greater than 10 cm. Bedding :. 25.7 : 40 degrees to core axis. 28.0 : 71 degrees to core axis. 29.0 : 72 degrees to core axis. 34.9 : 60 degrees to core axis. 39.1 : 58 degrees to core axis. 41.6 : 46 degrees to core axis. 44.0 : 48 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01769	25.4	26.9	1.5	3	29	27	156	<1	<5	6100
VA01770	26.9	28.4	1.5	3	28	29	247	<1	<5	5200
VA01771	28.4	30.4	2.0	4	18	27	61	<1	<5	2700
VA01772	30.4	33.1	2.7	5	15	28	61	<1	<5	2400
VA01773	33.1	35.7	2.6	5	19	26	63	<1	<5	2600
VA01774	35.7	37.0	1.3	5	21	30	60	<1	<5	2700
VA01775	37.0	39.0	2.0	5	38	30	390	<1	<5	3800
VA01776	39.0	40.5	1.5	5	39	59	71	<1	<5	2900
VA01777	40.5	42.0	1.5	5	18	53	89	<1	10	3900
VA01778	42.0	43.0	1.0	4	14	52	21	<1	<5	3000
VA01779	43.0	44.4	1.4	3	14	45	47	<1	<5	4200
			19		23	35	118	<1	<5	3462

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-51 Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Lost core :. 26.4 28.3 : 0.4 m. 28.3 29.6 : 0.2 m. 30.4 32.0 : 0.3 m. 32.0 33.1 : 0.6 m. 33.1 35.7 : 0.7 m. Alteration :. 25.4 44.4 STRONG FRACTURE CONTROLLED CARBONATIZATION.											
44.4	50.6	TUFFACEOUS CONGLOMERATE Tuffaceous conglomerate to wacke. There is 30 to 40 %, 1 to 3 mm, average 1 mm, quartz and feldspar grains. Feldspar grains are laths or angular. There are up to 1 %, approximately 5 to 10 mm, argillite clasts and one block or bed from 48.4 to 48.9. There is strong thermal biotite from 44.4 to 45.2 and moderate thermal biotite after 45.2. There is minor fracture controlled chlorite and strong quartz - chlorite - (pyrite) from 47.4 to 47.9 and from 49.2 to 49.3. There is weak fracture controlled silicification as quartz veinlets with very weak associated pervasive silicification. Foliations :. 45.2 : 61 degrees to core axis. 46.6 : 61 degrees to core axis. 47.0 : 62 degrees to core axis. Lost core :. 50.0 50.6 : 0.5 m.	VA01084	44.4	50.0	5.6	n/a	13	n/a	33	n/a	n/a	4930
50.6	51.8	BLACK ARGILLITE Black argillite with minor brown beds. Beds are variable from < 1 to 20 mm thick. There is 2 to 3 % fine-grained fracture controlled pyrite. Is blocky, highly fractured core from 50.7 to 51.2. Beading :. 50.6 : 38 degrees to core axis.	VA01780	50.6	51.8	1.2	3	12	44	37	<1	<5	2500
51.8	55.8	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF Light grey - green to brown felsic tuff with 10 %, 1 mm, feldspar crystals and 5 %, 1 to 2 mm, quartz eyes and approximately 1 %, 1 cm, cherty lapilli. There is a very strong foliation at 61 degrees to core axis. There are minor fracture controlled quartz and chlorite veinlets. Schist is papery with weak kinking. From 54.05 to 54.1 there is a quartz - biotite vein.	VA01085	51.8	55.8	4.0	n/a	<10	n/a	38	n/a	n/a	4960
55.8	57.1	BLACK ARGILLITE Blocky, highly fractured core with 0.2 m lost core from	VA01781	55.8	57.3	1.5	1	12	41	80	<1	<5	2700

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-51 Page Number 3

From (m)	To (m)	----------DESCRIPTION----------
		56.0 to 57.0. Black cherty argillite with minor fracture controlled pyrite.
57.3	61.7	FELSIC TUFF Felsic tuff or siliceous cherty tuffite with minor green chert and black argillite beds at approximately 40 degrees to core axis, is weakly contorted. Foliation is strong at 30, 45 and 70 degrees to core axis. There is minor fine-grained feldspar crystals, < 1 mm and approximately 5 %. There is weak brown colour.
61.7	100.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light green to medium grey - green coarse crystal tuff with weak to moderate chlorite, 5 to 12 %. Is crystal rich with on average 5 to 7 %, 1 to 3 mm, quartz eyes and 20 %, 1 to 2 mm, feldspars. From 86.4 to 86.5 and 87.6 to 88.0 there is 20 % epidote instead of feldspar, and locally there are up to 1 % epidote grains. Tuff is massive with trace chert lapilli, up to 1 cm, and a 2 cm pyrrhotite clast at 79.4 and a 1 cm pyrite clast at 98.6. There are minor quartz veins, up to 4 cm with minor biotite. There is minor sediment beds, green chert, with minor pyrite at 0 degrees to core axis from, 61.7 to 61.2. There is approximately 0.5 % fracture controlled quartz - (calcite) veinlets with trace pyrite. There is weak to moderate thermal biotite to approximately 64 m and very weak spotty thermal biotite after. At 93.2 there is a minor fault slip at 71 degrees to core axis. There is blocky, highly fractured core from 72.7 to 76.0. 61.7 100.2 WEAK PERVASIVE CHLORITIZATION. Structure :. Foliations :. 64.3 : 74 degrees to core axis. 70.2 : 84 degrees to core axis. 78.3 : 61 degrees to core axis. 83.4 : 78 degrees to core axis. 91.7 : 68 degrees to core axis. 98.6 : 71 degrees to core axis. Bedding :. 87.6 : 40 degrees to core axis.
100.2	101.7	BLACK ARGILLITE Cherty black argillite with minor felsic tuffite and wacke beds, beds are up to 3 cm and average 1 cm. There is moderate to strong fracture controlled carbonatization. There is trace to 1 % fracture controlled pyrite. Is blocky, highly fractured core. Tops appears to be downhole, (to the south), based on fining direction.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01086	65.0	80.0	15.0	n/a	<10	n/a	107	n/a	n/a	2010
~~VA01782~~	~~79.2~~	~~79.7~~	~~.5~~	~~0~~	~~16~~	~~27~~	~~135~~	~~<1~~	~~<5~~	~~1400~~
VA01087	80.0	100.0	20.0	n/a	<10	n/a	131	n/a	n/a	1440
			35		<10					

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Beds are cross-cut by minor faults at approximately 0 degrees to core axis with up to 2 mm displacements. Bedding averages 40 degrees to core axis.											
101.7	104.4	ARGILLACEOUS VOLCANIC WACKE Felsic tuffite to 102.8 with minor argillite clasts, up to 3 mm, hosts approximately 20 %, < 1 mm, feldspar and quartz grains. Tuffite is light grey, fine-grained and papery. To 103.6 is argillic tuffite, black with minor fracture controlled carbonatization and pyrite. There are good argillite beds to 104.0. There is breccia to 104.3 with very angular argillite and chert clasts, up to 3 cm. From 104.3 to 104.4 there is 10 cm of fault gouge at 36 degrees to core axis. Foliations :. 102.4 : 62 degrees to core axis. 103.4 : 50 degrees to core axis. Bedding :. 103.4 : 25 degrees to core axis. 104.0 : 42 degrees to core axis.											
104.4	117.1	FELSIC TUFF Felsic tuff or tuffite with cherty ash tuff beds and fine-grained ash crystal beds with 15 to 20 %, < 1 mm feldspar and quartz grains. From 111.1 to 111.5 there are black cherty argillite beds or clasts up to 25 cm. From 113.7 to 114.3 and 114.8 to 115.0 there is moderate fracture controlled carbonatization and bleached tuff with approximately 10 % pyrite. There is weak fracture controlled carbonate - quartz veinlets at 0 to 90 degrees to core axis. Tuff beds are variable in colour from weak light green to medium grey and in thickness from 1 mm to 50 + cm. Bedding :. 104.9 : 51 degrees to core axis. 110.6 : 53 degrees to core axis. Foliations :. 105.0 : 56 degrees to core axis. 110.5 : 58 degrees to core axis. 115.0 : 59 degrees to core axis. Faults :. 110.4 : 61 degrees to core axis, 1 to 2 mm fault gouge. Lost core :. 111.9 114.0 0.6 m.	VA01088 VA01783	105.0 113.6	115.0 115.1	10.0 1.5	n/a 6	<10 24	n/a 37	49 52	n/a <1	n/a 39	1620 720
117.1	118.7	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Very contorted black argillite, green chert and felsic											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		tuffite beds with strong folding and minor cross faults along fold axis. Bedding is very variable. There is trace to 1 % fracture controlled pyrite.											
118.7	118.8	FAULT ZONE 5 Cm zone of fault slips with fault gouge at 36 degrees to core axis.											
118.8	131.4	FELSIC TUFF Felsic tuff or tuffite with weak thermal biotite and or chlorite, is papery with approximately 20 % feldspar crystals. There are minor red chert beds throughout and strong chert from 121.2 to 122.2, and 124.2 to 125.2. Sulphides and alteration :. 121.2 121.3 3 to 5 % fracture controlled pyrite in chert or cherty sediments. 122.7 123.1 Weak pervasive epidote, carbonatization and chloritization with 10 to 15 % fracture controlled fine-grained pyrrhotite and pyrite. 123.3 123.4 Approximately 5 to 7 % sulphides as from 122.7 to 123.1. 124.3 125.1 Approximately 1 % fracture controlled pyrite in cherty sediments. 125.9 126.0 2 to 3 % pyrite in moderate chloritization and weak carbonatization. Foliations :. 119.2 : 62 degrees to core axis. 129.8 : 43 degrees to core axis. Bedding :. 124.5 : 16 degrees to core axis. Lower contact :. 1 Cm fault gouge at 54 degrees to core axis.	VA01089	120.0	130.0	10.0	n/a	<10	n/a	<10	n/a	n/a	2570
			VA01784	122.7	123.2	.5	12	71	20	57	<1	15	210
			VA01785	123.2	123.7	.5	2	21	12	71	<1	<5	820
			VA01786	124.3	125.1	.8	1	39	16	44	<1	<5	490
			VA01787	125.8	126.3	.5	1	60	<5	83	<1	16	340
131.4	132.5	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Cherty black argillite, brown wacke and red and green cherts with 2 to 3 % fracture controlled pyrite. Bedding averages 60 degrees to core axis. There is a 2 cm bleb of pyrrhotite in green chert at 132.5.	VA01788	131.4	132.5	1.1	3	31	20	45	<1	<5	1300
132.5	136.2	TUFFACEOUS CONGLOMERATE 20 % round thermal biotite brown coloured cobbles and boulders, up to 10 cm, in a brown, feldspar rich, matrix. There is 3 % disseminated pyrite, coarse pyrite concentrated on clast margins and fine-grained in matrix.	VA01789	132.5	134.0	1.5	3	115	26	37	<1	<5	2600
			VA01790	134.0	135.0	1.0	3	126	36	33	<1	<5	2600
			VA01791	135.0	136.2	1.2	3	155	40	42	<1	<5	3900
						3.7		130.9	33	37	<1	<5	3022

over 71.5 m

Cu: 15 Pb: 14 Zn: 42 Ag <1 Au <5

Ba 1874

71.5

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-51 | Page Number 6

From (m)	To (m)	----------DESCRIPTION----------
136.2	147.6	MAFIC LAPILLI TUFF Variably carbonatized and bleached mafic tuff with epidote spots or lapilli. There is strong fracture controlled carbonatization and moderate pervasive carbonatization. There is 2 % fracture controlled pyrite with a 1 cm pyrrhotite clot at 142.0. There are approximately 15 %, 3 to 10 mm, lapilli, probably after feldspar, now are calcite and epidote. Massive with no foliation. There are numerous fracture controlled quartz veins and veinlets at numerous orientations. Alteration :. 136.2 147.6 STRONG FRACTURE CONTROLLED CARBONATIZATION. 136.2 147.6 MODERATE PERVASIVE CARBONATIZATION. 136.2 147.6 MODERATE SPOTTY EPIDOTIZATION.
147.6	159.7	MAFIC TUFFS WITH MINOR CHERTY SEDIMENTS Dark brown mafic tuff with approximately 20 %, < 1 mm, feldspars and red and green cherts. Most beds are at 0 degrees to core axis. From 151.5 to 153.7 there is mafic tuffs and green cherts with 5 % fracture controlled pyrite and one speck of chalcopyrite at 151.55. From 158.0 the mafic is fine-grained brown and argillaceous with trace to 0.5 % fine-grained fracture controlled pyrite. Foliation is questionable with good cleavages at 35, 45 and 50 degrees to core axis. Lost core : 148.4 to 149.0 : 0.2 m. End of hole : 524 feet (159.7 m) on Friday May 6, 1988 at 1:29 p.m. Total lost core = 4.7 m % Recovery = 97.1 %.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
~~VA01790~~	~~136.2~~	~~147.6~~	~~11.4~~	n/a	<10	n/a	11	n/a	n/a	150
VA01792	136.2	138.0	1.8	2	62	41	10	<1	<5	470
VA01793	138.0	~~139.3~~	1.3	2	35	44	5	<1	<5	240
VA01794	139.5	141.0	1.5	2	54	58	49	<1	<5	940
VA01795	141.0	142.5	1.5	2	92	47	24	<1	<5	1500
VA01796	142.5	144.0	1.5	3	78	51	8	<1	<5	1100
VA01797	144.0	145.5	1.5	3	30	44	11	<1	18	<20
VA01798	145.5	~~147.6~~	2.1	2	17	41	16	<1	36	1560
VA01799	151.5	152.7	1.2	5	107	41	20	<1	42	640
VA01800	152.7	153.7	1.0	5	85	45	16	<1	6	1000
VA01801	157.0	158.0	1.0	0	59	23	37	<1	<5	3900
VA01802	158.0	159.0	1.0	1	129	7	55	<1	36	2200
VA01803	159.0	159.7	.7	1	77	6	52	<1	<5	2500

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00640	46.90	47.00	66.30	15.40	2.48	1.90	2.29	3.66	4.81	0.47	0.13	0.11	1.93	99.48	2710.	54.	5.
VA00641	53.70	53.80	71.40	12.90	2.24	1.98	1.61	2.77	3.47	0.37	0.07	0.12	2.47	99.40	3180.	55.	4.
VA00642	63.40	63.50	72.00	14.00	2.26	2.04	1.21	2.55	2.85	0.36	0.20	0.10	2.08	99.65	2400.	57.	3.
VA00643	79.10	79.20	67.70	15.80	3.05	2.15	3.15	1.66	3.52	0.60	0.13	0.15	1.93	99.84	1760.	38.	6.
VA00644	92.10	92.20	65.60	14.90	5.61	2.00	2.25	1.24	4.80	0.62	0.11	0.17	2.47	99.77	1180.	29.	8.
VA00645	139.10	139.20	46.40	13.40	22.20	4.24	0.32	0.08	6.87	0.53	0.37	0.21	5.39	100.01	50.	16.	23.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01084	44.40	50.00	63.20	15.10	2.74	1.98	2.15	3.82	5.70	0.45			2.62	97.76	4930.	54.	5.
VA01085	51.80	55.80	69.90	14.70	1.96	1.90	1.14	3.49	3.15	0.38			2.23	98.85	4960.	63.	3.
VA01086	65.00	80.00	67.30	15.30	2.76	2.33	2.47	2.10	3.73	0.52			2.31	98.82	2010.	46.	5.
VA01087	80.00	100.00	67.30	14.90	3.39	2.36	2.58	1.43	4.20	0.59			2.23	98.98	1440.	39.	6.
VA01088	105.00	115.00	69.40	13.90	1.98	3.50	0.61	2.37	3.61	0.42			3.00	98.79	1620.	69.	3.
VA01089	120.00	130.00	63.10	16.60	2.86	3.39	1.77	2.80	4.02	0.67			2.77	97.98	2570.	57.	5.
VA01090	136.20	147.60	46.10	14.50	18.50	3.77	0.11	0.37	11.60	0.58			2.47	98.00	150.	18.	19.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01792	136.20	138.00	470.0	62.0	10.0	<0.5	<5.0	21.0	57.0	41.0	<5.0	<1.0	1.0	257.0	86.	2.	2.
VA01793	138.00	139.30	240.0	35.0	5.0	<0.5	<5.0	15.0	35.0	44.0	<5.0	<1.0	<1.0	270.0	88.	2.	1.
VA01794	139.50	141.00	940.0	54.0	49.0	<0.5	<5.0	15.0	42.0	58.0	<5.0	<1.0	<1.0	244.0	52.	2.	1.
VA01795	141.00	142.50	1500.0	92.0	24.0	<0.5	<5.0	26.0	55.0	47.0	<5.0	<1.0	1.0	349.0	79.	2.	2.
VA01796	142.50	144.00	1100.0	78.0	8.0	<0.5	<5.0	23.0	54.0	51.0	<5.0	<1.0	<1.0	295.0	91.	3.	2.
VA01797	144.00	145.50	<20.0	30.0	11.0	<0.5	18.0	22.0	46.0	44.0	<5.0	<1.0	1.0	347.0	73.	3.	2.
VA01798	145.50	147.60	1560.0	17.0	16.0	<0.5	36.0	17.0	25.0	41.0	<5.0	<1.0	1.0	507.0	52.	2.	3.
VA01799	151.50	152.70	640.0	107.0	20.0	<0.5	42.0	28.0	26.0	41.0	22.0	<1.0	3.0	504.0	84.	5.	5.
VA01800	152.70	153.70	1000.0	85.0	16.0	<0.5	6.0	28.0	22.0	45.0	<5.0	<1.0	1.0	362.0	84.	5.	4.
VA01801	157.00	158.00	3900.0	59.0	37.0	<0.5	<5.0	22.0	32.0	23.0	9.0	<1.0	8.0	416.0	61.	0.	4.
VA01802	158.00	159.00	2200.0	129.0	55.0	<0.5	36.0	32.0	39.0	7.0	17.0	2.0	11.0	541.0	70.	1.	7.
VA01803	159.00	159.70	2500.0	77.0	52.0	<0.5	<5.0	25.0	32.0	6.0	10.0	2.0	9.0	472.0	60.	1.	5.

Summary Log: DDH CH88-52
Location: 31+00 E, 1+90 S; Chip 1 Claim
Azimuth: 210, Dip: -60
Hole Completed: May 9, 1988
Core Logged By: D.P. Money

0.0	7.7	Casing.
7.7	30.0	Cherty felsic tuff with minor interbedded argillite and cherty sediments.
30.0	66.4	Gabbro.
66.4	70.1	Chert.
70.1	79.0	Gabbro with minor argillite beds or blocks.
79.0	95.1	Black argillites with minor interbedded cherts. The argillite hosts 2 % fracture controlled pyrite.
95.1	122.4	Black argillites with 2 to 3 % pyrite and minor intercalated mafic tuffs and cherts.
122.4	129.4	Hornblende phyric mafic dyke.
129.4	131.5	Andesitic tuffs with minor interbedded cherts.
131.5	151.5	Hornblende phyric mafic dyke.
151.5	185.9	Intercalated argillites, mafic tuffs and cherts, locally intruded by minor mafic dykes.
185.9	203.3	Black argillites with 3 to 5 % fracture controlled pyrite and very minor chert and greywacke beds.
203.3		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-52 | Page Number 1

Hole Location: 31+00 E 1+90 S

NTS: 092B/13W UTM: 5416718.7 N 430307.3 E
Azimuth: 210 Elevation: 538 m
Dip: -60 Length: 203.3 m

Started: May 6, 1988
Completed: May 9, 1988

Claim No. Chip 1
Section No.: Section 31+00 East, Chip Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose:

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
17.40	210.0	-60.0	185.00	216.0	-59.5
99.70	212.0	-60.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	7.7	OVERBURDEN											
7.7	30.0	FELSIC TUFF Felsic tuff, tuffite and minor cherty sediments. Dominantly medium grey felsic ash tuff with weak thermal biotite. Foliation and bedding are parallel to core axis. Is blocky, highly fractured core. From 14.5 to 15.5 there are 50 % black cherty argillites with trace fracture controlled pyrite. No lapilli or crystals occur in the tuff. There is 2 cm pyrite clot at 26.8 in grey chert. Lost core :. 16.8 18.0 : 0.1 m. 18.0 18.6 : 0.2 m. 18.6 19.2 : 0.2 m. 19.5 20.3 : 0.3 m. 20.4 21.3 : 0.3 m. 21.3 22.4 : 0.8 m. 22.4 23.5 : 0.2 m. 25.3 26.2 : 0.2 m. 28.0 28.7 : 0.6 m. 28.7 29.3 : 0.4 m. 29.3 30.5 : 0.5 m.	~~VA01091~~ VA01804	~~10.0~~ 14.5	~~30.0~~ 15.5	~~20.0~~ 1.0	~~n/a~~ 1	~~12~~ 58	~~n/a~~ 6	~~17~~ 49	~~n/a~~ <1	~~n/a~~ <5	~~5900~~ 5500
30.0	43.6	MAFIC INTRUSIVE Mafic tuff (?) or gabbro. With minor epidote - sericite - quartz beds or veins, (?) sediments. There are minor epidote veins and veinlets with associated carbonatization. There are 3 %, up to 1 mm, white spots, probably leucoxene, some appear to have ilmenite core, are not carbonate as do not react with HCl. There is moderate	~~VA01092~~	~~30.5~~	~~43.0~~	~~12.5~~	~~n/a~~	~~197~~	~~n/a~~	~~41~~	~~n/a~~	~~n/a~~	~~349~~

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-52 | Page Number 2

From (m)	To (m)	----------DESCRIPTION----------
		fracture controlled carbonatization and minor quartz - carbonate veinlets at orientation of 0 to 90 degrees to core axis. Is dark green and massive with (?) 3 to 5 %, < 1 mm chloritized hornblendes in the matrix. Probably is gabbro, whole rock sample taken to verify this. Lost core :. 30.5 32.3 : 0.2 m.
43.6	66.4	FELDSPAR PORPHYRITIC GABBRO Plagiophyric gabbro with on average 5 %, 1 to 2 mm, feldspar grains. Part of same gabbro body as 30.0 to 43.6 with similiar epidotization locally. There are numerous minor fracture controlled quartz, calcite and epidote veinlets at orientations of 0 to 90 degrees to core axis. 52.1 52.2 3 % chalcopyrite in fracture controlled 1 to 3 mm calcite veinlet. 52.9 53.3 Strong fracture controlled carbonatization with trace chalcopyrite. 61.0 61.2 Fault at 18 degrees to core axis with 2 cm of fault gouge along slip. Blocky, highly fractured core :. 44.5 to 46.3, 46.9 to 47.2, 50.0 to 51.0, 56.1 to 57.2, 60.0 to 60.2, 60.7 to 61.9 and 64.9 to 66.4. Lost core :. 50.9 52.9 : 0.2 m. 54.3 54.5 : 0.1 m. 56.4 57.0 : 0.2 m. 64.9 66.4 : 0.3 m.
66.4	70.1	CHERT Weakly brown, thermal biotite (?), to grey chert. Fractured and blocky, highly fractured core with weak fracture controlled carbonatization. No sulphides occur. Bedding is variable, is at 43 degrees to core axis at 66.5 and is at 24 degrees to core axis at 69.1. There is weak kinking of the beds. Lost core :. 66.4 67.2 : 0.3 m. 67.2 68.0 : 0.3 m.
70.1	74.5	FELDSPAR PORPHYRITIC GABBRO Fine-grained medium green gabbro with approximately 7 %, 2 mm, feldspars and 5 % boudinaged quartz - calcite veinlets with trace pyrite and chalcopyrite. There is a weak foliation or moderate cleavage at 70 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-52 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
74.5	75.4	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Red and green folded cherts with up to 10 % thermal biotite coloured quartz eye tuff. Upper contact at 37 degrees to core axis and lower contact at 56 degrees to core axis. There is trace fracture controlled pyrite and minor fracture controlled quartz and calcite veinlets. Bedding is approximately 45 degrees to core axis at edges and 80 degrees to core axis in core. May be a block plucked by the gabbro.											
75.4	79.0	FELDSPAR PORPHYRITIC GABBRO Gabbro, as from 70.1 to 74.5 with folded chert blocks (?) from 76.7 to 78.0 and 77.9 to 78.3. Cherts have thermal biotite, moderate fracture controlled quartz and calcite veinlets and are weakly bleached. Gabbro has numerous quartz +/- biotite veinlets with trace local pyrite.											
79.0	91.3	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Black cherty argillites and brown to white cherts. Is mostly blocky, highly fractured core. There is on average 2 % fracture controlled pyrite with strong local fracture controlled quartz veinlets. From 88 to 89 there is minor fault brecciation. Is dominantly argillite with strong chert from 79.0 to 81.4, 85.0 to 85.5 and from 86.0 to 86.5. Lost core :. 81.4 83.1 : 0.3 m. 83.1 83.8 : 0.6 m. 83.8 84.4 : 0.4 m. 84.4 85.0 : 0.2 m. 85.0 87.2 : 0.5 m. 88.9 90.5 : 0.3 m. 90.5 91.7 : 0.6 m. Bedding :. 79.3 : 48 degrees to core axis. 80.5 : 31 degrees to core axis. 81.7 : 36 degrees to core axis. 87.5 : 18 degrees to core axis.	VA01805	79.0	80.0	1.0	3	46	7	70	<1	17	6500
			VA01806	80.0	81.0	1.0	1	35	5	46	1	11	6000
			VA01807	81.0	82.0	1.0	1	60	9	110	1	9	12000
			VA01808	82.0	83.8	1.8	2	41	6	65	<1	<5	33000
			VA01809	83.8	85.0	1.2	2	58	5	98	<1	<5	9700
			VA01810	85.0	87.0	2.0	2	48	15	150	1	<5	6600
			VA01811	87.0	89.0	2.0	2	28	32	130	<1	<5	19000
			VA01813	89.0	90.5	1.5	2	30	10	108	1	<5	4000
			VA01812	90.5	92.4	1.9	2	51	9	98	<1	<5	14000
						13.4		44	11	97	<1	5.5	12311
91.3	95.1	FAULT ZONE Black argillite fault gouge with 5 % fracture controlled pyrite and moderate fracture controlled carbonatization. Graphitic rubble. Fault motion at approximately 60 degrees to core axis. Lost core :. 91.7 92.4 : 0.6 m.	VA01814	92.4	93.5	1.1	5	31	9	128	1	6	4100
			VA01815	93.5	95.1	1.6	5	24	8	75	<1	6	36000
						2.7		27	8	101	1	6	18020

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-52 Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		92.4 93.5 : 0.2 m. 93.5 95.1 : 0.7 m.											
95.1	96.7	MAFIC INTRUSIVE May be bleached and carbonatized gabbro. Fine-grained tan schist with 1 %, 2 mm, feldspars and very strong pervasive carbonatization. Upper contact is at 7 degrees to core axis from 95.1 to 95.55. Foliation is at 28 degrees to core axis.											
96.7	100.8	BLACK ARGILLITE Black graphitic argillite with weak to moderate fracture controlled quartz - calcite veinlets and 5 to 7 % fracture controlled pyrite. Is blocky, highly fractured core with strong fractures parallel to bedding, approximately 20 to 25 degrees to core axis. Lost core :. 96.6 97.2 : 0.1 m. 97.2 97.8 : 0.1 m. 99.4 100.0 : 0.2 m. 100.0 102.0 : 0.2 m.	VA01816	96.7	98.1	1.4	6	34	10	125	1	<5	3500
			VA01817	98.1	99.4	1.3	6	24	10	116	1	<5	2500
			VA01818	99.4	100.8	1.4	6	24	9	98	<1	5	5300
						4.1		27	10	113	1	<5	3767
100.8	102.0	TUFFACEOUS CONGLOMERATE Argillaceous tuffite with minor feldspar and quartz crystals and 5 to 10 % pebble to cobble sized argillite clasts. There is minor kink bands, quartz veinlets and 3 to 4 % fracture controlled and disseminated fine-grained pyrite. Foliation : 102.2 : 35 degrees to core axis.	VA01819	100.8	102.0	1.2	4	17	6	81	<1	<5	4100
102.0	119.9	BLACK ARGILLITE Graphitic to cherty black argillite with moderate fracture controlled carbonatization and 2 to 3 % fine-grained fracture controlled pyrite. Foliation or cleavage at 0 and approximately 45 degrees to core axis. Blocky, highly fractured core :. 103.5 110.1 0. 113.7 114.0 0. 116.1 119.9 0. Lost core :. 102.0 104.1 : 0.2 m. 104.1 104.9 : 0.2 m. 104.9 105.8 : 0.2 m. 105.8 106.4 : 0.3 m. 106.4 107.3 : 0.6 m. 107.4 107.6 : 0.1 m. 107.6 107.9 : 0.1 m.	VA01820	102.0	103.0	1.0	2	37	11	140	1	<5	3400
			VA01821	103.0	104.1	1.1	2	17	5	81	<1	<5	3900
			VA01822	104.1	104.9	.8	2	30	8	102	1	<5	2200
			VA01823	104.9	105.8	.9	2	33	8	130	1	6	1500
			VA01824	105.8	107.3	1.5	2	19	10	88	1	<5	3500
			VA01825	107.3	109.0	1.7	2	16	7	90	<1	<5	4000
			VA01826	109.0	110.5	1.5	2	29	8	110	<1	6	1900
			VA01827	110.5	112.0	1.5	2	15	<5	90	<1	5	2900
			VA01828	112.0	113.5	1.5	2	26	7	95	<1	<5	5400
			VA01829	113.5	115.0	1.5	4	29	7	130	1	<5	7100
			VA01830	115.0	116.5	1.5	4	34	12	148	1	5	6400
			VA01831	116.5	118.4	1.9	3	29	10	142	1	5	3000
			VA01832	118.4	119.9	1.5	2	36	28	135	1	<5	2700
						17.9		27	9.5	114	1	5	2676

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-52 Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		108.2 109.0 : 0.5 m. 117.0 118.4 : 0.2 m. 118.4 119.0 : 0.3 m. 119.0 119.8 : 0.3 m. Bedding :. 106.3 : 23 degrees to core axis. 112.6 : 54 degrees to core axis. 119.5 : 37 degrees to core axis.											
119.9	122.4	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Mafic tuff and grey to green cherts with minor quartz - carbonate veinlets. Blocky, highly fractured core with 0.3 m lost core from 119.9 to 120.4.											
122.4	129.4	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Mafic dyke or sill. Coarse to medium grained with on average 10 to 15 %, 2 to 4 mm, biotite crystals after mafic crystals and 5 to 15 %, up to 5 mm, average 1 to 2 mm, feldspar grains in a green to locally brown matrix. There are numerous fracture controlled chlorite and fracture controlled calcite veinlets. At 128.5 there is trace chalcopyrite and pyrite in a fracture controlled calcite veinlet. Is massive with no foliation. Alteration :. 122.4 129.4 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	~~VA01093~~	~~123.0~~	~~129.0~~	~~6.0~~	~~n/a~~	~~<10~~	~~n/a~~	~~47~~	~~n/a~~	~~n/a~~	~~2670~~
129.4	131.5	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Light green cherts with fracture controlled silicification and medium green andesitic tuffs with 20 %, < 1 mm, crystals. Bedding at 130.3 is at 41 degrees to core axis.											
131.5	151.5	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION As from 122.4 to 129.4, with fine-grained zone from 140.5 to 143. There is minor red to brown biotite in the calcite - quartz veinlets. Biotite crystal size and quantity varies locally from 25 %, 3 to 5 mm, to 20 %, 1 to 2.5 mm, and to 15 %, << 1 mm. Is massive with no foliation as above. There is minor pyrite with fracture controlled calcite veinlets at 141.4 and 151.2. Biotite crystals appear to be after pyroxenes not hornblendes. Lower contact is at a fault at 47 degrees to core axis with 0.1 m fault gouge. 131.5 151.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	~~VA01094~~	~~132.0~~	~~151.0~~	~~19.0~~	~~n/a~~	~~<10~~	~~n/a~~	~~43~~	~~n/a~~	~~n/a~~	~~2820~~
151.5	166.3	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE)											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-52 | Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Black argillite with minor brown greywacke from 155.3 to 155.4, 156.5 to 156.6 and 166.1 to 166.2 and conglomerate with argillite clasts from 156.8 to 156.9. There is moderate to strong fracture controlled calcite veinlets and 7 % fracture controlled pyrite. There is minor local blocky, highly fractured core and fault gouge. Lost core : 157.0 159.6 : 0.4 m. 161.5 163.4 : 0.3 m. 151.5 166.3 STRONG FRACTURE CONTROLLED CARBONATIZATION. Bedding :. 155.4 : 61 degrees to core axis. 157.8 : 56 degrees to core axis.	VA01833	151.5	153.0	1.5	7	37	29	142	1	<5	3300
			VA01834	153.0	154.5	1.5	7	25	8	122	<1	<5	2000
			VA01835	154.5	156.0	1.5	7	28	18	132	1	<5	2400
			VA01836	156.0	157.5	1.5	7	34	26	138	1	<5	2100
			VA01837	157.5	159.0	1.5	7	36	20	152	1	6	2000
			VA01838	159.0	160.2	1.2	7	37	23	110	<1	<5	2900
			VA01839	160.2	161.5	1.3	7	32	8	118	1	<5	4100
			VA01840	161.5	163.4	1.9	7	33	8	140	1	<5	3000
			VA01841	163.4	165.0	1.6	7	32	6	130	1	<5	2800
			VA01842	165.0	166.3	1.3	7	34	13	130	<1	<5	2200
						14.8		33	16	131	1	<5	2680
166.3	171.2	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Weak thermal biotite in mafic tuff with minor clast of chert. Local quartz - calcite - chlorite veinlets in bleached tuff with trace to 1 % fracture controlled pyrite. Weak hematite on fractures. Foliations :. 168.3 : 49 degrees to core axis. 171.0 : 23 degrees to core axis.	VA01843	166.3	168.0	1.7	1	37	<5	170	<1	<5	2400
			~~VA01095~~	~~167.0~~	~~171.0~~	~~4.0~~	~~n/a~~	~~53~~	~~n/a~~	~~45~~	~~n/a~~	~~n/a~~	~~4830~~
			VA01844	168.0	169.6	1.6	1	60	<5	93	<1	<5	4000
			VA01845	169.6	171.2	1.6	1	90	<5	110	<1	<5	4300
171.2	177.3	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Medium grained biotite phyric intrusive, medium to dark green, with 20 to 25 %, 2 to 3 mm, dark brown biotite after pyroxene crystals. Massive with no foliation as before. Lower contact at fault at 31 degrees to core axis with 0.1 m fault gouge of mafic sill. Alteration :. 171.2 177.3 WEAK FRACTURE CONTROLLED CARBONATIZATION. 171.2 177.3 WEAK FRACTURE CONTROLLED CHLORITIZATION , dark green chlorite on fractures.	~~VA01096~~	~~171.3~~	~~177.3~~	~~6.0~~	~~n/a~~	~~15~~	~~n/a~~	~~60~~	~~n/a~~	~~n/a~~	~~549~~
177.3	181.9	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Black argillite with cherts and minor greywacke. There is weak to moderate fracture controlled carbonatization and 3 % fracture controlled pyrite. Bedding varies locally from 22 to 52 degrees to core axis.	VA01846	177.3	179.0	1.7	2	27	<5	140	<1	<5	990
			VA01847	179.0	180.5	1.5	2	32	<5	85	<1	<5	2700
			VA01848	180.5	181.9	1.4	2	25	5	128	<1	39	970
						4.6		28	<5	118	<1	15	1553
181.9	185.9	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Fine-grained medium green sill as before. Massive rock with approximately 5 %, < 1 mm, biotites and 5 to 10 % feldspars, < 1 mm. There is minor fracture controlled calcite veinlets with trace pyrite.	~~VA01097~~	~~181.9~~	~~185.9~~	~~4.0~~	~~n/a~~	~~33~~	~~n/a~~	~~84~~	~~n/a~~	~~n/a~~	~~1630~~

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: ch88-52 Page Number 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
185.9	203.3	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE)											
		Cherty black argillite with moderate fracture controlled carbonatization and 3 to 5 % fracture controlled pyrite with minor other sediments. There are green cherts with weak fracture controlled silicification from 187.1 to 187.5. There is minor wacke to conglomerate with argillite clasts from 187.7 to 188.4, 195.5 to 196.0 and from 192.4 to 192.7.	VA01849	185.9	187.0	1.1	3	35	14	100	<1	<5	1100
			VA01850	187.0	188.0	1.0	3	27	12	65	<1	<5	540
			VA01851	188.0	189.5	1.5	3	30	10	150	1	<5	1800
			VA01852	189.5	191.0	1.5	3	35	8	140	1	<5	2000
			VA01853	191.0	192.5	1.5	3	24	6	110	<1	<5	2200
			VA01854	192.5	194.0	1.5	3	17	7	96	<1	<5	3500
			VA01855	194.0	195.5	1.5	3	23	6	110	<1	13	3500
			VA01856	195.5	197.0	1.5	3	30	10	113	<1	<5	1700
			VA01857	197.0	198.5	1.5	3	40	8	88	<1	<5	2200
			VA01858	198.5	200.0	1.5	3	44	10	96	<1	<5	3000
			VA01859	200.0	201.5	1.5	3	37	7	90	<1	<5	2600
			VA01860	201.5	203.3	1.8	3	48	10	105	1	<5	2700
						17.4		32.5	8.25	105	<1	<5	2237
		End of hole 667 feet (203.3 m) on Monday May 9, 1988 at 2:30 p.m.											
		Total lost core = 14.2 m % Recovery = 93.0 %.											

77.1 m Cu:32 Pb:10. Zn: 111 Ag <1 Au <5 Ba 4839

77.1

2460

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA00646	35.30	35.40	48.80	14.70	10.10	6.52	2.61	0.19	13.00	1.78	0.17	0.20	1.93	100.00	294.	35.	13.
VA00647	54.60	54.70	48.70	13.70	10.80	6.39	2.20	0.33	13.30	1.86	0.18	0.20	1.70	99.36	407.	34.	13.
VA00648	95.80	95.90	45.50	12.40	12.10	5.24	1.16	0.60	10.70	1.51	0.14	0.21	10.30	99.86	1820.	31.	13.
VA00649	124.30	124.40	46.30	14.10	7.96	10.90	2.48	0.96	10.40	1.62	0.33	0.17	3.08	98.30	1440.	53.	10.
VA00650	135.80	135.90	46.10	13.60	9.47	10.60	2.30	1.12	10.10	1.60	0.29	0.16	3.08	98.42	1880.	50.	12.
VA00651	141.20	141.30	45.10	14.70	8.98	8.96	3.03	0.96	10.20	1.64	0.33	0.20	5.77	99.87	1900.	45.	12.
VA00652	148.20	148.30	42.90	11.70	10.20	13.30	1.03	1.31	11.40	1.51	0.29	0.19	4.16	97.99	2140.	57.	11.
VA00653	172.50	172.60	42.90	9.49	11.00	17.10	0.48	0.49	10.60	1.51	0.31	0.20	4.70	98.78	807.	61.	11.
VA00654	183.80	183.90	43.00	13.70	6.53	13.00	1.91	1.04	12.30	1.73	0.34	0.22	4.47	98.24	1550.	62.	8.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01091	10.00	30.00	74.70	8.82	2.28	2.00	0.91	1.85	4.78	0.31			2.08	97.73	5900.	55.	3.
VA01092	30.50	43.00	48.50	13.30	12.00	5.86	1.98	0.26	11.70	1.55			3.70	98.85	349.	30.	14.
VA01093	123.00	129.00	45.10	13.50	9.68	10.40	2.08	1.41	10.40	1.80			4.23	98.60	2670.	50.	12.
VA01094	132.00	151.00	45.00	12.60	9.76	11.00	1.85	1.33	9.98	1.58			4.54	97.64	2820.	52.	12.
VA01095	167.00	171.00	41.90	16.50	14.40	3.79	2.36	2.04	8.09	1.54			7.39	98.01	4830.	26.	17.
VA01096	171.30	177.30	42.20	8.76	11.10	16.80	0.41	0.35	11.20	1.41			5.70	97.93	549.	60.	12.
VA01097	181.90	185.90	43.90	14.10	7.31	12.60	1.91	0.86	11.90	1.75			5.31	99.64	1630.	59.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01804	14.50	15.50	5500.0	58.0	49.0	<0.5	<5.0	5.0	24.0	6.0	9.0	<1.0	2.0	287.0	54.	1.	3.
VA01805	79.00	80.00	6500.0	46.0	70.0	<0.5	17.0	8.0	18.0	7.0	8.0	<1.0	1.0	432.0	40.	3.	4.
VA01806	80.00	81.00	6000.0	35.0	46.0	1.3	11.0	6.0	20.0	5.0	10.0	<1.0	1.0	378.0	43.	1.	3.
VA01807	81.00	82.00	12000.0	60.0	110.0	0.8	9.0	7.0	28.0	9.0	10.0	<1.0	1.0	490.0	35.	1.	4.
VA01808	82.00	83.80	33000.0	41.0	65.0	<0.5	<5.0	5.0	17.0	6.0	20.0	<1.0	2.0	251.0	39.	2.	2.
VA01809	83.80	85.00	9700.0	58.0	98.0	<0.5	<5.0	7.0	22.0	5.0	30.0	<1.0	2.0	676.0	37.	2.	5.
VA01810	85.00	87.00	6600.0	48.0	150.0	0.6	<5.0	6.0	28.0	15.0	20.0	<1.0	3.0	330.0	24.	2.	3.
VA01811	87.00	89.00	19000.0	28.0	130.0	<0.5	<5.0	3.0	14.0	32.0	17.0	<1.0	2.0	234.0	18.	2.	2.
VA01813	89.00	90.50	4000.0	30.0	108.0	0.5	<5.0	3.0	20.0	10.0	13.0	<1.0	5.0	542.0	22.	2.	2.
VA01812	90.50	92.40	14000.0	51.0	98.0	<0.5	<5.0	5.0	24.0	9.0	18.0	<1.0	1.0	336.0	34.	2.	3.
VA01814	92.40	93.50	4100.0	31.0	128.0	0.8	6.0	4.0	20.0	9.0	16.0	<1.0	6.0	385.0	20.	5.	2.
VA01815	93.50	95.10	36000.0	24.0	75.0	<0.5	6.0	3.0	14.0	8.0	12.0	<1.0	2.0	265.0	24.	5.	2.
VA01816	96.70	98.10	3500.0	34.0	125.0	0.8	<5.0	2.0	24.0	10.0	11.0	<1.0	4.0	384.0	21.	6.	2.
VA01817	98.10	99.40	2500.0	24.0	116.0	0.6	<5.0	1.0	18.0	10.0	11.0	<1.0	3.0	372.0	17.	6.	2.
VA01818	99.40	100.80	5300.0	24.0	98.0	<0.5	5.0	4.0	9.0	9.0	8.0	<1.0	3.0	637.0	20.	6.	2.
VA01819	100.80	102.00	4100.0	17.0	81.0	<0.5	<5.0	3.0	8.0	6.0	9.0	<1.0	2.0	309.0	17.	4.	2.
VA01820	102.00	103.00	3400.0	37.0	140.0	1.0	<5.0	3.0	28.0	11.0	13.0	<1.0	8.0	371.0	21.	2.	3.
VA01821	103.00	104.10	3900.0	17.0	81.0	<0.5	<5.0	2.0	10.0	5.0	5.0	<1.0	2.0	226.0	17.	2.	2.
VA01822	104.10	104.90	2200.0	30.0	102.0	0.6	<5.0	2.0	24.0	8.0	21.0	<1.0	2.0	285.0	23.	2.	2.
VA01823	104.90	105.80	1500.0	33.0	130.0	0.6	6.0	2.0	24.0	8.0	30.0	<1.0	2.0	266.0	20.	2.	2.
VA01824	105.80	107.30	3500.0	19.0	88.0	0.6	<5.0	3.0	9.0	10.0	<5.0	<1.0	2.0	386.0	18.	2.	2.
VA01825	107.30	109.00	4000.0	16.0	90.0	<0.5	<5.0	1.0	9.0	7.0	<5.0	<1.0	13.0	486.0	15.	2.	2.
VA01826	109.00	110.50	1900.0	29.0	110.0	<0.5	6.0	<1.0	26.0	8.0	<5.0	<1.0	3.0	377.0	21.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	E
VA01827	110.50	112.00	2900.0	15.0	90.0	<0.5	5.0	<1.0	8.0	<5.0	5.0	2.0	2.0	354.0	14.	
VA01828	112.00	113.50	5400.0	26.0	95.0	<0.5	<5.0	7.0	9.0	7.0	8.0	<1.0	11.0	572.0	21.	
VA01829	113.50	115.00	7100.0	29.0	130.0	0.5	<5.0	6.0	14.0	7.0	10.0	<1.0	2.0	496.0	18.	
VA01830	115.00	116.50	6400.0	34.0	148.0	0.8	5.0	4.0	28.0	12.0	9.0	<1.0	36.0	370.0	19.	
VA01831	116.50	118.40	3000.0	29.0	142.0	0.8	5.0	6.0	37.0	10.0	14.0	<1.0	12.0	356.0	17.	
VA01832	118.40	119.90	2700.0	36.0	135.0	0.7	<5.0	6.0	10.0	28.0	<5.0	<1.0	2.0	406.0	21.	
VA01833	151.50	153.00	3300.0	37.0	142.0	0.8	<5.0	5.0	7.0	29.0	<5.0	<1.0	1.0	390.0	21.	
VA01834	153.00	154.50	2000.0	25.0	122.0	<0.5	<5.0	2.0	22.0	8.0	13.0	<1.0	3.0	571.0	17.	
VA01835	154.50	156.00	2400.0	28.0	132.0	0.5	<5.0	3.0	10.0	18.0	<5.0	<1.0	2.0	335.0	18.	
VA01836	156.00	157.50	2100.0	34.0	138.0	0.6	<5.0	1.0	9.0	26.0	5.0	<1.0	2.0	277.0	20.	
VA01837	157.50	159.00	2000.0	36.0	152.0	0.7	6.0	1.0	24.0	20.0	11.0	<1.0	3.0	360.0	19.	
VA01838	159.00	160.20	2900.0	37.0	110.0	<0.5	<5.0	6.0	18.0	23.0	5.0	<1.0	1.0	422.0	25.	
VA01839	160.20	161.50	4100.0	32.0	118.0	0.6	<5.0	2.0	22.0	8.0	50.0	<1.0	2.0	261.0	21.	
VA01840	161.50	163.40	3000.0	33.0	140.0	0.5	<5.0	3.0	28.0	8.0	12.0	<1.0	2.0	246.0	19.	
VA01841	163.40	165.00	2800.0	32.0	130.0	0.6	<5.0	3.0	24.0	6.0	12.0	<1.0	3.0	250.0	20.	
VA01842	165.00	166.30	2200.0	34.0	130.0	<0.5	<5.0	6.0	35.0	13.0	11.0	<1.0	3.0	361.0	21.	
VA01843	166.30	168.00	2400.0	37.0	170.0	<0.5	<5.0	28.0	98.0	<5.0	<5.0	<1.0	4.0	970.0	18.	
VA01844	168.00	169.60	4000.0	60.0	93.0	<0.5	<5.0	20.0	32.0	<5.0	<5.0	<1.0	3.0	730.0	39.	
VA01845	169.60	171.20	4300.0	90.0	110.0	<0.5	<5.0	23.0	54.0	<5.0	5.0	<1.0	4.0	823.0	45.	
VA01846	177.30	179.00	990.0	27.0	140.0	<0.5	<5.0	4.0	20.0	<5.0	5.0	<1.0	4.0	617.0	16.	
VA01847	179.00	180.50	2700.0	32.0	85.0	<0.5	<5.0	6.0	24.0	<5.0	5.0	<1.0	4.0	537.0	27.	
VA01848	180.50	181.90	970.0	25.0	128.0	<0.5	39.0	5.0	25.0	5.0	<5.0	<1.0	3.0	466.0	16.	
VA01849	185.90	187.00	1100.0	35.0	100.0	<0.5	<5.0	7.0	24.0	14.0	5.0	<1.0	2.0	431.0	26.	

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA01850	187.00	188.00	540.0	27.0	65.0	<0.5	<5.0	9.0	36.0	12.0	6.0	<1.0	2.0	452.0	29.	3.	3.
VA01851	188.00	189.50	1800.0	30.0	150.0	0.5	<5.0	2.0	24.0	10.0	30.0	<1.0	3.0	270.0	17.	3.	2.
VA01852	189.50	191.00	2000.0	35.0	140.0	0.6	<5.0	3.0	26.0	8.0	19.0	<1.0	3.0	214.0	20.	3.	3.
VA01853	191.00	192.50	2200.0	24.0	110.0	<0.5	<5.0	4.0	14.0	6.0	6.0	<1.0	2.0	430.0	18.	3.	3.
VA01854	192.50	194.00	3500.0	17.0	96.0	<0.5	<5.0	3.0	11.0	7.0	7.0	<1.0	5.0	407.0	15.	3.	3.
VA01855	194.00	195.50	3500.0	23.0	110.0	<0.5	13.0	3.0	16.0	6.0	6.0	<1.0	6.0	335.0	17.	3.	2.
VA01856	195.50	197.00	1700.0	30.0	113.0	<0.5	<5.0	3.0	20.0	10.0	5.0	<1.0	3.0	453.0	21.	3.	2.
VA01857	197.00	198.50	2200.0	40.0	88.0	<0.5	<5.0	5.0	23.0	8.0	6.0	<1.0	2.0	296.0	31.	3.	3.
VA01858	198.50	200.00	3000.0	44.0	96.0	<0.5	<5.0	5.0	24.0	10.0	6.0	<1.0	2.0	371.0	31.	3.	3.
VA01859	200.00	201.50	2600.0	37.0	90.0	<0.5	<5.0	5.0	24.0	7.0	5.0	<1.0	2.0	220.0	29.	3.	3.
VA01860	201.50	203.30	2700.0	48.0	105.0	0.6	<5.0	8.0	26.0	10.0	28.0	<1.0	1.0	225.0	31.	3.	3.

Summary Log: DDH CH88-53
Location: 30+00 E, 1+95 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 10, 1988
Core logged by: J. Pattison

0.0	12.6	Casing.
12.6	15.1	Mafic to intermediate tuffaceous sediments
15.1	35.0	Massive mafic flow
35.0	37.1	Mafic to intermediate tuffaceous sediments
37.1	79.5	Gabbro
79.5	80.6	Volcanic wacke
80.6	125.8	Black cherty argillite with 3-5 % fracture controlled pyrite
125.8	128.5	Cherty felsic tuff/tuffite
128.5	130.0	Black argillite
130.0	133.0	Greywacke
133.0	247.1	Reworked felsic tuff Very massive quartz grain-rich coarse to fine felsic tuff. Bedding is rare but appears to be at a very low angle to the core axis.
247.1	250.0	Mafic tuff
250.0	255.5	Cherty sediments (argillite and siltstone)
255.5	267.3	Reworked felsic tuff
267.3	268.6	Mafic tuff
268.6	272.5	Black argillite

PROPERTY: Chemainus JV

HOLE No: CH88-53 | Page Number 1

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

Hole Location: 30+02 E 1+95 S

NTS: 92B13 UTM: 5416761.1 N 430229.8 E
Azimuth: 210 Elevation: 532 m
Dip: -50 Length: 272.5 m

Started: 6-May-88
Completed: 10-May-88

Claim No. Chip 1
Section No.: 30+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size:

Purpose:

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
23.20	210.0	-50.0	135.90	210.0	-50.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	12.6	OVERBURDEN											
12.6	15.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Dark brown, strongly thermal biotite altered, fine-grained, locally cherty mafic tuffaceous sediments. Trace fracture controlled pyrite. Broken core at the lower contact. STRUCTURE:. At 13.3 m bedding is at 35 degrees to core axis. ALTERATION:. 12.6 15.1 STRONG PERVASIVE BIOTIZATION.											
15.1	35.0	MAFIC FLOW Medium green, massive mafic flows with occasional ripped-up beds of mafic tuffaceous sediments and beds of cherty fragment rich mafic tuff up to 0.1 cm wide. . STRUCTURE:. 32.3-33.5 M FAULT ZONE at 45 (?) degrees to core axis. 0.1 m of lost core. 34.2-35.0 M blocky, highly fractured core. 0.4 m of lost core. ALTERATION:. 12.6 35.0 WEAK SPOTTY EPIDOTIZATION and WEAK SPOTTY CARBONATIZATION.	VA02836	15.1	37.1	22.0	n/a	172	n/a	93	n/a	n/a	1160
35.0	37.1	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-53 | Page Number 2

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Medium green, mafic tuff with beds and ripped-up beds of cherty very fine-grained tuffaceous sediments. Broken core at lower contact but it appears to be at 37 degrees to core axis. STRUCTURE:. At 36.2 bedding is at 50 degrees to core axis. ALTERATION:. 32.3 37.1 WEAK PERVASIVE CHLORITIZATION.											
37.1	79.5	MAFIC INTRUSIVE Medium green, fine-grained with nil to 20 % 1-4 mm feldspar phenocrysts and trace to 3 % disseminated ilmenite. Ilmenite is often rimmed with leucoxene. Weakly to moderately carbonatized. Moderately carbonatized zones are non feldspar porphyritic and weakly sheared. Calcite +/- quartz veinlets are common. Blocky zones and minor fault gouges are common throughout. 5.0 Cm assimilation zone at the lower contact. Lower contact is at 55 degrees to core axis. STRUCTURE:. 39.8-40.0 M FAULT ZONE at 50 degrees to core axis. 0.1 m of lost core. 43.2-44.5 M FAULT ZONE. Rock is broken and blocky the over entire interval. 0.6 M of lost core. Not possible to measure the orientation of the fault. 47.1-47.2 M fault gouge at 70 degrees to core axis. At 63.8 m 1.0 cm fault gouge at 60 degrees to core axis. At 66.3 m 0.5 cm fault gouge at 30 degrees to core axis. 69.3-69.5 M fault gouge at 33 degrees to core axis.											
79.5	80.6	IMMATURE VOLCANIC WACKE Grey-brown massive volcanic wacke above 80.2 m. Below this depth there are several 2-3 mm black argillite beds. At 80.3 m there two subangular clasts of felsic quartz feldspar porphyritic flow or tuff. Tightly packed quartz-rich pebble conglomerate for 5.0 cm from the lower contact. Lower contact is a 1.0 cm fault gouge at 70 degrees to core axis.											
80.6	125.8	BLACK ARGILLITE Black, weakly cherty, weakly to moderately graphitic argillite (95 % of unit) with beds of light green-grey cherty siltstone 1-10 mm thick and rare chert beds < 3 cm thick. Massive to finely bedded. Lower contact is a bedding contact at 15 degrees to core axis.	VA03780	80.6	81.4	.8	3	50	7	100	<1	<5	4400
			VA03781	81.4	82.0	.6	3	66	13	115	<1	<5	4700
			VA03782	82.0	83.0	1.0	3	45	8	110	<1	<5	4200
			VA03783	83.0	84.0	1.0	3	40	11	110	<1	<5	5600
			VA03784	84.0	85.7	1.7	3	48	17	145	<1	<5	5300

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-53 Page Number 3

From (m)	To (m)	----------DESCRIPTION----------
		92.4-92.7 M a bed of wacke FINES DOWNHOLE. Ripped-up argillite clasts occur at the base of the bed. Bedding is at 65 degrees to core axis.
		96.9-97.5 M FAULT ZONE at 60-30 degrees to core axis.
		97.5-103.0 M blocky, highly fractured core. 0.6 m of lost core. Moderately to strongly graphitic.
		STRUCTURE:.
		At 81.1 m 10 cm fault breccia at 70 degrees to core axis.
		81.2-82.0 M bedding is wavey and nearly parallel to the core axis.
		At 82.7 m bedding is at 60 degrees to core axis. Beds are kinked and offset by a matter of mm's by numerous microfaults at low angles to the core axis.
		At 83.6 m 9.0 cm fault zone at 60-70 degrees to core axis.
		At 83.9 m bedding is at 88 degrees to core axis.
		At 86.8 m 10.0 cm fault gouge at 78 degrees to core axis.
		At 88.0 m bedding is at 75 degrees to core axis.
		90.3-90.4 M bed of cherty sediments that grades from a coarse wacke with ripped-up argillite clasts to a siltstone downhole.
		At 101.6 m foliation is at 35 degrees to core axis.
		At 102.5 m bedding is at 30 degrees to core axis. 0.5 cm bed FINES UPHOLE.
		107.7-110.9 M blocky, highly fractured core. Foliation is at < 30 degrees to core axis. 0.2 m of lost core.
		At 113.0 m bedding is nearly parallel to the core axis.
		113.1-113.6 M FAULT ZONE at 40 degrees to core axis. 0.5 m of lost core.
		115.4-116.1 M fault at 15 degrees to core axis. 0.8 m of lost core.
		118.1-125.8 M FAULT ZONE (?). Blocky, highly fractured core, foliation is nearly parallel to the core axis. 4.3 m of lost core.
		ALTERATION:.
80.6	125.8	WEAK FRACTURE CONTROLLED CARBONATIZATION. Some of the wacke beds are strongly carbonatized.
		SULPHIDES:.
		80.6-85.0 m 3 % pyrite, fracture controlled, disseminated and in 1-2 mm bands parallel to bedding.
		85.0-85.7 m 5 % fracture controlled pyrite.
		85.7-86.3 m 3 % fracture controlled pyrite.
		86.3-125.8 m 4-5 % fracture controlled pyrite.
85.7	86.3	Pale green strongly carbonatized MAFIC TO INTERMEDIATE TUFF. Upper contact is at 60 degrees to core axis and the lower contact is at 85 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03785	85.7	86.3	.6	5	113	7	225	<1	<5	2900
VA03786	86.3	87.0	.7	5	56	10	140	<1	<5	5900
VA03787	87.0	88.0	1.0	5	40	7	108	<1	<5	5300
VA03788	88.0	89.0	1.0	5	17	8	102	<1	<5	3700
VA03789	89.0	90.0	1.0	5	37	10	132	3	<5	4600
VA03790	90.0	91.0	1.0	5	44	41	460	1	8	4100
VA03791	91.0	92.0	1.0	5	32	9	118	<1	<5	5800
VA03792	92.0	93.0	1.0	5	26	11	128	<1	<5	4600
VA03793	93.0	94.0	1.0	5	30	7	102	1	<5	4600
VA03794	94.0	95.0	1.0	5	32	8	120	1	<5	4200
VA03795	95.0	96.0	1.0	5	23	8	90	1	<5	6200
VA03796	96.0	97.0	1.0	5	35	11	150	1	<5	5200
VA03797	97.0	98.0	1.0	5	36	9	122	1	<5	2800
VA03798	98.0	99.0	1.0	5	31	12	110	1	<5	4500
VA03799	99.0	100.0	1.0	5	20	9	100	1	<5	3900
VA03800	100.0	101.0	1.0	5	31	10	130	1	<5	2100
VA03801	101.0	102.0	1.0	5	20	8	90	<1	<5	2100
VA03802	102.0	103.0	1.0	5	19	8	88	<1	<5	1800
VA03803	103.0	104.0	1.0	5	23	10	80	<1	<5	1200
VA03804	104.0	105.0	1.0	5	30	6	157	<1	<5	1500
VA03805	105.0	105.7	.7	5	30	6	118	1	<5	2000
VA03806	105.7	106.0	.3	5	27	<5	198	1	<5	1000
VA03807	106.0	106.4	.4	5	19	<5	166	<1	13	1700
VA03808	106.4	107.5	1.1	5	27	<5	190	<1	<5	730
VA03809	107.5	108.0	.5	5	21	<5	70	<1	<5	4900
VA03810	108.0	109.0	1.0	5	26	8	100	<1	<5	4700
VA03811	109.0	110.0	1.0	5	15	<5	95	<1	<5	4000
VA03812	110.0	111.0	1.0	5	27	9	110	<1	<5	2800
VA03813	111.0	112.0	1.0	5	20	7	90	1	<5	4200
VA03814	112.0	113.0	1.0	5	21	6	100	<1	<5	3000
VA03815	113.0	114.0	1.0	5	27	10	100	<1	<5	8100
VA03816	114.0	116.0	2.0	5	20	6	90	<1	<5	4900
VA03817	116.0	118.0	2.0	5	22	7	90	<1	<5	3400
VA03818	118.0	120.0	2.0	5	25	8	115	<1	5	4500
VA03819	120.0	121.0	1.0	5	29	8	140	1	<5	4000
VA03820	121.0	125.0	4.0	5	21	5	110	<1	<5	2700
VA03821	125.0	125.8	.8	5	40	22	65	<1	<5	3600
			45.2		30	8	126	1	<5	3794

42

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-53 Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		105.7 106.0 Pale green, fine-grained MAFIC DYKE. Upper and lower contacts are sharp at 30 degrees to core axis. 5 % fracture controlled pyrite.											
		106.4 107.5 MAFIC DYKE: as 105.7 to 106.0 m.											
125.8	128.5	FELSIC TUFF Massive, pale green, fine-grained, cherty felsic tuff/tuffite. Rock is weakly microfractured and fractures are filled with quartz. Lower contact is at 40 degrees to core axis.	VA03822 VA03823	125.8 127.5	126.8 128.5	1.0 1.0	1 1	12 2	10 12	55 42	<1 <1	7 <5	3800 3800
						2.0		7	11	48	<1	4.7	3800
		ALTERATION:. 125.8 128.5 WEAK SPOTTY EPIDOTIZATION and WEAK FRACTURE CONTROLLED SILICIFICATION.											
		126.5 126.7 BLACK ARGILLITE. Soft sediment deformation along the lower contact which is at 40 degrees to core axis. Broken core at the upper contact.											
128.5	130.0	BLACK ARGILLITE As 80.6 to 125.8 m with occasional clasts of cherty felsic tuff up to 1.0 cm wide. 2 % fracture controlled pyrite. Lower contact is gradational over 0.1 m. STRUCTURE:. At 128.8 m bedding is at 43 degrees to core axis.	VA03824 VA03825	128.5 129.0	129.0 130.0	.5 1.0	2 2	35 31	12 58	53 290	<1 <1	<5 38	3600 3300
						1.5		33	35	172	.5		3500
130.0	133.0	GREYWACKE Light grey, fine-grained greywacke with many broken beds of chert up to 1.0 cm wide. Argillite beds and rip-up clasts occur over the first 0.3 m. Trace fracture controlled pyrite. Lower contact is relatively sharp but not possible to measure the orientation due to broken core. . STRUCUTRE:. At 130.7 m bedding is at 32 degrees to core axis.	VA03826 VA03827	130.0 131.0	131.0 132.0	1.0 1.0	1 1	2 2	<5 <5	88 58	<1 <1	38 <5	3000 3000
						2.0		2	<5	73	<1	20	3000
		ALTERATION:. 130.0 133.0 WEAK FRACTURE CONTROLLED SILICIFICATION.											
133.0	247.1	REWORKED FELSIC TUFF Very massive (no bedding or foliation), pale green, quartz rich, coarse felsic tuff. Composed of 50-60 % 1-3 mm angular quartz grains, up to 5 % ash-sized feldspar	~~VA02837~~ ~~VA02838~~ VA03828	~~133.0~~ ~~163.0~~ 168.0	~~163.0~~ ~~193.0~~ 169.0	~~30.0~~ ~~30.0~~ 1.0	~~n/a~~ ~~n/a~~ 2	~~<10~~ ~~<10~~ 26	~~n/a~~ ~~n/a~~ <5	~~166~~ ~~66~~ 100	~~n/a~~ ~~n/a~~ <1	~~n/a~~ ~~n/a~~ <5	~~2090~~ ~~2370~~ 1700

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-53 Page Number 5

From (m)	To (m)	----------DESCRIPTION----------
		crystals in a very fine-grained siliceous, weakly sericitic and chloritic matrix intercalated with lesser ammounts of pale green, fine felsic ash tuff. Locally up to 20 % 2-3 mm epidotized feldspars. Quartz grain rich nature of the tuff suggests that most of the unit has been reworked to some extent. The tuff becomes coarser grained below 145.5 m (average grainsize is 3 mm). Quartz filled fractures and gashes up to 0.5 cm wide are common. Nil to 5 % 2-4 mm angular light grey cherty fragments above 200 m and up to 10 % below 200 m. Nil sulphides. Trace to 1 % magnetite or ilmenite as black grains <0.5 mm in diameter with a submetallic lustre. Lower contact is at 15 degrees to core axis.
		STRUCTURE:.
		145.1-145.5 M fault gouge at 20 degrees to core axis.
		At 161.4 m slip at 40 degrees to core axis.
		At 188.2 m weak foliation at 60 degrees to core axis.
		At 217.4 m weak foliation at 45 degrees to core axis.
		At 227.5 m foliation is at 37 degrees to core axis.
		At 230.8 m bedding is parallel to the core axis.
		At 246.0 m foliation is at 20 degrees to core axis.
		ALTERATION:.
		133.0 247.1 WEAK FRACTURE CONTROLLED SILICIFICATION , WEAK PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION. Locally very weakly thermal biotite altered.
		SULPHIDES:.
		168.0-169.5 m 2 % disseminated and fracture controlled pyrite.
		174.0-175.0 m 3 % pyrite; fracture controlled, disseminated and as clasts to 1.0 cm. Trace fracture controlled sphalerite.
		192.0-192.5 M trace fracture controlled sphalerite. Pyrite and trace chalcopyrite and sphalerite occur in an epidote alteration patch associated with a 0.5 cm quartz filled fracture at 30 degrees to core axis.
		218.5-219.5 M trace fracture controlled pyrite and trace sphalerite or biotite associated with quartz-carbonate filled fractures.
		219.0 220.0 INTERMEDIATE QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF. Composed of 30 % quartz and feldspar crystals 2-4 mm in diameter in a fine-grained intermediate chlorite+sericite matrix. Upper and lower contacts are at 62 degrees to core axis.
		230.7 230.8 A bed of cherty BLACK ARGILLITE at 0 degrees

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03829	169.0	170.0	1.0	2	10	5	100	<1	<5	2000
VA03830	174.0	175.0	1.0	3	12	12	580	<1	<5	2100
VA03831	192.0	192.5	.5	1	90	18	2000	3	7	90
~~VA02839~~	~~193.0~~	~~223.0~~	~~30.0~~	~~n/a~~	~~16~~	~~n/a~~	~~324~~	~~n/a~~	~~n/a~~	~~1000~~
VA03832	194.0	194.5	.5	1	20	17	142	<1	<5	2000
VA03833	218.5	219.5	1.0	1	10	6	93	<1	<5	370
~~VA02840~~	~~221.0~~	~~247.1~~	~~24.1~~	~~n/a~~	~~<10~~	~~n/a~~	~~150~~	~~n/a~~	~~n/a~~	~~1370~~
			5.0		28	10	502	<1	<5	1277

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-53 Page Number 6

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		to core axis.											
247.1	250.0	MAFIC TUFF Medium green, fine-grained somewhat cherty over the first 0.7 m. 5 %, 2-3 mm quartz +/- carbonate filled amygdales and angular 2-5 mm quartz rich clasts are common. 3 to 4 % fracture controlled pyrite. Lower contact is at a very low angle to the core axis (<20 degrees to core axis).	VA03834 VA03835 VA03836	247.1 248.0 249.0	248.0 249.0 250.0	.9 1.0 1.0 2.9	4 4 4	16 27 27 23	<5 <5 <5 <5	72 106 79 86	<1 1 <1 <1	<5 <5 <5 <5	290 250 130
250.0	255.5	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Pale green-grey very cherty siltstone with beds and broken up, ripped-up beds of black argillite. Bedding is at a very low angle to the core axis. Mafic tuff, identical to the unit above, occasionally runs along the edge of the core. Lower contact is at 8 degrees to core axis. STRUCTURE:. At 254.0 m bedding is at 20 degrees to core axis and sediments, appear to FINE DOWNHOLE.											
255.5	264.7	REWORKED FELSIC TUFF As 133.0 to 247.1 m with beds of cherty sediments up to 5.0 cm thick at very low angles to the core axis. STRUCTURE:. At 259.8 m bedding is at 20 degrees to core axis. Cherty siltstone with broken and ripped-up beds of argillite below 264.0 m.	VA03837	263.7	264.7	1.0	1	8	19	420	<1	<5	3100
264.7	265.5	MAFIC TUFF Medium green, massive mafic ash tuff with 5 %, 2-20 mm, angular clasts of cherty siltstone. 5 % disseminated and fracture controlled pyrite. 0.3 m quartz-carbonate flooded zone at 30 degrees to core axis at the lower contact.	VA03838	264.7	265.5	.8	5	83	5	200	2	<5	2400
265.5	266.5	SILTSTONE Pale green, cherty finely bedded siltstone. Bedding is at 40 degrees to core axis.	VA03839	265.5	266.5	1.0	1	19	9	100	1	<5	2000
266.5	267.3	REWORKED FELSIC TUFF As 133.0 to 247.1 m. Lower contact is gradational over 5.0 cm.	VA03840	266.5	267.3	.8	2	4	<5	102	<1	<5	6900

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-53 Page Number 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
267.3	268.6	MAFIC TUFF Massive, mafic ash tuff with 5 %, 3-10 mm angular cherty fragments. 4 % disseminated pyrite. Lower contact is at 45 degrees to core axis.	VA03841	267.3	268.6	1.3	4	15	5	122	<1	<5	1500
268.6	272.5	BLACK ARGILLITE Cherty black argillite with light grey cherty siltstone, wacke and felsic feldspar crystal tuff beds at 0-15 degrees to core axis. A bed FINES DOWNHOLE at 269.5 m. 4-5 % fracture controlled and bedded (beds are < 3 mm thick) pyrite. STRUCTURE:. 269.6-271.0 M blocky, highly fractured core. 0.2 m of lost core.	VA03842	268.6	269.4	.8	4	34	7	83	1	<5	1200
			VA03843	269.4	270.7	1.3	4	25	7	70	<1	<5	990
			VA03844	270.7	271.7	1.0	4	27	5	62	1	<5	1500
			VA03845	271.7	272.5	.8	4	4	<5	39	<1	<5	3600
						3.9		22	6	63	<1	<5	1822

64.5m

Cu: 28 Pb: 8 Zn: 157 Ag <1 Au: <5

Ba: 3393.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02372	18.60	18.90	48.10	16.10	6.87	8.01	3.64	0.63	11.10	0.85	0.18	0.25	3.16	98.89	1300.	45.	11.
VA02373	29.50	29.80	47.00	16.50	7.33	7.82	3.07	0.97	11.40	0.85	0.18	0.23	3.08	98.43	1190.	46.	10.
VA02374	134.30	134.70	74.00	11.40	2.37	1.99	2.90	1.33	3.42	0.38	0.08	0.11	1.77	99.75	1270.	39.	5.
VA02375	147.70	148.10	67.40	15.00	2.59	2.27	2.74	2.03	3.95	0.59	0.11	0.17	2.23	99.08	2130.	45.	5.
VA02376	159.00	159.40	67.30	14.50	5.38	1.96	3.29	0.52	4.55	0.61	0.13	0.19	1.85	100.28	531.	22.	9.
VA02377	170.40	170.70	65.70	16.00	2.21	2.30	2.63	2.38	3.93	0.60	0.11	0.12	2.54	98.52	2630.	49.	5.
VA02378	182.40	182.70	67.40	16.00	1.65	2.33	2.11	2.75	3.74	0.58	0.10	0.13	2.39	99.18	3310.	57.	4.
VA02379	191.00	191.50	67.40	16.60	2.19	2.39	2.65	2.33	3.50	0.61	0.11	0.13	2.47	100.38	2400.	49.	5.
VA02380	202.00	202.60	65.90	16.80	2.56	2.35	2.45	2.39	3.69	0.71	0.13	0.16	2.39	99.53	2870.	49.	5.
VA02381	215.00	215.40	67.20	15.90	2.82	2.23	2.87	1.85	3.57	0.72	0.13	0.16	2.00	99.45	2120.	42.	6.
VA02382	228.00	228.40	69.70	14.80	1.54	2.78	1.17	2.65	3.54	0.47	0.08	0.12	2.62	99.47	2440.	67.	3.
VA02383	243.00	243.40	69.40	14.30	1.95	2.82	1.12	2.28	4.43	0.35	0.05	0.10	2.47	99.27	2920.	62.	3.
VA02384	249.50	249.70	46.80	15.10	14.00	3.23	1.32	0.11	11.80	2.50	1.04	0.28	2.77	98.95	101.	18.	15.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02836	15.10	37.10	46.10	15.10	10.00	7.21	2.99	1.00	10.70	0.74			4.54	98.38	1160.	39.	13.
VA02837	133.00	163.00	65.80	14.30	3.72	2.29	1.83	2.36	3.88	0.48			3.08	97.74	2090.	46.	6.
VA02838	163.00	193.00	65.50	15.90	2.62	2.26	2.54	2.15	3.80	0.59			2.62	97.98	2370.	46.	5.
VA02839	193.00	223.00	63.40	14.80	5.89	2.12	2.76	0.75	4.49	0.67			2.77	97.65	1000.	25.	9.
VA02840	223.00	247.10	66.50	14.00	4.76	2.51	1.92	1.27	3.88	0.45			2.62	97.91	1370.	36.	7.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03780	80.60	81.40	4400.0	50.0	100.0	<0.5	<5.0	5.0	16.0	7.0	11.0	<1.0	2.0	292.0	33.	3.	3.
VA03781	81.40	82.00	4700.0	66.0	115.0	<0.5	<5.0	6.0	17.0	13.0	8.0	<1.0	2.0	328.0	36.	3.	3.
VA03782	82.00	83.00	4200.0	45.0	110.0	<0.5	<5.0	6.0	18.0	8.0	6.0	<1.0	2.0	305.0	29.	3.	3.
VA03783	83.00	84.00	5600.0	40.0	110.0	<0.5	<5.0	4.0	15.0	11.0	10.0	<1.0	2.0	298.0	27.	3.	3.
VA03784	84.00	85.70	5300.0	48.0	145.0	<0.5	<5.0	5.0	20.0	17.0	18.0	<1.0	2.0	355.0	25.	3.	3.
VA03785	85.70	86.30	2900.0	113.0	225.0	<0.5	<5.0	25.0	56.0	7.0	35.0	<1.0	3.0	1370.0	33.	5.	6.
VA03786	86.30	87.00	5900.0	56.0	140.0	<0.5	<5.0	5.0	24.0	10.0	14.0	<1.0	1.0	353.0	29.	5.	3.
VA03787	87.00	88.00	5300.0	40.0	108.0	<0.5	<5.0	4.0	19.0	7.0	21.0	<1.0	3.0	336.0	27.	5.	2.
VA03788	88.00	89.00	3700.0	17.0	102.0	<0.5	<5.0	2.0	11.0	8.0	10.0	<1.0	2.0	231.0	14.	5.	2.
VA03789	89.00	90.00	4600.0	37.0	132.0	3.2	<5.0	3.0	22.0	10.0	16.0	<1.0	3.0	432.0	22.	5.	2.
VA03790	90.00	91.00	4100.0	44.0	460.0	1.1	8.0	5.0	20.0	41.0	27.0	2.0	3.0	459.0	9.	5.	3.
VA03791	91.00	92.00	5800.0	32.0	118.0	<0.5	<5.0	3.0	22.0	9.0	11.0	<1.0	3.0	289.0	21.	5.	2.
VA03792	92.00	93.00	4600.0	26.0	128.0	<0.5	<5.0	3.0	17.0	11.0	12.0	<1.0	5.0	535.0	17.	5.	3.
VA03793	93.00	94.00	4600.0	30.0	102.0	0.5	<5.0	3.0	20.0	7.0	20.0	<1.0	3.0	309.0	23.	5.	2.
VA03794	94.00	95.00	4200.0	32.0	120.0	0.6	<5.0	2.0	22.0	8.0	13.0	<1.0	5.0	311.0	21.	5.	2.
VA03795	95.00	96.00	6200.0	23.0	90.0	0.7	<5.0	2.0	14.0	8.0	13.0	<1.0	7.0	821.0	20.	5.	2.
VA03796	96.00	97.00	5200.0	35.0	150.0	1.2	<5.0	3.0	26.0	11.0	18.0	<1.0	7.0	344.0	19.	5.	3.
VA03797	97.00	98.00	2800.0	36.0	122.0	0.8	<5.0	2.0	26.0	9.0	15.0	<1.0	5.0	457.0	23.	5.	2.
VA03798	98.00	99.00	4500.0	31.0	110.0	0.8	<5.0	2.0	20.0	12.0	10.0	<1.0	2.0	217.0	22.	5.	2.
VA03799	99.00	100.00	3900.0	20.0	100.0	0.5	<5.0	<1.0	14.0	9.0	9.0	<1.0	2.0	472.0	17.	5.	1.
VA03800	100.00	101.00	2100.0	31.0	130.0	0.7	<5.0	1.0	22.0	10.0	58.0	<1.0	4.0	277.0	19.	5.	3.
VA03801	101.00	102.00	2100.0	20.0	90.0	<0.5	<5.0	2.0	10.0	8.0	80.0	<1.0	2.0	332.0	18.	5.	2.
VA03802	102.00	103.00	1800.0	19.0	88.0	<0.5	<5.0	1.0	14.0	8.0	11.0	<1.0	3.0	511.0	18.	5.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	EE
VA03803	103.00	104.00	1200.0	23.0	80.0	<0.5	<5.0	1.0	18.0	10.0	10.0	<1.0	3.0	684.0	22.	5.	1.
VA03804	104.00	105.00	1500.0	30.0	157.0	<0.5	<5.0	<1.0	26.0	6.0	12.0	<1.0	4.0	1070.0	16.	5.	2.
VA03805	105.00	105.70	3000.0	30.0	118.0	0.5	<5.0	2.0	22.0	6.0	9.0	<1.0	4.0	872.0	20.	5.	2.
VA03806	105.70	106.00	1000.0	27.0	198.0	0.5	<5.0	17.0	9.0	<5.0	9.0	<1.0	5.0	1041.0	12.	5.	9.
VA03807	106.00	106.40	1700.0	19.0	166.0	<0.5	13.0	6.0	18.0	<5.0	10.0	<1.0	6.0	818.0	10.	5.	3.
VA03808	106.40	107.50	730.0	27.0	190.0	<0.5	<5.0	20.0	6.0	<5.0	42.0	<1.0	5.0	911.0	12.	5.	8.
VA03809	107.50	108.00	4900.0	21.0	70.0	<0.5	<5.0	3.0	8.0	<5.0	9.0	<1.0	3.0	419.0	23.	5.	4.
VA03810	108.00	109.00	4700.0	26.0	100.0	<0.5	<5.0	4.0	16.0	8.0	19.0	<1.0	3.0	300.0	21.	5.	3.
VA03811	109.00	110.00	4000.0	15.0	95.0	<0.5	<5.0	3.0	9.0	<5.0	12.0	<1.0	2.0	233.0	14.	5.	3.
VA03812	110.00	111.00	2800.0	27.0	110.0	<0.5	<5.0	3.0	16.0	9.0	11.0	<1.0	2.0	316.0	20.	5.	3.
VA03813	111.00	112.00	4200.0	20.0	90.0	0.5	<5.0	5.0	8.0	7.0	16.0	<1.0	4.0	398.0	18.	5.	4.
VA03814	112.00	113.00	3000.0	21.0	100.0	<0.5	<5.0	3.0	12.0	6.0	19.0	<1.0	2.0	298.0	17.	5.	2.
VA03815	113.00	114.00	8100.0	27.0	100.0	<0.5	<5.0	7.0	8.0	10.0	12.0	<1.0	3.0	406.0	21.	5.	3.
VA03816	114.00	116.00	4900.0	20.0	90.0	<0.5	<5.0	5.0	7.0	6.0	10.0	<1.0	2.0	408.0	18.	5.	3.
VA03817	116.00	118.00	3400.0	22.0	90.0	<0.5	<5.0	5.0	6.0	7.0	7.0	<1.0	2.0	471.0	20.	5.	3.
VA03818	118.00	120.00	4500.0	25.0	115.0	<0.5	5.0	4.0	15.0	8.0	10.0	<1.0	2.0	382.0	18.	5.	3.
VA03819	120.00	121.00	4000.0	29.0	140.0	0.6	<5.0	4.0	24.0	8.0	13.0	<1.0	2.0	281.0	17.	5.	3.
VA03820	121.00	125.00	2700.0	21.0	110.0	<0.5	<5.0	2.0	20.0	5.0	18.0	<1.0	3.0	740.0	16.	5.	1.
VA03821	125.00	125.80	3600.0	40.0	65.0	<0.5	<5.0	4.0	18.0	22.0	9.0	<1.0	10.0	391.0	38.	5.	3.
VA03822	125.80	126.80	3800.0	12.0	55.0	<0.5	7.0	1.0	5.0	10.0	<5.0	<1.0	1.0	367.0	18.	1.	2.
VA03823	127.50	128.50	3800.0	2.0	42.0	<0.5	<5.0	<1.0	4.0	12.0	<5.0	<1.0	2.0	430.0	5.	1.	2.
VA03824	128.50	129.00	3600.0	35.0	53.0	<0.5	<5.0	4.0	13.0	12.0	11.0	<1.0	3.0	418.0	40.	2.	2.
VA03825	129.00	130.00	3300.0	31.0	290.0	<0.5	38.0	3.0	12.0	58.0	8.0	2.0	4.0	501.0	10.	2.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03826	130.00	131.00	3000.0	2.0	88.0	<0.5	38.0	<1.0	4.0	<5.0	<5.0	<1.0	1.0	432.0	2.	1.	2.
VA03827	131.00	132.00	3000.0	2.0	58.0	<0.5	<5.0	<1.0	2.0	<5.0	<5.0	<1.0	1.0	411.0	3.	1.	2.
VA03828	168.00	169.00	1700.0	26.0	100.0	<0.5	<5.0	3.0	2.0	<5.0	<5.0	<1.0	1.0	501.0	21.	2.	2.
VA03829	169.00	170.00	2000.0	10.0	100.0	<0.5	<5.0	2.0	4.0	5.0	<5.0	<1.0	1.0	504.0	9.	2.	3.
VA03830	174.00	175.00	2100.0	12.0	580.0	<0.5	<5.0	5.0	4.0	12.0	<5.0	2.0	2.0	519.0	2.	3.	2.
VA03831	192.00	192.50	90.0	90.0	2000.0	2.5	7.0	5.0	4.0	18.0	6.0	6.0	2.0	925.0	4.	1.	2.
VA03832	194.00	194.50	2000.0	20.0	142.0	<0.5	<5.0	2.0	4.0	17.0	<5.0	<1.0	1.0	723.0	12.	1.	3.
VA03833	218.50	219.50	370.0	10.0	93.0	<0.5	<5.0	9.0	6.0	6.0	6.0	<1.0	2.0	801.0	10.	1.	3.
VA03834	247.10	248.00	290.0	16.0	72.0	<0.5	<5.0	10.0	5.0	<5.0	5.0	<1.0	9.0	845.0	18.	4.	5.
VA03835	248.00	249.00	250.0	27.0	106.0	0.6	<5.0	19.0	5.0	<5.0	<5.0	<1.0	4.0	1200.0	20.	4.	7.
VA03836	249.00	250.00	130.0	27.0	79.0	<0.5	<5.0	14.0	6.0	<5.0	<5.0	<1.0	3.0	926.0	25.	4.	5.
VA03837	263.70	264.70	3100.0	8.0	420.0	<0.5	<5.0	4.0	5.0	19.0	<5.0	1.0	7.0	639.0	2.	1.	2.
VA03838	264.70	265.50	2400.0	83.0	200.0	2.2	<5.0	20.0	6.0	5.0	10.0	<1.0	7.0	1850.0	29.	5.	7.
VA03839	265.50	266.50	2000.0	19.0	100.0	0.5	<5.0	6.0	10.0	9.0	18.0	<1.0	16.0	1450.0	16.	1.	3.
VA03840	266.50	267.30	6900.0	4.0	102.0	<0.5	<5.0	2.0	4.0	<5.0	<5.0	<1.0	3.0	1130.0	4.	2.	3.
VA03841	267.30	268.60	1500.0	15.0	122.0	<0.5	<5.0	14.0	4.0	5.0	5.0	<1.0	3.0	1830.0	11.	4.	6.
VA03842	268.60	269.40	1200.0	34.0	83.0	1.0	<5.0	5.0	14.0	7.0	<5.0	<1.0	2.0	549.0	29.	4.	4.
VA03843	269.40	270.70	990.0	25.0	70.0	<0.5	<5.0	5.0	10.0	7.0	5.0	<1.0	2.0	448.0	26.	4.	3.
VA03844	270.70	271.70	1500.0	27.0	62.0	0.5	<5.0	5.0	15.0	5.0	<5.0	<1.0	2.0	376.0	30.	4.	3.
VA03845	271.70	272.50	3600.0	4.0	39.0	<0.5	<5.0	2.0	9.0	<5.0	<5.0	<1.0	2.0	213.0	9.	4.	2.

Summary Log: DDH CH88-54
Location: 32+00 E, 0+49 S; Chip 1 Claim
Azimuth: 210, Dip: -45
Hole Completed: May 13, 1988
Core Logged By: D.P. Money

0.0 - 20.2	Casing.
20.2 - 56.0	Intercalated chloritic felsic tuffs and chlorite schists.
56.0 - 68.5	Feldspar porphyritic felsic flow.
68.5 - 99.1	Gabbro.
99.1 - 104.5	Quartz porphyritic felsic flow.
104.5 - 107.9	Major thrust fault.
107.9 - 115.6	Nanaimo Group argillite.
115.6 - 152.5	Nanaimo Group, Benson Formation basal conglomerate.
152.5 - 194.9	Hornblende phyric mafic lapilli tuff.
194.9 - 235.3	Intercalated andesitic tuffs and chert beds.
235.3 - 244.3	Mafic ash tuff.
244.3 - 250.0	Cherty felsic tuffite.
250.0 - 257.2	Andesitc tuffs with interbedded chert and argillite.
257.2 - 258.6	Gabbro.
258.6 - 291.7	Mafic to andesitic tuffs with interbeds of chert and argillite, with up to 2 % fracture controlled pyrite in the sediments.
291.7	End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-54 | Page Number 1

Hole Location: 32+00 E 0+49 S

NTS: 092B/13W UTM: 5416783.6 N 430468.2 E
Azimuth: 210 Elevation: 549 m
Dip: -45 Length: 291.7 m

Started: May 9, 1988
Completed: May 13, 1988

Claim No. Chip 1
Section No.: Section 32+00 East, Chip Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test for 'active tuff' north of the fault. DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
29.60	211.0	-42.0	188.10	216.0	-41.0
93.60	215.0	-41.0	275.50	216.0	-36.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	20.2	OVERBURDEN											
20.2	23.9	CHLORITE SCHIST Medium to dark green chlorite schist with 2 to 3 % fracture controlled and parallel to foliation carbonatization. There are approximately 3 % calcite - epidote grains, up to 5 mm. There is felsic tuff from 23.5 to 23.8. 20.2 23.9 WEAK FRACTURE CONTROLLED CARBONATIZATION. Lost core :. 20.4 23.5 : 0.5 m. Foliation :. 20.4 : 60 degrees to core axis. 23.3 : 57 degrees to core axis.	VA01098	20.2	23.9	3.7	n/a	109	n/a	88	n/a	n/a	506
23.9	24.7	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Chlorite - sericite schist with 10 %, 2 mm, quartz eyes and 10 to 15 %, 2 to 3 mm, epidote grains. Foliation and lower contact are at 68 degrees to core axis.											
24.7	42.5	WEAKLY CHLORITIC FELSIC TUFF Chloritic felsic tuff, weakly to moderately chloritic with 3 to 15 % chlorite. Is fine-grained with up to 15 %, up to 1 mm, epidote to feldspar grains and up to 5 %, 3 mm, quartz eyes. Average crystal content is approximately 10 %. Is locally contorted with moderate kinking and minor chlorite schist with strong carbonatization. Is very disky and broken into 'poker chips'. There is trace disseminated pyrite locally.	VA01099	24.7	42.5	17.8	n/a	<10	n/a	<10	n/a	n/a	1100

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-54 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		24.7 42.5 WEAK PERVASIVE CHLORITIZATION. Lost core :. 32.6 34.7 : 0.5 m. 34.7 36.3 : 0.6 m. 36.3 37.7 : 0.3 m. Foliations :. 26.3 : 73 degrees to core axis. 30.1 : 65 degrees to core axis. 32.6 : 84 degrees to core axis. 37.8 : 72 degrees to core axis. 41.9 : 54 degrees to core axis.											
42.5	47.2	CHLORITE SCHIST Strongly contorted and kinked chlorite schist with minor local sericite - chlorite schist. There weak fracture controlled carbonatization and trace to 0.25 % disseminated pyrite, as up to 1 cm cubes. 42.5 47.2 WEAK FRACTURE CONTROLLED CARBONATIZATION.	VA01100	42.5	47.2	4.7	n/a	48	n/a	76	n/a	n/a	828
			VA01861	42.5	44.0	1.5	1	88	<5	143	<1	<5	900
			VA01862	44.0	45.5	1.5	1	93	8	118	<1	5	670
			VA01863	45.5	47.2	1.7	1	45	<5	52	<1	<5	1100
47.2	55.5	INTERMEDIATE FELDSPAR CRYSTAL TUFF Andesitic ash tuff to chlorite schist with on average 15 % epidotized feldspars, 1 to 3 mm. Is locally very contorted with moderate pervasive carbonatization as white streaks. On average there is 3 %, 3 mm, quartz eyes. There is local trace disseminated pyrite cubes, up to 3 mm. Folds are primarily 'Z' folds. Foliation trend varies from approximately 50 to 70 degrees to core axis. Alteration :. 47.2 55.5 MODERATE PERVASIVE CARBONATIZATION.	VA01101	47.2	55.5	8.3	n/a	89	n/a	40	n/a	n/a	256
55.5	56.6	FAULT ZONE Felsic and mafic fault gouge and grey clay at 80 to 90 degrees to core axis. Lost core :. 55.5 57.9 : 0.2 m.											
56.6	68.5	FELDSPAR PORPHYRITIC FELSIC FLOW Light grey to green massive and blocky siliceous felsic flow with 5 to 7 %, 2 to 4 mm, feldspar to epidotized feldspar grains. There is minor fault gouge throughout. From 65.1 to 68.5, there is weak thermal biotite and weak schistosity at approximately 65 to 70 degrees to core axis. There is trace to nil disseminated pyrite as < 1 mm cubes. Lost core :. 57.9 58.5 : 0.3 m. 58.5 60.0 : 0.6 m.	VA01102	56.6	68.5	11.9	n/a	11	n/a	<10	n/a	n/a	655

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-54 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		61.9 63.1 : 0.2 m. 63.1 64.5 : 0.6 m. 66.4 66.8 : 0.2 m. 66.8 68.9 : 0.3 m.											
68.5	99.1	MAFIC INTRUSIVE Gabbro (?). Blocky and massive. Is medium green with 3 % fracture controlled calcite veinlets at all orientations. There is on average 1 to 2 %, 2 mm, feldspars and 5 to 7 %, < 1 mm, chlorite after (?). There is approximately 2 to 3 % leucoxene. Upper contact at fault at 46 degrees to core axis and lower contact at blocky, highly fractured core. There is minor fault gouge at 76.8, 81.2 and 82.6. Lost core :. 68.9 70.4 : 0.2 m. 73.2 74.4 : 0.3 m. 74.4 75.3 : 0.2 m. 75.6 76.8 : 0.3 m. 81.2 82.9 : 0.3 m. 82.9 83.4 : 0.3 m. 83.4 84.4 : 0.6 m. 84.4 85.3 : 0.2 m. 85.3 86.6 : 0.3 m. 94.2 95.1 : 0.2 m. 97.5 99.1 : 0.1 m.	VA01103	68.5	99.1	30.6	n/a	225	n/a	55	n/a	n/a	140
99.1	104.5	QUARTZ PORPHYRITIC FELSIC FLOW Felsic flow or silicified felsic tuff with 5 to 7 %, 3 to 4 mm, quartz eyes. There is moderate fracture controlled quartz veinlets. Is blocky, highly fractured core. Weak foliation at 55 degrees to core axis. Lost core :. 101.8 103.5 : 0.1 m.	VA01104	99.1	104.5	5.4	n/a	<10	n/a	<10	n/a	n/a	1360
104.5	107.9	FAULT ZONE Mafic blocky, highly fractured core with minor fault gouge to 106.7 and Nanaimo argillite after. Fault gouge is at 75 degrees to core axis. Lost core :. 104.5 105.2 : 0.3 m. 105.8 107.0 : 0.5 m. 107.0 107.9 : 0.7 m.											
107.9	115.6	NANAIMO ARGILLITE Soft brown argillite with fault gouge to 113.5. Is very fine-grained with 3 to 5 % fracture controlled calcite veinlets. There is foliation at 50 degrees to core axis	VA01105	108.0	115.6	7.6	n/a	977	n/a	1050	n/a	n/a	733

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		at 115.2, may be bedding. Lost core :. 107.9 109.6 : 0.2 m.											
115.6	152.5	NANAIMO CONGLOMERATE Namaimo conglomerate to locally greywacke to sandstone. Clasts vary locally in size and quantity. To 136.0 there are trace clasts except for minor local 10 cm zones, probably minor stream channels. Clasts to 136 are rounded pebbles, up to 2 cm of white chert and black argillite. Matrix is medium to dark grey and siliceous. From 136.0 to 146.0 there are numerous 0.5 to 1 m clast rich beds with 40 % argillite, 40 % chert and 20 % gabbro and mafic tuff clasts. To 150.3 is all clast rich with similiar % as from 136 to 146 with pebble to cobble sized clasts, rounded up to 5 cm. From 150.3 to 152.5 is a dark green to black chloritic matrix with mafic tuff and minor gabbro large pebbles and cobbles. There is trace to 1 % fracture controlled calcite veinlets in the matrix. Argillite clasts have trace to 2 % fracture controlled pyrite. Bedding :. 122.3 : 45 degrees to core axis. 147.5 : 51 degrees to core axis. Foliation :. 140.6 : 48 degrees to core axis. Fault slippage :. 151.1 : 56 degrees to core axis. 152.5 : 41 degrees to core axis with 4 cm fault gouge. Lost core :. 151.5 153.3 : 0.3 m.												
152.5	194.9	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF Dark to medium green mafic tuff with on average 7 %, mafic crystals, < 1 mm, hornblende (?). Locally there are up to 20 %, average 3 to 5 %, concretionary epidote lapilli, round and 2 to 4 mm. There is local spotty epidotization or selective alteration of clasts. There is moderate fracture controlled carbonatization and strong local pervasive chloritization. There are minor fault slips and quartz - calcite veinlets. Is massive with no observable bedding, debris flow (?). Nil to trace disseminated pyrite occurs. Lapilli are up to 1.5 cm. Alteration :. 163.5 173.0 STRONG SPOTTY EPIDOTIZATION. 183.4 185.2 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 191.5 194.9 WEAK FRACTURE CONTROLLED CARBONATIZATION. 152.5 169.5 STRONG SPOTTY CHLORITIZATION. Faults :.	VA01106	152.5	165.0	12.5	n/a	988	n/a	2050	n/a	n/a	391
			VA01107	165.0	180.0	15.0	n/a	331	n/a	129	n/a	n/a	239
			VA01108	180.0	194.9	14.9	n/a	231	n/a	56	n/a	n/a	406

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		184.2 185.0 3 cm fault gouge at 0 to 21 degrees to core axis. Lost core :. 162.0 163.7 : 0.2 m. 192.3 194.2 : 0.3 m. Foliations :. 156.0 : 56 degrees to core axis. 168.4 : 64 degrees to core axis. 173.6 : 60 degrees to core axis. 180.7 : 47 degrees to core axis. 185.4 : 39 degrees to core axis. 188.3 : 59 degrees to core axis. Whole rock samples :. 161.2 161.4 Epidotized lapilli or epidotization with minor hornblende and epidotized feldspar crystals. 168.3 168.4 8 % epidote concretionary lapilli and 5 % hornblendes in green chloritic matrix. 179.0 179.1 10 to 15 %, chloritized hornblendes in fine-grained medium green matrix. 186.9 187.0 Fine-grained dark green with approximately 15 %, << 1 mm, hornblendes and trace disseminated pyrite.											
194.9	235.3	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Fine-grained medium green to brown andesitic tuff with minor 1 to 4 mm green and white chert beds. There are trace minor fracture controlled calcite veinlets. Upper contact is at quartz - biotite vein. There is on average 2 to 3 %, up to 1 mm, quartz eyes and locally up to 5 %, 1 mm, epidotized feldspars and or chlorite after hornblende. Thermal biotite occurs locally and is strong from 232.2 to 235.3. There is local weak fracture controlled silicification and chloritization. There is local fracture controlled pyrite in the sediments. Bedding :. 194.9 Tightly folded bed with fold axis at 76 degrees to core axis. 197.5 : 21 degrees to core axis. 212.7 : 24 degrees to core axis. 222.0 : 36 degrees to core axis. 226.3 : 46 degrees to core axis. 230.4 : 49 degrees to core axis. Lost core :. 213.0 214.0 : 0.2 m.	VA01109	200.0	230.0	30.0	n/a	224	n/a	58	n/a	n/a	1550
			VA01864	224.0	225.0	1.0	1	80	<5	85	<1	<5	750
			VA01865	225.0	226.0	1.0	1	87	<5	148	<1	<5	300
			VA01866	226.0	227.0	1.0	1	3200	5	740	<1	24	630
			VA01867	227.0	228.0	1.0	1	128	7	240	4	<5	390
			VA01868	231.0	232.0	1.0	1	140	5	118	<1	7	500
			VA01869	232.0	233.0	1.0	1	97	<5	140	<1	<5	1900
			VA01870	233.0	234.0	1.0	1	95	8	120	<1	<5	1700
			VA01871	234.0	235.9	1.9	1	118	<5	100	<1	<5	1500
235.3	244.3	MAFIC PORPHYRITIC MAFIC ASH TUFF Variably bleached light to medium green mafic tuff with 5 to 20 %, average approximately 12 %, 1 to 2 mm, chloritized hornblendes. There are minor local fracture	VA01110	235.3	244.3	9.0	n/a	122	n/a	46	n/a	n/a	736
			VA01873	241.5	242.0	.5	1	135	<5	72	<1	<5	1400
			VA01872	243.8	244.3	.5	1	400	<5	90	1	<5	1200

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-54 Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		controlled calcite and fracture controlled biotite veinlets. At 244.3 there is chalcopyrite in a quartz veinlets, 2 to 3 % over 5 to 7 cm. Is massive with weak foliation at 51 to 52 degrees to core axis. At 241.8 there is a 7 to 10 mm quartz veinlet with 30 % sphalerite and 10 % chalcopyrite.											
244.3	250.0	CHERT Grey to brown cherty felsic tuffite or chert. Hosts nil to 25 %, 1 to 2 mm, quartz eyes locally, average 5 %. There are trace local quartz lapilli, up to 2 cm. There is trace local fracture controlled pyrite. Foliations :. 247.0 : 37 degrees to core axis. 248.1 : 43 degrees to core axis. 249.6 : 52 degrees to core axis. Bedding :. 245.8 : 63 degrees to core axis. 249.5 : 58 degrees to core axis.	VA01111	244.3	250.0	5.7	n/a	172	n/a	21	n/a	n/a	717
250.0	257.2	INTERMEDIATE TUFFS WITH MINOR CHERTY SEDIMENTS Brown to green andesitic tuff, brecciated with argillite and chert beds. Foliation and bedding vary from 0 to 60 degrees to core axis. There are up to 25 % crystals, feldspar and quartz.	VA01112	250.0	257.0	7.0	n/a	86	n/a	76	n/a	n/a	1730
257.2	258.6	FELDSPAR PORPHYRITIC GABBRO Dark green gabbro with 5 to 10 %, 3 mm, feldspars and 3 %, < 1 mm, leucoxene. There is minor fracture controlled calcite veinlets.											
258.6	261.6	MAFIC LAPILLI TUFF Brecciated mafic with minor brown carbonate spots and strong fracture controlled quartz and calcite veins. Lapilli are up to 4 cm. Is brown to green tuff with minor, up to 3 %, mafic crystals. There is trace to 1 % fracture controlled pyrite. There is no structure, in situ brecciation probably.	VA01113 VA01874 VA01875	258.6 258.6 260.0	261.6 260.0 261.6	3.0 1.4 1.6	n/a 1 1	215 106 132	n/a <5 <5	46 80 82	n/a <1 <1	n/a <5 <5	431 150 570
261.6	266.8	CHERT Grey chert and cherty tuffite. Locally up to 5 %, 1 mm, quartz eyes. There is very weak local fracture controlled sericitization and quartz veinlets. Bedding :. 264.5 : 49 degrees to core axis. 266.3 : 48 degrees to core axis.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
266.8	291.7	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Brown to green andesitic to mafic crystal to ash tuffs	VA01114	267.0	291.7	24.7	n/a	127	n/a	50	n/a	n/a	1390
		with cherty argillite and green to white cherts. Variable	VA01876	279.0	280.0	1.0	1	132	<5	162	<1	8	360
		crystal content in tuff, averages 5 %, feldspars,	VA01877	280.0	281.0	1.0	2	90	5	130	<1	5	740
		hornblende and minor quartz eyes. Is approximately 30 %	VA01878	281.0	282.0	1.0	2	102	32	173	1	5	2100
		sediments, equal chert and argillite. Thermal biotite is	VA01879	282.0	283.0	1.0	1	100	24	123	<1	<5	2100
		strong locally and dominantly absent. There is up to 2 %	VA01880	288.6	289.1	.5	0	119	13	95	<1	<5	1000
		fracture controlled pyrite in the sediments. Sediment beds	VA01881	290.0	291.7	1.7	1	70	13	107	<1	<5	1400
		vary from < 1 cm to approximately 50 cm.											
		Bedding :.											
		275.6 : 53 degrees to core axis.											
		278.4 : 58 degrees to core axis.											
		290.0 : 54 degrees to core axis.											
		Faults :.											
		Locally at 0 to 20 degrees to core axis with up to 20 cm											
		displacements perpendicular to bedding.											
		Lost core :.											
		270.4 271.3 : 0.3 m.											
		Tops :.											
		275.0 277.0 Fining in up to 5 mm green chert beds indicates tops uphole.											
		290.0 290.5 Chert beds with fining and thus tops uphole.											
		End of hole: 957 feet (291.7 m) on Friday May 13, 1988 at 12:00 p.m.											
		Total lost core: 10.2 m % Recovery = 96.5%.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	N
VA00655	23.40	23.50	47.50	17.30	8.20	4.92	2.88	0.96	10.30	0.80	0.14	0.23	6.23	99.46	460.	35.	
VA00656	24.60	24.70	64.20	12.40	6.28	1.87	0.18	2.57	5.78	0.24	0.06	0.13	5.00	98.71	1290.	41.	
VA00657	26.20	26.30	67.90	13.80	4.37	1.09	0.35	3.94	2.91	0.26	0.06	0.08	4.85	99.61	1100.	52.	
VA00658	37.90	38.00	69.00	13.30	2.68	1.97	4.01	1.53	2.99	0.34	0.08	0.10	2.85	98.85	821.	34.	
VA00659	48.90	49.00	48.00	17.30	5.60	6.16	4.67	0.20	9.69	0.70	0.12	0.20	5.93	98.57	130.	38.	
VA00660	61.00	61.10	65.30	16.70	3.05	1.90	6.68	0.42	2.73	0.38	0.30	0.06	1.47	98.99	352.	19.	
VA00661	79.50	79.60	44.80	12.30	11.40	6.21	2.00	0.29	13.10	1.82	0.16	0.19	6.00	98.27	83.	33.	
VA00662	100.90	101.00	71.00	13.90	1.34	1.01	3.85	4.00	1.60	0.26	0.08	0.03	1.54	98.61	1300.	49.	
VA00663	161.30	161.40	41.80	20.40	11.30	5.23	1.22	0.49	12.10	1.01	0.12	0.22	4.23	98.12	153.	31.	
VA00664	168.30	168.40	44.20	16.70	7.05	8.02	3.39	0.05	10.90	0.86	0.23	0.22	6.39	98.01	101.	44.	
VA00665	179.00	179.10	41.90	14.40	11.30	10.90	0.87	0.10	15.30	0.98	0.27	0.25	3.62	99.89	79.	47.	
VA00666	186.90	187.00	48.50	16.90	4.51	7.63	4.61	0.28	11.40	1.00	0.17	0.21	3.08	98.29	283.	46.	
VA00667	195.80	195.90	49.30	15.90	7.48	7.64	3.45	1.02	9.99	0.78	0.17	0.19	2.62	98.54	919.	44.	
VA00668	242.00	242.10	44.90	16.80	8.66	8.23	2.58	0.52	12.50	0.90	0.18	0.24	3.08	98.59	938.	44.	
VA00669	257.60	257.70	46.00	12.40	11.80	5.66	1.94	0.66	10.90	1.56	0.15	0.16	8.77	100.00	639.	32.	
VA00670	266.30	266.40	55.20	18.00	1.52	6.90	5.74	0.56	7.13	0.73	0.24	0.08	3.54	99.64	960.	51.	

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01098	20.20	23.90	48.40	16.90	7.22	4.71	3.06	1.42	9.68	0.73			6.23	98.35	506.	37.	10.
VA01099	24.70	42.50	68.10	13.30	3.43	1.41	2.44	2.61	3.01	0.28			3.70	98.28	1100.	41.	6.
VA01100	42.50	47.20	49.20	16.80	6.34	5.03	1.75	2.59	9.05	0.67			7.54	98.97	828.	49.	8.
VA01101	47.20	55.50	47.40	15.70	7.70	5.96	3.31	0.50	9.91	0.66			7.47	98.61	256.	37.	11.
VA01102	56.60	68.50	69.60	13.60	3.20	1.46	4.25	1.32	2.95	0.29			2.54	99.21	655.	27.	7.
VA01103	68.50	99.10	46.80	12.90	10.50	6.73	2.07	0.36	13.50	1.85			3.62	98.33	140.	36.	13.
VA01104	99.10	104.50	71.10	13.40	2.12	1.11	3.40	3.87	1.67	0.22			2.39	99.28	1360.	47.	6.
VA01105	108.00	115.60	52.00	16.40	5.59	3.17	1.61	2.32	8.01	0.83			8.00	97.93	733.	43.	7.
VA01106	152.50	165.00	42.40	22.10	8.66	4.49	1.57	1.46	11.90	0.95			4.77	98.30	391.	37.	10.
VA01107	165.00	180.00	45.40	17.50	6.72	7.28	3.22	0.52	11.60	0.93			4.62	97.79	239.	44.	10.
VA01108	180.00	194.90	45.60	12.80	11.50	7.88	2.68	0.47	10.30	0.68			8.00	99.91	406.	37.	14.
VA01109	200.00	230.00	49.90	16.30	5.93	6.94	3.66	2.21	9.51	0.80			2.62	97.87	1550.	49.	10.
VA01110	235.30	244.30	44.10	15.60	13.30	6.90	1.90	0.51	11.10	0.77			3.54	97.72	736.	33.	15.
VA01111	244.30	250.00	58.40	15.80	2.24	6.66	4.90	0.69	7.06	0.63			2.93	99.31	717.	51.	7.
VA01112	250.00	257.00	47.00	13.70	13.90	6.22	1.48	2.25	7.97	0.55			5.54	98.61	1730.	36.	15.
VA01113	258.60	261.60	46.20	15.60	6.36	6.88	3.07	1.00	10.60	0.83			8.16	98.70	431.	46.	9.
VA01114	267.00	291.70	48.60	16.10	6.19	7.00	3.13	2.53	9.85	0.82			3.54	97.76	1390.	51.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01861	42.50	44.00	900.0	88.0	143.0	<0.5	<5.0	18.0	16.0	<5.0	13.0	<1.0	3.0	1420.0	38.	1.	5.
VA01862	44.00	45.50	670.0	93.0	118.0	<0.5	5.0	22.0	18.0	8.0	5.0	<1.0	3.0	1460.0	44.	1.	6.
VA01863	45.50	47.20	1100.0	45.0	52.0	<0.5	<5.0	13.0	10.0	<5.0	<5.0	<1.0	3.0	690.0	46.	1.	3.
VA01864	224.00	225.00	750.0	80.0	85.0	<0.5	<5.0	19.0	34.0	<5.0	<5.0	<1.0	2.0	653.0	48.	1.	4.
VA01865	225.00	226.00	300.0	87.0	148.0	<0.5	<5.0	17.0	28.0	<5.0	5.0	<1.0	2.0	550.0	37.	1.	5.
VA01866	226.00	227.00	630.0	3200.0	740.0	<0.5	24.0	23.0	30.0	5.0	<5.0	8.0	2.0	769.0	81.	1.	6.
VA01867	227.00	228.00	390.0	128.0	240.0	4.3	<5.0	21.0	26.0	7.0	9.0	1.0	2.0	1140.0	35.	1.	6.
VA01868	231.00	232.00	500.0	140.0	118.0	<0.5	7.0	25.0	22.0	5.0	8.0	<1.0	2.0	926.0	54.	1.	6.
VA01869	232.00	233.00	1900.0	97.0	140.0	<0.5	<5.0	22.0	32.0	<5.0	5.0	<1.0	2.0	974.0	41.	1.	6.
VA01870	233.00	234.00	1700.0	95.0	120.0	<0.5	<5.0	25.0	40.0	8.0	5.0	<1.0	2.0	850.0	44.	1.	7.
VA01871	234.00	235.90	1500.0	118.0	100.0	<0.5	<5.0	26.0	30.0	<5.0	<5.0	<1.0	2.0	870.0	54.	1.	6.
VA01873	241.50	242.00	1400.0	135.0	72.0	<0.5	<5.0	25.0	26.0	<5.0	<5.0	<1.0	1.0	849.0	65.	1.	5.
VA01872	243.80	244.30	1200.0	400.0	90.0	0.8	<5.0	28.0	28.0	<5.0	6.0	<1.0	1.0	817.0	82.	1.	6.
VA01874	258.60	260.00	150.0	106.0	80.0	<0.5	<5.0	28.0	44.0	<5.0	12.0	<1.0	2.0	1170.0	57.	1.	7.
VA01875	260.00	261.60	570.0	132.0	82.0	<0.5	<5.0	30.0	32.0	<5.0	6.0	<1.0	2.0	1290.0	62.	1.	7.
VA01876	279.00	280.00	360.0	132.0	162.0	<0.5	8.0	22.0	20.0	<5.0	<5.0	<1.0	2.0	967.0	45.	1.	6.
VA01877	280.00	281.00	740.0	90.0	130.0	<0.5	5.0	21.0	32.0	5.0	5.0	<1.0	2.0	818.0	41.	2.	6.
VA01878	281.00	282.00	2100.0	102.0	173.0	0.5	5.0	37.0	34.0	32.0	6.0	<1.0	8.0	1200.0	37.	2.	7.
VA01879	282.00	283.00	2100.0	100.0	123.0	<0.5	<5.0	32.0	30.0	24.0	5.0	<1.0	<1.0	950.0	45.	1.	6.
VA01880	288.60	289.10	1000.0	119.0	95.0	<0.5	<5.0	37.0	23.0	13.0	12.0	<1.0	<1.0	840.0	56.	0.	5.
VA01881	290.00	291.70	1400.0	70.0	107.0	<0.5	<5.0	22.0	40.0	13.0	<5.0	<1.0	<1.0	400.0	40.	1.	4.

Summary Log: DDH CH88-55
Location: 30+00 E, 3+60 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 13, 1988
Core logged by: J. Pattison

0.0 -	3.7	Casing
3.7 -	59.7	Feldspar porphyritic gabbro
59.7 -	71.9	Granophyric coarse-grained gabbro 10 to 15 % ilmenite in clumps up to 5 mm in diameter. A 2.5 m interval contains 3-4 % disseminated chalcopyrite.
71.9 -	79.1	Feldspar porphyritic gabbro
79.1 -	82.2	Granophyric ilmenite-rich gabbro
82.2 -	215.5	Feldspar porphyritic gabbro

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-55 Page Number 1

Hole Location: 30+00 E 3+60 S

NTS: 92B13 UTM: 5416632.4 N 430152.7 E
Azimuth: 210 Elevation: 538 m
Dip: -45 Length: 215.5 m

Started: 10-May-88
Completed: 13-May-88

Claim No. Chip 1
Section No.: 30+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ

Purpose: To test 44 msec IP anomaly at 4+40 S

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
12.20	212.0	-45.0	215.50	217.0	-45.0
111.90	213.0	-45.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.7	CASING 0.3 M of overburden then into GABBRO.											
3.7	59.7	FELDSPAR PORPHYRITIC GABBRO Massive dark green, fine to medium-grained gabbro with 10 % feldspar phenocrysts and 2 % interstitial ilmenite. Ilmenite is partially altered to leucoxene. Occasional quartz +/- carbonate fracture. STRUCTURE:. 42.9-43.2 M fault zone at 55 degrees to core axis.											
59.7	71.9	MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO Massive, coarse to medium-grained granophyric gabbro, all mafic minerals have gone to chlorite. 10-15% interstitial ilmenite as anhedral patches up to 0.5 cm in diameter partially altered to leucoxene and 0.5 to 1 % disseminated chalcopyrite and pyrite often associated with the ilmenite. Weak fracture controlled and pervasive carbonatization. Lower contact is sharp at 55 degrees to core axis.	VA03846	65.2	66.2	1.0	1	400	<5	120	<1	12	280
			VA03847	66.2	66.8	.6	1	2000	<5	130	1	50	<20
			VA03848	66.8	68.1	1.3	1	840	<5	116	<1	6	210
			VA03849	68.1	69.0	.9	4	5800	<5	170	3	236	290
			VA03850	69.0	70.0	1.0	4	6300	<5	170	3	112	400
			VA03851	70.0	70.6	.6	4	2900	<5	132	1	41	310
			VA03852	70.6	71.1	.5	1	2600	<5	118	1	45	60
			VA03853	71.1	71.9	.8	1	725	<5	108	<1	13	30
		66.2 66.8 Intrusive breccia zone; angular breccia fragments up to 5.0 cm in diameter sit in a white, carbonate-rich matrix. 1 % disseminated chalcopyrite.											
		66.8 68.1 0.5 % disseminated chalcopyrite.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-55 Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	68.1	70.6 3-4 % disseminated chalcopyrite associated with carbonate-filled fractures. There are several barren quartz +/- carbonate veins up to 10 cm wide at 40-50 degrees to core axis.											
	70.6	71.9 Becomes finer grained, moderately carbonatized and chloritized and there is weak epidote alteration centred on feldspar phenocrysts. 1 % disseminated chalcopyrite.											
71.9 -	79.1	FELDSPAR PORPHYRITIC GABBRO Fine-grained massive gabbro with 10 %, 2-5 mm feldspars and 3 % interstitial ilmenite partially altered to leucoxene. Locally weakly glomeroporphyritic. Lower contact is gradational. STRUCTURE:. 74.0-74.6 M blocky, highly fractured core. 0.2 of lost core At 77.2 1.0 cm fault gouge at 25 degrees to core axis.	VA03854	71.9	72.9	1.0	1	155	<5	61	<1	40	60
79.1	82.2	MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO Medium to coarse-grained gabbro with 10 % coarse interstitial ilmenite and 0.25 % chalcopyrite. Weak patchy epidote alteration. 0.2 m quartz vein at 60 degrees to core axis at the lower contact.											
82.2	131.0	FELDSPAR PORPHYRITIC GABBRO As 71.9 to 79.1 m. 5 % disseminated ilmenite. Ilmenite occurs in patches < 4 mm in diameter. Quartz-carbonate filled fractures are common and often contain biotite along their margins. Ilmenite rich coarse-grained interval (>10% ilmenite) between 87.8 and 88.1 m. STRUCTURE:. 0.5 Cm fault gouge at 65 degrees to core axis.												
	101.0	101.7 Xenolith (?) of mafic feldspar crystal tuff. Composed of 20% 2-4 mm feldspar crystals in a fine-grained dark grey-brown mafic matrix. No ilmenite. Upper and lower contacts are sharp at 65-70 degrees to core axis.											
	108.6	109.5 Quartz vein with trace disseminated chalcopyrite at 50-60 degrees to core axis.											
	119.6	120.3 Fine-grained non feldspar porphyritic phase of the gabbro runs along the edge of the core.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-55 | Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		129.6 130.1 Many quartz +/- carbonate filled fractures and gashes up to 5.0 cm wide. Nil sulphides.											
131.0	132.3	MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO As 79.1 to 82.2 m. 10 % ilmenite and 1 % chalcopyrite. Upper and lower contacts are gradational.	VA03855	131.2	132.3	1.1	1	843	<5	90	<1	7	60
132.3	162.7	FELDSPAR PORPHYRITIC GABBRO As 71.9 to 79.1 m. 0.2 m weakly sheared quartz-carbonate flooded zone at 55 degrees to core axis at the lower contact. STRUCTURE:. At 156.6 m slip at 60 degrees to core axis. 137.8 138.3 COARSE-GRAINED GRANOPHYRIC ILMENITE RICH GABBRO with 10 % ilmenite and 0.5 % chalcopyrite. 148.4 150.6 0.4 m of lost core. The core is somewhat blocky but no obvious reason for the core loss 152.6 888.8 1.0 cm wide quartz-carbonate vein at 36 degrees to core axis with 5 % sphalerite (?) or possibly biotite. 152.6 153.5 Blocky, highly fractured core. 156.2 156.3 Quartz vein at 80 degrees to core axis with chlorite filled fractures.											
162.7	165.4	MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO As 79.1 to 82.2 m. 10 % ilmenite and 0.5 to 1 % disseminated chalcopyrite. Lower contact is gradational.											
165.4	215.5	FELDSPAR PORPHYRITIC GABBRO Fine to medium-grained feldspar porphyritic gabbro. Locally weakly glomeroporphyritic. 3-5% Interstitial fine medium-grained ilmenite. Quartz-carbonate healed fractures and gashes are common. Becomes medium to coarse-grained below 213.6 m. STRUCTURE:. At 210.0 1.0 cm brittle fault zone at 65 degrees to core axis. Core is blocky for 0.5 m on downhole side of fault. 0.1 m of lost core.												

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-55

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
202.9	203.3	Blocky, highly fractured core. 0.2 m of lost core.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02385	50.20	50.40	48.60	14.90	11.10	6.62	2.07	0.39	12.30	1.60	0.15	0.19	1.54	99.46	187.	35.	13.
VA02386	65.60	65.80	48.20	11.30	7.58	3.68	2.24	0.35	19.50	3.98	0.38	0.30	2.23	99.74	438.	29.	10.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03846	65.20	66.20	280.0	400.0	120.0	<0.5	12.0	23.0	15.0	<5.0	<5.0	<1.0	3.0	453.0	77.	1.	7.
VA03847	66.20	66.80	<20.0	2000.0	130.0	1.0	50.0	28.0	19.0	<5.0	11.0	1.0	4.0	511.0	94.	1.	7.
VA03848	66.80	68.10	210.0	840.0	116.0	<0.5	6.0	22.0	12.0	<5.0	8.0	<1.0	3.0	437.0	88.	1.	7.
VA03849	68.10	69.00	290.0	5800.0	170.0	3.2	236.0	33.0	20.0	<5.0	<5.0	3.0	4.0	567.0	97.	4.	8.
VA03850	69.00	70.00	400.0	6300.0	170.0	3.4	112.0	36.0	24.0	<5.0	<5.0	3.0	4.0	543.0	97.	4.	7.
VA03851	70.00	70.60	310.0	2900.0	132.0	1.4	41.0	34.0	36.0	<5.0	<5.0	2.0	3.0	690.0	96.	4.	7.
VA03852	70.60	71.10	60.0	2600.0	118.0	1.4	45.0	29.0	20.0	<5.0	<5.0	2.0	4.0	424.0	96.	1.	7.
VA03853	71.10	71.90	30.0	725.0	108.0	<0.5	13.0	30.0	32.0	<5.0	5.0	<1.0	3.0	509.0	87.	1.	7.
VA03854	71.90	72.90	60.0	155.0	61.0	<0.5	40.0	20.0	40.0	<5.0	5.0	<1.0	3.0	453.0	72.	1.	4.
VA03855	131.20	132.30	60.0	843.0	90.0	<0.5	7.0	18.0	23.0	<5.0	<5.0	<1.0	7.0	420.0	90.	1.	5.

Summary Log: DDH CH88-56
Location: 31+00 E, 0+01 N; Chip 1 Claim
Azimuth: 210, Dip: -55
Hole Completed: May 20, 1988
Core Logged By: D.P. Money

0.0 - 15.8	Casing.
15.8 - 104.5	Chloritic felsic crystal tuffs with minor chlorite schists, up to 1 m.
104.5 - 121.0	Mafic ash tuff.
121.0 - 139.3	Feldspar phyric felsic flow.
139.3 - 147.6	Gabbro.
147.6 - 148.5	Major thrust fault.
148.5 - 182.8	Nanaimo Group argillite, greywacke and conglomerate.
182.8 - 186.6	Andesitic flow with 2 % disseminated pyrite.
186.6 - 210.6	Gabbro.
210.6 - 234.4	Felsic crystal tuffs with tr to 7 % pyrite locally concentrated on fractures.
234.4 - 255.6	Gabbro.
255.6 - 314.7	Felsic crystal and lapilli tuffs with on average 1 % disseminated pyrite.
314.7 - 329.1	Gabbro.
329.1 - 432.7	Felsic crystal and lapilli tuffs with weak disseminated pyrite throughout and 20 % pyrite from 357.2 to 360.5. From 425.9 to 432.7 there is 1 to 30 % sphalerite, trace to 10 % galena, trace to 5 % chalcopyrite and on average 10 % pyrite. The sulphides are banded with up to 30 cm locally of semi-massive to massive spalerite and galena, and pyrite and chalcopyrite.
432.7 - 443.9	Mafic tuffs.
443.9 - 454.3	Hornblende phyric mafic tuff or flow.
454.3 - 485.3	Mafic crystal to ash tuffs with minor interbedded green ribbon cherts.
485.3 - 486.8	Cherty greywacke.
486.8	End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 Page Number 1

Hole Location: 31+00 E 0+01 N

NTS: 092B/13W UTM: 5416879.1 N 430407.7 E
Azimuth: 210 Elevation: 539 m
Dip: -55 Length: 486.8 m

Started: May 13, 1988
Completed: May 20, 1988

Claim No. Chip 1
Section No.: Section 31+00 East, Chip Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test 'active tuff' downdip from Chem87-24

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
26.50	212.0	-52.0	279.50	214.0	-46.0
99.70	209.0	-48.0	367.90	220.0	-49.0
184.40	211.0	-48.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	15.8	OVERBURDEN											
15.8	23.0	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF Medium green and white spotty lapilli tuff with 10 % k feldspar lapilli or alteration. Is glassy with spotty pervasive silicification. There are 10 to 12 %, 1 to 2 mm, feldspar and quartz grains. There is on average 10 to 12 % chlorite in the matrix. Is blocky, highly fractured core with maximum length of core of 20 cm. Foliations :. 16.2 : 61 degrees to core axis. 19.0 : 41 degrees to core axis. 20.7 : 44 degrees to core axis. Lost core :. 15.8 17.1 : 0.2 m. 17.1 18.2 : 0.2 m. 20.7 23.2 : 1.4 m. Alteration :. 15.8 23.0 MODERATE SPOTTY SILICIFICATION. 15.8 23.0 WEAK PERVASIVE CHLORITIZATION.	VA01115	15.8	23.0	7.2	n/a	<10	n/a	39	n/a	n/a	684
23.0	23.5	CHLORITE SCHIST Dark green chlorite schist with calcite veinlets and veins parallel to foliation. Foliation is at 45 degrees to core axis.											
23.5	62.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variably chloritic felsic tuff with 3 to 15 % chlorite.	VA01116	24.0	39.0	15.0	n/a	<10	n/a	69	n/a	n/a	977

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Hosts on average 5 %, 1 to 3 mm quartz eyes and 10 %, 1 mm, feldspar grains. There is minor biotite and pyrite exposed on core fractures. Core is very disky and is blocky, highly fractured core. There are trace minor local quartz veins and fracture controlled calcite veinlets. 23.5 62.3 MODERATE PERVASIVE CHLORITIZATION. Faults :. 36.7 : minor chlorite fault gouge. 38.1 : minor brown fault gouge, < 2 mm, at approximately 55 degrees to core axis. 55.0 55.5 Fault gouge at 65 degrees to core axis. 61.0 61.9 Blocky, highly fractured core with minor fault gouge at 75 degrees to core axis. Lost core :. 26.8 29.4 : 0.9 m. 29.9 34.1 : 0.4 m. 46.5 47.4 : 0.3 m. 47.4 48.8 : 0.4 m. 49.2 50.7 : 0.2 m. 52.7 55.5 : 0.3 m. 55.5 56.4 : 0.2 m. 56.4 57.9 : 0.6 m. 59.4 61.9 : 1.3 m. Foliations :. 25.4 : 51 degrees to core axis. 32.7 : 46 degrees to core axis. 40.4 : 56 degrees to core axis. 46.1 : 69 degrees to core axis. 55.9 : 66 degrees to core axis. 58.7 : 61 degrees to core axis.	VA01117	44.0	59.0	15.0	n/a	<10	n/a	23	n/a	n/a	1060
62.3	62.9	CHLORITE SCHIST Dark green chlorite schist with moderate carbonatization as 5 % calcite and trace to 0.5 %, 1 to 2 mm, pyrite cubes. Foliation is at 68 degrees to core axis. 62.3 62.9 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	VA01882	62.3	62.9	.6	1	66	12	149	<1	<5	610
62.9	95.4	WEAKLY CHLORITIC FELSIC TUFF Very locally very chloritic to on average very weakly chloritic felsic tuff with minor local mafic tuff beds. 62.9 95.4 WEAK SPOTTY CHLORITIZATION. 62.9 64.3 Sheared and gungy chloritic felsic with approximately 5 % chlorite, 7 %, 1 to 2.5 mm, quartz eyes and 15 % feldspars. There are numerous fracture controlled quartz veinlets. 64.3 67.7 Moderately siliceous felsic with weak pervasive chloritization as green tinged grey tuff with 5 %, 1 to 5 mm, quartz eyes. There is 0.5 % fine-grained disseminated pyrite.	VA01118 VA01119	65.0 80.0	80.0 95.0	15.0 15.0	n/a n/a	<10 25	n/a n/a	43 93	n/a n/a	n/a n/a	1260 886

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56

From (m)	To (m)	DESCRIPTION
67.7	67.9	Blocky, highly fractured core. Chlorite schist with white quartz veins.
67.9	71.3	MODERATE PERVASIVE SILICIFICATION in chloritic felsic with 15 %, 2 to 4 mm, quartz eyes and 7 %, 1 mm, epidote grains. Is blocky, highly fractured core and schistose from 69.3 to 69.7 with minor fault gouge. There is 0.25 to 0.5 % fine-grained disseminated pyrite.
71.3	73.1	Chlorite to sericite - chlorite schist with minor local fault gouge and weak to moderate fracture controlled carbonatization. There is approximately 0.5 % very fine-grained disseminated pyrite.
73.1	74.3	Sericitic to weakly chloritic felsic schist with 5 to 7 %, 1 to 2 mm, and 3 %, 4 to 5 mm, quartz eyes and 7 to 15 %, 1 to 2 mm, epidotized feldspars. There is trace fine-grained disseminated pyrite.
74.3	83.6	MODERATE PERVASIVE SILICIFICATION , with weak to moderate chloritization. Siliceous and massive with moderate schistosity and cleavage. Crystal content is variable from trace to 15 %, up to 3 mm, quartz eyes and feldspar grains. There is 1 to 1.5 % disseminated pyrite, some is associated with the weak fracture controlled quartz - calcite veinlets. There is minor bedding, 1 cm compositional banding of chlorite and sericite at 77.7. At 76.4 there is 2 cm of fault gouge at 74 degrees to core axis.
83.6	95.4	More schistose and sericitic with minor kinks from 87.0. There are locally minor mafic tuff beds and quartz veins, up to 10 cm. There is on average < 0.5 % pyrite, locally over 10 cm is up to 2 %. There is local blocky, highly fractured core up to 20 cm and minor fault slips parallel to foliation and at 94.3 at 56 degrees to core axis and 117 degrees to bedding with a 15 mm displacement. Crystals average 5 % with up to 7 mm quartz eyes and up to 2 mm feldspars.
Lost core :.		
62.9	64.2	: 0.3 m.
64.2	66.4	: 0.3 m.
66.4	68.1	: 0.2 m.
70.1	72.2	: 0.2 m.
74.7	76.2	: 0.3 m.
77.6	78.5	: 0.2 m.
78.5	79.4	: 0.3 m.
79.4	81.2	: 0.3 m.
81.2	83.2	: 0.4 m.
84.4	86.3	: 0.5 m.
87.0	89.0	: 1.0 m.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		89.0 90.2 : 0.6 m. Foliations :. 65.4 : 74 degrees to core axis. 68.1 : 45 degrees to core axis. 72.7 : 69 degrees to core axis. 74.0 : 56 degrees to core axis. 80.6 : 51 degrees to core axis. 83.6 : 62 degrees to core axis. 84.6 : 53 degrees to core axis. 91.5 : 66 degrees to core axis.											
95.4	101.0	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Andesitic crystal tuff to chlorite - sericite schist with moderate pervasive carbonatization. From 98.0 to 99.2 is not sheared and hosts 5 to 10 %, 1 to 2 mm, quartz eyes. Is locally contorted with minor 'S' drag folds. There are minor boudinaged fracture controlled white quartz veins. Alteration :. 95.4 101.0 MODERATE PERVASIVE CARBONATIZATION. Foliations :. 96.0 : 68 degrees to core axis. 99.9 : 56 degrees to core axis. Faults :. 99.2 99.7 Fault gouge at 61 degrees to core axis. Lost core :. 96.3 97.8 : 0.4 m. 97.8 99.7 : 0.3 m.	VA01120	95.4	101.0	5.6	n/a	154	n/a	379	n/a	n/a	509
101.0	101.1	FAULT ZONE Brecciated felsic tuff with interstitial grey fault gouge at approximately 70 degrees to core axis.	VA01121 VA01883	101.0 101.0	104.5 102.7	3.5 1.7	n/a 2	27 45	n/a 10	<10 69	n/a <1	n/a <5	1170 1100
101.1	104.5	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Contorted sericite schist with on average 15 %, 1 to 2 mm, feldspar and quartz crystals. There is minor quartz veins and 1 to 2 % disseminated and banded pyrite. Is blocky, highly fractured core with minor fault gouge from 102.7 to 104.5. 101.1 104.5 WEAK PERVASIVE CHLORITIZATION.	VA01884	102.7	104.1	1.4	1	24	<5	72	<1	<5	980
104.5	117.4	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Medium green mafic tuff with 30 to 40 %, 1 to 2 mm, epidote grains and crystal laths after feldspar. From 112.5 to 114.4 and 114.9 to 115.0 there are tan coloured siliceous dykes with minor fracture controlled silicification and pyrite. There is minor local fault gouge and is very contorted from 116.1 to 117.4. Is	VA01122	104.5	117.4	12.9	n/a	119	n/a	48	n/a	n/a	435

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		locally blocky, highly fractured core and there is trace fracture controlled hematite. Is massive with no foliation. From 116.5 there is trace fracture controlled pyrite associated with weak fracture controlled carbonatization.											
117.4	121.0	FAULT ZONE Mafic fault gouge, contorted clay with rotated mafic tuff and quartz pieces, up to 5 cm. Trend is at 55 to 60 degrees to core axis.											
121.0	139.3	FELDSPAR PORPHYRITIC FELSIC FLOW Dominantly siliceous glassy grey felsic with 3 to 5 %, 2 to 4 mm, feldspars and from 121.3 to 123. minor emerald green wisps. Is blocky, highly fractured core from 117.4 to 125.3 and from 129.7 to 132. Is contorted from 130.2 to 139.3 and is schistose. There is very weak local biotite and local brown to pink tinges in the lower more siliceous flow. There is 0.5 to 1 % fracture controlled and disseminated fine-grained pyrite locally. Numerous minor faults occur locally. There are numerous fracture controlled quartz - calcite veinlets. Lost core :. 121.3 123.0 : 0.8 m. 123.4 124.4 : 0.5 m. 128.9 131.1 : 0.2 m. 136.2 138.5 : 0.3 m. 138.5 139.3 : 0.2 m.	VA01123	121.0	139.0	18.0	n/a	<10	n/a	<10	n/a	n/a	1070
139.3	147.6	FELDSPAR PORPHYRITIC GABBRO 139.3 144.6 Fine-grained and locally sheared with moderate to weak fracture controlled calcite veinlets. There is on average 3 %, 1 to 3 mm, feldspars and 1 % very fine-grained leucoxene. 144.6 146.8 Medium grained with weak fracture controlled hematite and 20 to 25 %, 2 to 4 mm, feldspars. There is spotty epidotization from 146.2 to 146.8 and local quartz veins occur. 146.8 147.6 Sheared and faulted with brecciated calcite veinlets and minor fault gouge.											
147.6	148.5	FAULT BRECCIA Quartz, chert and argillite clasts in green and grey clay to fault gouge.											
148.5	155.9	NANAIMO ARGILLITE											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Brown to black soft argillite with minor fault gouge from 149.2 to 149.7 and minor fault breccia from 149.7 to 150.1. There are minor fracture controlled calcite veinlet. Is very fine-grained.											
155.9	169.6	NANAIMO GREYWACKE Grey greywacke, quartz rich with trace up to 1 cm black argillite clasts. There are minor fracture controlled calcite veinlets.											
169.6	182.8	NANAIMO CONGLOMERATE Benson Formation basal conglomerate. 169.6 172.7 Dominantly pebble conglomerate with 50 % quartz grains, 20 % argillite clasts, clasts up to 5 mm on average with average of 2 mm, and mud matrix. 172.7 180.7 Pebble to cobble conglomerate with up to 10 cm clasts. Clasts are 30 to 40 % green to grey chert, 15 to 25 % argillite, approximately 3 % gabbro and 2 % felsic tuff. There is a 10 cm clast with pyrite at 180.0. 180.7 181.9 Greywacke with 3 %, up to 1 cm, argillite clasts. 181.9 182.5 Pebble conglomerate with 35 % chert and 25 %, up to 2 cm clasts. 182.5 182.8 Fine-grained pebble conglomerate with up to 3 mm clasts and minor sulphide mud. Unconformity in sulphide mud and clay at 51 degrees to core axis.	VA01885	182.0	182.8	.8	1	25	<5	82	<1	16	1000
182.8	186.6	QUARTZ PORPHYRITIC INTERMEDIATE FLOW (?). Probably andesitic flow or tuff. Massive and dark green with 10 to 15 %, 3 to 4 mm, quartz grains. There is 3 % fracture controlled purple to pink carbonate. Hosts 2 % disseminated or fracture controlled fine-grained pyrite clots. Is massive and dark to medium green with no foliation, except sheared above gabbro for 0.5 m at approximately 30 degrees to core axis. May be a boulder in the conglomerate.	VA01886	182.8	184.0	1.2	2	162	22	124	<1	7	100
			VA01124	182.8	186.6	3.8	n/a	392	n/a	84	n/a	n/a	120
			VA01887	184.0	185.0	1.0	2	273	30	136	<1	16	60
			VA01888	185.0	186.6	1.6	2	218	28	135	<1	<5	<20
186.6	210.6	FELDSPAR PORPHYRITIC GABBRO 186.6 191.3 Fine-grained medium green gabbro with on average 7 to 10 %, 2 to 3 mm, feldspars and 3 %, 1 to 2 mm, ilmenite grains with purple hematitic crusts. 191.3 205.4 Medium to coarse grained gabbro with 20 to 50 %, up to 5 mm, feldspar grains and laths.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Ilmenite averages approximately 2 %. There is minor fracture controlled epidote, calcite and quartz veinlets.											
	205.4 210.6	Fine-grained gabbro with trace feldspar and ilmenite grains in fine-grained chloritic matrix.											
210.6	234.4	FELSIC QUARTZ EYE TUFF											
		Light grey siliceous felsic tuff with on average 10 %, 1 to 2 mm, quartz eyes and minor fragments, up to 2 cm, brown to white with weak fracture controlled carbonatization. There is local weak fracture controlled chloritization and calcite veinlets. Is locally kinked and contorted. Pyrite occurs locally.	VA01125	211.0	226.0	15.0	n/a	<10	n/a	<10	n/a	n/a	1530
			VA01889	213.0	214.0	1.0	1	60	<5	65	<1	<5	1400
			VA01890	214.0	215.0	1.0	5	106	6	58	<1	<5	1400
			VA01891	215.0	216.0	1.0	2	77	<5	43	<1	<5	1400
			VA01892	216.0	217.0	1.0	1	7	<5	30	<1	<5	1200
			VA01893	217.0	218.0	1.0	3	60	<5	30	<1	<5	1500
			VA01894	218.0	219.0	1.0	1	36	<5	25	<1	<5	1200
			VA01895	219.0	220.0	1.0	2	31	<5	22	<1	<5	1400
			VA01896	222.0	223.0	1.0	3	41	<5	28	<1	10	1400
			VA01897	223.0	224.5	1.5	1	20	<5	34	<1	<5	1300
			VA01126	226.0	234.0	8.0	n/a	<10	n/a	<10	n/a	n/a	1540
		Sulphides :.											
	211.9 212.0	5 % pyrite in 'early mafic sill' and minor fracture controlled pyrite below.											
	213.7 215.7	3 to 4 % fracture controlled pyrite.											
	217.0 217.8	2 % fracture controlled pyrite.											
	219.2 219.8	1 % fracture controlled and disseminated fine-grained pyrite.											
	222.2 222.4	5 to 7 % fracture controlled fine-grained pyrite.											
	222.6 224.2	1 % fracture controlled and disseminated fine-grained pyrite.											
		Foliations :.											
		214.1 : 12 degrees to core axis.											
		216.7 : 25 degrees to core axis.											
		220.6 : 26 degrees to core axis.											
		224.0 : 25 degrees to core axis.											
		227.8 : 31 degrees to core axis.											
		233.6 : 43 degrees to core axis.											
		Bedding :.											
		211.5 : 34 degrees to core axis.											
		Lost core :.											
		225.0 226.0 : 0.5 m.											
234.4	255.6	FELDSPAR PORPHYRITIC GABBRO											
		Fine-grained medium green gabbro with 12 to 17 %, 2 to 5 mm, feldspars and there is local quartz, calcite and epidote veinlets and veins. Quartz veins are up to 18 cm thick. Upper contact at blocky, highly fractured core and lower contact at 48 degrees to core axis with strong thermal biotite in tuff for 8 cm and weak to approximately 258 m.											
255.6	268.8	WEAKLY CHLORITIC FELSIC TUFF											
		Very weakly chloritic felsic tuff, chloritization is local	VA01127	256.0	269.0	13.0	n/a	<10	n/a	41	n/a	n/a	1770

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		as fracture controlled and pervasive alteration. Tuff is dominantly sericitic with thermal biotite to approximately 258. Colour varies from light grey to medium grey - green. On average there is 7 %, < 1 mm, quartz eyes and 5 %, 2 to 3 mm, feldspar and quartz grains. There is trace fine-grained pyrite with fracture controlled chloritization from 259.0 to 259.6. From 263 to 268.8 there are white up to 1 cm siliceous or sericitic layers with chloritic zones surrounding them. From 264.0 to 268.0 there are approximately 1 % milky white fracture controlled quartz veinlets. 255.6 268.8 WEAK SPOTTY CHLORITIZATION. Foliations :. 257.0 : 50 degrees to core axis. 261.3 : 54 degrees to core axis. 267.9 : 26 degrees to core axis. Bedding :. 261.3 : 32 degrees to core axis. 266.8 : 51 degrees to core axis. Lost core :. 261.2 262.6 : 0.3 m. 264.3 266.0 : 0.3 m.	VA01898	268.5	269.5	1.0	1	30	12	19	<1	<5	1600
268.8	271.8	FAULT ZONE 268.8 270.5 Contorted sericitic tuff with approximately 30 % white fault gouge. There is 2 to 3 % fracture controlled chlorite locally and 0.5 to 1 % fine-grained disseminated pyrite. 270.5 271.2 Mafic with quartz veins and shearing at 41 degrees to core axis. There are trace pyrite cubes. Late fracture controlled silicification occured resulting in fracture controlled quartz veinlets in the quartz veins. 271.2 271.8 Felsic with fault gouge at 9 degrees to core axis, approximately 4 cm thick.	VA01899	269.5	270.5	1.0	1	37	8	32	<1	5	1600
271.8	282.2	FELSIC TUFF Felsic lapilli tuff (?). Siliceous beds or lapilli, up to 2 cm, are in matrix of sericite and chlorite. Is blocky, highly fractured core with minor local fault gouge. Crystal content is variable with up to 10 % feldspars and quartz eyes. From 278.5 there is approximately 0.5 to 1 % fine-grained disseminated and fracture controlled pyrite in contorted sericitic tuff. There is minor fracture controlled quartz veinlets. Lost core :. 273.4 274.2 : 0.6 m. 274.2 275.2 : 0.4 m. 275.2 276.5 : 0.6 m.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		276.5 277.1 : 0.1 m. 278.4 279.5 : 0.3 m. 281.0 282.5 : 0.3 m. Foliations :. 273.3 : 26 degrees to core axis. 277.3 : 29 degrees to core axis. 278.5 : 30 degrees to core axis.											
282.2	284.0	FAULT ZONE Sheared and brecciated felsic tuff with 10 to 15 % fault gouge interstitial to tuff and as fault slips, which are at 23 to 45 degrees to core axis. There is approximately 1 % fine-grained disseminated pyrite with minor local up to 1 cm clots.	VA01900	282.2	283.7	1.5	1	62	21	30	<1	<5	2000
			VA01128	283.0	293.0	10.0	n/a	80	n/a	21	n/a	n/a	1910
			VA01901	283.7	284.7	1.0	1	62	<5	34	<1	<5	1600
284.0	314.7	FELSIC LAPILLI TUFF Contorted medium to light grey moderately siliceous to locally sericitic felsic tuff with more siliceous material, lapilli (?), surrounded by sericite to sericite with weak chlorite. Lapilli are 70 to 80 % of the tuff and possibly the matrix (?) is a product of alteration. Crystal content varies from nil to approximately 10 % feldspars and 5 % quartz eyes, < 1 mm. There is local kinking and blocky, highly fractured core. Sulphides :. 284.0 285.7 0.5 to 1 % fine-grained disseminated pyrite. 285.7 286.2 5 to 7 % pyrite as bands of 1 to 3 mm cubes in the matrix around siliceous grey lapilli. 286.2 287.7 1 % disseminated 2 mm pyrite cubes with additional 1 to 2 % fine-grained pyrite over 5 to 15 cm in minor fault zones. The fine-grained pyrite may also include trace sphalerite. 287.7 289.1 Minor FAULT BRECCIA with 0.5 to 1 % disseminated fine-grained pyrite and pyrite clots, up to 5 mm. 289.1 291.0 Approximately 0.5 % disseminated in siliceous grey tuff. 291.0 291.5 3 to 4 % fine-grained fracture controlled and banded pyrite. 291.5 296.0 0.25 to 0.5 % fine-grained pyrite in matrix around lapilli. 296.0 298.2 Trace to 0.25 % in chloritic matrix. 298.2 298.8 3 to 5 % fine-grained sulphide mud in fault breccia matrix. 298.8 302.7 Trace to nil disseminated pyrite, with minor sphalerite in quartz vein at 301.4. 302.7 308.1 2 % fine-grained disseminated and banded pyrite 308.1 308.6 5 to 7 % fine-grained pyrite to grey sulphide	VA01902	284.7	285.7	1.0	1	93	8	60	<1	9	1600
			VA01903	285.7	286.2	.5	6	837	11	95	1	59	1800
			VA01904	286.2	287.7	1.5	1	83	26	64	<1	<5	1600
			VA01905	287.7	289.0	1.3	1	60	54	123	<1	7	1600
			VA01906	289.0	290.0	1.0	1	9	16	34	<1	<5	1400
			VA01907	290.0	291.0	1.0	1	50	11	62	<1	<5	1400
			VA01908	291.0	291.5	.5	4	193	17	2353	<1	32	2000
			VA01909	291.5	293.0	1.5	1	85	<5	55	<1	14	1500
			VA01129	294.0	314.0	20.0	n/a	319	n/a	62	n/a	n/a	2050
			VA01910	298.2	298.8	.6	4	51	21	90	<1	5	1400
			VA01911	302.7	304.0	1.3	2	80	20	49	<1	<5	2000
			VA01912	304.0	305.5	1.5	2	101	13	149	<1	28	1400
			VA01913	305.5	307.0	1.5	2	118	48	194	<1	53	1500
			VA01914	307.0	308.1	1.1	2	143	<5	1430	<1	65	1400
			VA01915	308.1	308.6	.5	6	330	9	160	<1	26	1400
			VA01916	308.6	310.0	1.4	3	140	6	40	<1	<5	1600
			VA01917	310.0	311.5	1.5	3	39	29	100	<1	5	1900
			VA01918	311.5	313.0	1.5	3	61	10	105	<1	30	2000
			VA01919	313.0	314.7	1.7	3	68	8	85	<1	10	2000

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		mud in breccia matrix.											
		308.6 314.7 2 to 3 % pyrite in chloritic lapilli tuff matrix and < 1 mm cubes disseminated.											
		Foliations :.											
		285.6 : 44 degrees to core axis.											
		291.1 : 44 degrees to core axis.											
		295.0 : 38 degrees to core axis.											
		299.0 : 23 degrees to core axis.											
		303.9 : 30 degrees to core axis.											
		310.9 : 36 degrees to core axis.											
		313.8 : 36 degrees to core axis.											
		Faults :.											
		286.4 : 5 to 10 cm of FAULT BRECCIA at 26 degrees to core axis.											
		287.0 287.8 : 7 degrees to core axis with approximately 1 cm displacement, is at 70 degrees to the foliation.											
		296.0 296.6 Fault gouge at 31 degrees to core axis.											
		311.8 313.4 Minor local fault gouge.											
		314.3 314.7 Clay fault gouge.											
		Lost core :.											
		299.3 301.0 : 0.2 m.											
		302.2 302.7 : 0.3 m.											
		304.6 306.0 : 0.2 m.											
314.7	329.1	FELDSPAR PORPHYRITIC GABBRO											
		Variably coarse to fine-grained plagiophyric gabbro.	VA01130	315.0	329.0	14.0	n/a	1470	n/a	111	n/a	n/a	112
		314.7 315.7 Medium grained with 5 to 7 %, brown mineral, not carbonate, sphene (?) and approximately 5 % hematized ilmenite. There is 10 % quartz grains in matrix of chloritized hornblendes. There is 2 to 3 % chalcopyrite in white quartz vein from 315.2 to 315.5.	VA01920	320.9	322.4	1.5	1	1790	<5	195	1	52	<20
		315.7 320.9 Coarse grained gabbro with up to 5 mm grains. There is approximately 10 % hematized ilmenite											
		320.9 322.4 Fine-grained sheared gabbro with minor calcite veinlets. Hosts approximately 1 % chalcopyrite and 2 % sphene.											
		322.4 326.8 80 % white quartz with minor chlorite, chalcopyrite clots and gabbro up to 20 cm.											
		326.8 329.1 Fine-grained gabbro with 2 % ilmenite and average 10 %, 2 mm, feldspars and 50 % quartz - (chlorite) - (chalcopyrite) veins.											
		There is on average 0.5 to 1 % chalcopyrite throughout the whole gabbro interval, mostly hosted by quartz veins.											
		Appears to be TiO2 rich.											
		314.7 329.1 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
329.1	355.0	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 | Page Number 11

From (m)	To (m)	----------DESCRIPTION----------
	329.1 331.0	Fine-grained micaceous tuff with 3 to 7 % chlorite. There are approximately 10 %, < 1 mm, feldspars. There are minor up to 2 cm white quartz veins.
	331.0 336.3	MODERATE FRACTURE CONTROLLED SILICIFICATION as spotty silicification. Is sericitic with very weak local chlorite. There are 10 %, 1 mm, quartz eyes and approximately 7 %, 1 mm, feldspars. There is compositional banding or bedding. There is trace to 0.5 % local fracture controlled pyrite.
	336.3 352.4	Sericitic tuff with minor up to 1 cm quartz lapilli and 10 %, < 1 mm, feldspars and 7 %, up to 1 mm, quartz eyes. There is weak fracture controlled chloritization with approximately 2 % associated pyrite from 337.1 to 338.2, 342.1 to 342.7 and 347.7 to 348.3.
	352.4 355.0	Siliceous light grey to white tuff with trace sausuritized feldspars.
	Sulphides :.	
	329.1 337.1	Trace fracture controlled and disseminated pyrite.
	337.1 341.7	0.5 to 2 %, average 1 %, fine-grained disseminated pyrite.
	341.7 342.7	1.5 to 2 % banded pyrite, up to 3 mm cubes.
	342.7 347.7	Trace to 1 %, average 0.5 %, fine-grained disseminated pyrite.
	347.7 348.3	2 to 4 % fine-grained pyrite in fracture controlled chlorite or chloritic matrix to felsic lapilli.
	348.3 349.8	Trace to nil disseminated pyrite.
	349.8 352.4	On average 2 to 3 % fine-grained disseminated pyrite, (?) in lapilli matrix.
	352.4 355.0	Trace disseminated pyrite, up to 0.5 % locally.
	Foliations :.	
	338.9 : 31 degrees to core axis.	
	341.7 : 41 degrees to core axis.	
	343.3 : 41 degrees to core axis.	
	345.9 : 40 degrees to core axis.	
	348.5 : 28 degrees to core axis.	
	351.5 : 27 degrees to core axis.	
	Faults :.	
	339 : parallel to core axis.	
	344.2 : approximately 5 cm fault gouge at approximately 60 degrees to core axis.	
	Lost core :.	
	339.2 341.7 : 0.3 m.	

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01131	330.0	340.0	10.0	n/a	62	n/a	64	n/a	n/a	2270
VA01921	337.1	338.1	1.0	1	171	10	200	<1	34	2400
VA01132	340.0	355.0	15.0	n/a	144	n/a	564	n/a	n/a	1840
VA01922	341.7	342.7	1.0	2	118	35	70	<1	10	1700
VA01923	346.0	347.7	1.7	1	66	5	135	<1	<5	1600
VA01924	347.7	348.3	.6	3	108	7	230	<1	<5	2000
VA01925	348.3	349.8	1.5	1	55	<5	70	<1	<5	1900
VA01926	349.8	351.0	1.2	3	93	<5	70	<1	6	1900
VA01927	351.0	352.4	1.4	3	128	<5	35	<1	10	1800
VA01928	354.0	355.0	1.0	0	61	<5	65	<1	<5	1800

355.0 370.8 FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 | Page Number 12

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Light to medium grey felsic lapilli tuff with 70 % siliceous whitish lapilli in sericitic to weakly chloritic matrix with strong pyrite. There are minor fracture controlled quartz - calcite veinlets. Crystals average 7 to 12 %, and are on average 7 %, 1 mm, quartz eyes and 5 %, < 1 mm, feldspars.	VA01929	355.0	356.1	1.1	3	119	<5	35	<1	60	1800
			VA01930	356.1	357.2	1.1	3	44	9	30	<1	9	1700
			VA01931	357.2	357.7	.5	20	88	10	75	<1	75	1100
			VA01932	357.7	358.2	.5	20	162	<5	25	<1	12	1200
			VA01933	358.2	358.7	.5	20	109	<5	20	<1	21	1100
			VA01934	358.7	359.2	.5	20	66	<5	25	<1	9	1200
			VA01935	359.2	359.7	.5	20	59	<5	20	<1	18	1000
			VA01936	359.7	360.5	.8	15	148	<5	25	<1	17	1000
			VA01133	360.0	370.0	10.0	n/a	43	n/a	<10	n/a	n/a	2500
			VA01937	360.5	361.4	.9	5	31	<5	35	<1	17	1600
			VA01938	361.4	362.3	.9	3	42	<5	50	<1	27	2000
			VA01939	362.3	364.0	1.7	1	21	<5	35	<1	7	2300
			VA01940	364.0	366.0	2.0	1	39	<5	420	<1	6	2300
			VA01941	366.0	368.0	2.0	1	34	<5	45	<1	<5	2100
			VA01942	368.0	369.5	1.5	1	20	7	40	<1	<5	2200
			VA01943	369.5	370.8	1.3	1	69	7	115	<1	7	2500
		Sulphides :.											
		355.0 357.2 2 to 3 % pyrite with trace mariposite at 355.2.											
		357.2 360.5 15 to 20 %, < 1 to 3 mm, pyrite with minor chalcopyrite in quartz vein or lapilli at 358.0.											
		360.5 362.3 3 to 5 % pyrite, banded or encapsulating lapilli.											
		362.3 370.8 Trace to 2 %, disseminated and banded, averages 1 %.											
		Foliations :.											
		355.9 : 36 degrees to core axis.											
		357.2 : 32 degrees to core axis.											
		358.7 : 28 degrees to core axis.											
		359.3 : 53 degrees to core axis.											
		361.2 : 48 degrees to core axis.											
		364.5 : 21 degrees to core axis.											
		365.5 : 45 degrees to core axis.											
		Faults :.											
		369.9 370.2 Blocky, highly fractured core with minor fault gouge.											
370.8	372.2	MAFIC INTRUSIVE											
		Early mafic sill.	VA01944	370.8	372.2	1.4	7	64	17	175	<1	23	750
		Medium green sill with moderate epidotization and carbonatization and 7 % pyrite.											
372.2	432.7	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
		Light to medium grey felsic tuff with on average 3 %, 1 to 3 mm, quartz eyes and 7 to 10 %, 1 to 2 mm, feldspars. There are locally up to 5 % siliceous medium to dark grey elongated lapilli. There are early mafic sills from 380.1 to 380.4, 387.5 to 388.7, 389.7 to 390.0, and 423.0 to 423.4. The mafic sills are epidote green, carbonatized and host 5 % disseminated pyrite blebs.	VA01945	372.2	373.7	1.5	2	48	25	185	<1	11	2100
			VA01946	373.7	375.2	1.5	2	60	14	35	<1	<5	2800
			VA01134	375.0	400.0	25.0	n/a	238	n/a	134	n/a	n/a	3570
			VA01947	375.2	376.7	1.5	2	37	13	65	<1	9	3000
			VA01948	376.7	378.2	1.5	2	23	6	35	<1	27	2900
			VA01949	378.2	379.7	1.5	2	68	5	45	<1	17	2500
			VA01950	379.7	381.2	1.5	2	30	7	110	<1	<5	2000
			VA01951	381.2	382.7	1.5	2	108	<5	70	<1	9	2800
			VA01952	382.7	384.2	1.5	2	82	15	40	<1	13	3000
			VA01953	384.2	385.3	1.1	5	226	32	250	1	21	3300
			VA01954	385.3	386.4	1.1	5	62	13	195	<1	7	3900
			VA01955	386.4	387.5	1.1	5	175	50	100	1	8	4100
			VA01956	387.5	388.7	1.2	5	170	50	365	1	78	1000
			VA01957	388.7	390.2	1.5	3	812	152	110	2	68	3800
			VA01958	390.2	391.7	1.5	3	31	162	105	1	124	3300
			VA01959	391.7	393.2	1.5	3	74	61	50	1	103	2800
		Sulphidess and alteration :.											
		372.2 384.2 1 to 2 % disseminated very fine-grained pyrite with trace banded or stringer pyrite in crystal rich schistose tuff.											
		384.2 387.5 3 to 4 % banded or stringer pyrite, fine-grained pyrite in up to 5 mm bands and 2 % fine-grained disseminated in sericitic tuff with minor fracture controlled quartz and / or calcite veinlets parallel to core axis with											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 | Page Number 13

From (m)	To (m)	DESCRIPTION
		minor up to 1 cm displacements. There appears to be trace chalcopyrite in the pyrite.
387.5	388.7	STRONG PERVASIVE CARBONATIZATION in early mafic sill with 50 % white quartz vein and 5 % disseminated pyrite.
388.7	394.7	Sericitic with 2 % disseminated and 1 to 2 %, 1 to 2 mm, fine-grained banded, pyrite.
394.7	400.5	WEAK FRACTURE CONTROLLED CARBONATIZATION , weak silicification (?) and is weakly bleached. There is approximately 3 % disseminated pyrite blebs.
400.5	404.2	STRONG FRACTURE CONTROLLED CARBONATIZATION , bleached siliceous white felsic tuff (?) with trace to 1 % fracture controlled pyrite.
404.2	413.6	Light grey sericitic tuff with 1 to 2 % disseminated and fine-grained banded pyrite parallel to foliation.
413.6	416.2	4 to 6 % fine-grained to 3 mm pyrite in quartz crystal to lapilli tuff with minor mariposite.
416.2	417.7	20 to 25 % fine-grained banded pyrite.
417.7	425.9	2 to 3 % disseminated pyrite with local strong banded pyrite as from 416.2 to 417.2, from 422.8 to 423.0 and 423.5 to 424.2. There is a chalcopyrite bleb in a quartz vein at 423.4.
425.9	426.7	30 % fine-grained pyrite, 5 % chalcopyrite, 1 % sphalerite, 1 to 2 % fine-grained grey mineral, galena (?) or tetrahederite as semi-massive psuedo- banded sulphides.
426.7	426.9	5 % disseminated pyrite in tuff with 15 %, 3 mm, quartz eyes and minor mariposite.
426.9	427.2	Early maf sill with strong pervasive carbonatization and 5 % disseminated pyrite.
427.2	427.6	Blocky, highly fractured core as from 426.7 to 426.9.
427.6	427.7	20 % fine-grained honey sphalerite and 10 % fine-grained pyrite in grey siliceous and (?) silicified tuff.
427.7	430.4	Grey quartz eye tuff with 5 % fine-grained disseminated pyrite and 1 to 2 % sphalerite and trace to 0.5 % chalcopyrite with minor pyrite as bands or stringers parallel to foliation.
430.4	431.5	12 % sphalerite, 3 % galena, 0.5 % chalcopyrite and 10 % pyrite as fine-grained bands up to 8 cm with strong sphalerite, 30 %, and galena, 10 %, from 431.1 to 431.4.
431.5	431.9	Blocky, highly fractured core with approximately 5 % pyrite, 0.5 % chalcopyrite in sericitic schist.
431.9	432.2	7 to 10 % sphalerite, 4 to 5 % chalcopyrite, 2 to 3 % galena in grey siliceous rock with

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01960	393.2	394.7	1.5	3	86	27	70	1	43	3200
VA01961	394.7	396.0	1.3	3	40	13	25	<1	39	5600
VA01962	396.0	397.5	1.5	3	45	20	30	<1	33	3100
VA01963	397.5	399.0	1.5	3	38	10	30	<1	17	2200
VA01964	399.0	400.5	1.5	3	53	8	35	<1	8	1600
VA01135	400.0	425.0	25.0	n/a	579	n/a	109	n/a	n/a	2670
VA01965	400.5	401.7	1.2	1	22	6	30	<1	<5	2000
VA01966	401.7	402.9	1.2	1	36	6	30	<1	<5	1700
VA01967	402.9	404.2	1.3	1	35	5	30	<1	<5	1800
VA01968	404.2	406.0	1.8	2	50	11	30	<1	<5	2000
VA01969	406.0	408.0	2.0	2	33	7	25	<1	<5	2100
VA01970	408.0	410.0	2.0	2	40	6	40	<1	<5	2500
VA01971	410.0	412.0	2.0	2	79	6	225	<1	<5	2500
VA01972	412.0	413.6	1.6	2	745	<5	1075	<1	8	2000
VA01973	413.6	414.9	1.3	5	1068	<5	75	1	27	1700
VA01974	414.9	416.2	1.3	5	252	<5	30	<1	19	1900
VA01975	416.2	416.7	.5	20	469	5	60	1	84	1800
VA01976	416.7	417.2	.5	20	249	<5	30	1	35	1700
VA01977	417.2	417.7	.5	20	455	<5	1165	1	87	1400
VA01978	417.7	419.0	1.3	2	90	<5	15	<1	116	1300
VA01979	419.0	420.0	1.0	2	71	<5	15	<1	306	1300
VA01980	420.0	421.0	1.0	2	58	<5	10	<1	87	1500
VA01981	421.0	422.0	1.0	2	1164	<5	40	1	256	2700
VA01982	422.0	423.0	1.0	5	697	7	5600	1	83	5200
VA01983	423.0	424.0	1.0	7	816	9	11600	2	101	6100
VA01984	424.0	425.0	1.0	5	1063	7	555	2	124	4900
VA01985	425.0	425.9	.9	2	714	6	670	1	63	7300
VA01986	425.9	426.7	.8	40	10900	136	5400	9	318	9900
VA01987	426.7	427.6	.9	5	1071	9	2670	1	84	9000
VA01988	427.6	428.0	.4	10	3800	13	22000	7	416	13000
VA01989	428.0	429.2	1.2	7	3600	209	9600	12	562	15000
VA01990	429.2	430.4	1.2	7	1860	577	8400	12	349	19000
VA01991	430.4	431.0	.6	25	3900	935	26500	25	2880	13000
VA01992	431.0	431.5	.5	35	7400	10100	59400	90	3120	11000
VA01993	431.5	431.9	.4	6	5400	631	3700	13	403	8800
VA01994	431.9	432.2	.3	25	12600	5400	48000	43	1371	13000
VA01995	432.2	432.7	.5	7	2028	1622	14000	15	317	10000

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		minor fracture controlled quartz veinlets.											
		432.2 432.7 5 % pyrite and 1 to 2 % sphalerite in blocky, highly fractured core sericitic crystal tuff.											
		Foliations :.											
		374.4 : 41 degrees to core axis.											
		383.8 : 41 degrees to core axis.											
		390.8 : 41 degrees to core axis.											
		405.0 : 48 degrees to core axis.											
		414.9 : 39 degrees to core axis.											
		415.6 : 22 degrees to core axis.											
		418.8 : 43 degrees to core axis.											
		421.8 : 37 degrees to core axis.											
		428.5 : 31 degrees to core axis.											
432.7	443.9	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Blocky, highly fractured core. Medium to dark green mafic with epidote spots and strong fracture controlled carbonatization and epidotization. From 436.5 to 440.0 there is 2 % brown fine-grained spots, probably carbonatization. There are minor chert beds and weak fault gouge 442.6 to 443.9 and minor fault slips at 7 degrees to core axis. There is weak foliation at 32 degrees to core axis.	VA01136	432.7	443.9	11.2	n/a	172	n/a	48	n/a	n/a	394
			VA01996	432.7	434.0	1.3	1	125	40	385	1	19	1600
			VA01997	437.0	439.0	2.0	1	130	17	225	<1	8	640
		432.7 443.9 STRONG FRACTURE CONTROLLED CARBONATIZATION.											
		Lost core :.											
		436.2 436.5 : 0.2 m.											
		439.8 441.4 : 0.2 m.											
443.9	454.3	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF											
		Light to medium green mafic tuff with 20 to 25 %, 1 to 3 mm, chloritized hornblende crystals. There is local pervasive epidotization and 1 to 5 %, 1 to 3 mm, epidote grains locally. There is strong fracture controlled carbonatization as white calcite veinlets and minor fracture controlled chloritization. Is massive, may be a flow.	VA01137	443.9	454.3	10.4	n/a	229	n/a	46	n/a	n/a	390
		Alteration :.											
		443.9 454.3 STRONG FRACTURE CONTROLLED CARBONATIZATION.											
		443.9 454.3 MODERATE FRACTURE CONTROLLED CHLORITIZATION.											
454.3	485.3	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Dark green to locally brown, due to biotite content with moderate fracture controlled carbonatization and chlorite. Tuff is is a ash tuff with locally up to 20 %, < 1 mm, feldspars. There are numerous up to 1 cm green chert beds. There is trace local pyrite, disseminated and fracture controlled. There are numerous quartz - chlorite veinlets from 459.5 to 466.0.	VA01138	454.3	485.3	31.0	n/a	393	n/a	58	n/a	n/a	642

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-56 Page Number 15

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Bedding :. 468.3 : 34 degrees to core axis. 476.8 : 37 degrees to core axis. 480.8 : 55 degrees to core axis, with tops downhole. 483.7 : 31 degrees to core axis. Foliations :. 465.6 : 59 degrees to core axis. 481.0 : 50 degrees to core axis. Alteration :. 454.3 485.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 454.3 485.3 WEAK FRACTURE CONTROLLED CHLORITIZATION.											
485.3	486.8	GREYWACKE Locally cherty greywacke, grey in colour with trace to 1 % fracture controlled pyrite. There is weak fracture controlled carbonatization. Bedding is at (?) degrees to core axis. End of hole: 1597 feet (486.8 m) on Friday May 20, 1988 at 12:15 p.m. Total lost core: 17.5 m, % Recovery = 96.4 %.	VA01998	485.3	486.8	1.5	1	80	29	230	<1	27	200

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00671	18.80	19.00	71.10	11.80	2.61	1.14	4.32	1.27	2.43	0.30	0.06	0.10	3.08	98.21	661.	26.	7.
VA00672	23.20	23.40	40.00	18.60	8.53	4.30	2.28	3.76	8.55	0.87	0.14	0.25	11.80	99.08	1010.	43.	11.
VA00673	53.20	53.70	69.40	13.20	3.73	0.88	1.93	2.88	2.24	0.23	0.06	0.08	4.00	98.63	1000.	40.	6.
VA00674	68.10	68.20	68.60	14.80	1.78	1.77	3.64	2.31	2.81	0.26	0.06	0.07	2.23	98.33	1050.	43.	5.
VA00675	72.20	72.30	71.20	13.20	2.94	1.19	0.17	3.77	2.43	0.30	0.07	0.13	3.62	99.02	983.	61.	3.
VA00676	76.50	76.60	68.40	15.50	1.14	1.27	2.12	3.75	3.95	0.39	0.10	0.06	2.77	99.45	1360.	61.	3.
VA00677	105.60	105.80	51.90	16.40	6.62	5.44	3.85	0.13	9.35	0.65	0.12	0.21	5.16	99.83	125.	35.	10.
VA00678	112.50	112.70	54.70	17.00	14.70	0.66	2.74	0.20	6.04	0.29	0.33	0.12	2.85	99.63	166.	5.	17.
VA00679	127.60	127.70	74.70	12.20	2.47	0.88	5.54	0.36	1.11	0.20	0.06	0.03	1.39	98.94	435.	13.	8.
VA00680	133.50	133.70	71.50	15.30	1.26	1.52	4.22	2.07	1.85	0.27	0.08	0.03	1.85	99.95	1160.	40.	5.
VA00681	221.50	221.60	73.10	14.60	0.78	1.42	1.27	3.67	1.07	0.34	0.09	0.02	2.00	98.36	1630.	71.	2.
VA00682	230.70	230.80	72.90	14.50	0.53	1.37	2.22	3.49	0.91	0.35	0.08	0.01	1.85	98.21	1300.	64.	3.
VA00683	297.50	297.60	69.40	12.60	2.63	2.77	1.28	2.48	3.06	0.30	0.07	0.04	3.23	97.86	1620.	57.	4.
VA00684	318.00	318.50	47.20	10.90	8.64	4.42	1.84	0.26	20.00	5.05	0.25	0.29	1.62	100.47	248.	31.	10.
VA00685	333.60	333.70	69.30	12.80	1.92	2.97	1.85	1.53	5.81	0.31	0.09	0.04	3.77	100.39	1160.	54.	4.
VA00686	346.50	346.60	71.40	14.20	3.34	1.78	2.83	2.15	1.16	0.30	0.07	0.05	2.54	99.82	1440.	39.	6.
VA00687	363.10	363.20	73.50	14.10	0.19	0.93	0.62	3.66	2.86	0.33	0.07	<0.01	3.16	99.43	2670.	85.	1.
VA00688	375.50	375.60	75.60	13.40	0.17	0.62	0.43	3.64	2.25	0.31	0.06	0.01	2.70	99.19	3380.	88.	1.
VA00689	387.00	387.10	72.90	14.40	0.89	1.11	1.23	3.22	2.00	0.38	0.03	0.02	2.39	98.57	6470.	67.	2.
VA00690	388.30	388.40	32.10	21.80	10.40	7.43	0.48	1.29	14.70	0.94	0.24	0.16	9.16	98.70	1130.	44.	11.
VA00691	394.10	394.20	65.80	17.70	0.41	0.96	0.69	4.60	3.59	0.46	0.08	<0.01	3.77	98.07	3390.	83.	1.
VA00692	406.00	406.20	70.80	16.40	1.15	0.71	1.67	3.60	0.92	0.41	0.10	0.01	2.08	97.85	2370.	60.	3.
VA00693	416.00	416.10	59.90	18.70	0.52	0.36	1.91	4.34	7.13	0.56	0.05	<0.01	5.39	98.87	2050.	66.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00694	447.50	447.70	47.70	12.00	13.40	9.09	2.50	0.28	9.31	0.50	0.11	0.16	4.85	99.90	249.	37.	16.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01115	15.80	23.00	69.90	13.50	2.60	1.14	4.58	1.70	2.62	0.30			3.54	99.88	684.	28.	7.
VA01116	24.00	39.00	67.00	14.10	3.64	1.12	2.96	2.72	3.50	0.31			4.39	99.74	977.	37.	7.
VA01117	44.00	59.00	70.60	13.50	3.39	0.75	2.17	2.88	2.28	0.24			3.77	99.58	1060.	40.	6.
VA01118	65.00	80.00	65.80	14.90	3.51	1.60	1.85	3.35	3.76	0.32			3.85	98.94	1260.	48.	5.
VA01119	80.00	95.00	63.80	13.80	3.97	2.46	2.32	2.44	5.06	0.33			4.08	98.26	886.	44.	6.
VA01120	95.40	101.00	48.80	16.50	6.71	5.57	3.03	1.32	9.18	0.67			7.39	99.17	509.	41.	10.
VA01121	101.00	104.50	68.10	14.30	3.34	1.33	2.29	2.99	3.17	0.35			3.31	99.18	1170.	43.	6.
VA01122	104.50	117.40	52.10	16.40	6.50	5.10	2.97	0.79	9.15	0.65			5.47	99.13	435.	38.	9.
VA01123	121.00	139.00	70.90	15.10	2.08	1.30	4.97	1.70	1.56	0.26			2.08	99.95	1070.	30.	7.
VA01124	182.80	186.60	49.80	14.10	4.55	4.42	3.50	0.14	14.00	2.75			5.00	98.26	120.	36.	8.
VA01125	211.00	226.00	71.80	15.50	1.29	1.70	1.47	3.50	1.71	0.38			2.31	99.66	1530.	65.	3.
VA01126	226.00	234.00	70.10	16.20	1.84	1.90	1.84	3.50	1.64	0.47			2.54	100.03	1540.	59.	4.
VA01127	256.00	269.00	71.20	15.10	2.23	1.80	1.86	3.20	1.88	0.39			2.47	100.13	1770.	55.	4.
VA01128	283.00	293.00	68.90	15.00	1.41	1.59	1.20	3.53	3.58	0.35			3.23	98.79	1910.	66.	3.
VA01129	294.00	314.00	66.90	14.80	1.55	1.71	1.24	3.60	4.86	0.37			3.62	98.65	2050.	66.	3.
VA01130	315.00	329.00	43.60	13.70	7.45	4.82	2.40	0.23	15.80	3.64			6.70	98.34	112.	34.	10.
VA01131	330.00	340.00	70.90	14.70	1.76	1.72	1.55	3.42	2.33	0.33			2.70	99.41	2270.	61.	3.
VA01132	340.00	355.00	69.50	14.80	1.25	1.30	1.38	3.31	3.85	0.36			3.16	98.91	1840.	64.	3.
VA01133	360.00	370.00	74.50	14.60	0.46	0.63	1.41	3.40	1.91	0.33			2.39	99.63	2500.	68.	2.
VA01134	375.00	400.00	69.90	15.40	0.83	1.00	0.87	3.70	3.41	0.38			3.39	98.88	3570.	73.	2.
VA01135	400.00	425.00	69.40	16.50	0.87	0.55	1.22	3.80	3.25	0.42			3.23	99.24	2670.	68.	2.
VA01136	432.70	443.90	49.00	14.70	8.09	5.75	3.76	0.45	8.97	0.99			7.47	99.18	394.	34.	12.
VA01137	443.90	454.30	46.50	13.00	10.40	8.64	2.78	0.30	9.60	0.56			8.39	100.17	390.	40.	13.

Hole No. CH88-56 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01138	454.30	485.30	45.30	15.30	6.78	7.92	3.20	0.99	10.30	0.98			7.85	98.62	642.	47.	10.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA01882	62.30	62.90	610.0	66.0	149.0	<0.5	<5.0	34.0	47.0	12.0	<5.0	<1.0	<1.0	1300.0	31.	1.	6.
VA01883	101.00	102.70	1100.0	45.0	69.0	<0.5	<5.0	7.0	1.0	10.0	140.0	2.0	2.0	630.0	39.	2.	2.
VA01884	102.70	104.10	980.0	24.0	72.0	<0.5	<5.0	9.0	11.0	<5.0	55.0	1.0	<1.0	850.0	25.	1.	2.
VA01885	182.00	182.80	1000.0	25.0	82.0	<0.5	16.0	11.0	18.0	<5.0	50.0	<1.0	2.0	830.0	23.	1.	3.
VA01886	182.80	184.00	100.0	162.0	124.0	<0.5	7.0	39.0	49.0	22.0	36.0	<1.0	<1.0	1100.0	57.	2.	8.
VA01887	184.00	185.00	60.0	273.0	136.0	<0.5	16.0	49.0	43.0	30.0	17.0	<1.0	<1.0	880.0	67.	2.	9.
VA01888	185.00	186.60	<20.0	218.0	135.0	<0.5	<5.0	47.0	42.0	28.0	18.0	<1.0	<1.0	780.0	62.	2.	8.
VA01889	213.00	214.00	1400.0	60.0	65.0	<0.5	<5.0	12.0	1.0	<5.0	30.0	1.0	<1.0	370.0	48.	1.	2.
VA01890	214.00	215.00	1400.0	106.0	58.0	<0.5	<5.0	9.0	4.0	6.0	16.0	1.0	1.0	150.0	65.	5.	3.
VA01891	215.00	216.00	1400.0	77.0	43.0	<0.5	<5.0	6.0	5.0	<5.0	8.0	<1.0	2.0	150.0	64.	2.	3.
VA01892	216.00	217.00	1200.0	7.0	30.0	<0.5	<5.0	<1.0	2.0	<5.0	<5.0	<1.0	<1.0	135.0	19.	1.	1.
VA01893	217.00	218.00	1500.0	60.0	30.0	<0.5	<5.0	8.0	<1.0	<5.0	<5.0	<1.0	<1.0	140.0	67.	3.	2.
VA01894	218.00	219.00	1200.0	36.0	25.0	<0.5	<5.0	5.0	<1.0	<5.0	<5.0	<1.0	<1.0	120.0	59.	1.	1.
VA01895	219.00	220.00	1400.0	31.0	22.0	<0.5	<5.0	4.0	<1.0	<5.0	<5.0	<1.0	<1.0	85.0	58.	2.	1.
VA01896	222.00	223.00	1400.0	41.0	28.0	<0.5	10.0	5.0	<1.0	<5.0	<5.0	<1.0	<1.0	70.0	59.	3.	1.
VA01897	223.00	224.50	1300.0	20.0	34.0	<0.5	<5.0	3.0	<1.0	<5.0	<5.0	<1.0	<1.0	85.0	37.	1.	1.
VA01898	268.50	269.50	1600.0	30.0	19.0	<0.5	<5.0	4.0	2.0	12.0	<5.0	<1.0	24.0	120.0	61.	1.	1.
VA01899	269.50	270.50	1600.0	37.0	32.0	<0.5	5.0	10.0	2.0	8.0	<5.0	<1.0	8.0	190.0	54.	1.	2.
VA01900	282.20	283.70	2000.0	62.0	30.0	<0.5	<5.0	9.0	<1.0	21.0	<5.0	<1.0	6.0	115.0	67.	1.	2.
VA01901	283.70	284.70	1600.0	62.0	34.0	<0.5	<5.0	4.0	2.0	<5.0	<5.0	<1.0	3.0	80.0	65.	1.	2.
VA01902	284.70	285.70	1600.0	93.0	60.0	<0.5	9.0	7.0	<1.0	8.0	<5.0	<1.0	6.0	100.0	61.	1.	3.
VA01903	285.70	286.20	1800.0	837.0	95.0	0.6	59.0	20.0	10.0	11.0	13.0	<1.0	6.0	150.0	90.	6.	7.
VA01904	286.20	287.70	1600.0	83.0	64.0	<0.5	<5.0	5.0	<1.0	26.0	<5.0	<1.0	5.0	140.0	56.	1.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01905	287.70	289.00	1600.0	60.0	123.0	<0.5	7.0	7.0	<1.0	54.0	5.0	<1.0	3.0	90.0	33.	1.	2.
VA01906	289.00	290.00	1400.0	9.0	34.0	<0.5	<5.0	<1.0	<1.0	16.0	<5.0	<1.0	2.0	110.0	21.	1.	1.
VA01907	290.00	291.00	1400.0	50.0	62.0	<0.5	<5.0	9.0	11.0	11.0	<5.0	<1.0	1.0	190.0	45.	1.	2.
VA01908	291.00	291.50	2000.0	193.0	2353.0	<0.5	32.0	7.0	7.0	17.0	10.0	12.0	3.0	140.0	8.	4.	4.
VA01909	291.50	293.00	1500.0	85.0	55.0	<0.5	14.0	4.0	<1.0	<5.0	<5.0	<1.0	1.0	90.0	61.	1.	2.
VA01910	298.20	298.80	1400.0	51.0	90.0	<0.5	5.0	12.0	17.0	21.0	8.0	<1.0	2.0	210.0	36.	4.	3.
VA01911	302.70	304.00	2000.0	80.0	49.0	<0.5	<5.0	8.0	2.0	20.0	<5.0	<1.0	<1.0	150.0	62.	2.	2.
VA01912	304.00	305.50	1400.0	101.0	149.0	<0.5	28.0	7.0	5.0	13.0	9.0	<1.0	2.0	95.0	40.	2.	3.
VA01913	305.50	307.00	1500.0	118.0	194.0	<0.5	53.0	4.0	<1.0	48.0	20.0	<1.0	<1.0	60.0	38.	2.	3.
VA01914	307.00	308.10	1400.0	143.0	1430.0	<0.5	65.0	6.0	3.0	<5.0	8.0	6.0	1.0	50.0	9.	2.	4.
VA01915	308.10	308.60	1400.0	330.0	160.0	<0.5	26.0	60.0	20.0	9.0	8.0	<1.0	3.0	210.0	67.	6.	4.
VA01916	308.60	310.00	1600.0	140.0	40.0	<0.5	<5.0	6.0	10.0	6.0	<5.0	<1.0	1.0	140.0	78.	3.	1.
VA01917	310.00	311.50	1900.0	39.0	100.0	<0.5	5.0	5.0	10.0	29.0	<5.0	<1.0	1.0	115.0	28.	3.	2.
VA01918	311.50	313.00	2000.0	61.0	105.0	<0.5	30.0	6.0	5.0	10.0	7.0	<1.0	3.0	125.0	37.	3.	3.
VA01919	313.00	314.70	2000.0	68.0	85.0	<0.5	10.0	5.0	10.0	8.0	5.0	<1.0	2.0	160.0	44.	3.	2.
VA01920	320.90	322.40	<20.0	1790.0	195.0	1.3	52.0	39.0	40.0	<5.0	10.0	1.0	4.0	700.0	90.	1.	10.
VA01921	337.10	338.10	2400.0	171.0	200.0	<0.5	34.0	12.0	15.0	10.0	10.0	<1.0	8.0	160.0	46.	1.	4.
VA01922	341.70	342.70	1700.0	118.0	70.0	<0.5	10.0	8.0	10.0	35.0	6.0	<1.0	2.0	100.0	63.	2.	3.
VA01923	346.00	347.70	1600.0	66.0	135.0	<0.5	<5.0	6.0	15.0	5.0	5.0	<1.0	2.0	95.0	33.	1.	2.
VA01924	347.70	348.30	2000.0	108.0	230.0	<0.5	<5.0	12.0	15.0	7.0	7.0	<1.0	6.0	90.0	32.	3.	3.
VA01925	348.30	349.80	1900.0	55.0	70.0	<0.5	<5.0	6.0	10.0	<5.0	<5.0	<1.0	4.0	50.0	44.	1.	1.
VA01926	349.80	351.00	1900.0	93.0	70.0	<0.5	6.0	10.0	15.0	<5.0	6.0	<1.0	7.0	40.0	57.	3.	3.
VA01927	351.00	352.40	1800.0	128.0	35.0	<0.5	10.0	7.0	10.0	<5.0	<5.0	<1.0	4.0	25.0	79.	3.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01928	354.00	355.00	1800.0	61.0	65.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	4.0	20.0	48.	0.	2.
VA01929	355.00	356.10	1800.0	119.0	35.0	<0.5	60.0	7.0	5.0	<5.0	<5.0	<1.0	6.0	30.0	77.	3.	2.
VA01930	356.10	357.20	1700.0	44.0	30.0	<0.5	9.0	7.0	10.0	9.0	6.0	<1.0	4.0	20.0	59.	3.	3.
VA01931	357.20	357.70	1100.0	88.0	75.0	<0.5	75.0	20.0	15.0	10.0	56.0	<1.0	10.0	15.0	54.	20.	+10.
VA01932	357.70	358.20	1200.0	162.0	25.0	<0.5	12.0	15.0	15.0	<5.0	16.0	<1.0	7.0	10.0	87.	20.	8.
VA01933	358.20	358.70	1100.0	109.0	20.0	<0.5	21.0	20.0	10.0	<5.0	22.0	<1.0	5.0	10.0	85.	20.	+10.
VA01934	358.70	359.20	1200.0	66.0	25.0	<0.5	9.0	10.0	10.0	<5.0	14.0	<1.0	8.0	5.0	73.	20.	8.
VA01935	359.20	359.70	1000.0	59.0	20.0	<0.5	18.0	6.0	10.0	<5.0	24.0	<1.0	5.0	5.0	75.	20.	+10.
VA01936	359.70	360.50	1000.0	148.0	25.0	<0.5	17.0	13.0	10.0	<5.0	15.0	<1.0	9.0	15.0	86.	15.	6.
VA01937	360.50	361.40	1600.0	31.0	35.0	<0.5	17.0	4.0	5.0	<5.0	<5.0	<1.0	2.0	15.0	47.	5.	2.
VA01938	361.40	362.30	2000.0	42.0	50.0	<0.5	27.0	4.0	5.0	<5.0	6.0	<1.0	4.0	10.0	46.	3.	3.
VA01939	362.30	364.00	2300.0	21.0	35.0	<0.5	7.0	3.0	10.0	<5.0	<5.0	<1.0	3.0	10.0	38.	1.	1.
VA01940	364.00	366.00	2300.0	39.0	420.0	<0.5	6.0	3.0	4.0	<5.0	<5.0	<1.0	5.0	15.0	9.	1.	1.
VA01941	366.00	368.00	2100.0	34.0	45.0	<0.5	<5.0	3.0	5.0	<5.0	<5.0	<1.0	5.0	20.0	43.	1.	1.
VA01942	368.00	369.50	2200.0	20.0	40.0	<0.5	<5.0	2.0	10.0	7.0	<5.0	<1.0	3.0	25.0	33.	1.	1.
VA01943	369.50	370.80	2500.0	69.0	115.0	<0.5	7.0	3.0	5.0	7.0	<5.0	<1.0	4.0	40.0	38.	1.	2.
VA01944	370.80	372.20	750.0	64.0	175.0	<0.5	23.0	29.0	25.0	17.0	21.0	<1.0	7.0	920.0	27.	7.	9.
VA01945	372.20	373.70	2100.0	48.0	185.0	<0.5	11.0	8.0	10.0	25.0	14.0	<1.0	3.0	350.0	21.	2.	3.
VA01946	373.70	375.20	2800.0	60.0	35.0	<0.5	<5.0	3.0	5.0	14.0	5.0	<1.0	4.0	60.0	63.	2.	1.
VA01947	375.20	376.70	3000.0	37.0	65.0	<0.5	9.0	5.0	5.0	13.0	10.0	<1.0	5.0	50.0	36.	2.	2.
VA01948	376.70	378.20	2900.0	23.0	35.0	<0.5	27.0	4.0	5.0	6.0	6.0	<1.0	4.0	15.0	40.	2.	2.
VA01949	378.20	379.70	2500.0	68.0	45.0	<0.5	17.0	4.0	5.0	5.0	6.0	<1.0	3.0	20.0	60.	2.	3.
VA01950	379.70	381.20	2000.0	30.0	110.0	<0.5	<5.0	8.0	15.0	7.0	5.0	<1.0	4.0	105.0	21.	2.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01951	381.20	382.70	2800.0	108.0	70.0	<0.5	9.0	4.0	5.0	<5.0	6.0	<1.0	4.0	20.0	61.	2.	2.
VA01952	382.70	384.20	3000.0	82.0	40.0	<0.5	13.0	4.0	5.0	15.0	6.0	<1.0	5.0	15.0	67.	2.	2.
VA01953	384.20	385.30	3300.0	226.0	250.0	0.7	21.0	7.0	9.0	32.0	8.0	1.0	5.0	40.0	47.	5.	4.
VA01954	385.30	386.40	3900.0	62.0	195.0	<0.5	7.0	7.0	6.0	13.0	5.0	<1.0	6.0	30.0	24.	5.	2.
VA01955	386.40	387.50	4100.0	175.0	100.0	0.6	8.0	6.0	6.0	50.0	5.0	<1.0	6.0	75.0	64.	5.	3.
VA01956	387.50	388.70	1000.0	170.0	365.0	0.8	78.0	27.0	37.0	50.0	34.0	<1.0	6.0	870.0	32.	5.	4.
VA01957	388.70	390.20	3800.0	812.0	110.0	1.7	68.0	12.0	14.0	152.0	24.0	<1.0	5.0	320.0	88.	3.	3.
VA01958	390.20	391.70	3300.0	31.0	105.0	0.6	124.0	9.0	8.0	162.0	6.0	<1.0	7.0	155.0	23.	3.	2.
VA01959	391.70	393.20	2800.0	74.0	50.0	0.5	103.0	10.0	8.0	61.0	7.0	<1.0	7.0	90.0	60.	3.	2.
VA01960	393.20	394.70	3200.0	86.0	70.0	0.5	43.0	6.0	6.0	27.0	14.0	<1.0	7.0	65.0	55.	3.	2.
VA01961	394.70	396.00	5600.0	40.0	25.0	<0.5	39.0	4.0	4.0	13.0	8.0	<1.0	6.0	40.0	62.	3.	1.
VA01962	396.00	397.50	3100.0	45.0	30.0	<0.5	33.0	6.0	7.0	20.0	6.0	<1.0	7.0	115.0	60.	3.	3.
VA01963	397.50	399.00	2200.0	38.0	30.0	<0.5	17.0	6.0	6.0	10.0	5.0	<1.0	9.0	120.0	56.	3.	3.
VA01964	399.00	400.50	1600.0	53.0	35.0	<0.5	8.0	8.0	10.0	8.0	8.0	<1.0	8.0	180.0	60.	3.	4.
VA01965	400.50	401.70	2000.0	22.0	30.0	<0.5	<5.0	4.0	6.0	6.0	<5.0	<1.0	8.0	90.0	42.	1.	2.
VA01966	401.70	402.90	1700.0	36.0	30.0	<0.5	<5.0	4.0	6.0	6.0	<5.0	<1.0	8.0	105.0	55.	1.	1.
VA01967	402.90	404.20	1800.0	35.0	30.0	<0.5	<5.0	5.0	7.0	5.0	5.0	<1.0	7.0	75.0	54.	1.	2.
VA01968	404.20	406.00	2000.0	50.0	30.0	<0.5	<5.0	6.0	11.0	11.0	<5.0	<1.0	9.0	110.0	63.	2.	1.
VA01969	406.00	408.00	2100.0	33.0	25.0	<0.5	<5.0	3.0	5.0	7.0	<5.0	<1.0	7.0	40.0	57.	2.	1.
VA01970	408.00	410.00	2500.0	40.0	40.0	<0.5	<5.0	4.0	5.0	6.0	<5.0	<1.0	7.0	30.0	50.	2.	1.
VA01971	410.00	412.00	2500.0	79.0	225.0	<0.5	<5.0	4.0	5.0	6.0	<5.0	1.0	7.0	30.0	26.	2.	1.
VA01972	412.00	413.60	2000.0	745.0	1075.0	<0.5	8.0	4.0	5.0	<5.0	<5.0	3.0	7.0	20.0	41.	2.	2.
VA01973	413.60	414.90	1700.0	1068.0	75.0	0.7	27.0	7.0	8.0	<5.0	<5.0	<1.0	7.0	25.0	93.	5.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01974	414.90	416.20	1900.0	252.0	30.0	<0.5	19.0	7.0	8.0	<5.0	8.0	<1.0	8.0	15.0	89.	5.	3.
VA01975	416.20	416.70	1800.0	469.0	60.0	0.6	84.0	5.0	8.0	5.0	16.0	<1.0	8.0	5.0	89.	20.	6.
VA01976	416.70	417.20	1700.0	249.0	30.0	0.5	35.0	4.0	7.0	<5.0	12.0	<1.0	8.0	5.0	89.	20.	5.
VA01977	417.20	417.70	1400.0	455.0	1165.0	0.6	87.0	7.0	11.0	<5.0	20.0	4.0	11.0	10.0	28.	20.	7.
VA01978	417.70	419.00	1300.0	90.0	15.0	<0.5	116.0	10.0	9.0	<5.0	18.0	<1.0	9.0	5.0	86.	2.	3.
VA01979	419.00	420.00	1300.0	71.0	15.0	<0.5	306.0	10.0	11.0	<5.0	18.0	<1.0	9.0	10.0	83.	2.	3.
VA01980	420.00	421.00	1500.0	58.0	10.0	<0.5	87.0	10.0	10.0	<5.0	20.0	<1.0	8.0	10.0	85.	2.	3.
VA01981	421.00	422.00	2700.0	1164.0	40.0	1.0	256.0	4.0	6.0	<5.0	8.0	<1.0	9.0	15.0	97.	2.	2.
VA01982	422.00	423.00	5200.0	697.0	5600.0	1.3	83.0	10.0	17.0	7.0	18.0	13.0	14.0	120.0	11.	5.	4.
VA01983	423.00	424.00	6100.0	816.0	11600.0	1.9	101.0	16.0	28.0	9.0	26.0	42.0	19.0	260.0	7.	7.	6.
VA01984	424.00	425.00	4900.0	1063.0	555.0	1.5	124.0	10.0	13.0	7.0	6.0	2.0	17.0	80.0	66.	5.	5.
VA01985	425.00	425.90	7300.0	714.0	670.0	1.3	63.0	8.0	11.0	6.0	18.0	2.0	16.0	30.0	52.	2.	4.
VA01986	425.90	426.70	9900.0	10900.0	5400.0	8.6	318.0	5.0	8.0	136.0	64.0	20.0	16.0	15.0	67.	40.	9.
VA01987	426.70	427.60	9000.0	1071.0	2670.0	1.3	84.0	14.0	82.0	9.0	26.0	13.0	9.0	230.0	29.	5.	4.
VA01988	427.60	428.00	13000.0	3800.0	22000.0	7.0	416.0	4.0	6.0	13.0	97.0	111.0	14.0	30.0	15.	10.	4.
VA01989	428.00	429.20	15000.0	3600.0	9600.0	12.0	562.0	5.0	10.0	209.0	50.0	40.0	12.0	10.0	27.	7.	4.
VA01990	429.20	430.40	19000.0	1860.0	8400.0	12.0	349.0	5.0	14.0	577.0	45.0	33.0	15.0	5.0	18.	7.	4.
VA01991	430.40	431.00	13000.0	3900.0	26500.0	25.0	2879.9	3.0	7.0	935.0	50.0	124.0	13.0	20.0	13.	25.	4.
VA01992	431.00	431.50	11000.0	7400.0	59400.0	89.5	3119.9	3.0	11.0	10100.0	10.0	241.0	14.0	135.0	11.	35.	4.
VA01993	431.50	431.90	8800.0	5400.0	3700.0	13.0	403.0	3.0	9.0	631.0	10.0	15.0	11.0	30.0	59.	6.	4.
VA01994	431.90	432.20	13000.0	12600.0	48000.0	42.5	1371.4	3.0	10.0	5400.0	38.0	204.0	14.0	60.0	21.	25.	4.
VA01995	432.20	432.70	10000.0	2028.0	14000.0	15.0	317.0	9.0	16.0	1622.0	13.0	65.0	12.0	145.0	13.	7.	5.
VA01996	432.70	434.00	1600.0	125.0	385.0	0.7	19.0	16.0	20.0	40.0	20.0	<1.0	8.0	760.0	25.	1.	6.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01997	437.00	439.00	640.0	130.0	225.0	<0.5	8.0	25.0	51.0	17.0	22.0	<1.0	7.0	900.0	37.	1.	7.
VA01998	485.30	486.80	200.0	80.0	230.0	<0.5	27.0	15.0	35.0	29.0	90.0	<1.0	5.0	560.0	26.	1.	5.

Summary Log: DDH CH88-57
Location: 40+00 E, 1+90 S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 20, 1988
Core logged by: J. Pattison

0.0	10.5	Casing
10.5	21.0	Gabbro
21.0	50.0	Felsic and intermediate tuffs
50.0	51.0	Gabbro Core is broken and blocky due to the Fulford Fault splay which occurs at the lower contact.
51.0	53.0	Nanaimo sediments
53.0	61.6	Quartz-sericite schist Up to 7 % disseminated pyrite and trace chalcopyrite.
61.6	68.5	Mafic to intermediate tuffaceous sediments
68.5	83.8	Nanaimo Conglomerate
83.8	202.2	Feldspar porphyritic gabbro
202.2	236.1	Cherty felsic tuff / tuffite
236.1	262.0	Feldspar porphyritic gabbro
262.0	270.0	Cherty felsic tuff / tuffite
270.0	313.3	Cherty argillite and greywacke

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-57 | Page Number 1

Hole Location: 40+00 E 1+90 S

NTS: 92B13 | UTM: 5416242.3 N 431130.2 E
Azimuth: 210 | Elevation: 558 m
Dip: -50 | Length: 313.3 m

Started: 14-May-88
Completed: 20-May-88

Claim No. Chip 1
Section No.: 40+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Entrprises
Assayed By: Bonadar-Clegg & XRAL

Core Size: NQ

Purpose: To test updip of Chem87-31.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
30.80	209.0	-52.0	216.70	211.0	-52.0
122.20	208.0	-52.0	305.10	211.0	-53.5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	10.5	OVERBURDEN											
10.5	21.0	MAFIC INTRUSIVE Dark green, fine-grained and locally feldspar porphyritic. Weak pervasive and fracture controlled carbonatization and weak fracture controlled hematization. Specks < 2 mm in diameter of a light brown soft alteration mineral (Fe carbonate ?) occur throughout the rock. Quartz-carbonate healed fractures are common. The core is broken and blocky throughout the interval and lost core intervals are listed below. . 10.7-12.2 m; 1.0 m lost core. 12.2-14.0 m; 0.4 m lost core. 14.0-17.1 m; 1.5 m lost core. 20.4-23.2 m; 0.3 m lost core. STRUCTURE:. 17.6-18.0 M fault gouge at 60 degrees to core axis.											
21.0	23.8	WEAKLY CHLORITIC FELSIC TUFF Mottled green-grey altered chloritic felsic to intermediate tuffs. Rock has a brecciated appearance throughout. Becomes quite siliceous and very fine-grained below 22.8 m. 1-2 % fracture controlled pyrite. STRUCTURE:. At 22.8 m bedding is at 35 degrees to core axis. 22.0 22.8 Alteration patch or mafic dyke. Rock is green-brown, chloritic moderately pervasively	VA02841	21.0	50.0	29.0	n/a	89	n/a	43	n/a	n/a	854

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-57 | Page Number 2

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		carbonatized and mafic in composition. Upper contact is fault breccia at 60 degrees to core axis and lower contact is very irregular at 10-50 degrees to core axis.											
23.8	31.5	INTERMEDIATE TUFF Medium green intermediate to mafic tuff with up to 5 % ash-sized quartz grains. Relatively massive, bedding not observered. Lower contact is at 65 degrees to core axis.	VA03856 VA03857 VA03858	25.6 26.6 27.1	26.6 27.1 28.1	1.0 .5 1.0	1 4 1	65 64 42	7 5 <5	105 80 115	<1 <1 <1	<5 7 14	730 440 <20
		STRUCTURE:. 27.1-28.7 m 0.2 m of lost core for no obvious reason. 29.5-30.2 M blocky, highly fractured core.											
		ALTERATION:. 23.8 31.9 MODERATE PERVASIVE CHLORITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION.											
		SULPHIDES:. 26.6-27.1 m 4 % fracture controlled pyrite and possibly trace sphalerite.											
31.5	40.0	CHLORITIC FELSIC LAPILLI TUFF Composed of 5-10% beige to light grey rounded felsic fragments 2-5 mm long and 2-5%, 2 to 4 mm grey-blue quartz eyes in a fine-grained siliceous, weakly to moderately chloritic and moderately sericitic well foliated matrix. Lower contact is a 1.0 cm fault gouge at 60 degrees to core axis.	VA03859 VA03860 VA03861 VA03862 VA03863 VA03864	31.5 33.0 33.5 35.0 36.0 39.0	33.0 33.5 35.0 36.0 39.0 40.0	1.5 .5 1.5 1.0 3.0 1.0	4 7 4 4 5 3	227 137 115 139 142 10	117 57 40 32 21 <5	420 335 340 65 55 35	1 1 <1 <1 1 <1	29 70 22 14 15 <5	4300 4000 2900 1500 1500 1200
		STRUCTURE:. 31.7-32.1 M fault gouge at 50-60 degrees to core axis. 0.3 m of lost core. At 33.5 m foliation is at 50 degrees to core axis. 33.5-34.5 M FAULT ZONE at 50 degrees to core axis. 0.7 m of lost core. 35.7-38.4 M blocky, highly fractured core. 0.3 m of lost core. 38.6-39.1 M fault gouge at 52 degrees to core axis. 0.4 m of lost core.												
		ALTERATION:. 31.5 40.0 WEAK PERVASIVE CHLORITIZATION , MODERATE PERVASIVE SERICITIZATION.											
		SULPHIDES:. 31.5-33.0 m 4 % disseminated pyrite. 33.0-33.5 m 7 % pyrite, disseminated and in a 0.5 cm band at 50 degrees to core axis.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-57

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		33.5-38.4 m 4 % disseminated and fracture controlled pyrite 38.4-39.0 m 7 % disseminated pyrite. 39.0-40.0 m 3 % disseminated pyrite. 35.1 888.8 Chloritic mafic dyke or tuff at 55 degrees to core axis.											
40.0	50.0	FELSIC TUFF Light grey sericitic felsic tuff with occasional white quartz eye up to 5 mm in diameter. 5 % 1 to 3 mm feldspar crystals between 44.2 and 45.3 m. Feldspars have a pinkish caste due to hematzation. Broken core at the lower contact. STRUCTURE:. 41.1-42.7 M blocky, highly fractured core 0.6 m of lost core. At 41.5 m foliation is at 70 degrees to core axis. 46.3-50.0 M blocky, highly fractured core. Fault zone (?). 1.7 m of lost core. ALTERATION:. 40.0 50.0 STRONG PERVASIVE SERICITIZATION and locally WEAK FRACTURE CONTROLLED CHLORITIZATION. SULPHIDES:. 40.0-43.2 m 5 % pyrite in bands (stringers/fractures) < 2 mm thick roughly parallel to foliation. 43.2-43.6 m 3 % pyrite, trace sphalerite and chalcopyrite in irregular quartz veins and pods up to 2.0 cm wide. 43.6-50.0 m 3 % disseminated and fracture controlled pyrite. Dark green to black chlorite sometimes occurs along the fractures. 40.0 41.1 Dark green fine-grained chloritic mafic dyke. Upper and lower contacts are slips at 60 degrees to core axis. 42.7 43.0 MAFIC DYKE at 75 degrees to core axis. 43.2 43.6 MAFIC DYKE at 65 degrees to core axis. Several quartz-carbonate veins with pyrrhotite and chalcopyrite.	VA03865	40.0	41.0	1.0	5	46	47	45	<1	7	1000
			VA03866	41.0	42.0	1.0	5	33	56	50	<1	22	1100
			VA03867	42.0	43.2	1.2	5	354	47	45	1	25	1400
			VA03868	43.2	43.6	.4	3	102	11	90	<1	18	550
			VA03869	43.6	44.0	.4	3	43	21	70	<1	5	1900
			VA03870	44.0	45.0	1.0	3	14	19	30	<1	27	1500
			VA03871	45.0	46.0	1.0	3	31	14	70	<1	525	1700
			VA03872	46.0	47.0	1.0	3	17	7	50	<1	29	1700
			VA03873	47.0	48.0	1.0	3	27	<5	60	<1	17	1600
			VA03874	48.0	50.0	2.0	3	34	8	90	<1	17	1600
50.0	51.0	MAFIC INTRUSIVE Dark green, fine-grained mafic dyke. Weak fracture controlled carbonate alteration and very weak hematization. Light brown alteration mineral (Fe carbonate ?) occurs as 1-3 mm specks throughout the unit.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-57 Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Core is broken and blocky over the entire interval and there is 0.2 m of lost core. Broken core at lower contact.											
51.0	52.5	NANAIMO ARGILLITE Dark brown, massive argillite. Core is broken and blocky throughout. 0.9 M of lost core. Lower contact is at 50 degrees to core axis.											
52.5	53.0	NANAIMO CONGLOMERATE Matrix supported pebble to cobble conglomerate. Clasts are rounded and occur in a matrix which grades from a dark brown argillite to a coarse wacke with depth. The following clast types occur.. Feldspar porphyritic gabbro (60 %. Fine-grained light grey pyrite-bearing felsic tuff (40%). Lower contact is a slip at 70 degrees to core axis.											
53.0	61.6	FELSIC QUARTZ EYE TUFF Light grey, fine-grained strongly sericitic felsic tuff. Rock is crushed and strongly foliated (poker chipped). In a few places light grey felsic lapilli can be recognized. Broken core (fault) at the lower contact. STRUCTURE:. At 53.5 m 5.0 cm fault gouge at 80 degrees to core axis. 53.6-54.9 M blocky, highly fractured core. 1.0 m of lost core. At 55.3 m foliation is at 60 degrees to core axis. 57.7-59.4 M FAULT ZONE at 40 to 55 degrees to core axis. 1.4 m of lost core. 60.7-61.0 M fault gouge at 30 degrees to core axis. 61.3-61.6 M fault zone. Not possible to measure orientation. 0.3 m of lost core. ALTERATION. 53.0 54.9 STRONG PERVASIVE SERICITIZATION. Occasional spot of mariposite. 54.9 61.6 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. SULPHIDES:. 53.0-57.0 m 4 % disseminated and fracture controlled pyrite 57.0-58.0 m 7 % pyrite and 0.25 % chalcopyrite. Sulphides occur in bands <2 mm wide parallel to foliation. 58.0-61.6 m 4 % disseminated pyrite and trace chalcopyrite.	VA03875	53.0	55.0	2.0	4	118	48	165	<1	42	2600
			VA02842	53.0	61.6	8.6	n/a	121	n/a	325	n/a	n/a	1740
			VA03876	55.0	56.0	1.0	4	168	108	415	1	30	1900
			VA03877	56.0	57.0	1.0	4	281	91	755	<1	74	1200
			VA03878	57.0	58.0	1.0	7	1401	10	70	<1	47	980
			VA03879	58.0	60.0	2.0	4	86	11	50	<1	35	1200
			VA03880	60.0	61.0	1.0	4	159	10	40	<1	15	1200
			VA03881	61.0	61.6	.6	4	70	9	70	<1	13	1500
61.6	68.5	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Green, fine-grained locally cherty mafic tuff with beds, ripped-up beds and blocks of pale brown cherty sediments. Rock is broken and blocky over most of the interval. Nil to trace disseminated pyrite. Lower contact is a 2.0 cm fault gouge at 60 degrees to core axis.	VA03882	61.6	62.6	1.0	1	83	<5	65	<1	14	580
			VA02843	61.6	68.5	6.9	n/a	307	n/a	50	n/a	n/a	840
		STRUCTURE:. At 68.5 m 2.0 cm fault gouge at 60 degrees to core axis.											
68.5	83.8	NANAIMO CONGLOMERATE Clast supported, unsorted pebble to cobble conglomerate. The clasts are subangular to subrounded. The following clast types occur:. Feldspar porphyritic gabbro (80 %). Felsic volcanics/volcaniclastics (10%). Cherty fine-grained sediments (5 %). Quartz pebbles (5%). Core is broken and blocky over the entire interval. Lower contact is irregular but appears to be an errosional unconformity.											
		STRUCTURE:. 72.2-73.0 M blocky, highly fractured core. 0.2 m of lost core.											
		74.3 82.9 Large boulder of FELDSPAR PORPHYRITIC GABBRO. Dark green fine-grained with 5-10%, 2-3 mm feldspar phenocrysts and up to 4 % ilmenite as anhedral spots 1-2 mm in diameter often rimmed by leucoxene.											
		STRUCTURE:. Core is broken and blocky over most of the interval. 75.0-75.6 M blocky, highly fractured core. 0.1 m of lost core. 77.0-78.0 M blocky, highly fractured core. Several slips at 60-80 degrees to core axis. 0.3 m of lost core. 79.0-82.7 M FAULT ZONE at 60-70 degrees to core axis. 1.3 m of lost core.											
83.8	202.2	FELDSPAR PORPHYRITIC GABBRO Dark green, fine-grained, massive with 5-10% white 1-3 mm feldspar phenocrysts and 2-3% finely diss ilmenite rimmed by white leucoxene. Varies from a fine-grained feldspar porphyritic gabbro to a medium-grained equigranular gabbro. All mafic minerals have gone to chlorite. Locally weakly glomeroporphyritic. Weak to moderate fracture controlled quartz-carbonate alteration. Unoriented quartz-carbonate veinlets and veins up to 1.0											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		cm thick are common throughout the unit. Lower contact is at 35 degrees to core axis.											
		STRUCTURE:.											
		84.0-87.5 M blocky FAULT ZONE. Not possible to measure orientation of the fault. 1.1 m of lost core.											
		91.0-93.0 M blocky, highly fractured core. 1.2 m of lost core.											
		95.7-96.8 M blocky, highly fractured core. 0.2 m lower contact. Slip at 15 degrees to core axis at 96.7 m.											
		100.9-102.4 M blocky, highly fractured core.											
		113.8-115.7 M blocky, highly fractured core. 0.2 m of lost core.											
		122.5-135.6 M blocky, highly fractured core. 1.3 m of lost core. Fault gouge runs close to the core axis between 134.7 and 135.0 m.											
		138.5-141.7 M blocky, highly fractured core. 0.3 m of lost core.											
		145.1-145.6 M blocky, highly fractured core. 0.2 m of lost core.											
		148.3-148.5 M fault zone at 25 degrees to core axis.											
		153.2-153.5 M blocky, highly fractured core. 0.2 m of lost core.											
		163.2-163.4 M blocky, highly fractured core. 0.1 m of lost core.											
		At 163.6 m slip at 15 degrees to core axis.											
		167.0-169.0 M foliation is almost parallel to the core axis											
		At 196.0 m 1.0 cm fault gouge at 50 degrees to core axis.											
103.0	106.2	Occasional epidote+/-calcite veins and patches up to 1.0 cm wide.											
111.6	125.6	Quartz-carbonate veinlets and veins up to 0.5 cm thick are common.											
133.8	134.3	Coarse-grained granophyric phase of the gabbro.											
142.1	149.8	Specks of a soft light brown clay alteration mineral throughout the rock (2 %) does not fizz in HCl.											
154.9	155.4	Weakly sheared and carbonatized zone at 30 degrees to core axis.											
159.2	159.4	Coarse-grained ilmenite rich granophyric phase of the gabbro. Upper and lower contacts with the medium-grained gabbro are at 35-40 degrees to core axis.											
159.4	160.0	Quartz-carbonate veins up to 3.0 cm wide at 0-30 degrees to core axis with 0.5 % chalcopyrite.											

From (m)	To (m)	DESCRIPTION
		163.6 164.5 Fine-grained non feldspar porphyritic section. Many quartz-carbonate veins and pods and dark green to black chlorite spots are common.
		166.4 170.0 Carbonate+/-quartz altered zone. Many carbonate-filled fractures and locally rock is brecciated. Carbonate veins are cut by quartz-carbonate veins up to 2.0 with trace chalcopyrite up to 3.0 cm wide at 30-40 degrees to core axis.
		174.7 175.9 Coarse-grained granophyric phase of gabbro. 10-15 % coarse-grained ilmenite almost entirely altered to leucoxene. Broken core at the upper contact. 0.4 cm quartz filled fracture at 50 degrees to core axis at the lower contact.
		188.3 188.5 Quartz-carbonate vein with minor hematite at 20 degrees to core axis.
202.2	236.1	CHERTY FELSIC TUFF / TUFFITE Very fine-grained cherty light grey to green to brown, mottled, finely bedded to laminated felsic tuffite. Black argillite beds up to 4 mm thick are common above 206.0 m. Occasional bed of mafic to intermediate tuff <1.5 cm thick. Moderately to intensely microfractured. Microfractures are healed with quartz+carbonate. Two gabbro dykes near the upper contact. Rock is broken and blocky over most of the interval. Lower contact is sharp and intrusive looking at 30 degrees to core axis. STRUCTURE:. At 204.6 bedding is at 43 degrees to core axis. 208.2-208.5 M blocky, highly fractured core. 0.2 m of lost core. At 209.0 m bedding is at 30 degrees to core axis. 209.0-209.4 M blocky, highly fractured core. 0.2 m of lost core. 211.0-217.7 M blocky, highly fractured core. 1.3 m of lost core. At 215.3 m bedding is at 15 degrees to core axis. 218.8-224.6 M blocky, highly fractured core. 2.1 m of lost core. Most core loss (1.2 m) occurs between 220.1 and 221.3 m. At 224.5 bedding is at 20 degrees to core axis. 225.9-226.2 M blocky, highly fractured core. 0.1 m of lost core. 226.6-227.7 M blocky, highly fractured core.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03883	202.2	202.6	.4	2	95	10	65	<1	10	2500
~~VA02844~~	~~202.2~~	~~236.1~~	~~33.9~~	~~n/a~~	~~41~~	~~n/a~~	~~<10~~	~~n/a~~	~~n/a~~	~~5260~~
VA03884	203.2	204.0	.8	2	49	6	55	<1	6	2900
VA03885	204.0	205.0	1.0	2	27	<5	50	<1	<5	7600
VA03886	205.0	206.0	1.0	2	39	7	55	<1	5	5700
VA03887	206.0	207.0	1.0	2	59	6	65	1	6	4100
VA03888	207.0	208.0	1.0	2	45	6	55	<1	6	4100
VA03889	208.0	209.0	1.0	2	36	<5	55	<1	5	3800
VA03890	209.0	210.0	1.0	2	57	<5	55	<1	6	5200
VA03891	210.0	211.0	1.0	2	38	<5	40	<1	5	4400
VA03892	211.0	212.0	1.0	2	20	6	45	<1	8	5100
VA03893	212.0	214.0	2.0	2	23	6	85	<1	<5	2800
VA03894	214.0	215.0	1.0	2	35	7	135	<1	<5	3900
VA03895	215.0	216.0	1.0	2	30	6	50	<1	<5	3000
VA03896	216.0	217.7	1.7	2	11	<5	70	<1	<5	1200
VA03897	217.7	218.0	.3	2	57	<5	65	<1	<5	270
VA03898	218.0	219.0	1.0	1	14	<5	45	<1	<5	1500
VA03899	219.0	221.3	2.3	1	8	<5	45	<1	<5	1900
VA03900	221.3	223.1	1.8	1	21	15	110	<1	<5	2000
VA03901	223.1	224.0	.9	1	10	6	90	<1	<5	1700
VA03902	224.0	225.0	1.0	1	8	7	120	<1	<5	6700
VA03903	225.0	226.2	1.2	1	30	7	100	<1	<5	8700
VA03904	226.2	227.0	.8	1	28	6	155	<1	<5	5400
VA03905	227.0	228.0	1.0	1	50	9	100	<1	<5	3800
VA03906	228.0	229.0	1.0	1	52	10	65	<1	<5	1700
VA03907	229.0	230.0	1.0	1	13	6	55	<1	<5	1100
VA03908	230.0	232.0	2.0	1	39	5	65	<1	5	2100

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-57 | Page Number 8

From (m)	To (m)	----------DESCRIPTION----------
		229.0-232.8 M blocky, highly fractured core. 1.4 m of lost core.
		At 235.5 m bedding is at 25 degrees to core axis. 30°
		ALTERATION:.
		202.2 233.1 WEAK FRACTURE CONTROLLED CARBONATIZATION and WEAK FRACTURE CONTROLLED SILICIFICATION.
		SULPHIDES:.
		202.2-202.6 m 1.5 % fracture controlled pyrite and trace chalcopyrite.
		203.2-218.0 m 2 % fracture controlled pyrite.
		218.0-233.1 M trace to 1 % fracture controlled pyrite.
		202.6 203.2 Fine-grained feldspar porphyritic mafic dyke with a 10 cm xenolith of cherty siltstone. Upper contact is at 60 degrees to core axis and lower contact is at 30 degrees to core axis
		205.2 205.3 Rhythmically banded cherty siltstone and black argillite. Beds are 1 to 4 mm thick.
		205.8 207.4 Intensely microfractured and brecciated zone fractures are filled with quartz+/-carbonate. 2 % fracture controlled pyrite.
		217.7 218.0 Carbonate-chlorite-epidote alteration zone at 40 degrees to core axis.
		224.6 225.0 Carbonate altered mafic tuff beds up to 2.0 cm thick.
		223.1 224.0 Grainsize increases to sand. Moderate pervasive carbonatization.
		232.0 232.2 Massive green MAFIC TUFF. Broken core at upper and lower contacts.
		230.1 234.0 Massive green MAFIC TUFF. Upper contact is a 5 mm fault gouge at 60 degrees to core axis. Lower contact is at 50 degrees to core axis.
		235.0 236.1 Tuff becomes a coarse-grained mafic tuff.
236.1	262.0	FELDSPAR PORPHYRITIC GABBRO
		Medium green fine-grained feldspar porphyritic gabbro with 1-3 % finely disseminated ilmenite. 0.3 m chill margin at the upper contact. Quartz-carbonate veinlets and veins up to 10 mm thick are common. There are at least two generations of quartz-carbonate veining. In zones of

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03909	232.0	233.0	1.0	1	60	<5	90	<1	<5	350
VA03910	233.0	234.0	1.0	1	23	<5	105	<1	<5	970
VA03911	234.0	235.0	1.0	1	29	12	160	<1	<5	140
VA03912	235.0	236.1	1.1	1	20	32	111	<1	<5	190
			33.9		30	6	79	<1	<5	3161

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		moderate quartz-carbonate veining rock is non feldspar porphyritic. Lower contact is at 40 degrees to core axis.											
		STRUCTURE:. 250.1-250.5 M fault gouge at 60 degrees to core axis. 0.3 m of lost core. 251.4-251.5 M fault gouge at 40 degrees to core axis.											
		244.2 245.0 Non feldspar porphyritic zone. Epidote filled microfractures.											
		245.6 252.5 Up to 2 % flakes of a light brown clay mineral < 2 mm in diameter throughout the rock.											
		254.0 888.8 Few specks of hematite in quartz-carbonate veinlets.											
262.0	270.0	CHERTY FELSIC TUFF / TUFFITE											
		Similiar to 202.2 to 236.1 except has more pyrite (2-4 %), bedding much less recognizable. Becomes argillaceous and turns dark grey towards its lower contact. Up to 5 % feldspar crystals << 1 mm occur locally. Rock has a pale pinkish-brown caste over the first 1.3 m. Due to very finely disseminated biotite. Lower contact is gradational.	~~VA02845~~	~~262.0~~	~~270.0~~	~~8.0~~	~~n/a~~	~~38~~	~~n/a~~	~~85~~	~~n/a~~	~~n/a~~	~~5170~~
			VA03913	262.0	263.0	1.0	1	21	25	185	<1	<5	4300
			VA03914	263.0	263.3	.3	2	28	17	650	<1	6	18000
			VA03915	263.3	264.0	.7	2	12	21	74	<1	<5	2600
			VA03916	264.0	265.0	1.0	4	35	22	159	<1	15	1600
			VA03917	265.0	266.0	1.0	4	24	20	154	<1	5	3300
			VA03918	266.0	267.0	1.0	4	27	22	73	<1	<5	2400
		STRUCTURE:. At 262.8 m bedding is at 38 degrees to core axis. At 264.6 m bedding is at 25 degrees to core axis.	VA03919	267.0	268.0	1.0	4	35	27	106	<1	<5	1500
			VA03920	268.0	269.0	1.0	4	33	30	30	<1	<5	2200
			VA03921	269.0	270.0	1.0	4	34	23	36	<1	<5	2000
						8.0		24	24	163	<1	5	4211
		ALTERATION:.											
		SULPHIDES:. 262.0-263.3 m 1 % fracture controlled pyrite. 263.3-270.0 m 3-4% fracture controlled pyrite.											
270.0	313.3	BLACK ARGILLITE											
		Massive, dark grey to black cherty weakly graphitic argillite. Locally moderately graphitic. Blocky, broken core throughout. Quartz-carbonate filled fractures throughout.	VA03922	270.0	271.0	1.0	4	56	23	46	1	25	3600
			VA03923	271.0	272.0	1.0	4	40	25	65	1	18	2000
			VA03924	272.0	273.0	1.0	4	49	26	45	1	<5	2400
			VA03925	273.0	274.0	1.0	4	35	23	80	1	<5	2000
			VA03926	274.0	275.0	1.0	4	39	25	56	<1	<5	1500
		STRUCTURE:.	VA03927	275.0	278.0	3.0	4	19	24	87	<1	<5	1700
		269.8-270.3 M slip runs nearly parallel to the core axis.	VA03928	278.0	279.5	1.5	2	40	28	87	1	<5	1800
		274.9-279.6 M blocky, highly fractured core. 3.3 m of lost core.	VA03929	279.5	280.4	.9	2	14	28	49	<1	<5	1300
			VA03930	280.4	282.4	2.0	2	16	25	87	<1	<5	1600
		281.2-282.2 M fault gouge runs parallel to the core axis.	VA03931	282.4	284.1	1.7	2	14	24	61	<1	<5	1300
		281.2-284.1 M blocky, highly fractured core. 0.5 m of lost core.	VA03932	284.1	285.1	1.0	2	28	26	76	<1	<5	4500
			VA03933	285.1	286.1	1.0	2	14	20	73	<1	<5	3000
		At 284.2 m bedding is at 20 degrees to core axis.	VA03934	286.1	287.1	1.0	2	19	18	69	<1	<5	4700

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-57 Page Number 10

From (m)	To (m)	----------DESCRIPTION----------
		At 288.0 m bedding is at 13 degrees to core axis.
		288.7-308.0 M blocky, highly fractured core. 10.8 m of lost core.
		At 312.2 m bedding is at 12 degrees to core axis.
		309.0-311.5 m. 1.3 m of lost core.
		ALTERATION:.
		270.0 313.3 WEAK FRACTURE CONTROLLED CARBONATIZATION.
		SULPHIDES:.
		270.0-278.0 m 4 % fracture controlled pyrite.
		278.0-308.0 m 2 % disseminated and fracture controlled pyrite.
		308.0-313.3 m 4 % fracture controlled pyrite.
279.6	888.8	Angular clast of coarse felsic tuff 4.0 cm wide
280.4	281.2	Reworked, coarse quartz grain rich felsic tuff. Broken core at the upper and lower contacts.
284.1	285.2	Medium grey coarse-grained greywacke. Bedding is common and beds are 0.5 to 2.0 cm thick at 20-25 degrees to core axis. Rock has a crushed appearance and locally bedding is very contorted. 2 % disseminated pyrite. Broken core at upper contact and lower contact is at 25 degrees to core axis.
285.5	288.9	Greywacke as 284.1 to 285.2 m with intervals of black argillite up to 0.4 m long. Bedding is at 10-30 degrees to core axis. 3 % disseminated and fracture controlled pyrite 0.5 cm thick band of carbonate+biotite at 30 degrees to core axis at the upper contact. Lower contact is at 20 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA03935	287.1	288.1	1.0	2	18	18	97	<1	<5	3300
VA03936	288.1	289.1	1.0	2	18	21	88	<1	<5	4700
VA03937	289.1	290.1	1.0	2	14	21	93	<1	<5	4200
VA03938	290.1	294.7	4.6	2	32	34	99	1	<5	1700
VA03939	294.7	299.0	4.3	2	50	38	80	<1	<5	1100
VA03940	299.0	302.0	3.0	2	16	26	75	<1	<5	1800
VA03941	302.0	308.0	6.0	2	24	26	70	<1	<5	2300
VA03942	308.0	309.0	1.0	4	46	30	90	<1	6	2900
VA03943	309.0	312.0	3.0	4	22	26	83	<1	<5	2100
VA03944	312.0	313.3	1.3	4	15	22	74	<1	<5	3500
			~~4.3~~ 43.3		29	25	75	<1	<5	2565

23

85.2 Cu: 28 Pb 17, Zn: 84 Ag <1, Au <5, Ba 2955

2421

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02387	27.30	27.80	51.60	15.60	3.99	5.33	4.76	0.60	9.40	0.89	0.29	0.17	6.47	99.10	140.	40.	9.
VA02388	40.50	40.80	77.50	12.90	0.49	0.76	1.09	3.49	1.24	0.27	0.06	0.01	1.85	99.66	1250.	73.	2.
VA02389	126.10	126.30	48.30	13.40	10.50	6.73	1.85	0.20	13.90	1.94	0.16	0.21	2.47	99.66	187.	36.	12.
VA02390	144.00	145.00	42.70	13.90	11.10	5.07	2.64	0.42	11.10	1.74	0.17	0.16	10.20	99.20	379.	29.	14.
VA02391	161.00	161.20	47.00	12.50	9.62	6.59	1.75	0.19	15.40	2.40	0.25	0.23	3.39	99.32	130.	37.	11.
VA02392	177.80	178.20	48.10	13.40	10.80	7.66	1.83	0.69	12.30	1.44	0.12	0.20	2.85	99.39	707.	40.	13.
VA02393	206.60	206.90	81.90	5.73	0.65	1.51	1.10	0.98	4.55	0.29	0.07	0.06	1.54	98.38	4880.	59.	2.
VA02394	218.40	218.60	72.20	9.05	4.73	1.46	3.09	0.95	3.35	0.30	0.52	0.08	3.39	99.12	1410.	24.	8.
VA02395	229.30	229.60	84.60	4.07	3.19	0.83	1.57	0.15	1.79	0.15	0.10	0.06	2.54	99.05	562.	17.	5.
VA02396	262.50	262.60	79.00	9.11	1.84	0.78	2.60	1.30	2.19	0.20	0.04	0.05	1.93	99.04	2430.	32.	4.
VA02397	268.30	268.50	82.50	5.31	2.21	0.83	0.07	1.44	3.34	0.19	0.04	0.05	1.85	97.83	2250.	50.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02841	21.00	50.00	55.20	13.90	5.80	2.93	1.73	2.97	6.20	0.83			8.47	98.03	854.	44.	8.
VA02842	53.00	61.60	68.70	15.30	1.19	1.69	0.57	3.89	3.89	0.35			3.39	98.97	1740.	76.	2.
VA02843	61.60	68.50	51.40	16.20	5.21	6.52	4.06	2.05	9.81	0.82			3.08	99.15	840.	48.	9.
VA02844	202.20	236.10	74.20	8.68	2.89	1.70	2.52	0.98	4.12	0.31			2.23	97.63	5260.	33.	5.
VA02845	262.00	270.00	72.80	8.78	3.91	1.14	1.54	1.72	3.86	0.26			3.39	97.40	5170.	34.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA03856	25.60	26.60	730.0	65.0	105.0	<0.5	<5.0	14.0	12.0	7.0	<5.0	<1.0	4.0	830.0	38.	1.	6.
VA03857	26.60	27.10	440.0	64.0	80.0	<0.5	7.0	14.0	16.0	5.0	14.0	<1.0	4.0	760.0	44.	4.	5.
VA03858	27.10	28.10	<20.0	42.0	115.0	<0.5	14.0	14.0	12.0	<5.0	22.0	<1.0	3.0	750.0	27.	1.	6.
VA03859	31.50	33.00	4300.0	227.0	420.0	1.0	29.0	10.0	10.0	117.0	20.0	3.0	8.0	425.0	35.	4.	4.
VA03860	33.00	33.50	4000.0	137.0	335.0	0.6	70.0	11.0	11.0	57.0	33.0	1.0	8.0	475.0	29.	7.	4.
VA03861	33.50	35.00	2900.0	115.0	340.0	<0.5	22.0	10.0	17.0	40.0	14.0	2.0	7.0	570.0	25.	4.	4.
VA03862	35.00	36.00	1500.0	139.0	65.0	<0.5	14.0	12.0	15.0	32.0	12.0	<1.0	5.0	275.0	68.	4.	3.
VA03863	36.00	39.00	1500.0	142.0	55.0	0.8	15.0	7.0	7.0	21.0	9.0	<1.0	6.0	150.0	72.	5.	3.
VA03864	39.00	40.00	1200.0	10.0	35.0	<0.5	<5.0	4.0	7.0	<5.0	<5.0	<1.0	4.0	220.0	22.	3.	1.
VA03865	40.00	41.00	1000.0	46.0	45.0	<0.5	7.0	8.0	18.0	47.0	5.0	<1.0	5.0	225.0	51.	5.	3.
VA03866	41.00	42.00	1100.0	33.0	50.0	<0.5	22.0	4.0	7.0	56.0	12.0	<1.0	4.0	100.0	40.	5.	1.
VA03867	42.00	43.20	1400.0	354.0	45.0	0.7	25.0	16.0	9.0	47.0	9.0	<1.0	11.0	350.0	89.	5.	3.
VA03868	43.20	43.60	550.0	102.0	90.0	<0.5	18.0	16.0	11.0	11.0	16.0	<1.0	9.0	550.0	53.	3.	6.
VA03869	43.60	44.00	1900.0	43.0	70.0	<0.5	5.0	10.0	6.0	21.0	6.0	<1.0	8.0	280.0	38.	3.	2.
VA03870	44.00	45.00	1500.0	14.0	30.0	<0.5	27.0	3.0	4.0	19.0	<5.0	<1.0	5.0	120.0	32.	3.	1.
VA03871	45.00	46.00	1700.0	31.0	70.0	<0.5	525.0	4.0	5.0	14.0	8.0	<1.0	5.0	210.0	31.	3.	2.
VA03872	46.00	47.00	1700.0	17.0	50.0	<0.5	29.0	4.0	6.0	7.0	<5.0	<1.0	5.0	310.0	25.	3.	1.
VA03873	47.00	48.00	1600.0	27.0	60.0	<0.5	17.0	4.0	6.0	<5.0	5.0	<1.0	5.0	330.0	31.	3.	1.
VA03874	48.00	50.00	1600.0	34.0	90.0	<0.5	17.0	6.0	14.0	8.0	12.0	<1.0	5.0	400.0	27.	3.	2.
VA03875	53.00	55.00	2600.0	118.0	165.0	<0.5	42.0	6.0	8.0	48.0	84.0	<1.0	5.0	70.0	42.	4.	3.
VA03876	55.00	56.00	1900.0	168.0	415.0	0.5	30.0	4.0	5.0	108.0	18.0	2.0	5.0	270.0	29.	4.	2.
VA03877	56.00	57.00	1200.0	281.0	755.0	<0.5	74.0	5.0	7.0	91.0	18.0	3.0	5.0	290.0	27.	4.	3.
VA03878	57.00	58.00	980.0	1401.0	70.0	<0.5	47.0	6.0	13.0	10.0	18.0	<1.0	5.0	190.0	95.	7.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03879	58.00	60.00	1200.0	86.0	50.0	<0.5	35.0	12.0	36.0	11.0	18.0	<1.0	9.0	335.0	63.	4.	4.
VA03880	60.00	61.00	1200.0	159.0	40.0	<0.5	15.0	4.0	6.0	10.0	8.0	<1.0	6.0	210.0	80.	4.	2.
VA03881	61.00	61.60	1500.0	70.0	70.0	<0.5	13.0	8.0	17.0	9.0	8.0	<1.0	7.0	380.0	50.	4.	3.
VA03882	61.60	62.60	580.0	83.0	65.0	<0.5	14.0	22.0	57.0	<5.0	<5.0	<1.0	4.0	700.0	56.	1.	4.
VA03883	202.20	202.60	2500.0	95.0	65.0	<0.5	10.0	8.0	27.0	10.0	10.0	<1.0	4.0	400.0	59.	2.	4.
VA03884	203.20	204.00	2900.0	49.0	55.0	<0.5	6.0	6.0	19.0	6.0	10.0	<1.0	1.0	380.0	47.	2.	3.
VA03885	204.00	205.00	7600.0	27.0	50.0	<0.5	<5.0	4.0	15.0	<5.0	7.0	<1.0	2.0	350.0	35.	2.	3.
VA03886	205.00	206.00	5700.0	39.0	55.0	<0.5	5.0	5.0	18.0	7.0	20.0	<1.0	2.0	380.0	41.	2.	3.
VA03887	206.00	207.00	4100.0	59.0	65.0	0.5	6.0	5.0	29.0	6.0	21.0	<1.0	3.0	320.0	48.	2.	3.
VA03888	207.00	208.00	4100.0	45.0	55.0	<0.5	6.0	5.0	26.0	6.0	17.0	<1.0	2.0	410.0	45.	2.	4.
VA03889	208.00	209.00	3800.0	36.0	55.0	<0.5	5.0	5.0	24.0	<5.0	12.0	<1.0	2.0	300.0	40.	2.	3.
VA03890	209.00	210.00	5200.0	57.0	55.0	<0.5	6.0	6.0	22.0	<5.0	20.0	<1.0	4.0	450.0	51.	2.	3.
VA03891	210.00	211.00	4400.0	38.0	40.0	<0.5	5.0	5.0	20.0	<5.0	8.0	<1.0	3.0	360.0	49.	2.	3.
VA03892	211.00	212.00	5100.0	20.0	45.0	<0.5	8.0	3.0	15.0	6.0	5.0	<1.0	3.0	320.0	31.	2.	2.
VA03893	212.00	214.00	2800.0	23.0	85.0	<0.5	<5.0	2.0	16.0	6.0	6.0	<1.0	8.0	330.0	21.	2.	3.
VA03894	214.00	215.00	3900.0	35.0	135.0	<0.5	<5.0	3.0	22.0	7.0	11.0	<1.0	7.0	550.0	21.	2.	3.
VA03895	215.00	216.00	3000.0	30.0	50.0	<0.5	<5.0	6.0	18.0	6.0	11.0	<1.0	6.0	410.0	38.	2.	3.
VA03896	216.00	217.70	1200.0	11.0	70.0	<0.5	<5.0	5.0	14.0	<5.0	<5.0	<1.0	5.0	600.0	14.	2.	3.
VA03897	217.70	218.00	270.0	57.0	65.0	<0.5	<5.0	13.0	14.0	<5.0	8.0	<1.0	6.0	2200.0	47.	2.	6.
VA03898	218.00	219.00	1500.0	14.0	45.0	<0.5	<5.0	4.0	16.0	<5.0	<5.0	<1.0	22.0	520.0	24.	1.	2.
VA03899	219.00	221.30	1900.0	8.0	45.0	<0.5	<5.0	4.0	11.0	<5.0	<5.0	<1.0	7.0	260.0	15.	1.	2.
VA03900	221.30	223.10	2000.0	21.0	110.0	<0.5	<5.0	3.0	14.0	15.0	7.0	<1.0	73.0	280.0	16.	1.	2.
VA03901	223.10	224.00	1700.0	10.0	90.0	<0.5	<5.0	9.0	64.0	6.0	19.0	<1.0	40.0	950.0	10.	1.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03902	224.00	225.00	6700.0	8.0	120.0	<0.5	<5.0	6.0	10.0	7.0	<5.0	<1.0	17.0	630.0	6.	1.	3.
VA03903	225.00	226.20	8700.0	30.0	100.0	<0.5	<5.0	6.0	10.0	7.0	<5.0	<1.0	6.0	450.0	23.	1.	3.
VA03904	226.20	227.00	5400.0	28.0	155.0	<0.5	<5.0	8.0	24.0	6.0	10.0	<1.0	8.0	550.0	15.	1.	3.
VA03905	227.00	228.00	3800.0	50.0	100.0	<0.5	<5.0	10.0	24.0	9.0	10.0	<1.0	3.0	450.0	33.	1.	3.
VA03906	228.00	229.00	1700.0	52.0	65.0	<0.5	<5.0	6.0	27.0	10.0	18.0	<1.0	8.0	440.0	44.	1.	2.
VA03907	229.00	230.00	1100.0	13.0	55.0	<0.5	<5.0	5.0	27.0	6.0	11.0	<1.0	6.0	330.0	19.	1.	2.
VA03908	230.00	232.00	2100.0	39.0	65.0	<0.5	5.0	8.0	35.0	5.0	18.0	<1.0	7.0	600.0	38.	1.	3.
VA03909	232.00	233.00	350.0	60.0	90.0	<0.5	<5.0	14.0	57.0	<5.0	48.0	<1.0	4.0	700.0	40.	1.	3.
VA03910	233.00	234.00	970.0	23.0	105.0	<0.5	<5.0	28.0	158.0	<5.0	34.0	<1.0	4.0	1250.0	18.	1.	6.
VA03911	234.00	235.00	140.0	29.0	160.0	<0.5	<5.0	8.0	17.0	12.0	8.0	<1.0	2.0	420.0	15.	1.	2.
VA03912	235.00	236.10	190.0	20.0	111.0	<0.5	<5.0	18.0	31.0	32.0	23.0	1.0	4.0	610.0	15.	1.	3.
VA03913	262.00	263.00	4300.0	21.0	185.0	<0.5	<5.0	7.0	5.0	25.0	21.0	<1.0	4.0	430.0	10.	1.	2.
VA03914	263.00	263.30	18000.0	28.0	650.0	<0.5	6.0	9.0	13.0	17.0	28.0	2.0	<1.0	690.0	4.	2.	3.
VA03915	263.30	264.00	2600.0	12.0	74.0	<0.5	<5.0	4.0	13.0	21.0	10.0	<1.0	28.0	340.0	14.	2.	1.
VA03916	264.00	265.00	1600.0	35.0	159.0	<0.5	15.0	8.0	28.0	22.0	28.0	<1.0	16.0	550.0	18.	4.	3.
VA03917	265.00	266.00	3300.0	24.0	154.0	<0.5	5.0	7.0	14.0	20.0	34.0	1.0	7.0	670.0	13.	4.	4.
VA03918	266.00	267.00	2400.0	27.0	73.0	<0.5	<5.0	5.0	21.0	22.0	30.0	<1.0	1.0	400.0	27.	4.	3.
VA03919	267.00	268.00	1500.0	35.0	106.0	<0.5	<5.0	6.0	22.0	27.0	25.0	<1.0	<1.0	290.0	25.	4.	3.
VA03920	268.00	269.00	2200.0	33.0	30.0	<0.5	<5.0	6.0	24.0	30.0	24.0	<1.0	<1.0	380.0	52.	4.	2.
VA03921	269.00	270.00	2000.0	34.0	36.0	<0.5	<5.0	6.0	24.0	23.0	29.0	<1.0	1.0	330.0	49.	4.	2.
VA03922	270.00	271.00	3600.0	56.0	46.0	1.1	25.0	9.0	33.0	23.0	626.0	4.0	2.0	390.0	55.	4.	3.
VA03923	271.00	272.00	2000.0	40.0	65.0	0.8	18.0	8.0	27.0	25.0	595.0	4.0	1.0	290.0	38.	4.	2.
VA03924	272.00	273.00	2400.0	49.0	45.0	0.8	<5.0	7.0	29.0	26.0	64.0	<1.0	<1.0	250.0	52.	4.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03925	273.00	274.00	2000.0	35.0	80.0	0.5	<5.0	6.0	20.0	23.0	30.0	<1.0	<1.0	370.0	30.	4.	2.
VA03926	274.00	275.00	1500.0	39.0	56.0	<0.5	<5.0	6.0	23.0	25.0	24.0	<1.0	3.0	360.0	41.	4.	2.
VA03927	275.00	278.00	1700.0	19.0	87.0	<0.5	<5.0	6.0	22.0	24.0	19.0	<1.0	4.0	300.0	18.	4.	2.
VA03928	278.00	279.50	1800.0	40.0	87.0	0.6	<5.0	8.0	30.0	28.0	18.0	<1.0	2.0	320.0	32.	2.	3.
VA03929	279.50	280.40	1300.0	14.0	49.0	<0.5	<5.0	5.0	12.0	28.0	18.0	<1.0	9.0	360.0	22.	2.	1.
VA03930	280.40	282.40	1600.0	16.0	87.0	<0.5	<5.0	7.0	12.0	25.0	33.0	<1.0	<1.0	440.0	16.	2.	2.
VA03931	282.40	284.10	1300.0	14.0	61.0	<0.5	<5.0	4.0	16.0	24.0	16.0	<1.0	3.0	350.0	19.	2.	1.
VA03932	284.10	285.10	4500.0	28.0	76.0	<0.5	<5.0	12.0	12.0	26.0	32.0	2.0	31.0	560.0	27.	2.	4.
VA03933	285.10	286.10	3000.0	14.0	73.0	<0.5	<5.0	8.0	7.0	20.0	42.0	<1.0	19.0	490.0	16.	2.	3.
VA03934	286.10	287.10	4700.0	19.0	69.0	<0.5	<5.0	7.0	9.0	18.0	28.0	<1.0	51.0	470.0	22.	2.	3.
VA03935	287.10	288.10	3300.0	18.0	97.0	<0.5	<5.0	9.0	8.0	18.0	33.0	<1.0	14.0	460.0	16.	2.	3.
VA03936	288.10	289.10	4700.0	18.0	88.0	<0.5	<5.0	7.0	10.0	21.0	33.0	<1.0	43.0	470.0	17.	2.	3.
VA03937	289.10	290.10	4200.0	14.0	93.0	<0.5	<5.0	7.0	5.0	21.0	30.0	<1.0	6.0	400.0	13.	2.	3.
VA03938	290.10	294.70	1700.0	32.0	99.0	0.5	<5.0	7.0	23.0	34.0	35.0	<1.0	1.0	510.0	24.	2.	3.
VA03939	294.70	299.00	1100.0	50.0	80.0	<0.5	<5.0	7.0	28.0	38.0	14.0	<1.0	2.0	240.0	38.	2.	3.
VA03940	299.00	302.00	1800.0	16.0	75.0	<0.5	<5.0	4.0	16.0	26.0	20.0	<1.0	2.0	370.0	18.	2.	2.
VA03941	302.00	308.00	2300.0	24.0	70.0	<0.5	<5.0	5.0	17.0	26.0	14.0	<1.0	1.0	370.0	26.	2.	2.
VA03942	308.00	309.00	2900.0	46.0	90.0	<0.5	6.0	12.0	25.0	30.0	29.0	<1.0	<1.0	290.0	34.	4.	3.
VA03943	309.00	312.00	2100.0	22.0	83.0	<0.5	<5.0	5.0	18.0	26.0	19.0	<1.0	2.0	390.0	21.	4.	2.
VA03944	312.00	313.30	3500.0	15.0	74.0	<0.5	<5.0	7.0	9.0	22.0	36.0	<1.0	<1.0	380.0	17.	4.	2.

Summary Log: DDH CH88-58 SURVEYED = 4120S, elev. 520m
Location: 39+00 E, ~~4+10~~ S; Chip 1 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 24, 1988
Core logged by: J. Pattison

0.0	3.7	Casing
3.7	11.2	Gabbro
11.2	18.5	Felsic tuffs, tuffites and reworked tuffs
18.5	59.7	Feldspar porphyritic gabbro
59.7	114.7	Medium to coarse grained granophyric, ilmenite-rich gabbro and feldspar porphyritic gabbro
114.7	153.9	Feldspar porphyritic gabbro
153.9	210.0	Medium to coarse-grained granophyric ilmenite-rich gabbro and feldpsar porphyritic gabbro
210.0	224.9	Medium grained gabbro with minor ammounts of leucocratic gabbro
224.9	238.6	Leucocratic gabbro with 10-15 % ilmenite
238.6	248.7	Feldspar porphyritic gabbro

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-58 | Page Number 1

Hole Location: 39+00 E 4+10 S

NTS: 92B13 UTM: 5416090.1 N 430933.8 E
Azimuth: 210 Elevation: 540 m
Dip: -50 Length: 248.7 m

Started: 20-May-88
Completed: 24-May-88

Claim No. Chip 1
Section No.: 39+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ

Purpose: Coincident deep and shallow IP anomalies at 5+00 S.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
12.20	211.0	-52.0	247.20	211.0	-53.0
114.60	211.0	-52.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.7	OVERBURDEN											
3.7	11.2	MAFIC INTRUSIVE Fine to medium-grained, massive, dark green gabbro with trace to 3 % disseminated ilmenite. Broken and blocky above 6.8 m and fractures are limonite stained. Lower contact is at 60 degrees to core axis. 7.4 8.8 Medium-grained, weakly bleached and carbonatized zone with 4-5 % fracture controlled pyrite.											
11.2	14.0	CHERTY FELSIC TUFF / TUFFITE Green to light pinkish brown (biotite alteration?) very fine-grained, massive to finely bedded cherty felsic tuffite or siltstone. STRUCUTRE:. At 12.5 m bedding is at 35 degrees to core axis. At 13.9 m bedding is at 35 degrees to core axis. ALTERATION:. 11.2 14.0 WEAK FRACTURE CONTROLLED CARBONATIZATION. SULPHIDES:. 11.2 1.5 % fracture controlled pyrite.	VA02846	11.2	18.5	7.3	n/a	24	n/a	53	n/a	n/a	1300
			VA03945	11.2	12.2	1.0	2	28	18	47	<1	<5	2700
			VA03946	12.2	13.2	1.0	2	42	11	102	<1	<5	2500
			VA03947	13.2	14.0	.8	2	19	17	74	<1	9	2300
14.0	18.5	REWORKED FELSIC TUFF Light grey-green, massive, felsic ash tuff with up to 20 % ash-sized white feldspar crystals and 2 % light to dark											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

grey, cherty, rounded lithic clasts up to 10 mm long (most < 5 mm). Nil sulphides. Lower contact is sharp at 55 degrees to core axis.

STRUCTURE:.
14.3-14.8 M blocky, highly fractured core. 0.1 m of lost core.

ALTERATION:.
14.0 18.5 WEAK FRACTURE CONTROLLED CARBONATIZATION.

16.5 888.8 Band or bed of strongly carbonatized+epidotized mafic tuff (?) 7.0 cm wide at 25 degrees to core axis.

18.5 59.7 FELDSPAR PORPHYRITIC GABBRO
Medium green, massive and fine-grained with 10 % 1-4 mm plagioclase phenocrysts and up to 4 % interstitial ilmenite partially altered to leucoxene. Becomes medium-grained below 53.3 m.
Quartz-carbonate filled fractures are common.
Fine-grained, non feldspar porphyritic chilled margin for 15 cm at the upper contact.

STRUCTURE:.
52.9-53.1 M weak shearing at 60-70 degrees to core axis.
57.3-57.4 M fault zone at 20 degrees to core axis. Blocky, highly fractured core.
58.0-58.4 M slip runs nearly parallel to the core axis. Blocky, highly fractured core.
59.2-59.7 M FAULT ZONE at 20 to 50 degrees to core axis. 0.2 m of lower contact.

23.8 24.7 M quartz-carbonate vein with 1 % chalcopyrite at 40-50 degrees to core axis.

30.4 31.0 Quartz-carbonate flooded zone. Several minor fault gouges at 60-70 degrees to core axis.

59.7 79.5 MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO
Medium-grained and locally coarse-grained, almost pegmatitic, granophyric gabbro. Composed of 20 % subhedral to anhedral plagioclase, 60 % chlorite replacing needles of pyroxene up to 5 mm long, 10-15 % ilmenite in patches 1-4 mm in diameter, up to 3 % quartz and trace to 2 % pyrite and chalcopyrite. Core is blocky throughout most of the unit. Very weak fracture controlled carbonatization

STRUCTURE:.

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-58 | Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

Blocky zones up to 0.2 m long are common and are the result of minor faults at < 20 degrees to core axis.
61.6-63.1 M blocky, highly fractured core. 0.2 m of lost core.
75.5-76.0 M slip runs parallel to the core axis.
At 79.0 m minor fault gouge at 50 degrees to core axis.
79.3-79.5 M fault at 40 degrees to core axis.

79.5 85.0 FELDSPAR PORPHYRITIC GABBRO
Medium to fine-grained gabbro with 10-20 % white feldspar phenocrysts and 4-5% interstitial ilmenite. Several barren quartz-carbonate veins up to 7.0 cm thick at 35 degrees to core axis. Medium brown biotite sometimes occurs along the vein margins. Lower contact is a slip at 35 degrees to core axis.

85.0 92.8 MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO
As 59.7 to 79.5 m. Trace to 1 % disseminated chalcopyrite. Broken, blocky core for 0.1 m at the lower contact but it appears to be gradational.

STRUCTURE:.
85.1-86.6 Fault zone. Blocky, highly fractured core. Not possible to measure the orientation.

92.8 96.9 FELDSPAR PORPHYRITIC GABBRO
As 79.5 to 85.0 m. Lower contact is gradational.

STRUCTURE:.
At 96.0 m slip at 15 degrees to core axis.

96.9 114.7 MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO
As 59.7 to 79.5 m. Trace to 1 % disseminated chalcopyrite and 5 to 12 % ilmenite.
Lower contact is gradational.

STRUCTURE:.
104.5-105.5 m 0.2 m of lost core. Somewhat blocky.

106.4 107.1 Feldspar porphyritic gabbro. Fine-grained with 20 % white, 1-3 mm, euhedral feldspar laths. Trace ilmenite.

114.7 153.9 FELDSPAR PORPHYRITIC GABBRO
Fine to medium-grained gabbro with 10-15 % feldspar phenocrysts. Locally weakly glomeroporphyritic. 5 %

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		disseminated ilmenite and trace chalcopyrite. Lower contact is gradational.											
		STRUCTURE:. 121.0-121.6 M blocky, highly fractured core. At 127.5 m 2.0 cm fault gouge at 67 degrees to core axis. 135.0-135.3 M blocky, highly fractured core. At 137.0 minor fault gouge at 30 degrees to core axis. 138.0-138.4 M FAULT ZONE. Blocky, highly fractured core. Not possible to measure orientation of the fault but it appears to be at at a very low angle to the core axis. 149.1-149.4 M slip runs nearly parallel to the core axis. Blocky, highly fractured core. 153.6-153.7 M slip runs nearly parallel to the core axis. Blocky, highly fractured core.											
		118.2 120.6 M MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO. 8 to 10 % ilmenite.											
		124.4 128.0 MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO with 10 % ilmenite.											
		133.5 134.8 MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO with 10 % ilmenite. Lower contact is relatively sharp at 10 degrees to core axis.											
		139.4 140.0 Epidote+carbonate alteration patch at 30 degrees to core axis.											
		146.7 147.5 Coarse-grained ilmenite-rich gabbro runs parallel to the core axis. 15 % coarsely disseminated ilmenite. Trace disseminated chalcopyrite.											
153.9	175.0	MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO As 59.7 to 79.5 m except finer grained on average. 8-10 % ilmenite and 1 % chalcopyrite. . 154.4 154.6 Irregular carbonate veins up to 1.0 cm thick at 0-30 degrees to core axis with massive brown biotite along their margins and 3 % chalcopyrite.											
175.0	187.5	FELDSPAR PORPHYRITIC GABBRO Massive, medium-grained gabbro with 5 to 20% 1-3 mm plagioclase phenocrysts and up to 5 % interstitial ilmenite in grains and aggregates up to 4 mm in diameter.	VA03948	187.2	188.2	1.0	1	744	11	64	<1	25	80
		184.3 184.8 Coarse-grained phase of the gabbro with 5-10 %											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ilmenite up to 5 mm in diameter and trace disseminated pyrite and chalcopyrite. Upper and lower contacts are relatively sharp at 10-35 degrees to core axis.											
187.5	191.6	MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO Medium-grained, locally coarse-grained gabbro with 10% ilmenite partially altered to leucoxene and trace chalcopyrite.	VA03949 VA03950	188.2 189.0	189.0 190.0	.8 1.0	3 1	1942 636	11 13	84 70	1 <1	23 16	190 340
		188.2 189.0 Coarse-grained gabbro with 8 % ilmenite and 3 % disseminated chalcopyrite.											
191.6	210.0	MAFIC INTRUSIVE Medium-grained massive gabbro. Feldspars are weakly sauseritized and mafic minerals have gone to chlorite. 4-5 % ilmenite as grains 2-4 mm in diameter rimmed by leucoxene and trace finely disseminated chalcopyrite. Occasional quartz-carbonate filled fractures. Lower contact is gradational over 5.0 cm.	VA03951 VA03952 VA03953	197.9 198.9 200.3	198.9 200.3 201.3	1.0 1.4 1.0	1 3 1	231 500 229	5 10 15	63 70 60	<1 <1 <1	6 24 10	300 70 470
		199.0 200.3 MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO. 10-15 % ilmenite, 2 % disseminated pyrite and up to 1 % finely disseminated chalcopyrite.											
210.0	211.7	LEUCOCRATIC GABBRO Fine to medium-grained cream coloured, plagioclase-rich (70-80 %) gabbro. 7 % ilmenite as grains to 4 mm. Locally rock has a pinkish tint probably due to weakly hematized feldspars. A light green soft alteration mineral comprises up to 5 % of the rock and is replacing mafic minerals. Fault gouge at 70 degrees to core axis at the lower contact. STRUCTURE:. 210.7-210.9 M crushed fault zone. Two fault gouges at 70 degrees to core axis.											
		210.6 211.6 Intrusive breccia. More than 80 % cream coloured angular breccia clasts in a dark green chlorite-rich matrix.											
211.7	214.3	MAFIC INTRUSIVE Fine to medium-grained gabbro. Somewhat lighter in colour than average gabbro. Blocky over the entire interval. Quartz-carbonate veins and veinlets are common throughout and in one place are cut by two 5 mm thick chloritic											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		veins. Weak fracture controlled carbonatization. STRUCTURE:. 213.3-214.3 FAULT ZONE. Broken blocky core throughout. Not possible to measure the orientation.											
214.3	215.8	LEUCOCRATIC GABBRO As 210.0 to 211.7 m. Brecciated over the first metre. Quartz-albite veins are common. Lower contact is gradational over 0.1 m.											
215.8	224.9	MAFIC INTRUSIVE Starts off as a feldspar porphyritic gabbro. Becomes leucocratic between 217.0 and 217.9m. Below 218.9 m medium and locally coarse-grained gabbro contains 5-8 % ilmenite and trace chalcopyrite. Nil to weak fracture controlled hematization. Lower contact is gradational over 0.4 m.											
224.9	238.6	LEUCOCRATIC GABBRO Light grey to cream coloured medium to fine-grained leucogabbro. Composed of 70-80 % subhedral to euhedral sauseratized and fresh plagioclase, 10-15% ilmenite as subhedral grains up to 4 mm in diameter, 5-10% light to dark green chloritized mafic minerals and 5 % light green soft translucent mineral (see thin section sample from ?m). Weak to moderate fracture controlled carbonatization. Quartz+albite+carbonate veins up to 1.0 cm wide are common. Ilmenite is often altered to a soft, brown mineral. Lower contact is gradational over 0.15 cm. STRUCTURE:. 225.6-225.8 M fault at 28 degrees to core axis. 236.0-238.5 M FAULT ZONE. Blocky, highly fractured core. There are numerous fault gouges and fault breccias at 20-40 degrees to core axis. Light grey angular felsic clasts, some with pyrite, occur in the breccia zones. 233.6 233.9 Quartz-carbonate flooded, brecciated zone. Nil sulphides.	VA03954 VA03955 VA03956 VA03957	225.0 226.0 232.0 233.0	226.0 227.0 233.0 234.0	1.0 1.0 1.0 1.0	1 1 1 1	272 369 126 123	17 22 26 25	109 125 63 84	<1 <1 <1 <1	11 8 <5 <5	1000 980 990 610
238.6	248.7	FELDSPAR PORPHYRITIC GABBRO Massive, dark green, fine to medium-grained gabbro speckled with 10-15% plagioclase laths up to 5 mm long (most 3 mm). 2 to 3 % disseminated ilmenite and nil to trace chalcopyrite.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02398	17.40	17.60	60.50	17.80	2.60	4.48	2.80	1.88	5.92	0.50	0.19	0.07	3.08	99.82	1700.	54.	5.
VA02399	49.00	49.40	49.00	14.20	10.40	6.39	2.39	0.65	12.60	1.75	0.16	0.19	1.70	99.43	777.	36.	13.
VA02400	64.70	65.10	51.60	11.60	7.06	3.06	2.38	0.48	17.20	3.39	0.46	0.27	1.23	98.73	509.	27.	9.
VA02401	86.90	87.00	49.60	11.10	8.53	3.57	2.02	0.42	18.30	3.53	0.39	0.26	1.93	99.65	588.	27.	11.
VA02402	107.30	107.80	47.90	12.10	9.47	5.96	2.09	0.39	15.40	2.31	0.18	0.24	3.16	99.20	286.	35.	12.
VA02403	126.30	126.40	49.60	12.80	10.00	4.78	2.48	0.26	15.00	2.14	0.23	0.22	2.00	99.51	71.	29.	12.
VA02404	199.00	199.10	49.40	11.50	7.14	3.39	2.80	0.30	18.40	4.16	0.49	0.29	1.23	99.10	236.	27.	10.
VA02405	226.70	226.90	39.70	15.50	9.47	3.91	0.15	3.79	9.51	2.82	0.27	0.22	15.10	100.44	1070.	44.	10.
VA02406	235.00	235.60	34.70	12.20	12.90	5.28	0.50	2.77	10.20	1.65	0.16	0.21	19.20	99.77	800.	38.	13.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02846	11.20	18.50	68.50	7.24	8.23	2.16	1.80	0.32	4.04	0.25			5.62	98.16	1300.	20.	10.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03945	11.20	12.20	2700.0	28.0	47.0	<0.5	<5.0	17.0	40.0	18.0	26.0	<1.0	4.0	410.0	37.	2.	4.
VA03946	12.20	13.20	2500.0	42.0	102.0	<0.5	<5.0	19.0	41.0	11.0	35.0	1.0	<1.0	390.0	29.	2.	4.
VA03947	13.20	14.00	2300.0	19.0	74.0	<0.5	9.0	10.0	24.0	17.0	19.0	<1.0	7.0	280.0	20.	2.	3.
VA03948	187.20	188.20	80.0	744.0	64.0	<0.5	25.0	30.0	28.0	11.0	51.0	<1.0	<1.0	450.0	92.	1.	5.
VA03949	188.20	189.00	190.0	1942.0	84.0	0.5	23.0	36.0	16.0	11.0	56.0	1.0	2.0	490.0	96.	3.	6.
VA03950	189.00	190.00	340.0	636.0	70.0	<0.5	16.0	24.0	9.0	13.0	33.0	<1.0	1.0	400.0	90.	1.	5.
VA03951	197.90	198.90	300.0	231.0	63.0	<0.5	6.0	29.0	43.0	5.0	49.0	<1.0	<1.0	560.0	79.	1.	5.
VA03952	198.90	200.30	70.0	500.0	70.0	<0.5	24.0	28.0	19.0	10.0	40.0	<1.0	<1.0	400.0	88.	3.	5.
VA03953	200.30	201.30	470.0	229.0	60.0	<0.5	10.0	22.0	24.0	15.0	41.0	<1.0	<1.0	350.0	79.	1.	4.
VA03954	225.00	226.00	1000.0	272.0	109.0	<0.5	11.0	49.0	43.0	17.0	142.0	2.0	<1.0	1420.0	71.	1.	6.
VA03955	226.00	227.00	980.0	369.0	125.0	<0.5	8.0	46.0	43.0	22.0	142.0	1.0	<1.0	1390.0	75.	1.	5.
VA03956	232.00	233.00	990.0	126.0	63.0	<0.5	<5.0	40.0	68.0	26.0	140.0	<1.0	<1.0	1420.0	67.	1.	6.
VA03957	233.00	234.00	610.0	123.0	84.0	<0.5	<5.0	32.0	58.0	25.0	193.0	1.0	<1.0	1430.0	59.	1.	6.

Summary Log: DDH CH88-59
Location: 50+00 W, 7+72 N; Holyoak 3 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 26, 1988
Core logged by: M. Vande-Guchte

0.0	7.1	Casing
7.1	9.8	Mafic intrusive, probable boulder
9.8	21.9	Felsic quartz eye tuff
21.9	24.4	Chloritic felsic quartz-feldspar crystal tuff
24.4	30.1	Intermediate tuff
30.1	52.5	Mafic to intermediate tuffaceous sediments
52.5	63.1	Mafic tuff
63.1	82.3	Chloritic felsic quartz eye tuff
82.3	83.3	Mafic tufff
83.3	148.7	Felsic quartz eye tuff with interbedded mafic tuffs
148.7	249.7	Mafic tuff with interbedded felsic and intermediate tuffs
249.7	251.5	Felsic tuff
251.5	258.5	Intermediate tuff
258.5	262.0	Felsic tuff
262.0	288.5	Mafic tuff with with minor interbedded lapilli tuff
288.5	297.3	Intermediate tuff
297.3	306.2	Chloritic felsic quartz eye tuff
306.2	310.8	Chloritic felsic lapilli tuff
310.8	313.2	Intermediate tuff
313.2	322.0	Chloritic felsic quartz eye tuff
322.0	328.7	Mafic tuff
328.7	336.8	Chloritic felsic quartz eye tuff
336.8	338.4	Mafic tuff
338.4	340.5	Chloritic felsic quartz eye tuff

E.O.H. @ 340.5

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-59 | Page Number 1

Hole Location: 50+00' W 7+72 N

NTS: 092/B13 UTM:
Azimuth: 210 Elevation: 919 m
Dip: -50 Length: 340.5 m

Started: May 21, 1988
Completed: May 26, 1988

Claim No. Holyoak 3
Section No.: Line 50+00'

Logged By: M. Vande Guchte
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: Stratigraphic section

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
32.60	215.0	-50.0	274.30	216.0	-46.0
127.10	218.0	-47.5	340.50	210.0	-43.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	7.1	OVERBURDEN											
7.1	9.8	MAFIC INTRUSIVE Dark green to grey, fine-grained mafic intrusive. 3 cm quartz vein marking lower contact. Probable boulder. Structure. 7.4 : possible fault, fault gouge with no orientation. Lost core :. 7.7 9.8 : 0.6 m.											
9.8	21.9	FELSIC QUARTZ EYE TUFF Light grey to white, limonite stained (rusty-brown) sericitic felsic tuff with 5 to 7%, 2 to 3 mm quartz eyes. Fine grained, medium to dark brown platy mineral - weathered chlorite ?, throughout. Moderate to strongly pitted core. Blocky, highly fractured core which is moderate to strongly weathered. . 12.5 16.8 : variable chloritic felsic quartz- feldspar crystal tuff. With 5 to 7 %, 1 to 2 mm quartz eyes and 2 to 3%, 1 to 2 mm feldspar crystals. Weak to moderately chloritic. 2.35 m lost core. 13.1 13.4 : fine grained,foliated intermediate to mafic dyke. Structure. Foliations :. 10.0 : 85 degrees to core axis.	VA01139	9.9	21.2	11.3	n/a	<10	n/a	<10	n/a	n/a	1540

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-59 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		14.0 : 55 degrees to core axis. 18.0 : 65 degrees to core axis. 21.0 : 55 degrees to core axis. Faults :. 12.4 12.5 : fault gouge with no orientation. 13.1 : fault gouge with no orientation. 14.1 : fault gouge with no orientation. Alteration :. 9.8 21.9 MODERATE PERVASIVE SERICITIZATION. Lost core :. 10.0 12.0 : 0.6 m. 12.5 13.4 : 0.15 m. 14.0 16.8 : 2.2 m. 20.1 21.9 : 0.8 m.											
21.9	24.4	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light green to grey, fine-grained variable chloritic sericite schist with 3 to 4 %, 2 to 3 mm quartz eyes and 4 to 7 %, 1 to 2 mm feldspar crystals. Weak to moderate pervasive chlorite. Moderate to strongly pitted. Blocky, highly fractured core which is moderate to strongly weathered. Structure. Foliations :. 23.0 : 55 degrees to core axis. Alteration :. 21.9 24.4 MODERATE PERVASIVE SERICITIZATION. Lost core :. 22.0 23.5 : 0.4 m.	VA01140	22.0	24.0	2.0	n/a	13	n/a	33	n/a	n/a	1670
24.4	30.1	INTERMEDIATE TUFF Fine-grained, medium green intermediate ash tuff. Weakly quartz and feldspar phyric with phenocryst up to 1.5 mm. Weak to moderate foliation and locally kinked. Blocky, highly fractured core, which is moderate to strongly weathered. 28.0 28.3 : fracture controlled carbonate. Structure. Foliation :. 28.0 : 60 degrees to core axis. Alteration :. 24.4 30.1 WEAK PERVASIVE SERICITIZATION.	VA01141	24.6	30.0	5.4	n/a	57	n/a	65	n/a	n/a	1060

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-59 Page Number 3

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Lost core :. 24.0 26.0 : 0.6 m. 26.2 28.0 : 0.3 m. 28.0 29.0 : 0.6 m. 29.0 29.9 : 0.7 m.											
30.1	52.5	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Fine-grained, medium grey tuffaceous sediments with minor interbeds of black argillite with interlaminated/intercalated tuffaceous sediments. Weakly chloritic. Fracture controlled carbonate veins and stringers (generally parallel to foliaton) to pervasive carbonate giving banded appearance, minor quartz-carbonate veins. Gradational upper and lower contacts. 2 to 3 % fracture controlled and disseminated pyrite. Interbeds of argillite show sharp to slightly gradational upper and lower contact at 45 degrees to core axis. 30.1 33.4 Blocky, highly fractured core which is moderately weathered. 33.4 33.8 Black argillite with interlaminated tuffaceous sediments 2 to 3% disseminated pyrite. 40.7 41.1 Interbedded, weakly banded, fine-grained biotite. 44.5 44.8 1 to 2%, up to 1.5 mm quartz eye. 47.3 47.7 Black argillite, moderately siliceous, 2 to 3% fracture controlled and disseminated pyrite. 48.8 49.4 Interlaminated siliceous, black argillite. 51.8 52.3 Quartz-carbonate vein with intercalated tuffaceous sediments. Structure. Foliations :. 32.0 : 50 degrees to core axis. 42.0 : 50 degrees to core axis. 51.0 : 45 degrees to core axis. Faults :. 36.3 36.6 : fault gouge with no orientation. 39.7 39.9 : fault gouge with no orientation. Alteration :. 30.1 52.5 MODERATE PERVASIVE CARBONATIZATION.	VA01142	30.2	51.0	20.8	n/a	84	n/a	57	n/a	n/a	1100
			VA01999	32.0	33.0	1.0	n/a	89	34	230	<1	14	910
			VA02000	33.0	34.0	1.0	n/a	72	28	210	<1	22	2800
			VA02001	34.0	35.0	1.0	n/a	63	8	120	<1	10	1400
			VA02002	46.0	47.0	1.0	n/a	61	7	120	<1	<5	730
			VA02003	47.0	48.0	1.0	n/a	58	9	135	<1	34	1600
			VA02004	48.0	49.0	1.0	n/a	71	<5	115	<1	<5	1800
52.5	63.1	MAFIC TUFF Medium green, fine-grained mafic tuff with finely interlaminated black argillite near lower contact (62.4 m to 63.1 m). Weak to moderatly magnetic. Fracture controlled to weakly pervasive carbonate. Weak to moderate pervasive chlorite and local (spotty) epidotization.	VA01143	53.0	63.0	10.0	n/a	11	n/a	46	n/a	n/a	864

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Moderate to well foliation with banded appearance. Minor (<1.0 cm) quartz-carbonate veins. 1 to 2% disseminated pyrite. Structure. Foliations :. 53.0 : 55 degrees to core axis. 60.0 : 50 degrees to core axis. Faults. 61.5 : 55 degrees to core axis. Alteration : MODERATE FRACTURE CONTROLLED CARBONATIZATION to weakly pervasive carbonate. 52.5 63.1 MODERATE FRACTURE CONTROLLED CARBONATIZATION.												
63.1	82.3	CHLORITIC FELSIC QUARTZ EYE TUFF White to light green, variable chloritic quartz phyric sericite schist with 3 to 5 %, 1 to 2 mm quartz eye. Fracture controlled to weakly pervasive carbonate. Moderately sericitic. Weak to moderately chloritic with localized areas showing little to no chlorite (possible interbeds ?). These areas are seperated by relatively sharp upper and lower contacts at approximately 45 degrees to core axis. Minor quartz-carbonate veins generally parallel to to foliation. Wavy locally kinked foliation. 1 to 2 % finely disseminated pyrite. 68.6 69.0 : very weakly chloritic quartz phyric sericite schist. 69.6 71.8 : very weakly chloritic quartz phyric sericite schist. Structure. Foliations :. 68.0 : 55 degrees to core axis. 76.0 : 45 degrees to core axis. 82.0 : 45 degrees to core axis. Alteration : MODERATE PERVASIVE SERICITIZATION with moderate fracture controlled to weakly pervasive carbonatization. 63.1 82.3 MODERATE PERVASIVE SERICITIZATION.	VA01144	64.0	81.6	17.6	n/a	26	n/a	<10	n/a	n/a	916
82.3	83.3	MAFIC TUFF Medium to dark, fine grained mafic tuff. Weak to moderately magnetic. Fracture controlled carbonate with pink to white carbonate clots. Sharp upper and lower contact parallel to to foliation at approximately 45 degrees to core axis. 1 to 2 % disseminated pyrite.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Structure. Foliations :. 83.0 : 55 degrees to core axis. Alteration :. 82.3 83.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
83.3	148.7	FELSIC QUARTZ EYE TUFF White to light grey, fine-grained quartz phyric sericite schist with interbedded mafic tuffs. 6 to 8 %, up to 6 mm, quartz phenocrysts and localized 2 to 3%, up to 2 mm, mottled buff feldspar phenocrysts towards lower contact. Weak to moderately pervasive sericite. Weak to very weak fracture controlled carbonate. Minor quartz veins and stringers. Overall, mottled apearance and becoming increasingly more siliceous below 113.0 m to lower contact. Strongly quartz veined from 94.0 to 113.0 m. Weak to moderately chloritic from 94.0 to 113.0 m with locally weak, spotty epidotization. Moderately chloritic from 140.0 m to lower contact. Very weak pervasive carbonate. 3 to 4 % disseminated pyrite. MAFIC TUFF INTERBEDS are fine-grained, medium to dark green with fracture controlled to pervasive carbonate and occasional, up to 2.0 mm, carbonate clots. Moderate to strongly chloritic. Weakly magnetic and 1 to 2 % disseminated pyrite. Contacts vary from sharp to weakly gradational. 83.7 84.0 : mafic tuff, sharp upper and lower contact at 45 degrees to core axis. 85.3 85.8 : mafic tuff, relatively sharp upper and lower contact at 50 degrees to core axis. 105.5 105.7 : trace mariposite, moderately chloritic. 108.2 110.2 : strongly qtz veined. 113.1 114.2 : mafic tuff, sharp upper and lower contact at 60 degrees to core axis, weak foliation at 50 degrees to core axis. 121.9 122.2 : mafic tuff, gradational upper contact and sharp lower contact. 122.7 122.9 : mafic tuff, sharp contacts. 124.6 124.9 : strong alteration band, sharp upper contact (variable orientation), trace mariposite. 127.7 128.2 : mafic tuff, sharp upper and lower contacts at 55 and 30 degrees to core axis. 136.2 136.3 : mafic tuff, weakly to moderately magnetic, sharp contacts. 136.5 136.9 : mafic tuff, sharp upper and lower contacts at 65 and 45 degrees to core axis. 137.3 138.0 : mafic tuff, sharp upper and lower contacts	VA01145	84.0	94.0	10.0	n/a	<10	n/a	<10	n/a	n/a	920
			VA01146	94.0	113.0	19.0	n/a	<10	n/a	<10	n/a	n/a	1140
			VA02005	108.0	109.0	1.0	n/a	7	<5	30	<1	<5	1100
			VA02006	111.0	112.0	1.0	n/a	7	12	15	<1	<5	840
			VA02007	112.0	113.1	1.1	n/a	4	5	15	<1	<5	970
			VA01147	114.0	130.0	16.0	n/a	29	n/a	23	n/a	n/a	1040
			VA01148	130.0	148.0	18.0	n/a	<10	n/a	22	n/a	n/a	1100

From (m)	To (m)	DESCRIPTION
		at 45 and 30 degrees to core axis.
	139.7 139.9	: mafic tuff, gradational upper and lower contacts, strongly chloritic.
	140.5 140.6	: mafic tuff.
	140.7 140.9	: mafic tuff.
	141.1 141.7	: mafic tuff.
	142.0 142.4	: mafic tuff, sharp upper and lower contacts at 40 and 30 degrees to core axis.
	146.0 146.5	: mafic tuff, sharp upper and lower contacts at 60 and 55 degrees to core axis.
	146.7 147.0	: mafic tuff.
		Structure.
		Foliation :.
		95.0 : 60 degrees to core axis.
		128.0 : 55 degrees to core axis.
		138.0 : 35 degrees to core axis.
		146.0 : 50 degrees to core axis.
		Fault :.
		94.5 : fault slip at 60 degrees to core axis.
		95.8 : fault slip at 55 degrees to core axis.
		148.7 : fault gouge with no orientation.
		Alteration :.
	82.3 113.0	MODERATE PERVASIVE SERICITIZATION and, weak fracture controlled carbonatization.
	113.0 148.7	WEAK PERVASIVE SERICITIZATION and, weak fracture controlled carbonatization.
148.7	249.7	MAFIC TUFF
		Medium green, fine-grained mafic tuff with interbedded fine-grained, medium green intermediate to felsic tuffs with highly gradational contacts. Moderate to strongly chloritic. Fracture controlled to weakly pervasive carbonate. Quartz-carbonate veins and stringers becoming locally strong. Light brown colored mineral - possible fe-carbonate, locally pervasive and commonly associated with carbonate and quartz-carbonate veins / stringers. Weak, locally magnetic and 1 to 2 % disseminated pyrite.
	148.7 163.2	: strongly chloritic, locally quartz phyric up to 2%, up to 2 mm. Locally pervasive light brown mineral.
	163.2 165.2	: interlaminated to intercalated black argillite, no visible bedding, foliation 55 degrees to core axis.
	165.2 171.5	: numerous quartz-carbonate veins with light brown mineral - ?. Trace, quartz associated chalcopyrite at 166.8 m, 169.4 m and 170.1 m.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01149	149.0	168.0	19.0	n/a	51	n/a	51	n/a	n/a	606
VA01154	162.0	290.0	128.0	n/a	169	n/a	54	n/a	n/a	771
VA01150	168.0	198.0	30.0	n/a	13	n/a	51	n/a	n/a	670
VA02008	168.0	169.0	1.0	n/a	7	<5	90	<1	<5	960
VA02009	169.0	170.0	1.0	n/a	163	5	80	<1	<5	710
VA02010	170.0	171.0	1.0	n/a	15	<5	75	<1	<5	620
VA01151	198.0	228.0	30.0	n/a	31	n/a	67	n/a	n/a	639
VA01152	228.0	248.0	20.0	n/a	37	n/a	61	n/a	n/a	827
VA01153	248.0	262.0	14.0	n/a	39	n/a	44	n/a	n/a	1260

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-59 | Page Number 7

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
171.5	176.2	: weak, locally magnetic. Minor quartz-carbonate veins.											
176.2	176.5	: moderately chloritic intermediate to felsic tuff, weakly up to 4 % quartz phyric. Slightly gradational contacts.											
176.5	196.9	: bedding observed at 180.1 m at 80 and 65 degrees to core axis. Locally intercalated black argillite, dark green to black, from 191.0 to 193.0 m.											
196.9	197.1	: weak to moderately chloritic intermediate tuff.											
197.1	213.3	: moderate to strong chloritic mafic tuff.											
213.3	216.5	: spotty up to 1.0 mm clots carbonate, minor quartz phenocrysts and weakly pervasive light brown mineral - ?.											
216.5	228.4	: intermediate to felsic tuff at 224.5 to 225.0 m. Locally weak to moderately pervasive light brown mineral. Gradational contacts.											
228.4	229.8	: intermediate to felsic tuff, siliceous horizon from 228.4 to 229.0 m minor felsic fragments. Locally strong quartz-carbonate veining. Siliceous gradational upper and lower contacts.											
229.8	248.6	: intermediate to mafic composition, local spotty carbonate.											
248.6	249.7	: strongly quartz-carbonate viened.											

Structure :.
Foliation :.
155.0 : 55 degrees to core axis.
165.5 : 50 degrees to core axis.
167.5 : parallel to degrees to core axis.
168.0 : 50 degrees to core axis.
175.0 : 60 degrees to core axis.
188.0 : 50 degrees to core axis.
195.0 : 55 degrees to core axis.
208.0 : 45 degrees to core axis.
222.0 : 45 degrees to core axis.

Faults :.
152.5 : fault slip 40 degrees to core axis.
166.2 : fault gouge with no orientation.
207.3 : fault gouge at 40 degrees to core axis.

Alteration :.
148.7 200.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION.
200.0 234.0 WEAK FRACTURE CONTROLLED CARBONATIZATION.
234.0 247.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION.
247.0 249.7 WEAK FRACTURE CONTROLLED CARBONATIZATION.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-59

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
249.7	251.5	FELSIC TUFF Light to medium grey, fine-grained tuff. Weak moderately chloritic with wispy chlorite. Lower contact gradational into intermediate tuff. Weak fracture controlled carbonate. Weak wavy foliation 50 at degrees to core axis. Alteration :. 249.7 251.5 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
251.5	258.5	INTERMEDIATE TUFF Grey to medium green, fine-grained tuff, weak to moderately chloritic with wispy chlorite. Weak fracture controlled carbonate and abundant quartz-carbonate veins. Weak wavy foliation at 55 degrees to core axis. 1 to 2% disseminated pyrite. 252.3 : fault gouge at 60 degrees to core axis. Alteration :. 251.5 258.5 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
258.5	262.0	FELSIC TUFF Light to medium grey, fine-grained tuff, very weakly chloritic with occasional wispy chlorite. Weak fracture controlled carbonate. Gradational upper and lower contact. Wavy variable foliation and 1 to 2 % disseminated pyrite. Alteration :. 258.5 262.0 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
262.0	288.5	MAFIC TUFF Medium to dark green, weakly foliation fine-grained tuff. Moderate to strong pervasive chlorite. Fracture controlled carbonate and quartz-carbonate veining. Gradational upper and lower contact. 1 to 2 % disseminated pyrite. 262.0 263.0 : intermediate to mafic composition gradational contact weakly foliation at 60 degrees to core axis. 263.0 272.8 : strongly chloritic, up to 80 % blocky, highly fractured core, quartz vein associated chalcopyrite (15%) at 170.5 m. 272.8 280.7 : moderately chloritic, variable composition from mafic to intermediate, minor felsic fragments throughout and up to 80 % felsic fragments from 273.4 to 274 m. 280.7 282.1 : massive, mafic dyke.	VA02011	269.5	270.4	.9	n/a	28	<5	170	<1	<5	300
			VA02012	270.4	270.9	.5	n/a	28000	8	130	23	617	620
			VA02013	270.9	271.8	.9	n/a	161	<5	100	<1	<5	700

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		282.1 288.5 : moderately chloritic, variable composition from mafic to intermediate, minor felsic fragments. Foliation :. 284.0 : 60 degrees to core axis. Alteration :. 262.0 272.0 WEAK FRACTURE CONTROLLED CARBONATIZATION. 272.0 288.5 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
288.5	297.3	INTERMEDIATE TUFF Light to medium grey green, fine-grained tuff with interbedded to intercalated fine-grained intermediate to felsic tuffs. Weak to moderately chloritic. Minor quartz-carbonate veins. Minor fracture controlled to weakly pervasive carbonate. 1 to 2% disseminated pyrite. Strongly gradational upper and lower contact. Structure. Foliation :. 294.0 : 55 degrees to core axis. Alteration :. 288.5 297.3 WEAK FRACTURE CONTROLLED CARBONATIZATION.	VA01155	290.0	320.0	30.0	n/a	14	n/a	42	n/a	n/a	1080
297.3	306.2	CHLORITIC FELSIC QUARTZ EYE TUFF Light to medium green, weakly quartz phyric sericite schist. 1 to 2 %, up to 2 mm quartz phenocrysts. Weak to moderately chloritic and moderately sericitic. Minor quartz-carbonate veins. 297.5 298.8 : ripped up siliceous, cherty fragments, and minor argillic fragments. 299.5 299.8 : light to medium grey, felsic ash tuff. Strong upper and lower contact at 70 and 50 degrees to core axis. 302.8 303.3 : dark to medium green, fine-grained mafic tuff, moderately gradational contacts. 305.9 306.2 : dark to medium green, fine-grained mafic tuff, gradational upper and sharp lower contact Foliation :. 302.0 : 55 degrees to core axis. Alteration :. 297.3 306.2 MODERATE PERVASIVE SERICITIZATION.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
306.2	310.8	CHLORITIC FELSIC QUARTZ EYE LAPILLI TUFF Light to medium green, weakly quartz phyric sericite schist. 1 to 2%, up to 2 mm quartz phenocrysts. Weak to moderately chloritic and moderately sericitic. Variable size felsic, argillite, and chert fragments up to 3.0 cm. Fragments are concentrated locally but individual fragments found throughout. Overall weakly foliated at approximately 60 degrees to core axis. Alteration :. 306.2 310.8 MODERATE PERVASIVE SERICITIZATION.											
310.8	313.2	INTERMEDIATE TUFF Medium green, fine-grained intermediate tuff. Moderate to strongly chloritic with minor fracture controlled carbonate and quartz-carbonate veins. Gradational upper and lower contacts. Weakly foliated. Foliation :. 313.0 : 60 degrees to core axis. Alteration :. 310.8 313.2 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
313.2	322.0	CHLORITIC FELSIC QUARTZ EYE TUFF Light to medium green, weak to moderate chloritic, fine-grained , weakly quartz phyric sericite schist. 1 to 2%, up to 2 mm quartz phenocrysts. Quartz-carbonate veins increasing towards lower contact. Gradational upper contact and sharp lower contact. Minor intebedded, medium green, moderate chloritic, fine-grained intermediate tuffs. 314.1 314.3 : fine-grained intermediate tuff, sharp upper and gradational lower contacts. 318.4 318.5 : fine-grained intermediate tuff, sharp upper and lower contact parallel to to foliation. 318.6 319.2 : fine-grained intermediate tuff, sharp upper and lower contact at 70 and 85 degrees to core axis. Foliation :. 318 : 45 degrees to core axis. Alteration :. 313.2 322.0 MODERATE PERVASIVE SERICITIZATION.	VA01156	320.0	340.0	20.0	n/a	<10	n/a	39	n/a	n/a	1090
322.0	328.7	MAFIC TUFF Medium to dark green, fine-grained tuff becoming											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

intermediate in composition towards lower contact. Moderate to strongly chloritic. Weakly magnetic. Fracture controlled carbonate and quartz-carbonate veins and stringers throughout. Light brown mineral associated with quartz-carbonate veins. Weak to moderately foliation.

Foliation :.
322.8 : 25 degrees to core axis.
328.0 : 45 degrees to core axis.

Alteration :.
322.0 328.7 WEAK FRACTURE CONTROLLED CARBONATIZATION.

328.7 336.8 CHLORITIC FELSIC QUARTZ EYE TUFF
Light to medium green, variable chloritic, weakly quartz phyric sericite schist. 1 to 2%, up to 2 mm quartz phenocrysts. Quartz-carbonate veins. Minor siliceous fragments near gradational upper contact, sharp lower contact.

Foliation :.
334.0 : 45 degrees to core axis.

Alteration :.
328.7 336.8 MODERATE PERVASIVE SERICITIZATION.

336.8 338.4 MAFIC TUFF
Medium to dark green, fine-grained tuff becoming intermediate in compostion towards lower contact. Moderate to strongly chloritic. Locally weakly magnetic. Fracture controlled carbonate and minor quartz-carbonate veins. Sharp upper and lower contact.

Foliation :.
338.0 : 70 degrees to core axis.

Alteration :.
336.8 338.4 WEAK FRACTURE CONTROLLED CARBONATIZATION.

338.4 340.5 CHLORITIC FELSIC QUARTZ EYE TUFF
Light to medium green, variable chloritic, weakly quartz phyric sericite schist. 1 to 2%, up to 2 mm quartz phenocrysts. Minor quartz-carbonate veins and fracture controlled carbonate.

Foliation :.
339.0 : 65 degrees to core axis.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-59 Page Number 12

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Alteration :.											
		338.4 340.5 MODERATE PERVASIVE SERICITIZATION.											
		E.O.H. = 340.5 m.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00695	17.30	17.60	78.00	12.30	0.14	0.26	3.41	2.08	0.67	0.15	0.05	0.04	1.23	98.33	993.	40.	4.
VA00696	22.90	23.10	78.10	13.00	0.22	0.62	2.68	2.32	1.47	0.18	0.05	0.05	1.47	100.16	1500.	50.	3.
VA00697	27.60	27.85	64.20	16.90	0.49	0.62	3.95	2.89	5.87	0.75	0.24	0.18	2.62	98.71	891.	44.	4.
VA00698	42.20	42.50	40.00	13.80	12.30	6.41	0.62	2.12	12.90	0.70	0.34	0.28	11.10	100.57	511.	40.	13.
VA00699	54.10	54.50	54.50	16.50	4.83	2.23	3.43	2.63	8.61	0.80	0.21	0.14	5.08	98.96	683.	37.	8.
VA00700	67.80	68.20	71.00	13.00	3.05	0.63	2.08	2.92	1.52	0.20	0.05	0.04	3.62	98.11	1210.	41.	5.
VA00701	70.50	70.80	70.20	13.40	3.66	0.45	3.21	2.59	0.77	0.18	0.04	0.06	3.93	98.49	1100.	31.	7.
VA00702	82.60	82.90	49.00	17.10	6.89	2.82	1.98	3.26	8.35	0.55	0.43	0.17	8.47	99.02	1040.	41.	9.
VA00703	89.60	90.00	73.20	12.60	2.45	0.75	3.36	2.17	1.63	0.18	0.05	0.04	2.85	99.28	880.	33.	6.
VA00704	110.50	110.80	71.00	12.30	2.45	0.96	3.24	2.21	2.03	0.18	0.04	0.07	4.00	98.48	872.	36.	6.
VA00705	120.00	120.50	70.50	14.10	2.59	0.92	3.61	2.52	1.67	0.19	0.05	0.06	3.77	99.98	1000.	36.	6.
VA00706	130.00	130.30	72.90	13.30	2.23	0.79	3.65	2.38	1.64	0.21	0.04	0.06	3.23	100.43	977.	35.	6.
VA00707	147.10	147.40	70.70	13.20	3.61	0.90	1.97	2.77	2.21	0.20	0.05	0.08	4.08	99.77	1040.	40.	6.
VA00708	152.00	152.40	50.90	18.30	6.02	2.78	2.86	1.61	8.85	0.90	0.17	0.18	6.85	99.42	571.	33.	9.
VA00709	163.20	163.50	43.10	16.60	10.40	3.13	2.37	1.80	11.00	0.85	0.32	0.21	10.50	100.28	546.	28.	13.
VA00710	172.70	173.00	54.50	16.00	5.57	2.07	2.70	1.55	9.52	0.87	0.21	0.23	5.62	98.84	503.	30.	8.
VA00711	176.20	176.50	55.00	14.60	6.62	2.41	2.65	1.45	7.67	0.79	0.25	0.23	7.00	98.67	397.	29.	9.
VA00712	182.60	183.00	53.70	19.00	4.45	2.82	2.29	1.36	9.00	0.88	0.25	0.15	6.08	99.98	697.	38.	7.
VA00713	194.10	194.50	52.30	17.60	7.36	1.82	2.44	1.92	7.36	0.95	0.24	0.18	8.00	100.17	768.	28.	10.
VA00714	204.00	204.50	52.70	17.10	6.98	2.25	2.69	1.62	7.75	0.93	0.24	0.15	7.70	100.11	693.	29.	10.
VA00715	210.00	210.50	53.50	15.80	6.56	2.56	2.37	1.73	8.55	0.86	0.25	0.30	7.54	100.02	553.	32.	9.
VA00716	214.20	214.60	53.50	17.90	5.37	2.51	2.67	2.45	6.85	0.97	0.28	0.28	7.39	100.17	748.	38.	8.
VA00717	223.80	224.10	52.10	18.40	5.08	2.59	3.10	1.86	8.99	1.02	0.26	0.18	6.47	100.05	612.	35.	8.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00718	239.60	239.90	51.30	17.30	7.54	2.09	2.77	1.91	7.87	0.81	0.22	0.14	8.39	100.34	988.	28.	10.
VA00719	246.40	246.80	51.80	18.30	5.72	2.94	2.04	1.91	8.84	0.91	0.20	0.17	7.31	100.14	954.	38.	8.
VA00720	249.80	250.10	51.00	21.90	3.27	2.75	4.17	2.41	8.05	1.06	0.34	0.15	5.16	100.26	1240.	41.	7.
VA00721	256.10	256.50	55.40	16.80	5.42	2.38	2.59	1.28	8.98	0.87	0.25	0.30	6.16	100.43	792.	31.	8.
VA00722	260.50	260.80	53.40	20.40	4.30	2.31	2.16	3.17	7.03	0.95	0.33	0.18	5.54	99.77	1770.	46.	6.
VA00723	269.30	269.60	46.40	13.60	8.98	5.31	1.82	0.55	11.90	1.54	0.12	0.20	10.00	100.42	279.	35.	11.
VA00724	276.80	277.10	54.10	18.10	6.36	2.26	2.13	3.32	6.31	0.91	0.28	0.10	6.16	100.03	958.	40.	8.
VA00725	284.00	284.40	62.50	16.60	2.59	1.59	5.72	0.90	7.07	0.80	0.26	0.08	2.00	100.11	638.	23.	8.
VA00726	294.40	294.80	49.70	19.00	5.98	2.43	3.31	1.85	9.05	1.04	0.32	0.24	7.00	99.92	727.	32.	9.
VA00727	300.80	301.10	73.10	13.80	2.08	1.47	2.20	1.67	1.92	0.20	0.04	0.06	3.39	99.93	1430.	42.	4.
VA00728	311.30	311.70	54.50	17.20	5.81	2.67	2.20	2.49	7.67	0.55	0.44	0.15	6.54	100.22	1180.	39.	8.
VA00729	315.10	315.50	70.80	13.10	2.74	1.60	2.16	2.21	2.19	0.25	0.14	0.11	4.54	99.84	925.	44.	5.
VA00730	323.80	324.10	49.40	17.10	7.98	2.13	2.68	2.54	8.97	0.67	0.63	0.26	8.08	100.44	869.	30.	11.
VA00731	335.20	335.50	71.90	13.30	3.22	1.07	2.23	1.94	1.82	0.22	0.06	0.08	3.85	99.69	1060.	36.	5.
VA00732	337.30	337.70	70.40	14.40	2.50	1.50	2.17	2.18	2.36	0.24	0.10	0.08	3.85	99.78	1110.	44.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01139	9.90	21.20	75.80	14.00	0.14	0.67	2.28	3.27	1.03	0.19			1.77	99.15	1540.	62.	2.
VA01140	22.00	24.00	69.20	16.70	0.32	1.31	3.02	3.04	3.56	0.27			2.54	99.96	1670.	57.	3.
VA01141	24.60	30.00	58.40	17.70	1.28	2.20	3.84	2.72	8.43	0.81			3.62	99.00	1060.	49.	5.
VA01142	30.20	51.00	44.00	14.80	8.49	6.31	1.72	2.34	10.50	0.72			9.77	98.65	1100.	46.	10.
VA01143	53.00	63.00	53.60	17.30	5.18	2.29	3.06	2.97	8.76	0.76			5.23	99.15	864.	39.	8.
VA01144	64.00	81.60	72.60	12.80	3.46	0.54	2.82	2.47	1.57	0.18			3.70	100.14	916.	32.	6.
VA01145	84.00	94.00	72.30	12.90	2.72	0.79	3.10	2.35	1.74	0.18			3.47	99.55	920.	35.	6.
VA01146	94.00	113.00	71.90	13.50	2.40	0.82	2.57	2.90	1.98	0.18			3.62	99.87	1140.	43.	5.
VA01147	114.00	130.00	66.60	13.90	3.64	1.34	2.68	2.97	2.86	0.25			5.16	99.40	1040.	41.	6.
VA01148	130.00	148.00	65.90	14.30	3.79	1.40	3.11	2.72	3.34	0.30			4.93	99.79	1100.	37.	7.
VA01149	149.00	168.00	51.00	17.30	6.55	2.85	2.87	1.55	8.68	0.81			7.54	99.15	606.	32.	9.
VA01154	162.00	290.00	54.90	16.80	5.34	2.66	3.55	1.85	7.71	0.95			5.39	99.15	771.	34.	9.
VA01150	168.00	198.00	52.70	17.10	6.41	2.26	2.65	1.82	8.36	0.86			7.16	99.32	670.	31.	9.
VA01151	198.00	228.00	53.00	16.70	5.79	2.51	2.66	1.82	8.73	0.94			6.62	98.77	639.	34.	8.
VA01152	228.00	248.00	50.70	17.40	6.40	2.96	2.58	1.84	8.78	0.83			7.62	99.11	827.	35.	9.
VA01153	248.00	262.00	52.80	18.70	5.25	2.37	2.60	2.21	7.86	0.86			6.16	98.81	1260.	37.	8.
VA01155	290.00	320.00	61.20	15.50	4.64	2.10	2.67	2.03	5.15	0.46			5.70	99.45	1080.	36.	7.
VA01156	320.00	340.00	62.80	15.60	4.08	1.77	2.23	2.39	5.00	0.40			4.93	99.20	1090.	40.	6.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA01999	32.00	33.00	910.0	89.0	230.0	<0.5	14.0	22.0	29.0	34.0	46.0	<1.0	4.0	850.0	28.	2.	6.
VA02000	33.00	34.00	2800.0	72.0	210.0	<0.5	22.0	20.0	32.0	28.0	38.0	<1.0	5.0	590.0	26.	2.	6.
VA02001	34.00	35.00	1400.0	63.0	120.0	<0.5	10.0	27.0	32.0	8.0	38.0	<1.0	6.0	1000.0	34.	2.	8.
VA02002	46.00	47.00	730.0	61.0	120.0	<0.5	<5.0	28.0	31.0	7.0	46.0	<1.0	6.0	1100.0	34.	2.	8.
VA02003	47.00	48.00	1600.0	58.0	135.0	<0.5	34.0	20.0	24.0	9.0	30.0	<1.0	7.0	1000.0	30.	2.	6.
VA02004	48.00	49.00	1800.0	71.0	115.0	<0.5	<5.0	26.0	25.0	<5.0	56.0	<1.0	6.0	1000.0	38.	2.	7.
VA02005	108.00	109.00	1100.0	7.0	30.0	<0.5	<5.0	2.0	5.0	<5.0	28.0	<1.0	4.0	235.0	19.	2.	1.
VA02006	111.00	112.00	840.0	7.0	15.0	<0.5	<5.0	2.0	4.0	12.0	<5.0	<1.0	2.0	250.0	32.	2.	1.
VA02007	112.00	113.10	970.0	4.0	15.0	<0.5	<5.0	2.0	4.0	5.0	<5.0	<1.0	2.0	330.0	21.	2.	1.
VA02008	168.00	169.00	960.0	7.0	90.0	<0.5	<5.0	7.0	6.0	<5.0	<5.0	<1.0	2.0	790.0	7.	2.	3.
VA02009	169.00	170.00	710.0	163.0	80.0	<0.5	<5.0	11.0	7.0	5.0	<5.0	<1.0	2.0	900.0	67.	1.	3.
VA02010	170.00	171.00	620.0	15.0	75.0	<0.5	<5.0	10.0	6.0	<5.0	<5.0	<1.0	3.0	950.0	17.	1.	3.
VA02011	269.50	270.40	300.0	28.0	170.0	<0.5	<5.0	21.0	44.0	<5.0	<5.0	<1.0	3.0	950.0	14.	1.	4.
VA02012	270.40	270.90	620.0	28000.0	130.0	22.9	617.1	17.0	15.0	8.0	<5.0	3.0	2.0	540.0	100.	2.	5.
VA02013	270.90	271.80	700.0	161.0	100.0	<0.5	<5.0	13.0	8.0	<5.0	<5.0	<1.0	2.0	480.0	62.	1.	4.

Summary Log: DDH CH88-60
Location: 50+00 W, 10+38 N; Holyoak 3 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 27, 1988
Core logged by: J. Pattison

0.0	20.7	Casing
20.7	23.0	Gabbro
23.0	41.4	Weakly chloritized felsic tuff
41.4	42.4	Felsic to intermediate tuffaceous sediments
42.4	59.2	Weakly chloritized felsic tuff
59.2	78.2	Weakly chloritized felsic tuff
78.2	93.9	Chloritic felsic tuff and intercalated argillaceous sediments
93.9	233.5	Chloritic felsic quartz eye tuff Includes a 12.0 m interval with 5 % disseminated and and possibly stringer pyrite. A 0.5 m interval contains 5 % very pale yellow sphalerite (?)

EOH @ 233.5 m

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-60 | Page Number 1

Hole Location: 50+00' W 10+38 N

NTS: 92B13 UTM:
Azimuth: 210 Elevation: 909 m
Dip: -50 Length: 233.5 m

Started: 24-May-88
Completed: 27-May-88

Claim No. Holyoak 3
Section No.: 39+00 E

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ

Purpose: Test IP anomalies.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
30.80	210.0	-50.0	232.00	210.0	-45.0
122.20	210.0	-45.5			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	20.7	OVERBURDEN											
20.7	23.0	MAFIC INTRUSIVE Dark green, fine-grained, massive gabbro. Carbonate filled gashes are common and carbonate is completely weathered away in many places. Weak fracture controlled hematization. Fault at 30-40 degrees to core axis at the lower contact. STRUCTURE:. 21.8-23.0 M FAULT ZONE at 30-40 degrees to core axis. 0.4 m of lost core.											
23.0	41.4	WEAKLY CHLORITIC FELSIC TUFF Up to 40 % light grey to green-grey felsic lapilli in a fine-grained, moderately sericitic and weakly to moderately chloritic, well foliated, light green-grey felsic matrix with up to 10 % <1mm feldspar crystals. Lapilli are relatively well defined above 26.0 m. Below 26.0 m the rock has a mottled, vaguely fragmental appearance. Bands and patches of light brown sericite or biotite occur throughout and give the rock a mottled appearance. Lower contact is a bedding contact at 30 degrees to core axis. STRUCTURE:. Foliation is wavey throughout. At 26.3 m bedding is at 40 degrees to core axis. At 28.0 m foliation is at 32 degrees to core axis. 28.5-28.6 M fault gouge at 40-50 degrees to core axis.	VA02847	23.0	41.4	18.4	n/a	<10	n/a	25	n/a	n/a	1740
			VA03958	35.0	36.0	1.0	1	6	8	90	<1	<5	1300
			VA03959	36.0	36.5	.5	2	39	50	470	1	38	1400
			VA03960	36.5	37.5	1.0	1	19	28	370	<1	8	1100
			VA03961	37.5	38.5	1.0	2	7	<5	72	<1	<5	1100
			VA03962	38.5	39.5	1.0	2	6	6	64	<1	<5	1100
			VA03963	39.5	40.5	1.0	2	4	5	55	<1	<5	1200
			VA03964	40.5	41.4	.9	0	14	5	50	<1	<5	1200

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 33.0 m foliation is at 25-30 degrees to core axis. At 35.8 m foliation is at 18 degrees to core axis. At 39.0 m foliation is at 28 degrees to core axis. At 40.5 m 3 mm fault gouge at 55 degrees to core axis. ALTERATION:. 23.0 24.0 MODERATE PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. 24.0 24.1 WEAK PERVASIVE CHLORITIZATION , WEAK FRACTURE CONTROLLED CARBONATIZATION to MODERATE FRACTURE CONTROLLED CARBONATIZATION and MODERATE PERVASIVE SERICITIZATION. Light brown sericite bands 2-5 mm wide parallel to foliation are common. 26.2 26.5 Finely bedded interval. Beds are 2-4 mm thick and are at 40 degrees to core axis. SULPHIDES:. 36.5-41.4 m 1-2% disseminated pyrite. 36.1 36.3 Quartz flooded zone with 5 % pyrite.											
41.4	42.4	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Well bedded intermediate to felsic cherty sediments over the first 0.5 m. Beds are 2-5 mm thick and are parallel to foliation at 38 degrees to core axis. A tight minor fold occurs at 41.5 m and the fold axis is nearly parallel to the core axis. Dark green moderately carbonatized mafic tuffaceous sediments or tuffs occur below 42.0 m. Lower contact is a bedding contact at 30 degrees to core axis.											
42.4	59.2	CHLORITIC FELSIC QUARTZ EYE LAPILLI TUFF 10-50% Light grey, fine-grained sericitic, lapilli-sized felsic fragments, stretched parallel to foliation in a dark green chloritic felsic (?) matrix gives the rock a streaky appearance. 3-6% grey 2 to 4 mm quartz eyes. In most places quartz eyes have a highly fractured and crushed appearance. Lower contact is parallel to foliation at 30 degrees to core axis. STRUCTURE:. Foliation is wavey throughout. At 44.5 m foliation is at 40 degrees to core axis. At 47.5 m foliation is at 35 degrees to core axis. At 49.1 m foliation is at 24 degrees to core axis. At 50.6 m bedding is at 28 degrees to core axis. At 54.1 m foliation is at 32 degrees to core axis. At 57.4 m foliation is at 20 degrees to core axis.	VA02848	42.4	59.2	16.8	n/a	33	n/a	12	n/a	n/a	1200
			VA03965	50.0	51.0	1.0	2	21	7	48	<1	<5	1000
			VA03966	51.0	52.0	1.0	2	30	<5	58	<1	<5	750
			VA03967	56.0	57.0	1.0	1	22	11	95	<1	<5	1300
			VA03968	57.0	58.0	1.0	5	26	16	380	<1	14	1300
			VA03969	58.0	59.2	1.2	1	37	8	90	<1	5	790

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-60 | Page Number 3

From (m)	To (m)	----------DESCRIPTION----------
		At 59.0 m 3 mm fault gouge at 30 degrees to core axis.
		ALTERATION:.
41.4	59.2	MODERATE PERVASIVE CHLORITIZATION , MODERATE PERVASIVE SERICITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION. Chlorite bands 1-5 mm thick, parallel to foliation occur throughout the rock.
50.1	50.3	Chlorite bands parallel to foliation, up to 5.0 cm wide.
50.6	888.8	Fine bedded felsic ash tuff over 3.0 cm. A 1.0 cm bedding of semi-massive pyrite occurs in the centre and FINES UP HOLE. Bedding is at 28 degrees to core axis.
		SULPHIDES:.
		50.0-52.0 m 1-2% disseminated pyrite.
		57.0-58.0 m 5 % pyrite, disseminated and in semi-massive bands up to 1.0 cm wide.
52.8	53.6	Local 2. Moderately carbonatized. Upper contact is at 46 degrees to core axis. Broken core at the lower contact.
56.9	57.0	Two 2.0 cm bands of carbonatized chlorite schist parallel to foliation.
57.0	58.0	Rock is more sericitic and less chloritic but still has a mottled appearance. 5 % pyrite in quartz-chlorite altered bands parallel to foliation.
58.4	58.7	Local 2. MODERATE FRACTURE CONTROLLED CARBONATIZATION. Upper contact is at 30 degrees to core axis and the lower contact is at 15 degrees to core axis. Trace disseminated pyrite.
59.2	78.2	WEAKLY CHLORITIC FELSIC TUFF
		Weakly chloritic (much less than unit above) ash to lapilli tuff. Rock has a steaky, mottled, fragmental appearance. Occasional white, strongly sericitic band 2-20 cm wide parallel to foliation. Locally up to 20 % <1 mm feldspar crystals. .
		STRUCTURE:.
		At 64.1 m foliation is at 28 degrees to core axis.
		At 72.7 m bedding is at 45 degrees to core axis.
		ALTERATION:.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA02849	59.2	78.2	19.0	n/a	30	n/a	60	n/a	n/a	1310
VA03970	59.2	60.0	.8	2	8	5	45	<1	<5	1400
VA03971	60.0	61.0	1.0	2	8	5	70	<1	7	1300
VA03972	61.0	62.0	1.0	2	12	5	120	<1	7	1500
VA03973	62.0	63.0	1.0	2	43	5	124	<1	11	1500
VA03974	63.0	64.0	1.0	2	44	6	300	1	16	1200
VA03975	64.0	65.0	1.0	0	21	9	100	<1	9	1100
VA03976	65.0	66.0	1.0	2	9	7	80	<1	<5	1100
VA03977	66.0	67.0	1.0	2	6	5	44	<1	<5	920
VA03978	67.0	68.0	1.0	2	4	<5	52	<1	<5	1100

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-60 | Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	59.2 78.2	MODERATE PERVASIVE SERICITIZATION to STRONG PERVASIVE SERICITIZATION, WEAK PERVASIVE CHLORITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION. Streaky very pale brown sericite or biotite throughout.	VA03979	68.0	69.0	1.0	2	6	6	50	<1	<5	1200
			VA03980	69.0	70.0	1.0	2	5	5	65	<1	<5	1200
		71.0-78.2 M very soft orange-brown micaceous mineral occurs along foliation planes and in veins up to 3 mm wide											
		SULPHIDES:.											
		59.2-70.0 m 1-2% disseminated pyrite.											
	71.7 71.8	Grey sericitic wacke bed at 58 degrees to core axis. Several black mud clasts < 5 mm long.											
	73.1 73.6	Broken up, contorted beds of grey to black argillaceous sediments intruded by quartz-carbonate veins and pods. 5 % light orange-brown micaceous alteration mineral.											
78.2	93.9	CHLORITIC FELSIC TUFF AND INTERCALATED ARGILLACEOUS SEDIMENTS											
		Light grey to green-grey felsic tuffs (with a variable sedimentary component) are intercalated with beds of grey to black argillaceous wackes and argillites 1-10 mm thick. The sediment beds constitute 5-60 % of the unit. The felsic tuff varies from a well bedded ash tuff above 87.0 m to a coarse ash to lapilli tuff below 87.0 m. Above 87.0 m beds are 2-5 mm thick on average. The felsic tuff contains up to 15 % < 1 mm feldspar crystals. Lower contact is a bedding contact at 25 degrees to core axis.	VA02850	78.2	93.9	15.7	n/a	29	n/a	20	n/a	n/a	3590
			VA03981	84.9	85.9	1.0	4	102	9	75	<1	14	1800
			VA03982	85.9	86.9	1.0	4	60	8	56	<1	7	1700
			VA03983	86.9	88.0	1.1	4	5	5	25	<1	<5	6500
			VA03984	88.0	88.5	.5	2	5	7	22	<1	<5	5800
			VA03985	88.5	89.5	1.0	2	20	7	40	<1	7	4200
			VA03986	89.5	90.5	1.0	2	4	6	28	<1	<5	4200
			VA03987	90.5	91.5	1.0	2	4	<5	29	<1	<5	3500
			VA03988	91.5	92.6	1.1	2	5	7	34	<1	12	3300
			VA03989	92.6	93.9	1.3	2	70	15	84	<1	24	1800
		STRUCTURE:.											
		Foliation is well developed throughout.											
		At 79.0 m bedding is parallel to foliation at 50 degrees to core axis.											
		At 88.8 m foliation is at 45 degrees to core axis.											
		At 92.6 m bedding is at 40 degrees to core axis.											
		At 92.6 m 1.5 cm fault gouge at 35-40 degrees to core axis.											
		ALTERATION:.											
		78.2 93.9 MODERATE PERVASIVE SERICITIZATION.											
		88.5-89.0 m 2 bands of soft, orange-brown alteration mineral 3 and 10 cm thick parallel to foliation.											
		SULPHIDES:.											
		78.2-85.9 M trace to 1 % disseminated pyrite.											
		85.9-88.5 m 4 % disseminated pyrite.											
		88.5-92.6 m 1-2% disseminated pyrite.											
		92.6-93.9 m 6 % disseminated pyrite.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-60 Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	85.9 86.9	Broken up pyritic, black argillite beds constitute 30 % of the core. 4 % pyrite overall.											
	92.6 93.9	Greywacke (80%) and black argillite (20%). Greywacke is massive and argillite occurs as rip-up clasts and finely bedded to laminated deposits < 5.0 cm thick. 6 % disseminated pyrite											
93.9	233.5	CHLORITIC FELSIC QUARTZ EYE TUFF											
		Light grey sericitic felsic tuff (coarse ash to lapilli) with a slight green tint in places due to very weak chlorite alteration with 2-8%, 2 to 5 mm clear quartz eyes and locally up to 15 % <2 mm feldspar crystals. Moderate patchy, spotty and streaky chlorite occurs below 110.6 m. Patchy chlorite alteration gives rock a fragmental appearance. Quartz eyes increase in abundance (5-10%) and size (3-6 mm) below 120.0 m.	VA02851	93.9	123.0	29.1	n/a	<10	n/a	11	n/a	n/a	1610
			VA03990	93.9	94.9	1.0	2	8	9	44	<1	6	1300
			VA03991	108.7	109.7	1.0	1	6	<5	72	<1	<5	2000
			VA03992	109.7	111.0	1.3	2	6	<5	26	<1	<5	1300
			VA03993	111.0	112.0	1.0	2	9	5	42	<1	<5	1100
			VA03994	112.0	113.0	1.0	2	16	<5	70	<1	<5	1200
			VA03995	113.0	114.0	1.0	2	7	<5	36	<1	5	1400
			VA03996	114.0	115.0	1.0	2	12	<5	53	<1	<5	1300
			VA03997	115.0	116.0	1.0	2	14	<5	30	<1	<5	1200
		STRUCTURE:.	VA03998	116.0	117.0	1.0	2	25	<5	71	<1	14	1500
		Foliation is wavey throughout and locally strongly kinked.	VA03999	117.0	119.2	2.2	2	7	<5	13	<1	9	1500
		At 96.7 foliation is at 35 degrees to core axis.	VA04000	119.2	120.0	.8	2	7	<5	16	<1	<5	900
		99.8-100.4 M slip runs parallel to the core axis.	VA08001	120.0	121.0	1.0	2	6	<5	24	<1	<5	1300
		101.7-102.3 M FAULT ZONE at 17-30 degrees to core axis.	VA08002	121.0	122.0	1.0	2	4	<5	12	<1	<5	1400
		102.7-103.0 M fault gouge at 15 degrees to core axis.	VA08003	122.0	123.0	1.0	2	3	<5	25	<1	<5	1200
		103.3-105.3 M FAULT ZONE. Blocky, highly fractured core.	VA02852	123.0	153.0	30.0	n/a	<10	n/a	<10	n/a	n/a	1690
		Not possible to measure orientation but appears to be at <	VA08004	123.0	124.0	1.0	2	2	<5	32	<1	<5	1200
		30 degrees to core axis.	VA08005	124.0	125.0	1.0	2	6	5	33	<1	6	1300
		108.7-109.4 M fault zone. Rock is crushed and there are	VA08006	125.0	126.2	1.2	2	3	<5	34	<1	<5	1200
		several fault gouges at 0-50 c/a at 116.1 m foliation is	VA08007	126.2	127.0	.8	2	4	<5	27	<1	<5	1300
		at 40 degrees to core axis.	VA08008	127.0	128.0	1.0	2	6	<5	32	<1	<5	1600
		At 114.5 slip at 19 degrees to core axis.	VA08009	128.0	129.0	1.0	2	5	<5	42	<1	<5	1500
		117.1-119.2 M FAULT ZONE at 25 degrees to core axis. Fault	VA08010	129.0	130.0	1.0	2	4	<5	36	<1	<5	1700
		gouge and crushed rock over the entire interval 0.9 m of	VA08011	130.0	131.0	1.0	2	5	<5	20	<1	13	1600
		lost core.	VA08012	131.0	132.0	1.0	2	15	<5	20	<1	12	1600
		At 120.2 m foliation is at 35 degrees to core axis.	VA08013	132.0	133.0	1.0	4	16	<5	17	1	11	1800
		At 124.6 m foliation is at 34 degrees to core axis.	VA08014	133.0	134.0	1.0	n/a	260	<5	36	<1	18	1600
		125.1-126.2 M FAULT ZONE at 30 degrees to core axis. 0.3 m	VA08015	134.0	135.0	1.0	5	9	<5	24	<1	25	1800
		of lost core.	VA08016	135.0	136.0	1.0	5	10	<5	17	1	37	2100
		126.6-126.8 Fault gouge at 25 degrees to core axis.	VA08017	136.0	137.0	1.0	3	30	<5	33	<1	15	2300
		At 135.0 m foliation is at 30 degrees to core axis.	VA08018	137.0	138.0	1.0	3	19	<5	10	<1	10	1900
		At 136.0 m 3.0 cm fault gouge at 42 degrees to core axis.	VA08019	138.0	139.0	1.0	3	14	<5	46	<1	10	1500
		136.8-136.9 M fault gouge at 30 degrees to core axis.	VA08020	139.0	140.0	1.0	3	12	<5	25	<1	<5	1400
		137.5-138.0 M FAULT ZONE at 30 degrees to core axis.	VA08021	140.0	141.0	1.0	3	15	<5	34	<1	<5	1300
		At 139.0 m minor fault. Not possible to measure orientation	VA08022	141.0	142.0	1.0	3	8	<5	44	<1	<5	1300
		139.5-140.0 M slip runs parallel to the core axis.	VA08023	142.0	144.0	2.0	3	8	<5	40	<1	<5	1300
		140.1-140.3 M fault gouge at 20 degrees to core axis.	VA08024	144.0	145.0	1.0	3	11	<5	35	<1	<5	1300
		At 141.4 m foliation is at 20 degrees to core axis.	VA08025	145.0	146.0	1.0	4	9	<5	16	<1	44	1100
		At 141.8 m 5.0 cm fault gouge at 26 degrees to core axis.	VA08026	146.0	147.0	1.0	4	12	<5	20	1	144	950
		142.0-143.3 M FAULT ZONE at 35 degrees to core axis. 0.5 m	VA08027	147.0	148.0	1.0	4	15	<5	64	1	78	860
		of lost core.	VA08028	148.0	149.0	1.0	4	21	5	220	<1	30	1000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-60 | Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 144.0 m 5.0 cm fault gouge at 30 degrees to core axis.	VA08029	149.0	150.0	1.0	4	14	5	108	1	41	1100
		At 146.0 m foliation is at 40 degrees to core axis.	VA08030	150.0	151.0	1.0	4	10	<5	194	<1	23	940
		148.4-149.149.4 M FAULT ZONE at 25 degrees to core axis.	VA08031	151.0	152.0	1.0	2	10	<5	43	<1	24	1300
		0.6 m of lost core.	VA08032	152.0	153.0	1.0	2	24	6	200	<1	15	1100
		At 152.9 m foliation is at 14 degrees to core axis.	VA08033	153.0	154.0	1.0	2	8	<5	34	<1	7	1300
		At 164.3 m foliation is at 25 degrees to core axis.	VA02853	153.0	183.0	30.0	n/a	<10	n/a	937	n/a	n/a	1320
		At 176.0 m foliation is at 14 degrees to core axis.	VA08034	154.0	155.0	1.0	2	7	<5	30	<1	<5	1300
		185.2-185.5 M slip at 13 degrees to core axis.	VA08035	155.0	156.0	1.0	2	13	<5	33	<1	5	1200
		At 185.7 m bedding is at 38 degrees to core axis.	VA08036	156.0	157.0	1.0	2	60	6	37	<1	<5	1400
		At 191.9 m foliation is at 45 degrees to core axis.	VA08037	157.0	158.0	1.0	2	9	<5	30	<1	16	1500
		192.2-192.7 m 3 mm fault gouge at a very low angle to the	VA08038	158.0	159.0	1.0	2	7	5	50	<1	19	1600
		core axis.	VA08039	159.0	160.0	1.0	2	6	<5	39	<1	<5	1600
		At 199.2 m foliation is at 30 degrees to core axis.	VA08040	160.0	161.0	1.0	2	14	<5	45	<1	8	1500
		214.5-215.2 M fault zone at 10 degrees to core axis.	VA08041	161.0	162.0	1.0	2	7	<5	32	<1	<5	1400
		215.5-217.8 M blocky, highly fractured core. 0.2 m of lost	VA08042	162.0	163.0	1.0	2	12	<5	32	<1	<5	1500
		core.	VA08043	163.0	164.0	1.0	2	10	5	34	<1	<5	1300
		At 219.5 m foliation is at 30 degrees to core axis.	VA08044	164.0	165.0	1.0	2	42	5	50	<1	5	1500
		227.0-228.0 m 3 mm fault gouge runs parallel to the core	VA08045	165.0	166.0	1.0	2	10	5	30	<1	9	1200
		axis.	VA08046	166.0	167.0	1.0	2	26	<5	95	<1	7	1200
		At 231.3 m foliation is at 30 degrees to core axis.	VA08047	167.0	168.0	1.0	3	18	<5	50	<1	13	1300
		230.4-233.5 m 0.2 m of lost core for no obvious reason.	VA08048	168.0	169.0	1.0	3	13	<5	20	<1	7	1300
			VA08049	169.0	170.0	1.0	3	12	<5	25	<1	23	1200
		ALTERATION:.	VA08050	170.0	171.0	1.0	3	16	<5	42	<1	15	1300
		Weak streaky, pale orange-brown biotite or sericite	VA08051	171.0	172.0	1.0	3	19	<5	1200	<1	6	1300
		alteration throughout.	VA08052	172.0	173.0	1.0	3	30	6	54	<1	6	1300
		93.9 98.4 MODERATE PERVASIVE SERICITIZATION to STRONG	VA08053	173.0	174.0	1.0	2	10	<5	40	<1	<5	1100
		PERVASIVE SERICITIZATION.	VA08054	174.0	175.0	1.0	2	7	<5	48	<1	<5	1000
		98.4 105.3 STRONG FRACTURE CONTROLLED SILICIFICATION.	VA08055	175.0	176.0	1.0	2	4	<5	60	<1	<5	970
		105.3 110.6 MODERATE PERVASIVE SERICITIZATION and locally	VA08056	176.0	177.0	1.0	2	15	5	45	<1	<5	1000
		moderate pale, orange-brown thermal biotite	VA08057	177.0	178.0	1.0	2	10	<5	39	<1	<5	1200
		(?) alteration.	VA08058	178.0	179.0	1.0	2	12	<5	36	<1	<5	1100
		110.6 131.0 MODERATE SPOTTY CHLORITIZATION and MODERATE	VA08059	179.0	180.0	1.0	2	10	<5	35	<1	<5	1000
		PERVASIVE SERICITIZATION to STRONG PERVASIVE	VA08060	180.0	181.0	1.0	2	10	<5	46	<1	<5	1100
		SERICITIZATION.	VA08061	181.0	182.0	1.0	2	12	<5	140	<1	11	1000
		131.0 136.3 MODERATE PERVASIVE SERICITIZATION and WEAK	VA08062	182.0	183.0	1.0	2	16	<5	50	<1	<5	1200
		SPOTTY CHLORITIZATION. Locally weak pale	VA08063	183.0	184.0	1.0	2	10	<5	34	<1	10	1200
		thermal biotite.	VA02854	183.0	195.3	12.3	n/a	10	n/a	59	n/a	n/a	1030
		136.3 145.0 MODERATE SPOTTY CHLORITIZATION and MODERATE	VA08064	184.0	185.0	1.0	2	10	<5	46	<1	7	1200
		PERVASIVE SERICITIZATION.	VA08065	185.0	186.0	1.0	2	380	<5	90	1	29	1200
		145.0 155.0 MODERATE PERVASIVE SERICITIZATION and WEAK	VA08066	186.0	187.0	1.0	2	14	<5	124	<1	8	1000
		SPOTTY CHLORITIZATION.	VA08067	187.0	188.0	1.0	2	40	5	70	<1	15	1100
		155.0 185.0 MODERATE SPOTTY CHLORITIZATION and MODERATE	VA08068	188.0	189.0	1.0	2	7	<5	39	<1	<5	1100
		PERVASIVE SERICITIZATION.	VA08069	189.0	190.0	1.0	2	8	<5	44	<1	<5	1000
		185.0 187.5 STRONG PERVASIVE CHLORITIZATION and MODERATE	VA08070	190.0	191.0	1.0	2	5	<5	59	<1	<5	970
		PERVASIVE SERICITIZATION.	VA08071	191.0	192.0	1.0	2	6	<5	70	<1	<5	970
		187.5 195.3 MODERATE SPOTTY CHLORITIZATION and MODERATE	VA08072	192.0	193.0	1.0	2	8	<5	110	<1	<5	870
		PERVASIVE SERICITIZATION.	VA08073	193.0	194.0	1.0	2	5	6	75	<1	<5	1000
		195.3 197.9 STRONG PERVASIVE SERICITIZATION and WEAK	VA08074	194.0	195.3	1.3	2	17	5	170	<1	<5	930
		SPOTTY CHLORITIZATION.	VA02855	195.3	225.0	29.7	n/a	<10	n/a	21	n/a	n/a	1270
		197.9 233.5 MODERATE PERVASIVE SERICITIZATION and WEAK	VA08075	195.3	196.3	1.0	5	68	5	1750	<1	51	1100
		SPOTTY CHLORITIZATION.	VA08076	196.3	197.9	1.6	5	8	<5	95	<1	15	1400

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-60 | Page Number 7

From (m)	To (m)	----------DESCRIPTION----------
		SULPHIDES:.
		93.9-109.7 M trace to 1 % disseminated pyrite.
		109.7-132.0 m 2 % disseminated pyrite. Pyrite is often associated with chloritic bands (stringers?).
		132.0-134.0 m 3 % pyrite in 1-4 mm chloritic stringers parallel to foliation and disseminated.
		134.0-136.0 m 6 % pyrite in 1-4 mm chloritic stringers parallel to foliation and disseminated.
		136.0-145.0 m 3 % pyrite as above.
		145.0-151.0 m 4 % pyrite in well defined dark grey siliceous bands 2-5 mm wide parallel to foliation.
		151.0-167.0 m 2 % disseminated pyrite.
		167.0-173.0 m 3 % disseminated pyrite.
		173.0-195.3 m 1-2% disseminated pyrite.
		195.3-197.4 m 5 % pyrite in dark grey, siliceous 1-5 mm bands (stringers?) parallel to foliation.
		197.4-197.9 m 8 % pyrite and 5 % pale cream-brown mineral (sphalerite?).
		197.9-208.0 m 4 % pyrite, disseminated and in 2-3mm bands parallel to foliation.
		208.0-233.5 m 2-3% disseminated pyrite.
98.4	114.1	Quartz flooded zone. Irregular quartz veins and pods 1-70 cm in thick with variable amounts of chlorite, carbonate and below 102.6 m, albite. Interval is also moderately tectonized and is broken and blocky throughout.
108.0	108.2	Carbonatized chloritic mafic tuff at 13-25 degrees to core axis.
166.2	116.4	Two bands of carbonatized mafic tuff (chlorite schist) 3 to 5 cm wide at 30-50 degrees to core axis.
119.2	120.0	Quartz flooded zone. Quartz veins up to 15 cm wide at 15 degrees to core axis with up to 5 % pyrite.
148.0	148.2	Dark green, carbonatized chlorite schist (mafic tuff?) at 30-35 degrees to core axis.
150.0	150.2	Strongly carbonatized mafic tuff or dyke at 30 degrees to core axis.
152.3	150.6	Strongly carbonatized mafic tuff or dyke at 60 degrees to core axis.
165.5	888.8	Dark green chloritic mafic tuff or dyke at 30 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA08078	197.4	197.9	.5	13	260	6	20400	1	103	1200
VA08077	197.9	199.0	1.1	4	7	<5	84	<1	23	1400
VA08079	199.0	200.0	1.0	4	14	6	210	<1	30	1300
VA08080	200.0	201.0	1.0	4	14	5	164	1	49	1100
VA08081	201.0	202.0	1.0	4	18	<5	64	<1	28	1300
VA08082	202.0	203.0	1.0	4	11	<5	38	<1	79	1300
VA08083	203.0	204.0	1.0	4	26	6	40	<1	8	1400
VA08084	204.0	205.0	1.0	4	46	6	38	<1	27	1500
VA08085	205.0	206.0	1.0	4	10	5	32	<1	24	1200
VA08086	206.0	207.0	1.0	4	16	5	95	<1	18	1400
VA08087	207.0	208.0	1.0	4	15	5	67	<1	7	1200
VA08088	208.0	209.0	1.0	3	12	6	54	<1	8	1100
VA08089	209.0	210.0	1.0	3	7	<5	47	<1	7	1200
VA08090	210.0	211.0	1.0	3	10	5	48	<1	5	1100
VA08091	211.0	212.0	1.0	3	7	6	36	<1	5	780
VA08092	212.0	213.0	1.0	3	7	5	36	<1	<5	970
VA08093	213.0	214.0	1.0	3	5	<5	32	<1	<5	1200
VA08094	214.0	215.0	1.0	3	7	5	32	<1	<5	1000
VA08095	215.0	216.0	1.0	3	7	6	52	<1	<5	1800
VA08096	216.0	217.0	1.0	3	18	6	45	<1	5	920
VA08097	217.0	218.0	1.0	3	6	5	45	<1	<5	1000
VA08098	218.0	219.0	1.0	3	7	5	45	<1	6	1100
VA08099	219.0	220.0	1.0	3	16	6	40	<1	5	1200
VA08100	220.0	221.0	1.0	3	10	6	45	<1	6	1100
VA08101	221.0	222.0	1.0	3	18	6	42	<1	14	1000
VA08102	222.0	223.0	1.0	3	7	5	34	<1	8	1100
VA08103	223.0	224.0	1.0	3	6	5	38	<1	<5	1100
VA08104	224.0	225.0	1.0	3	17	8	230	<1	12	750
VA02856	225.0	233.5	8.5	n/a	<10	n/a	<10	n/a	n/a	1150
VA08105	225.0	226.0	1.0	3	8	5	36	<1	7	1000
VA08106	226.0	227.0	1.0	3	9	6	45	<1	8	1000
VA08107	227.0	228.0	1.0	3	10	6	36	<1	7	950
VA08108	228.0	229.0	1.0	3	15	7	42	<1	<5	1200
VA08109	229.0	230.0	1.0	3	8	<5	28	<1	<5	1200
VA08110	230.0	231.0	1.0	3	8	5	27	<1	12	1100
VA08111	231.0	232.0	1.0	3	9	<5	32	<1	<5	1100
VA08112	232.0	233.5	1.5	3	8	5	30	<1	<5	1100

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-60

From (m)	To (m)	DESCRIPTION
166.0	166.2	Dark green, carbonatized mafic tuff or dyke at 20-25 degrees to core axis.
167.2	888.8	Light green, 4.0 cm wide chlorite-sericite band at 25-35 degrees to core axis.
187.0	187.1	Dark grey argillaceous sediments at 30 degrees to core axis.
204.3	204.6	Altered, carbonatized tuffaceous sediments at 60 degrees to core axis.
211.7	212.0	Barren quartz vein at 90 degrees to core axis.
224.1	224.6	Bleached quartz-carbonate flooded zone with 5 % pyrite.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02407	27.60	28.00	62.80	13.50	5.68	2.00	0.79	2.18	4.51	0.37	0.14	0.20	7.77	99.94	1350.	39.	6.
VA02408	38.90	39.30	69.40	15.50	2.48	1.58	1.41	1.36	3.78	0.44	0.14	0.11	3.77	99.97	1050.	43.	4.
VA02409	46.10	46.50	70.30	13.60	3.82	1.36	1.03	2.71	2.80	0.28	0.07	0.09	4.39	100.45	833.	46.	5.
VA02410	54.60	55.00	71.00	14.00	2.78	1.69	0.54	2.50	2.93	0.28	0.07	0.06	3.93	99.78	1220.	56.	3.
VA02411	65.20	65.50	70.50	15.50	1.92	1.64	0.88	1.84	3.65	0.42	0.14	0.11	3.47	100.07	1180.	55.	3.
VA02412	87.30	87.60	66.70	13.90	3.88	1.85	0.48	2.27	2.80	0.23	0.07	0.14	5.00	97.32	7430.	49.	4.
VA02413	96.00	96.30	72.50	13.20	2.89	1.55	0.32	2.09	2.97	0.26	0.07	0.14	4.16	100.15	1430.	53.	3.
VA02414	106.00	107.00	78.10	14.60	0.30	0.10	0.68	2.65	1.12	0.18	0.04	<0.01	2.47	100.25	1400.	74.	1.
VA02415	122.00	122.70	75.80	13.70	1.31	0.77	0.28	2.79	2.02	0.23	0.06	0.05	2.70	99.71	1340.	69.	2.
VA02416	134.30	134.60	78.00	11.50	1.26	0.80	0.14	2.70	1.67	0.17	0.04	0.06	2.70	99.04	2110.	71.	1.
VA02417	147.60	147.80	76.30	11.40	1.05	0.54	0.24	2.63	2.97	0.21	0.06	0.04	2.85	98.29	1180.	71.	1.
VA02418	162.00	162.40	71.00	13.60	2.78	1.62	0.47	2.33	2.60	0.26	0.07	0.10	4.08	98.91	1530.	55.	3.
VA02419	178.30	178.60	71.60	13.10	2.86	1.64	0.25	2.67	2.18	0.24	0.06	0.11	4.54	99.25	1130.	58.	3.
VA02420	198.50	198.90	74.50	12.20	1.67	1.08	0.19	2.76	2.80	0.23	0.06	0.10	3.08	98.67	1340.	67.	2.
VA02421	219.10	219.50	70.40	13.70	3.45	1.76	0.27	2.71	2.25	0.25	0.06	0.10	5.23	100.18	1120.	55.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02847	23.00	41.40	67.50	15.30	3.79	1.30	1.49	1.84	3.79	0.42			4.70	100.13	1740.	37.	5.
VA02848	42.40	59.20	71.20	14.80	2.13	1.31	0.93	2.62	2.88	0.30			3.47	99.64	1200.	56.	3.
VA02849	59.20	78.20	69.80	15.10	2.53	1.69	1.08	1.58	3.67	0.42			3.85	99.72	1310.	48.	4.
VA02850	78.20	93.90	63.60	14.90	4.41	2.19	0.58	2.17	3.91	0.36			5.54	97.66	3590.	47.	5.
VA02851	93.90	123.00	73.50	14.70	1.30	0.71	0.41	2.82	2.45	0.26			3.00	99.15	1610.	67.	2.
VA02852	123.00	153.00	74.80	13.70	1.60	0.98	0.22	2.81	2.70	0.27			3.08	100.16	1690.	68.	2.
VA02853	153.00	183.00	70.40	13.30	3.37	1.62	0.35	2.57	2.59	0.25			4.31	98.76	1320.	53.	4.
VA02854	183.00	195.30	69.40	14.20	3.25	2.02	0.25	2.51	3.01	0.29			5.00	99.93	1030.	56.	4.
VA02855	195.30	225.00	70.90	13.80	2.71	1.47	0.26	2.71	2.44	0.25			4.08	98.62	1270.	58.	3.
VA02856	225.00	233.50	74.90	13.10	1.85	0.87	0.18	2.85	1.92	0.23			3.23	99.13	1150.	65.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03958	35.00	36.00	1300.0	6.0	90.0	<0.5	<5.0	5.0	6.0	8.0	<5.0	<1.0	3.0	1050.0	6.	1.	2.
VA03959	36.00	36.50	1400.0	39.0	470.0	1.0	38.0	10.0	9.0	50.0	14.0	2.0	5.0	760.0	8.	2.	3.
VA03960	36.50	37.50	1100.0	19.0	370.0	<0.5	8.0	3.0	7.0	28.0	7.0	2.0	4.0	500.0	5.	1.	2.
VA03961	37.50	38.50	1100.0	7.0	72.0	<0.5	<5.0	5.0	6.0	<5.0	7.0	<1.0	3.0	910.0	9.	2.	2.
VA03962	38.50	39.50	1100.0	6.0	64.0	<0.5	<5.0	4.0	5.0	6.0	<5.0	<1.0	3.0	530.0	9.	2.	2.
VA03963	39.50	40.50	1200.0	4.0	55.0	<0.5	<5.0	4.0	7.0	5.0	<5.0	<1.0	4.0	630.0	7.	2.	2.
VA03964	40.50	41.40	1200.0	14.0	50.0	<0.5	<5.0	3.0	7.0	5.0	<5.0	<1.0	4.0	450.0	22.	1.	2.
VA03965	50.00	51.00	1000.0	21.0	48.0	<0.5	<5.0	9.0	10.0	7.0	<5.0	<1.0	4.0	570.0	30.	2.	2.
VA03966	51.00	52.00	750.0	30.0	58.0	<0.5	<5.0	13.0	68.0	<5.0	<5.0	<1.0	4.0	750.0	34.	2.	2.
VA03967	56.00	57.00	1300.0	22.0	95.0	<0.5	<5.0	12.0	27.0	11.0	<5.0	<1.0	4.0	500.0	19.	1.	2.
VA03968	57.00	58.00	1300.0	26.0	380.0	<0.5	14.0	18.0	19.0	16.0	13.0	4.0	4.0	90.0	6.	5.	2.
VA03969	58.00	59.20	790.0	37.0	90.0	<0.5	5.0	18.0	80.0	8.0	7.0	<1.0	4.0	1100.0	29.	1.	3.
VA03970	59.20	60.00	1400.0	8.0	45.0	<0.5	<5.0	7.0	14.0	5.0	<5.0	<1.0	4.0	210.0	15.	2.	2.
VA03971	60.00	61.00	1300.0	8.0	70.0	<0.5	7.0	7.0	14.0	5.0	<5.0	<1.0	5.0	295.0	10.	2.	2.
VA03972	61.00	62.00	1500.0	12.0	120.0	<0.5	7.0	5.0	12.0	5.0	<5.0	<1.0	3.0	310.0	9.	2.	2.
VA03973	62.00	63.00	1500.0	43.0	124.0	<0.5	11.0	3.0	6.0	5.0	8.0	<1.0	2.0	500.0	26.	2.	2.
VA03974	63.00	64.00	1200.0	44.0	300.0	0.5	16.0	5.0	6.0	6.0	8.0	2.0	3.0	920.0	13.	2.	2.
VA03975	64.00	65.00	1100.0	21.0	100.0	<0.5	9.0	5.0	6.0	9.0	10.0	<1.0	3.0	660.0	17.	2.	2.
VA03976	65.00	66.00	1100.0	9.0	80.0	<0.5	<5.0	4.0	5.0	7.0	5.0	<1.0	3.0	575.0	10.	2.	2.
VA03977	66.00	67.00	920.0	6.0	44.0	<0.5	<5.0	8.0	5.0	5.0	7.0	<1.0	3.0	580.0	12.	2.	2.
VA03978	67.00	68.00	1100.0	4.0	52.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	3.0	550.0	7.	2.	2.
VA03979	68.00	69.00	1200.0	6.0	50.0	<0.5	<5.0	5.0	6.0	6.0	11.0	<1.0	4.0	1000.0	11.	2.	2.
VA03980	69.00	70.00	1200.0	5.0	65.0	<0.5	<5.0	5.0	5.0	5.0	6.0	<1.0	3.0	550.0	7.	2.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA03981	84.90	85.90	1800.0	102.0	75.0	<0.5	14.0	12.0	16.0	9.0	18.0	<1.0	3.0	900.0	58.	4.	2.
VA03982	85.90	86.90	1700.0	60.0	56.0	<0.5	7.0	9.0	17.0	8.0	15.0	<1.0	4.0	1500.0	52.	4.	3.
VA03983	86.90	88.00	6500.0	5.0	25.0	<0.5	<5.0	3.0	7.0	5.0	6.0	2.0	5.0	1000.0	17.	4.	2.
VA03984	88.00	88.50	5800.0	5.0	22.0	<0.5	<5.0	2.0	6.0	7.0	<5.0	<1.0	3.0	900.0	19.	2.	2.
VA03985	88.50	89.50	4200.0	20.0	40.0	<0.5	7.0	9.0	19.0	7.0	18.0	<1.0	3.0	1000.0	33.	2.	2.
VA03986	89.50	90.50	4200.0	4.0	28.0	<0.5	<5.0	4.0	5.0	6.0	<5.0	<1.0	2.0	680.0	13.	2.	2.
VA03987	90.50	91.50	3500.0	4.0	29.0	<0.5	<5.0	2.0	4.0	<5.0	<5.0	<1.0	2.0	520.0	12.	2.	1.
VA03988	91.50	92.60	3300.0	5.0	34.0	<0.5	12.0	2.0	5.0	7.0	12.0	<1.0	3.0	700.0	13.	2.	2.
VA03989	92.60	93.90	1800.0	70.0	84.0	<0.5	24.0	9.0	21.0	15.0	38.0	<1.0	4.0	1800.0	45.	2.	3.
VA03990	93.90	94.90	1300.0	8.0	44.0	<0.5	6.0	3.0	5.0	9.0	15.0	<1.0	2.0	1000.0	15.	2.	1.
VA03991	108.70	109.70	2000.0	6.0	72.0	<0.5	<5.0	5.0	38.0	<5.0	<5.0	<1.0	3.0	570.0	8.	1.	2.
VA03992	109.70	111.00	1300.0	6.0	26.0	<0.5	<5.0	<1.0	4.0	<5.0	6.0	<1.0	3.0	50.0	19.	2.	1.
VA03993	111.00	112.00	1100.0	9.0	42.0	<0.5	<5.0	2.0	24.0	5.0	5.0	<1.0	3.0	265.0	18.	2.	1.
VA03994	112.00	113.00	1200.0	16.0	70.0	<0.5	<5.0	5.0	35.0	<5.0	8.0	<1.0	4.0	580.0	19.	2.	2.
VA03995	113.00	114.00	1400.0	7.0	36.0	<0.5	5.0	5.0	7.0	<5.0	<5.0	<1.0	3.0	400.0	16.	2.	2.
VA03996	114.00	115.00	1300.0	12.0	53.0	<0.5	<5.0	3.0	7.0	<5.0	12.0	<1.0	3.0	550.0	18.	2.	1.
VA03997	115.00	116.00	1200.0	14.0	30.0	<0.5	<5.0	3.0	6.0	<5.0	<5.0	<1.0	3.0	480.0	32.	2.	1.
VA03998	116.00	117.00	1500.0	25.0	71.0	<0.5	14.0	6.0	7.0	<5.0	<5.0	<1.0	3.0	450.0	26.	2.	2.
VA03999	117.00	119.20	1500.0	7.0	13.0	<0.5	9.0	<1.0	5.0	<5.0	<5.0	<1.0	4.0	170.0	35.	2.	1.
VA04000	119.20	120.00	900.0	7.0	16.0	<0.5	<5.0	3.0	6.0	<5.0	<5.0	<1.0	3.0	390.0	30.	2.	1.
VA08001	120.00	121.00	1300.0	6.0	24.0	<0.5	<5.0	1.0	4.0	<5.0	<5.0	<1.0	5.0	155.0	20.	2.	1.
VA08002	121.00	122.00	1400.0	4.0	12.0	<0.5	<5.0	2.0	4.0	<5.0	<5.0	<1.0	3.0	50.0	25.	2.	1.
VA08003	122.00	123.00	1200.0	3.0	25.0	<0.5	<5.0	1.0	4.0	<5.0	<5.0	<1.0	5.0	350.0	11.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08004	123.00	124.00	1200.0	2.0	32.0	<0.5	<5.0	2.0	4.0	<5.0	<5.0	<1.0	3.0	510.0	6.	2.	1.
VA08005	124.00	125.00	1300.0	6.0	33.0	<0.5	6.0	4.0	6.0	5.0	<5.0	<1.0	4.0	620.0	15.	2.	2.
VA08006	125.00	126.20	1200.0	3.0	34.0	<0.5	<5.0	3.0	4.0	<5.0	<5.0	<1.0	2.0	410.0	8.	2.	1.
VA08007	126.20	127.00	1300.0	4.0	27.0	<0.5	<5.0	3.0	5.0	<5.0	<5.0	<1.0	4.0	100.0	13.	2.	1.
VA08008	127.00	128.00	1600.0	6.0	32.0	<0.5	<5.0	2.0	5.0	<5.0	<5.0	<1.0	6.0	180.0	16.	2.	2.
VA08009	128.00	129.00	1500.0	5.0	42.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	4.0	780.0	11.	2.	1.
VA08010	129.00	130.00	1700.0	4.0	36.0	<0.5	<5.0	4.0	4.0	<5.0	<5.0	<1.0	3.0	465.0	10.	2.	1.
VA08011	130.00	131.00	1600.0	5.0	20.0	<0.5	13.0	2.0	4.0	<5.0	<5.0	<1.0	5.0	55.0	20.	2.	1.
VA08012	131.00	132.00	1600.0	15.0	20.0	<0.5	12.0	4.0	4.0	<5.0	8.0	<1.0	4.0	70.0	43.	2.	2.
VA08013	132.00	133.00	1800.0	16.0	17.0	0.5	11.0	5.0	4.0	<5.0	14.0	<1.0	6.0	30.0	48.	4.	2.
VA08014	133.00	134.00	1600.0	260.0	36.0	<0.5	18.0	3.0	5.0	<5.0	14.0	<1.0	5.0	270.0	88.	3.	2.
VA08015	134.00	135.00	1800.0	9.0	24.0	<0.5	25.0	4.0	5.0	<5.0	<5.0	<1.0	5.0	200.0	27.	5.	2.
VA08016	135.00	136.00	2100.0	10.0	17.0	0.8	37.0	6.0	6.0	<5.0	5.0	<1.0	6.0	125.0	37.	5.	2.
VA08017	136.00	137.00	2300.0	30.0	33.0	<0.5	15.0	11.0	7.0	<5.0	11.0	<1.0	5.0	275.0	48.	3.	2.
VA08018	137.00	138.00	1900.0	19.0	10.0	<0.5	10.0	4.0	4.0	<5.0	<5.0	<1.0	2.0	40.0	66.	3.	1.
VA08019	138.00	139.00	1500.0	14.0	46.0	<0.5	10.0	5.0	7.0	<5.0	7.0	<1.0	5.0	540.0	23.	3.	2.
VA08020	139.00	140.00	1400.0	12.0	25.0	<0.5	<5.0	3.0	5.0	<5.0	8.0	<1.0	4.0	500.0	32.	3.	1.
VA08021	140.00	141.00	1300.0	15.0	34.0	<0.5	<5.0	2.0	6.0	<5.0	<5.0	<1.0	4.0	530.0	31.	3.	1.
VA08022	141.00	142.00	1300.0	8.0	44.0	<0.5	<5.0	2.0	6.0	<5.0	<5.0	<1.0	3.0	650.0	15.	3.	1.
VA08023	142.00	144.00	1300.0	8.0	40.0	<0.5	<5.0	3.0	6.0	<5.0	<5.0	<1.0	5.0	530.0	17.	3.	1.
VA08024	144.00	145.00	1300.0	11.0	35.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	3.0	440.0	24.	3.	1.
VA08025	145.00	146.00	1100.0	9.0	16.0	<0.5	44.0	2.0	7.0	<5.0	8.0	<1.0	5.0	250.0	36.	4.	2.
VA08026	146.00	147.00	950.0	12.0	20.0	0.7	144.0	3.0	5.0	<5.0	12.0	<1.0	3.0	150.0	38.	4.	2.

Hole No. CH88-60

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08027	147.00	148.00	860.0	15.0	64.0	0.6	78.0	5.0	11.0	<5.0	9.0	<1.0	4.0	270.0	19.	4.	2.
VA08028	148.00	149.00	1000.0	21.0	220.0	<0.5	30.0	9.0	23.0	5.0	8.0	<1.0	4.0	430.0	9.	4.	2.
VA08029	149.00	150.00	1100.0	14.0	108.0	0.5	41.0	7.0	13.0	5.0	18.0	<1.0	6.0	250.0	11.	4.	2.
VA08030	150.00	151.00	940.0	10.0	194.0	<0.5	23.0	7.0	18.0	<5.0	15.0	<1.0	3.0	440.0	5.	4.	2.
VA08031	151.00	152.00	1300.0	10.0	43.0	<0.5	24.0	5.0	14.0	<5.0	11.0	<1.0	5.0	255.0	19.	2.	1.
VA08032	152.00	153.00	1100.0	24.0	200.0	<0.5	15.0	14.0	24.0	6.0	8.0	<1.0	5.0	520.0	11.	2.	2.
VA08033	153.00	154.00	1300.0	8.0	34.0	<0.5	7.0	2.0	6.0	<5.0	<5.0	<1.0	4.0	560.0	19.	2.	1.
VA08034	154.00	155.00	1300.0	7.0	30.0	<0.5	<5.0	2.0	5.0	<5.0	15.0	<1.0	4.0	450.0	19.	2.	1.
VA08035	155.00	156.00	1200.0	13.0	33.0	<0.5	5.0	3.0	6.0	<5.0	15.0	<1.0	5.0	570.0	28.	2.	1.
VA08036	156.00	157.00	1400.0	60.0	37.0	<0.5	<5.0	2.0	5.0	6.0	13.0	<1.0	3.0	550.0	62.	2.	1.
VA08037	157.00	158.00	1500.0	9.0	30.0	<0.5	16.0	3.0	6.0	<5.0	5.0	<1.0	7.0	600.0	23.	2.	2.
VA08038	158.00	159.00	1600.0	7.0	50.0	<0.5	19.0	7.0	7.0	5.0	7.0	<1.0	8.0	400.0	12.	2.	2.
VA08039	159.00	160.00	1600.0	6.0	39.0	<0.5	<5.0	4.0	8.0	<5.0	5.0	<1.0	5.0	500.0	13.	2.	1.
VA08040	160.00	161.00	1500.0	14.0	45.0	<0.5	8.0	5.0	9.0	<5.0	7.0	<1.0	5.0	930.0	24.	2.	2.
VA08041	161.00	162.00	1400.0	7.0	32.0	<0.5	<5.0	4.0	6.0	<5.0	<5.0	<1.0	4.0	560.0	18.	2.	1.
VA08042	162.00	163.00	1500.0	12.0	32.0	<0.5	<5.0	5.0	5.0	<5.0	5.0	<1.0	5.0	360.0	27.	2.	1.
VA08043	163.00	164.00	1300.0	10.0	34.0	<0.5	<5.0	4.0	6.0	5.0	5.0	<1.0	5.0	550.0	23.	2.	1.
VA08044	164.00	165.00	1500.0	42.0	50.0	<0.5	5.0	6.0	7.0	5.0	16.0	<1.0	8.0	750.0	46.	2.	2.
VA08045	165.00	166.00	1200.0	10.0	30.0	<0.5	9.0	4.0	6.0	5.0	10.0	<1.0	4.0	600.0	25.	2.	1.
VA08046	166.00	167.00	1200.0	26.0	95.0	<0.5	7.0	10.0	11.0	<5.0	<5.0	<1.0	5.0	590.0	21.	2.	2.
VA08047	167.00	168.00	1300.0	18.0	50.0	<0.5	13.0	7.0	12.0	<5.0	9.0	<1.0	2.0	870.0	26.	3.	1.
VA08048	168.00	169.00	1300.0	13.0	20.0	<0.5	7.0	3.0	6.0	<5.0	<5.0	<1.0	5.0	560.0	39.	3.	1.
VA08049	169.00	170.00	1200.0	12.0	25.0	<0.5	23.0	4.0	6.0	<5.0	6.0	<1.0	8.0	680.0	32.	3.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08050	170.00	171.00	1300.0	16.0	42.0	<0.5	15.0	3.0	5.0	<5.0	17.0	<1.0	8.0	590.0	28.	3.	2.
VA08051	171.00	172.00	1300.0	19.0	1200.0	<0.5	6.0	2.0	5.0	<5.0	6.0	11.0	4.0	720.0	2.	3.	1.
VA08052	172.00	173.00	1300.0	30.0	54.0	<0.5	6.0	3.0	5.0	6.0	<5.0	<1.0	5.0	650.0	36.	3.	1.
VA08053	173.00	174.00	1100.0	10.0	40.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	3.0	420.0	20.	2.	1.
VA08054	174.00	175.00	1000.0	7.0	48.0	<0.5	<5.0	4.0	6.0	<5.0	<5.0	<1.0	5.0	460.0	13.	2.	1.
VA08055	175.00	176.00	970.0	4.0	60.0	<0.5	<5.0	2.0	5.0	<5.0	<5.0	<1.0	4.0	600.0	6.	2.	1.
VA08056	176.00	177.00	1000.0	15.0	45.0	<0.5	<5.0	4.0	6.0	5.0	<5.0	<1.0	5.0	600.0	25.	2.	1.
VA08057	177.00	178.00	1200.0	10.0	39.0	<0.5	<5.0	2.0	4.0	<5.0	6.0	<1.0	4.0	480.0	20.	2.	1.
VA08058	178.00	179.00	1100.0	12.0	36.0	<0.5	<5.0	4.0	4.0	<5.0	7.0	<1.0	3.0	480.0	25.	2.	1.
VA08059	179.00	180.00	1000.0	10.0	35.0	<0.5	<5.0	4.0	7.0	<5.0	<5.0	<1.0	3.0	480.0	22.	2.	1.
VA08060	180.00	181.00	1100.0	10.0	46.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	5.0	620.0	18.	2.	1.
VA08061	181.00	182.00	1000.0	12.0	140.0	<0.5	11.0	7.0	62.0	<5.0	11.0	<1.0	5.0	730.0	8.	2.	2.
VA08062	182.00	183.00	1200.0	16.0	50.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	4.0	560.0	24.	2.	1.
VA08063	183.00	184.00	1200.0	10.0	34.0	<0.5	10.0	6.0	5.0	<5.0	<5.0	<1.0	4.0	470.0	23.	2.	1.
VA08064	184.00	185.00	1200.0	10.0	46.0	<0.5	7.0	6.0	9.0	<5.0	5.0	<1.0	5.0	480.0	18.	2.	1.
VA08065	185.00	186.00	1200.0	380.0	90.0	0.6	29.0	10.0	10.0	<5.0	36.0	<1.0	7.0	680.0	81.	2.	2.
VA08066	186.00	187.00	1000.0	14.0	124.0	<0.5	8.0	12.0	9.0	<5.0	<5.0	<1.0	4.0	870.0	10.	2.	2.
VA08067	187.00	188.00	1100.0	40.0	70.0	<0.5	15.0	13.0	9.0	5.0	9.0	<1.0	10.0	600.0	36.	2.	2.
VA08068	188.00	189.00	1100.0	7.0	39.0	<0.5	<5.0	5.0	4.0	<5.0	5.0	<1.0	4.0	500.0	15.	2.	1.
VA08069	189.00	190.00	1000.0	8.0	44.0	<0.5	<5.0	5.0	5.0	<5.0	<5.0	<1.0	3.0	510.0	15.	2.	1.
VA08070	190.00	191.00	970.0	5.0	59.0	<0.5	<5.0	7.0	5.0	<5.0	10.0	<1.0	7.0	410.0	8.	2.	1.
VA08071	191.00	192.00	970.0	6.0	70.0	<0.5	<5.0	6.0	5.0	<5.0	34.0	<1.0	4.0	420.0	8.	2.	1.
VA08072	192.00	193.00	870.0	8.0	110.0	<0.5	<5.0	5.0	6.0	<5.0	<5.0	<1.0	5.0	430.0	7.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08073	193.00	194.00	1000.0	5.0	75.0	<0.5	<5.0	5.0	5.0	6.0	<5.0	<1.0	5.0	410.0	6.	2.	1.
VA08074	194.00	195.30	930.0	17.0	170.0	<0.5	<5.0	7.0	11.0	5.0	<5.0	<1.0	6.0	350.0	9.	2.	2.
VA08075	195.30	196.30	1100.0	68.0	1750.0	<0.5	51.0	3.0	5.0	5.0	36.0	19.0	6.0	240.0	4.	5.	2.
VA08076	196.30	197.90	1400.0	8.0	95.0	<0.5	15.0	3.0	5.0	<5.0	7.0	<1.0	4.0	30.0	8.	5.	2.
VA08078	197.40	197.90	1200.0	260.0	20400.0	1.3	103.0	4.0	5.0	6.0	120.0	186.0	8.0	100.0	1.	13.	3.
VA08077	197.90	199.00	1400.0	7.0	84.0	<0.5	23.0	5.0	5.0	<5.0	<5.0	<1.0	6.0	650.0	8.	4.	2.
VA08079	199.00	200.00	1300.0	14.0	210.0	<0.5	30.0	4.0	4.0	6.0	6.0	1.0	5.0	620.0	6.	4.	1.
VA08080	200.00	201.00	1100.0	14.0	164.0	0.5	49.0	4.0	5.0	5.0	7.0	<1.0	6.0	620.0	8.	4.	2.
VA08081	201.00	202.00	1300.0	18.0	64.0	<0.5	28.0	5.0	4.0	<5.0	8.0	<1.0	5.0	440.0	22.	4.	1.
VA08082	202.00	203.00	1300.0	11.0	38.0	<0.5	79.0	4.0	4.0	<5.0	7.0	<1.0	5.0	370.0	22.	4.	2.
VA08083	203.00	204.00	1400.0	26.0	40.0	<0.5	8.0	3.0	6.0	6.0	21.0	<1.0	7.0	770.0	39.	4.	2.
VA08084	204.00	205.00	1500.0	46.0	38.0	<0.5	27.0	11.0	17.0	6.0	22.0	<1.0	4.0	970.0	55.	4.	3.
VA08085	205.00	206.00	1200.0	10.0	32.0	<0.5	24.0	4.0	5.0	5.0	6.0	<1.0	5.0	670.0	24.	4.	2.
VA08086	206.00	207.00	1400.0	16.0	95.0	<0.5	18.0	6.0	7.0	5.0	5.0	<1.0	4.0	700.0	14.	4.	2.
VA08087	207.00	208.00	1200.0	15.0	67.0	<0.5	7.0	5.0	6.0	5.0	<5.0	<1.0	7.0	530.0	18.	4.	1.
VA08088	208.00	209.00	1100.0	12.0	54.0	<0.5	8.0	5.0	6.0	6.0	<5.0	<1.0	3.0	720.0	18.	3.	1.
VA08089	209.00	210.00	1200.0	7.0	47.0	<0.5	7.0	5.0	5.0	<5.0	<5.0	<1.0	4.0	450.0	13.	3.	1.
VA08090	210.00	211.00	1100.0	10.0	48.0	<0.5	5.0	5.0	5.0	5.0	<5.0	<1.0	4.0	670.0	17.	3.	1.
VA08091	211.00	212.00	780.0	7.0	36.0	<0.5	5.0	5.0	6.0	6.0	<5.0	<1.0	7.0	900.0	16.	3.	1.
VA08092	212.00	213.00	970.0	7.0	36.0	<0.5	<5.0	5.0	5.0	5.0	15.0	<1.0	4.0	700.0	16.	3.	1.
VA08093	213.00	214.00	1200.0	5.0	32.0	<0.5	<5.0	5.0	5.0	<5.0	<5.0	<1.0	5.0	520.0	14.	3.	1.
VA08094	214.00	215.00	1000.0	7.0	32.0	<0.5	<5.0	4.0	4.0	5.0	74.0	<1.0	3.0	420.0	18.	3.	1.
VA08095	215.00	216.00	1800.0	7.0	52.0	<0.5	<5.0	3.0	5.0	6.0	<5.0	<1.0	4.0	530.0	12.	3.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08096	216.00	217.00	920.0	18.0	45.0	<0.5	5.0	3.0	6.0	6.0	11.0	<1.0	26.0	800.0	29.	3.	1.
VA08097	217.00	218.00	1000.0	6.0	45.0	<0.5	<5.0	2.0	5.0	5.0	<5.0	<1.0	5.0	600.0	12.	3.	1.
VA08098	218.00	219.00	1100.0	7.0	45.0	<0.5	6.0	3.0	5.0	5.0	12.0	<1.0	3.0	560.0	13.	3.	1.
VA08099	219.00	220.00	1200.0	16.0	40.0	<0.5	5.0	3.0	4.0	6.0	16.0	<1.0	3.0	500.0	29.	3.	1.
VA08100	220.00	221.00	1100.0	10.0	45.0	<0.5	6.0	4.0	5.0	6.0	5.0	<1.0	3.0	580.0	18.	3.	1.
VA08101	221.00	222.00	1000.0	18.0	42.0	<0.5	14.0	4.0	6.0	6.0	19.0	<1.0	3.0	740.0	30.	3.	2.
VA08102	222.00	223.00	1100.0	7.0	34.0	<0.5	8.0	3.0	5.0	5.0	8.0	<1.0	2.0	600.0	17.	3.	1.
VA08103	223.00	224.00	1100.0	6.0	38.0	<0.5	<5.0	4.0	5.0	5.0	<5.0	<1.0	3.0	520.0	14.	3.	1.
VA08104	224.00	225.00	750.0	17.0	230.0	<0.5	12.0	2.0	9.0	8.0	18.0	<1.0	46.0	1700.0	7.	3.	2.
VA08105	225.00	226.00	1000.0	8.0	36.0	<0.5	7.0	2.0	5.0	5.0	8.0	<1.0	4.0	560.0	18.	3.	1.
VA08106	226.00	227.00	1000.0	9.0	45.0	<0.5	8.0	3.0	5.0	6.0	8.0	<1.0	3.0	680.0	17.	3.	1.
VA08107	227.00	228.00	950.0	10.0	36.0	<0.5	7.0	3.0	5.0	6.0	14.0	<1.0	6.0	560.0	22.	3.	1.
VA08108	228.00	229.00	1200.0	15.0	42.0	<0.5	<5.0	5.0	5.0	7.0	6.0	<1.0	3.0	430.0	26.	3.	1.
VA08109	229.00	230.00	1200.0	8.0	28.0	<0.5	<5.0	2.0	4.0	<5.0	5.0	<1.0	4.0	370.0	22.	3.	1.
VA08110	230.00	231.00	1100.0	8.0	27.0	<0.5	12.0	3.0	6.0	5.0	9.0	<1.0	4.0	610.0	23.	3.	1.
VA08111	231.00	232.00	1100.0	9.0	32.0	<0.5	<5.0	2.0	5.0	<5.0	8.0	<1.0	4.0	480.0	22.	3.	1.
VA08112	232.00	233.50	1100.0	8.0	30.0	<0.5	<5.0	3.0	5.0	5.0	8.0	<1.0	3.0	520.0	21.	3.	1.

Summary Log: DDH CH88-61
Location: 50+00' W, 5+87 N; Holyoak 3 Claim
Azimuth: 210, Dip: -50
Hole Completed: June 1, 1988
Core Logged By: D.P. Money

0.0	6.4	Casing.
6.4	14.2	Felsic crystal tuff with 4 % disseminated pyrite and trace mariposite.
14.2	24.8	Mafic to andesitic crystal tuffs.
24.8	26.8	Felsic crystal tuff.
26.8	55.8	Mafic crystal lapilli tuff.
55.8	77.1	Chloritic felsic and interbedded intermediate crystal tuffs.
77.1	86.6	Chlorite schist.
86.6	95.7	Intermediate crystal tuff.
95.7	105.4	Chlorite schist.
105.4	123.3	Intercalated chloritic felsic and intermediate crystal tuffs.
123.3	132.1	Chlorite schist.
132.1	166.6	Intercalated chloritic felsic and andesitic to mafic crystal tuffs.
166.6	189.5	Chlorite schist.
189.5	195.2	Chlorite schist with argillic sections and argillite interbeds
195.2	213.9	Chloritic felsic crystal tuffs.
213.9	227.0	Mafic tuff.
227.0	228.8	Felsic crystal tuff.
228.8	237.5	Chlorite schist.
237.5	242.4	Intercalated chloritic felsic crystal tuffs and chlorite schists.
242.4	331.4	Weakly chloritic felsic crystal tuff to volcanic wacke with very minor mafic tuff beds or mafic sills.
331.4	335.5	Andesitic crystal tuff.
335.5	336.0	Black calcareous argillite.
336.0	363.0	Weakly chloritic felsic tuff to volcanic wacke.
363.0		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-61 | Page Number 1

Hole Location: 50+00' W 5+77 N

NTS: 092B/13W UTM: 5415536 N, 434672 E
Azimuth: 210 Elevation: 873 m
Dip: -50 Length: 363.0 m

Started: May 26, 1988
Completed: June 1, 1988

Claim No. Holyoak 3
Section No.: Section 50+00' West, Holyoak Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To develop a stratigraphic section

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
11.90	210.0	-50.0	276.50	212.0	-48.0
99.10		-48.0	361.80	210.0	-48.0
182.00	212.5	-48.5			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	6.4	OVERBURDEN Large gabbro boulder from 5.8 to 6.4 with no chit marking start of coring.											
6.4	14.2	WEAKLY CHLORITIC FELSIC TUFF White to light grey felsic tuff with 2 to 3 % wispy or fracture controlled chlorite. There are 15 to 20 %, up to 2 mm, feldspars and locally up to 5 %, < 1 mm, quartz eyes. There are < 1 % minor quartz and calcite veinlets parallel to foliation. There is weak local calcite spots. There is 3 to 5 % disseminated pyrite with numerous local mariposite specks and a mariposite stringer at 11.4. 6.4 14.2 WEAK SPOTTY CHLORITIZATION. Foliations :. 6.6 : 54 degrees to core axis. 12.8 : 60 degrees to core axis. Lost core :. 8.8 11.3 : 2.5 m, core barrel mislatched.	VA01157 VA02014 VA02015 VA02016 VA02017 VA02018	6.4 6.4 7.6 11.3 12.3 13.3	14.2 7.6 8.8 12.3 13.3 14.2	7.8 1.2 1.2 1.0 1.0 .9	n/a 4 4 4 4 4	106 151 240 93 120 34	n/a <5 <5 <5 <5 <5	<10 30 30 8 17 20	n/a <1 <1 <1 <1 <1	n/a 6 13 <5 <5 <5	1540 1400 1500 1500 1500 1300
14.2	16.0	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Medium green chloritic schist with approximately 20 %, 1 to 3 mm, feldspars and trace to 1 %, 2 mm, quartz eyes locally. There is weak to moderate fracture controlled carbonatization and trace associated disseminated, < 1 mm, pyrite cubes. Foliation is at 54 degrees to core axis.											
16.0	24.8	CHLORITE SCHIST Chlorite schist with 5 to 10 %, < 1 mm, feldspars and up	VA01158	16.0	24.0	8.0	n/a	174	n/a	84	n/a	n/a	514

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-61 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		to 3 % disseminated pyrite, averages 1 to 2 % pyrite. Is not magnetic. Alteration :. 16.0 24.8 STRONG FRACTURE CONTROLLED CARBONATIZATION. Foliations :. 16.2 : 51 degrees to core axis. 18.4 : 42 degrees to core axis. 24.1 : 48 degrees to core axis. Lost core :. 19.0 19.5 : 0.2 m. 21.0 22.0 : 0.3 m.	VA02019	18.0	19.5	1.5	3	80	6	112	<1	<5	540
24.8	26.8	WEAKLY CHLORITIC FELSIC TUFF Felsic tuff, white to light green with 3 to 10 % fracture controlled chlorite and approximately 7 to 10 %, 1 to 2 mm, feldspars. There is trace to 1 %, up to 1.5 mm, quartz eyes. There are minor fracture controlled quartz and calcite veinlets. 3 % disseminated pyrite occurs. Foliation is at 45 degrees to core axis. 24.8 26.8 WEAK PERVASIVE CHLORITIZATION.	VA01159	24.8	26.8	2.0	n/a	<10	n/a	44	n/a	n/a	948
			VA02020	24.8	25.8	1.0	3	34	37	53	<1	<5	1400
			VA02021	25.8	26.8	1.0	3	68	10	84	<1	<5	800
26.8	55.8	FELDSPAR PORPHYRITIC MAFIC LAPILLI TUFF Dominantly mafic tuff with very local felsic to andesitic zones. Is dark green with white calcite streaks, epidotized lapilli and quartz - yellow carbonate, calcite (?), - (chlorite) veinlets. 26.8 30.8 STRONG PERVASIVE CARBONATIZATION as white streaks in medium green chlorite with trace to 1 % disseminated fine-grained pyrite. 30.8 31.2 MODERATE PERVASIVE CARBONATIZATION in dark green chlorite. 31.2 31.6 Massive tuff with 30 cm quartz - sericite - epidote - chlorite vein. 31.6 40.5 STRONG PERVASIVE CARBONATIZATION as white streaks with 5 to 50 %, average 15 %, epidote as 2 mm to 15 cm clasts. From 35.8 to 38.1 there are large epidote lapilli with up to 20 % 5 mm hornblende crystals. There is minor fracture controlled pyrite associated with calcite splotchs. 35.8 38.1 MODERATE PERVASIVE EPIDOTIZATION. 40.5 43.3 Bleached mafic to felsic tuff with 50 to 60 % quartz - chlorite veins. 43.3 44.2 Blocky, highly fractured core. 44.2 46.5 Very chloritic felsic or andesitic tuff with local quartz eyes, up to 10 %, up to 1.5 mm. There is moderate calcite streaks. 46.5 48.5 Similiar to 44.2 to 46.5 with less quartz and darker green.	VA01160	26.8	55.8	29.0	n/a	89	n/a	52	n/a	n/a	447
			VA02022	26.8	28.0	1.2	2	106	15	186	<1	<5	460
			VA02023	28.0	30.0	2.0	1	68	7	62	<1	<5	480
			VA02024	54.3	55.8	1.5	2	71	5	76	<1	<5	870

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		48.5 49.0 Quartz - yellow carbonate - sericite vein. 49.0 51.2 Mafic tuff with minor felsic clasts and quartz - carbonate veinlets. 51.2 55.8 Monotonous medium green chlorite rich rock with MODERATE PERVASIVE CARBONATIZATION as white streaks with locally up to 10 % quartz eyes and on average 1 %. There is up to 1.5 % fracture controlled pyrite, averages < 1 %. Foliations :. 30.0 : 46 degrees to core axis. 32.4 : 41 degrees to core axis. 35.2 : 50 degrees to core axis. 39.3 : 46 degrees to core axis. 47.4 : 52 degrees to core axis. 52.8 : 60 degrees to core axis. 53.1 : 47 degrees to core axis. Lost core :. 44.2 45.7 : 0.2 m.											
55.8	58.5	CHLORITIC FELSIC QUARTZ EYE TUFF Grey to green tuff with on average 7 %, 1 to 2 mm, quartz eyes. Is locally siliceous or moderately silicified. There is 5 to 12 % disseminated pyrite, average 7 %. Local mariposite specks occur. There are minor quartz - chlorite veinlets. 55.8 58.5 WEAK PERVASIVE CHLORITIZATION. Foliations :. 55.9 : 53 degrees to core axis. 58.3 : 48 degrees to core axis.	VA01161	55.8	58.5	2.7	n/a	65	n/a	11	n/a	n/a	614
			VA02025	55.8	57.2	1.4	6	47	7	53	1	<5	720
			VA02026	57.2	58.5	1.3	8	56	7	45	<1	<5	480
58.5	59.0	FAULT ZONE Blocky, highly fractured core. Mafic tuff from 58.5 to 58.7 and felsic from 58.8 to 59. Fault gouge at approximately 90 degrees to core axis from 58.7 to 58.8.											
59.0	65.1	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Chloritic andesitic tuff with strong carbonatization and approximately 10 % feldspar grains, local siliceous spots and trace local quartz eyes. Dominantly is andesitic to mafic with 5 to 20 % white calcite parallel to foliation and fracture controlled. There are numerous minor carbonate - quartz veinlets. Trace to 0.5 % disseminated pyrite occurs, mainly associated with carbonatization. Alteration :. 59.0 64.0 STRONG FRACTURE CONTROLLED CARBONATIZATION. 64.0 65.1 Quartz - carbonate - chlorite veins with minor felsic and mafic tuffs. Foliations :.	VA01162	59.0	64.0	5.0	n/a	80	n/a	71	n/a	n/a	733

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		59.6 : 50 degrees to core axis. 60.4 : 48 degrees to core axis. 62.3 : 64 degrees to core axis.											
65.1	68.6	FELSIC QUARTZ EYE TUFF Light green to grey felsic tuff with 7 to 10 %, 1 mm, quartz eyes. Tuff is very sericitic. There is 2 % disseminated pyrite and 5 to 7 % very fine-grained pyrite in white calcite with galena (?). Alteration :. 67.1 68.6 STRONG FRACTURE CONTROLLED CARBONATIZATION , strong white calcite veins with 7 % sulphides, pyrite and (?) galena. Foliations :. 66.1 : 37 degrees to core axis. 67.2 : 39 degrees to core axis.	VA02027	65.1	66.1	1.0	2	50	5	172	<1	<5	1100
			VA01163	65.1	68.6	3.5	n/a	126	n/a	1740	n/a	n/a	940
			VA02028	66.1	67.1	1.0	2	55	<5	42	2	<5	1200
			VA02029	67.1	68.6	1.5	5	78	25	4000	1	77	1000
68.6	77.1	INTERMEDIATE QUARTZ EYE TUFF Medium green chloritic tuff with strong carbonatization and 3 to 5 %, 1 mm, quartz eyes. Tuff is 60 % chlorite, 30 % calcite, 4 % crystals, 3 % pyrite and 3 % quartz - calcite - chlorite veinlets. Is locally contorted. There is chalcopyrite in a calcite veinlet at 71.4. 68.6 77.1 STRONG FRACTURE CONTROLLED CARBONATIZATION. Foliations :. 74.2 : 37 degrees to core axis. 75.6 : 24 degrees to core axis. Lost core :. 72.2 74.1 : 0.2 m.	VA01164	68.6	77.1	8.5	n/a	87	n/a	79	n/a	n/a	150
			VA02030	68.6	70.0	1.4	3	22	9	144	<1	<5	130
			VA02031	70.0	71.5	1.5	3	90	6	94	<1	<5	<20
			VA02032	71.5	73.0	1.5	3	97	6	88	<1	<5	20
			VA02033	73.0	74.5	1.5	3	69	9	100	<1	<5	<20
			VA02034	74.5	76.0	1.5	3	74	20	170	1	<5	<20
			VA02035	76.0	77.1	1.1	3	62	16	180	<1	<5	340
77.1	86.6	CHLORITE SCHIST Dark to medium green chlorite schist with 20 to 25 % white quartz - yellow carbonate veins, up to 20 cm. Schist is strongly contorted with numerous kinks, folds and minor fault slips. There is 5 to 10 % white calcite streaks in the schist. There is local minor disseminated pyrite. A 1 to 2 mm chalcopyrite seam occurs at 84.1 on the margin of a calcite veinlet. Structure :. 78.3 : foliation at 70 degrees to core axis. 78.9 : strong kinking with axis at 46 degrees to core axis, kink is 25 degrees wide. 80.9 : foliation at 72 degrees to core axis. 81.0 : fault slip at 26 degrees to core axis. Alteration :. 77.1 86.6 STRONG FRACTURE CONTROLLED CARBONATIZATION. Lost core :. 81.7 84.4 : 0.4 m.	VA01165	77.1	86.6	9.5	n/a	17	n/a	62	n/a	n/a	867
			VA02036	83.5	84.5	1.0	1	600	20	90	1	<5	1000

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		84.4 85.4 : 0.2 m.											
86.6	95.7	INTERMEDIATE TUFF Silicified andesitic or green felsic tuff. Siliceous with strong chlorite and very weak local sericite. There are 3 to 7 %, 1 to 2 mm, quartz eyes. Is locally bleached or cherty, associated with quartz - calcite veins. There is weak to moderate local fracture controlled calcite and pyrite. Minor biotite occurs in veins. Foliations :. 86.9 : 53 degrees to core axis. 91.2 : 45 degrees to core axis. 93.6 : 62 degrees to core axis.	VA01166 VA02037	86.6 93.0	95.7 94.5	9.1 1.5	n/a 2	<10 30	n/a 8	34 52	n/a <1	n/a <5	895 1400
95.7	105.4	CHLORITE SCHIST Medium to dark green chlorite schist with very local minor chlorite - sericite schist zones. Crystal content varies locally with up to 3 %, 1 mm, quartz eyes and up to 7 %, 1 mm, feldspars. Is locally weakly contorted. There is trace to 0.5 % disseminated, < 1 mm, pyrite cubes locally. There are trace local quartz and calcite veinlets. Alteration :. 95.7 105.4 MODERATE FRACTURE CONTROLLED CARBONATIZATION , as white calcite streaks parallel to foliation. Foliations :. 96.8 : 61 degrees to core axis. 99.8 : 50 degrees to core axis. 105.1 : 71 degrees to core axis. Lost core :. 102.7 104.5 : 0.7 m. 104.5 106.1 : 0.4 m. Faults :. 104.0 Minor fault gouge. Blocky, highly fractured core :. 102.7 106.7 With lost core and very disky.	VA01167	95.7	105.4	9.7	n/a	26	n/a	96	n/a	n/a	961
105.4	109.3	FELSIC TUFF 105.4 106.7 Blocky, highly fractured core. Disky core. Sericitic tuff with foliation at approximately 90 degrees to core axis and minor quartz veins 106.7 109.3 STRONG FRACTURE CONTROLLED SERICITIZATION as yellow to white fracture filling to siliceous lapilli and quartz eyes. There are numerous quartz - calcite - chlorite veins. From 106.7 to 107.3 there is 2 % fine-grained banded pyrite parallel to foliation, 14 degrees to core axis, with (?) sphalerite.	VA01168 VA02038	105.4 106.7	109.3 107.3	3.9 .6	n/a 2	<10 12	n/a 5	<10 25	n/a <1	n/a <5	1350 1400

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
109.3	118.8	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Medium green andesitic to mafic tuff with minor local felsic tuff interbeds. Is moderately contorted. Crystals have locally been removed by strong shearing. Average crystal content is 2 to 3 %, 1 to 2 mm, quartz eyes and 5 %, 1 mm, feldspars. Foliation varies locally from 0 to 70 degrees to core axis. There is weak to strong fracture controlled carbonatization as white calcite streaks. Felsics occur from 110.5 to 111.1 and 118.3 to 118.4 and are sericitic, contorted and host large quartz eyes. There is trace to 2 %, average < 1 %, fine-grained fracture controlled pyrite. Lost core :. 115.0 116.0 : 0.1 m.	VA01169	110.0	117.0	7.0	n/a	16	n/a	69	n/a	n/a	1940
118.8	123.3	FELSIC FELDSPAR CRYSTAL LAPILLI TUFF Sericitic light grey to white felsic tuff with 10 to 20 %, 2 mm, feldspars and 15 %, up to 2 cm long and 4 mm wide grey siliceous lapilli. Locally quartz eye bearing. There are minor local mafic zones and quartz - chlorite veins. There is trace local disseminated pyrite. Foliations :. 119.0 : 60 degrees to core axis. 120.2 : 40 degrees to core axis. 121.6 : 62 degrees to core axis. 123.2 : 56 degrees to core axis.	VA01170 VA01171	119.0 123.2	123.2 132.1	4.2 8.9	n/a n/a	<10 <10	n/a n/a	<10 50	n/a n/a	n/a n/a	1960 824
123.3	132.1	CHLORITE SCHIST Medium green very contorted schist with strong fracture controlled carbonatization as 10 to 25 % white calcite parallel to foliation. There is trace pyrite associated with the carbonatization. There is fracture controlled hematite at 124.6. 123.3 132.1 STRONG FRACTURE CONTROLLED CARBONATIZATION.											
132.1	138.6	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Very weakly chloritic felsic tuff with local moderate chloritization. May be a volcanic wacke. Hosts 10 to 15 %, 2 to 3 mm, feldspars and up to 10 %, average 7 %, 1 to 2 mm, quartz eyes. There are minor local elongate, up to 2 cm, cherty felsic tuff fragments. There is trace pyrite and minor quartz veins. Alteration :. 134.5 136.1 MODERATE PERVASIVE CHLORITIZATION. 137.5 138.6 MODERATE SPOTTY CHLORITIZATION. Foliations :. 132.3 : 48 degrees to core axis.	VA01172	132.2	138.0	5.8	n/a	<10	n/a	12	n/a	n/a	1230

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		133.6 : 49 degrees to core axis. 137.4 : 50 degrees to core axis.											
138.6	140.0	CHLORITE SCHIST Medium to dark green chlorite schist with 5 to 10 % white calcite parallel to foliation. There is trace to nil fine-grained pyrite associated with calcite veinlets. Foliations :. 139.0 : 56 degrees to core axis. Alteration :. 138.6 140.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION. Lost core :. 138.7 140.5 : 0.4 m.											
140.0	143.1	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Very similiar to 132.1 to 138.6. Blocky, highly fractured core. Strong foliation and (?) bedding at 20 to 30 degrees to core axis. 140.0 143.1 MODERATE SPOTTY CHLORITIZATION. Lost core :. 142.2 143.1 : 0.2 m.											
143.1	144.3	CHLORITE SCHIST Dark green with 10 to 15 % calcite and local quartz eyes. Foliation at 40 degrees to core axis.											
144.3	155.6	WEAKLY CHLORITIC FELSIC TUFF Weakly to strongly chloritic and contorted felsic tuff. In more brecciated and carbonatized zones there is 20 to 40 % pyrite, these occur from 145.2 to 145.7, 151.2 to 151.6, and 152.0 to 152.1. There is 1 to 2 % fracture controlled pyrite elsewhere. There are numerous quartz - sericite - chlorite veins and veinlets. Alteration :. 144.3 155.6 MODERATE SPOTTY CHLORITIZATION. Foliations :. 145.1 : 47 degrees to core axis. 147.6 : 43 degrees to core axis. 155.1 : 64 degrees to core axis. Lost core :. 143.1 145.4 : 0.2 m. 152.4 153.0 : 0.3 m.	VA02039	144.3	145.2	.9	2	28	15	95	<1	<5	1200
			VA01173	145.0	155.0	10.0	n/a	<10	n/a	34	n/a	n/a	1850
			VA02040	145.2	145.7	.5	25	69	55	62	2	8	1300
			VA02041	145.7	147.0	1.3	2	17	12	58	<1	<5	1160
			VA02042	147.0	148.5	1.5	2	26	7	69	<1	<5	1140
			VA02043	148.5	150.0	1.5	2	20	15	156	<1	<5	2000
			VA02044	150.0	151.2	1.2	2	7	14	120	<1	<5	2400
			VA02045	151.2	152.1	.9	10	8	15	83	<1	<5	2600
			VA02046	152.1	153.6	1.5	2	5	6	100	<1	<5	2100
			VA02047	153.6	155.6	2.0	2	5	7	44	<1	<5	2200
155.6	161.2	INTERMEDIATE QUARTZ EYE TUFF Dark to light green chlorite schist with 3 to 5 %, < 1 mm, quartz eyes and variable weak to strong fracture	VA01174	155.6	161.2	5.6	n/a	<10	n/a	30	n/a	n/a	1350

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		controlled carbonatization. There is trace pyrite associated with the carbonatization. Is locally contorted. Is andesitic or mafic in composition. Alteration :. 155.6 161.2 MODERATE SPOTTY CARBONATIZATION. Foliations :. 156.0 : 56 degrees to core axis. 158.0 : 52 degrees to core axis. 162.0 : 63 degrees to core axis. Lost core :. At 159.4 : 0.2 m. Faults :. 157.0 157.2 : blocky, highly fractured core. 157.4 : 5 mm clay fault slip at 64 degrees to core axis.											
161.2	166.6	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variably chloritic, weakly to moderately chloritic, felsic tuff to volcanic wacke. Crystal content varies with on average 5 %, 1 to 2 mm, quartz eyes and 10 %, 1 to 3 mm, feldspars. There are minor quartz and calcite fracture controlled veinlets. There are minor local sericitic fragments, up to 1 cm and yellow. At 165.4 there is a 3 cm rounded chert clast. There is minor bedding or compositional banding or local selective alteration. Is strongly foliated and disky core. There is trace to 0.5 % disseminated pyrite from 162.0 to 163.4. 161.2 166.6 MODERATE SPOTTY CHLORITIZATION. Structure :. Foliations :. 162.5 : 53 degrees to core axis. 165.2 : 59 degrees to core axis. Bedding :. 163.7 : 54 degrees to core axis. 165.2 : 58 degrees to core axis.	VA01175	161.2	166.6	5.4	n/a	<10	n/a	33	n/a	n/a	1010
166.6	189.5	CHLORITE SCHIST Medium to dark green chlorite schist, moderate fracture controlled carbonatization, non-magnetic. 166.6 167.5 Variably mafic to very chloritic felsic with weak to moderate fracture controlled carbonatization. Strong foliation at 61 degrees to core axis and is locally strongly contorted. 167.5 168.2 Dark green chlorite with 50 % 1 to 8 cm white quartz - yellow calcite veins. 168.2 169.0 White quartz - dark green chlorite - yellow calcite - mustard sericite vein. 169.0 179.8 Dark green chlorite schist with numerous quartz - calcite veins, quartz is crystalline	VA01176 VA02048 VA01177	169.0 172.5 180.0	179.0 173.5 188.0	10.0 1.0 8.0	n/a 1 n/a	49 71 18	n/a 6 n/a	61 65 41	n/a <1 n/a	n/a <5 n/a	291 600 451

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		and the veins are < 1 cm up to approximately 10 cm. Is locally contorted with strong carbonate veining. There are 5 to 20 %, average 12 to 15 %, 1 to 4 mm, dark green elongated chloritic crystals or fiame (?).											
		173.0 Speck of chalcopyrite in calcite veinlet.											
		169.0 179.8 MODERATE FRACTURE CONTROLLED CARBONATIZATION as white calcite streaks parallel to foliation.											
		179.8 188.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION in medium green chloritic schist with trace to 2 %, 1 mm, quartz eyes and up to 5 %, 1 to 2 mm, epidote grains. Is finely mottled. Locally contorted.											
		188.0 189.5 Weakly to moderately argillaceous contorted chlorite schist with weak to moderate fracture controlled carbonatization.											
		Foliations :.											
		169.5 : 74 degrees to core axis.											
		175.5 : 60 degrees to core axis.											
		181.3 : 59 degrees to core axis.											
		188.4 : 60 degrees to core axis.											
189.5	189.7	FAULT ZONE Contorted fault gouge with argillite, chlorite schist and white calcite. Fault at approximately 80 degrees to core axis.											
189.7	191.4	BLACK ARGILLITE Intercalated black cherty argillite and dark to medium green chlorite schist. Approximately 60 % argillite, 35 % chlorite schist and 5 % fracture controlled white calcite. At 190.2 there is minor jasper in the argillite as a 1 to 2 mm bed. There are minor faults and kinks with bedding and foliation at approximately 75 degrees to core axis. No sulphides occur.	VA02049	189.7	191.4	1.7	0	4	5	120	1	<5	350
191.4	195.2	CHLORITE SCHIST Dark to medium green chlorite schist with approximately 20 % intercalated argillite beds. Is locally contorted with strong kink bands at 25 and 48 degrees to core axis. Most foliations and bedding trend at approximately 80 degrees to core axis. There is minor fault gouge from 193.2 to 194.5. Fracture controlled carbonatization is spot and varies from weak to moderate. Alteration :. 191.4 195.2 MODERATE SPOTTY CARBONATIZATION. Foliations :. 192.3 : 86 degrees to core axis.	VA01178	191.4	195.2	3.8	n/a	20	n/a	96	n/a	n/a	357

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		194.9 : 77 degrees to core axis.											
195.2	199.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Blocky, highly fractured core with minor fault gouge. Contorted medium to light green siliceous felsic tuff with trace to 10 %, < 1 to 2 mm, feldspars, in various stages of sausuritization and up to 5 % quartz eyes. From 195.5 to 196.0 there is chlorite schist with fracture controlled carbonatization. Fault gouge occurs from 196.3 to 197.2 locally and from 199.0 to 199.2. 195.2 199.2 MODERATE SPOTTY CHLORITIZATION. Lost core :. 196.0 197.2 : 0.3 m. 197.2 197.8 : 0.2 m. 197.8 198.4 : 0.1 m. 198.4 199.3 : 0.3 m.											
199.2	213.9	CHLORITIC FELSIC QUARTZ EYE TUFF Medium grey to green tuff, chloritic felsic to (?) intermediate tuff, locally changes. Hosts on average 10 %, < 1 mm, quartz eyes. There is weak to moderate fracture controlled carbonatization. 199.2 213.9 MODERATE SPOTTY CHLORITIZATION. 199.2 200.0 Medium green with 15 to 20 %, 1 mm, quartz eyes and 5 % to 15 % locally of hematite to jasper. 200.0 202.1 Similiar to 199.2 to 200.0 with minor hematite and weak local argillite. 202.1 204.5 Siliceous, weakly mottled felsic with chloritic matrix and very weak fracture controlled carbonatization. There are 1 to 2 %, < 1 mm, light brown to tan specks, not a carbonate, sericite (?). 204.5 204.6 Fault gouge, parallel to to foliation. 204.6 210.0 Intermediate (?) or very chloritic felsic medium green tuff with 10 %, < 1 to 1 mm, quartz eyes. There is approximately 5 % white calcite spots and streaks. 210.0 213.9 9 light green quartz - sericite - chlorite schist with 5 to 7 %, 1 to 3 mm, quartz eyes and local black chlorite wisps. From 212 to 213.9 there is minor zones of light brown mica, sericite or biotite (?). From 212.7 to 213.2 there are trace 2 to 5 mm pyrite cubes. At 213.5 there is 5 cm of grey - green chert beds at 68 degrees to core axis. Foliations :. 203.1 : 67 degrees to core axis. 205.8 : 68 degrees to core axis. 210.0 : 68 degrees to core axis.	VA02050	199.2	200.0	.8	0	3	<5	94	<1	<5	590
			VA01179	201.2	204.5	3.3	n/a	<10	n/a	58	n/a	n/a	689
			VA01180	204.6	210.0	5.4	n/a	66	n/a	34	n/a	n/a	534
			VA01181	210.0	213.9	3.9	n/a	15	n/a	43	n/a	n/a	449
			VA02051	213.0	213.9	.9	0	22	<5	60	<1	<5	500

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
213.9	220.7	MAFIC TUFF Chlorite schist to massive mafic tuff. Locally hosts cherty lapilli. There is chlorite and sericite alteration from 213.9 to 214.3 with 5 % fine-grained pyrite. There is 1 to 2 % fine-grained disseminated pyrite throughout. There are 5 to 10 % white calcite veins and veinlets. Is locally contorted. Alteration :. 213.9 220.7 STRONG SPOTTY CARBONATIZATION. Foliations :. 215.7 : 61 degrees to core axis. 217.1 : 74 degrees to core axis. 220.3 : 45 degrees to core axis.	VA02052	213.9	215.0	1.1	3	42	<5	92	<1	8	1100
			VA01182	214.0	220.0	6.0	n/a	61	n/a	47	n/a	n/a	504
			VA02053	215.0	217.0	2.0	2	33	5	75	<1	<5	810
			VA02054	217.0	219.0	2.0	2	49	6	87	<1	<5	830
			VA02055	219.0	220.7	1.7	2	70	<5	73	<1	<5	330
220.7	222.8	FAULT ZONE Very contorted chlorite - calcite schist with fault gouge at numerous orientations.	VA02056	220.7	221.7	1.0	0	78	6	89	<1	<5	650
222.8	226.9	CHLORITE SCHIST Dark green chlorite schist with minor felsic to cherty tuff beds from 224.4 to 225. Is locally weakly to strongly contorted with minor local fault slips. Alteration :. 222.8 226.9 MODERATE FRACTURE CONTROLLED CARBONATIZATION as white calcite streaks.	VA01183	222.8	226.9	4.1	n/a	115	n/a	81	n/a	n/a	341
226.9	227.0	FAULT ZONE Fault gouge at approximately 80 degrees to core axis.											
227.0	228.8	FELSIC QUARTZ EYE TUFF Contorted massive grey siliceous felsic with approximately 7 %, 4 mm, quartz eyes. There is chlorite schist with moderate carbonatization from 228.2 to 228.5. 227.0 228.8 MODERATE SPOTTY CARBONATIZATION.											
228.8	237.5	CHLORITE SCHIST Dark green non-magnetic chlorite schist with strong to very strong fracture controlled carbonatization. There is trace to nil fine-grained disseminated pyrite cubes. Locally there are (?) quartz eyes, << 1 mm, and up to 10 cm of up to 10 %, 1 mm epidote grains. Calcite averages 20 %, from 234.3 to 234.6 calcite exceeds 50 %. There are minor local kinks perpendicular to foliation and fault slips parallel to foliation.	VA01184	229.0	237.5	8.5	n/a	75	n/a	65	n/a	n/a	538

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Foliations :. 230.0 : 40 degrees to core axis. 232.8 : 55 degrees to core axis. 234.3 : 54 degrees to core axis. 237.2 : 58 degrees to core axis. Alteration :. 228.8 237.5 STRONG FRACTURE CONTROLLED CARBONATIZATION.											
237.5	237.9	FAULT ZONE Fault gouge with contorted sericite and rotated pieces of white quartz vein. Upper contact at approximately 73 degrees to core axis and lower contact at 61 degrees to core axis with very contorted sericitic tuff. There is 0.1 m of lost core.											
237.9	239.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Contorted weakly to moderately chloritic felsic tuff with 3 to 5 %, 1 to 2 mm, quartz eyes and approximately 7 %, 1 mm, feldspars. There are local lapilli, up to 10 %, siliceous grey with numerous fine-grained feldspars. There is 2 to 3 % brown mica, sericite or biotite (?). There is moderate local quartz - calcite veining with trace associated pyrite. There are minor grey chert or cherty tuff beds, foliation locally changes to parallel these competent < 1 cm beds which have mnr fractures perpendicular to bedding. There is gentle 'S' folding throughout. 237.9 239.3 MODERATE PERVASIVE CHLORITIZATION. Bedding :. 239.0 : 59 degrees to core axis. 239.1 : 57 degrees to core axis.											
239.3	240.1	CHLORITE SCHIST Weakly contorted chlorite schist with 15 % calcite and 3 % light brown mica. Foliation is trending at 45 degrees to core axis.											
240.1	241.2	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF Siliceous grey lapilli or beds alternating with chloritic layers. Contorted with 5 % quartz - calcite veins parallel to foliation. There are numerous minor << 1 mm tension gashes filled with calcite. There are trace local pyrite bands. 240.1 241.2 MODERATE SPOTTY CHLORITIZATION.											
241.2	241.5	CHLORITE SCHIST											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Chlorite schist with strong to moderate fracture controlled carbonatization. Locally contorted. Foliation trend at 50 degrees to core axis.											
241.5	241.9	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Very similiar to 237.9 to 239.3.											
241.9	242.4	CHLORITE SCHIST As from 241.2 to 241.5.											
242.4	273.0	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Very weakly to moderately chloritic felsic tuff with up to 20 %, average 7 %, 1 to 3 mm, quartz eyes and 10 to 15 %, average 1 mm, feldspars, locally epidotized. 242.4 273.0 MODERATE SPOTTY CHLORITIZATION. 242.4 243.6 Medium green with 10 % feldspars and 12 % quartz eyes, all 1 mm. 243.6 247.5 Weakly banded sericitic to light green with 15 to 20 %, 1 mm, quartz eyes and local feldspars. There are minor fracture controlled calcite veinlets. 247.5 247.6 Quartz - chlorite vein. 247.6 250.8 Weakly banded with yellow sericitic beds and locally up to 10 cm of up to 3 % greater than 3 mm quartz eyes. There are approximately 12 % feldspars. 250.8 259.0 Finely bedded with 5 %, up to 5 cm epidote rich beds. More siliceous beds alternate with chloritic and sericitic more schistose beds or layers. Crystal content varies locally from 5 to 15 % quartz and 3 to 20 % feldspar. 259.0 268.2 Moderately to weakly chloritic tuff with 5 to 20 cm beds of sericitic tuff. 268.2 271.7 Dominately sericitic tuff with weak to moderate fracture controlled carbonatization and 3 to 5 %, 3 mm, quartz eyes. There is trace disseminated pyrite. 271.7 273.0 Weakly argillic and more chloritic tuff with 20 to 25 % quartz and feldspar crystals. Is moderately contorted. Structure :. Bedding :. 254.4 : 66 degrees to core axis. 256.8 : 55 degrees to core axis. Foliations :. 243.2 : 60 degrees to core axis. 254.3 : 61 degrees to core axis. 260.5 : 61 degrees to core axis.	VA01185 VA01186 VA01187 VA01188	243.0 251.0 259.0 268.0	251.0 259.0 268.0 273.0	8.0 8.0 9.0 5.0	n/a n/a n/a n/a	<10 <10 11 50	n/a n/a n/a n/a	14 17 16 <10	n/a n/a n/a n/a	n/a n/a n/a n/a	865 926 764 1090

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		268.6 : 64 degrees to core axis. 273.0 : 68 degrees to core axis, lower contact.											
273.0	273.2	MAFIC INTRUSIVE Dark green chloritic sill, weak symmetric chilled margins, with trace pyrite cubes and very weak fracture controlled carbonatization.											
273.2	284.2	CHLORITIC FELSIC QUARTZ EYE TUFF Variably moderately chloritic to sericitic tuff with 1 to 2 %, 2 mm, quartz eyes and approximately 10 to 15 %, < 1 mm crystals, quartz and feldspar. Is weakly contorted. From 277 to 284.2 there are minor 10 to 20 cm white sericitic zones with minor < 1 mm pyrite stringers or bands constituting < 1 % of the tuff. 273.2 284.2 WEAK SPOTTY CHLORITIZATION. 273.2 284.2 MODERATE SPOTTY CARBONATIZATION as fracture controlled calcite and in pressure shadows around quartz eyes. Foliations :. 276.1 : 74 degrees to core axis with minor fault slip with 1 mm fault gouge. 279.3 : 62 degrees to core axis.	VA01189	273.3	284.2	10.9	n/a	40	n/a	<10	n/a	n/a	1200
284.2	284.4	MAFIC INTRUSIVE As from 273.0 to 273.2.											
284.4	287.4	FELSIC QUARTZ EYE TUFF Massive white to grey weakly schistose felsic tuff or volcanic wacke. There are 10 to 15 %, 1 to 2 mm, rounded quartz grains and approximately 15 % fine-grained feldspars. Weakly mottled appearance. There is trace disseminated pyrite cubes, < 1 mm and trace calcite. There may be weak spotty silicification and there are minor fracture controlled quartz veins. Foliations :. 285.1 : 64 degrees to core axis. 286.5 : 63 degrees to core axis.	VA01190	284.4	287.4	3.0	n/a	43	n/a	<10	n/a	n/a	996
287.4	287.9	MAFIC TUFF Dark green chloritic mafic with trace quartz eyes and moderate pervasive to fracture controlled carbonatization.	VA01191	287.4	287.9	.5	n/a	143	n/a	32	n/a	n/a	739
287.9	310.5	CHLORITIC FELSIC QUARTZ EYE TUFF Similiar to 284.4 to 287.4, but gradually becomes	VA01192	288.0	295.0	7.0	n/a	25	n/a	16	n/a	n/a	1030

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-61 | Page Number 15

From (m)	To (m)	DESCRIPTION
		chloritic as from 273.2 to 284.2.
		287.9 288.2 As from 284.4 to 287.4.
		288.2 289.0 As from 284.4 to 287.4 with 1.5 cm mafic at 288.2, 4 cm mafic at 288.5 1.0 cm at 288.6, 10 cm at 288.9. Mafics are medium green and carbonatized.
		289.0 295.0 Similiar to 284.4 to 287.4 with 15 % quartz and same textures.
		295.0 310.5 Weakly to moderately chloritic with decrease in quartz eyes to approximately 10 % and appearance of approximately 5 to 7 %, 1 to 2 mm, feldspars. There is very minor local compositional banding. Transition from above subunit to quartz eye depleted unit takes approximately 3.5 m, 295 is where green colour starts. There is trace local pyrite and weak fracture controlled carbonatization. Minor quartz veins occur and cross-cut and are parallel to foliation.
		Alteration :.
		287.9 309.3 WEAK FRACTURE CONTROLLED CARBONATIZATION.
		Structure :.
		Foliations :.
		292.1 : 66 degrees to core axis.
		294.8 : 65 degrees to core axis.
		301.2 : 70 degrees to core axis.
		307.3 : 63 degrees to core axis.
		Bedding :.
		298.8 : 70 degrees to core axis.
310.5	311.7	MAFIC TUFF
		Moderately to strongly magnetic dark green chloritic tuff with 2 to 3 %, < 1 mm, magnetite grains. There are minor calcite veinlets, up to 3 %, up to 1 cm. There are foliations and cleavages at 30 to 70 degrees to core axis.
311.7	324.7	CHLORITIC FELSIC QUARTZ EYE TUFF
		Variably chloritic felsic tuff with very local strong chloritic or andesitic zones. There are up to 15 %, < 1 to 2 mm, quartz eyes, average 7 %. Calcite is spotty and mainly occurs as trace to 5 %, with increase downhole and local veinlets. There is trace disseminated pyrite with weak up to 1 % banded pyrite from 315.2 to 315.3. There is blocky, highly fractured core from 319.0 to 320.1 and 322.1 to 322.6. Is very weakly contorted locally.
		Alteration :.
		311.7 324.7 MODERATE SPOTTY CHLORITIZATION.
		311.7 324.7 WEAK SPOTTY CARBONATIZATION.
		Foliations :.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01193	295.0	298.0	3.0	n/a	77	n/a	184	n/a	n/a	1080
VA01194	298.0	308.0	10.0	n/a	78	n/a	47	n/a	n/a	1070
VA01195	313.0	323.0	10.0	n/a	114	n/a	40	n/a	n/a	671

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		315.2 : 65 degrees to core axis. 316.2 : 60 degrees to core axis. 321.7 : 57 degrees to core axis. 322.8 : 71 degrees to core axis.											
324.7	331.4	FELSIC TUFF Light grey siliceous very disky felsic ash tuff with very contorted chlorite - carbonate schist from 328.8 to 330.1. There are approximately 10 % fine-grained feldspars and quartz eyes. There are local quartz - chlorite veins that cross-cut the foliation. Is weakly contorted with foliation from approximately 60 to 75 degrees to core axis.	VA01196	325.0	329.0	4.0	n/a	11	n/a	<10	n/a	n/a	709
331.4	335.5	INTERMEDIATE TUFF Fine-grained andesitic tuff, light to medium green with weak fracture controlled carbonatization as white calcite streaks. Last 1 m is bleached above contact with argillite. There is approximately 7 to 10 % fine-grained quartz eyes with trace up to 3 mm eyes and minor local zones with epidotized crystals. There is trace fracture controlled pyrite from 335.3 to the lower contact. Is massive, may be a sill. Foliations :. 331.6 : 64 degrees to core axis. 332.8 : 74 degrees to core axis. 334.1 : 71 degrees to core axis.	VA01197	331.4	335.5	4.1	n/a	38	n/a	48	n/a	n/a	588
335.5	336.0	BLACK ARGILLITE Grey to black argillite with 8 cm green sericitic zone from 335.80 to 335.88. Hosts approximately 2 to 3 % fracture controlled pyrite. There are minor sericitic and argillic clasts. There is strong pervasive carbonatization. Beds are weakly contorted and bedding trends at 70 degrees to core axis.	VA02057	335.6	336.0	.4	3	46	18	88	<1	<5	900
336.0	363.0	WEAKLY CHLORITIC FELSIC TUFF Locally weakly chloritic felsic tuff to volcanic wacke. 336.0 337.4 Light green moderately chloritic tuff with weak pervasive carbonatization and 3 % fracture controlled pyrite, similiar to 335.0 to 335.5. 337.4 339.1 Light grey volcanic wacke with approximately 30 %, up to 1.5 mm, quartz grains and approximately 30 % white quartz - green chlorite veins, massive with no foliation. 339.1 340.2 Mottled felsic tuff with weakly chloritic matrix and siliceous grey lapilli (?), there	VA01198 VA02058 VA01199 VA01200	336.0 336.0 339.5 350.0	337.4 337.4 350.0 363.0	1.4 1.4 10.5 13.0	n/a 3 n/a n/a	120 48 26 34	n/a 17 n/a n/a	57 60 16 11	n/a <1 n/a n/a	n/a <5 n/a n/a	1270 1100 1120 992

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-61 | Page Number 17

From (m)	To (m)	DESCRIPTION
		are approximately 7 %, < 1 mm, feldspar crystals and 3 to 5 %, 1 to 2 mm, quartz eyes.
340.2	340.3	Medium green mafic dyke or tuff with moderate fracture controlled carbonatization.
340.3	340.5	As from 339.1 to 340.2.
340.5	341.0	Mafic to andesitic tuff with trace fine-grained quartz eyes, 0.5 % pyrite cubes and 5 % carbonate veinlets.
341.0	355.3	Medium to light grey felsic with local sericitic beds or bands, averages 7 %, 1 mm, quartz eyes and 15 %, < 1 mm, white feldspars. There is weak fracture controlled carbonatization and minor quartz - chlorite veins. There are minor fault slips parallel to foliation.
355.3	356.3	Dominantly quartz - chlorite - calcite vein.
356.3	358.6	Possibly light grey up to 4 cm elongated felsic lapilli in chloritic matrix. There are quartz eyes in the matrix, up to 15 % 2 mm.
358.6	361.1	Blocky, highly fractured core, mainly quartz vein with fault gouge.
361.1	363.0	Moderately chloritic and contorted with approximately 15 % feldspar and quartz crystals

Foliations :.
339.8 : 77 degrees to core axis.
346.1 : 76 degrees to core axis.
349.8 : 63 degrees to core axis.
356.7 : 47 degrees to core axis.
362.2 : 45 degrees to core axis.
Lost core :.
358.0 358.7 : 0.2 m.
359.0 360.6 : 0.4 m.

End of hole: 1191 feet (363.0 m) on Wednesday June 1, 1988 at 10:00 a.m.

Total lost core = 8.0 m : % recovery = 97.8 %.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00733	14.50	15.00	56.80	15.30	6.79	2.51	0.98	3.63	5.24	0.38	0.24	0.20	8.16	100.23	1280.	44.	8.
VA00734	33.50	34.00	50.60	15.00	9.46	3.70	5.09	0.19	8.99	0.63	0.21	0.24	5.93	100.04	533.	21.	15.
VA00735	36.50	37.00	50.00	13.90	11.40	7.26	3.48	0.09	9.58	0.77	0.14	0.33	3.00	99.95	364.	33.	15.
VA00736	49.00	49.50	55.70	15.10	6.39	2.64	5.27	1.18	6.23	0.51	0.21	0.16	6.54	99.93	448.	25.	12.
VA00737	56.60	56.80	55.90	16.20	4.85	2.48	4.31	2.27	6.91	0.44	0.32	0.12	4.54	98.34	480.	34.	9.
VA00738	62.00	62.50	52.10	14.60	6.80	4.24	4.07	1.15	7.68	0.57	0.21	0.23	8.54	100.19	520.	33.	11.
VA00739	75.70	76.00	47.90	13.00	7.93	7.42	2.77	0.02	10.60	0.64	0.19	0.17	7.85	98.49	51.	41.	11.
VA00740	88.00	88.50	61.40	16.90	3.45	1.12	5.25	2.19	5.11	0.29	0.25	0.06	3.93	99.95	960.	28.	9.
VA00741	99.20	99.30	56.50	16.00	3.23	2.45	3.07	1.43	11.90	0.67	0.26	0.21	4.70	100.42	479.	38.	6.
VA00742	108.30	108.80	67.60	12.70	5.66	1.06	0.61	3.03	2.60	0.22	0.09	0.18	6.08	99.83	1330.	39.	6.
VA00743	113.30	113.90	60.00	16.60	2.59	1.95	2.67	2.24	8.92	0.93	0.25	0.13	3.70	99.98	1100.	44.	5.
VA00744	120.50	120.70	71.70	14.50	2.79	0.50	1.94	3.28	1.81	0.21	0.05	0.13	3.23	100.14	1790.	44.	5.
VA00745	127.00	127.50	49.10	18.20	6.73	2.33	2.95	2.54	9.22	0.75	0.55	0.28	7.31	99.96	931.	33.	10.
VA00746	133.50	134.00	69.90	13.80	2.63	1.42	1.69	3.25	2.69	0.18	0.08	0.08	4.23	99.95	1240.	52.	4.
VA00747	139.00	139.00	47.30	18.90	6.91	2.72	2.05	3.35	9.01	0.84	0.51	0.31	7.93	99.83	2260.	40.	9.
VA00748	158.00	158.40	60.00	16.60	3.57	1.57	3.16	3.21	5.99	0.27	0.23	0.19	4.23	99.02	1430.	42.	7.
VA00749	163.80	164.30	71.50	13.00	3.81	0.81	1.87	2.98	1.58	0.21	0.05	0.09	4.47	100.37	941.	40.	6.
VA00750	173.70	174.00	41.50	14.60	11.00	6.86	2.34	0.60	10.40	0.73	0.37	0.23	11.70	100.33	161.	36.	13.
VA00751	183.50	183.80	45.80	15.20	11.20	7.87	2.11	0.32	10.90	0.77	0.39	0.24	5.08	99.88	309.	38.	13.
VA00752	196.00	196.10	65.70	16.20	3.49	1.35	3.51	1.67	3.53	0.47	0.13	0.07	4.16	100.28	660.	30.	7.
VA00753	201.40	201.90	66.00	16.10	1.54	2.31	4.41	1.76	4.45	0.45	0.11	0.07	2.85	100.05	991.	41.	6.
VA00754	209.80	210.00	55.40	14.70	8.10	2.61	3.27	0.81	6.05	0.47	0.17	0.16	8.16	99.90	388.	23.	11.
VA00755	227.60	227.80	67.60	14.60	4.82	1.06	2.55	1.21	2.18	0.23	0.08	0.07	5.47	99.87	524.	24.	7.

Hole No. CH88-61 WHOLE ROCK SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00756	233.00	233.50	52.70	12.30	9.60	2.87	1.10	0.99	10.10	0.47	0.16	0.15	9.70	100.14	349.	27.	11.
VA00757	240.60	240.75	66.30	13.60	4.92	1.30	2.68	1.50	4.23	0.38	0.11	0.07	5.08	100.17	761.	27.	8.
VA00758	241.30	241.40	46.00	16.20	10.10	2.72	2.48	1.21	10.40	0.94	0.32	0.19	9.54	100.10	519.	24.	13.
VA00759	242.50	243.00	66.00	16.20	2.87	1.84	3.48	2.47	3.56	0.28	0.09	0.06	3.54	100.39	928.	40.	6.
VA00760	253.10	253.60	68.50	15.50	3.66	1.21	3.21	2.28	2.79	0.27	0.08	0.07	2.62	100.19	1350.	34.	7.
VA00761	260.50	261.00	70.60	14.00	3.38	1.22	3.16	2.18	2.40	0.25	0.08	0.06	3.00	100.33	676.	34.	7.
VA00762	266.00	266.30	71.70	13.40	2.28	0.84	4.59	1.41	3.15	0.36	0.09	0.06	2.47	100.35	742.	25.	7.
VA00764	268.40	268.90	65.80	14.90	5.17	0.75	1.68	2.99	2.41	0.28	0.07	0.05	5.31	99.41	1150.	35.	7.
VA00763	273.05	273.25	39.80	18.90	4.19	4.56	3.57	0.35	17.50	3.34	1.13	0.19	5.39	98.92	196.	39.	8.
VA00765	279.20	279.30	68.30	13.60	4.95	0.69	1.16	3.45	2.03	0.26	0.06	0.06	4.85	99.41	1210.	40.	6.
VA00766	280.30	280.40	70.30	13.60	3.68	0.79	2.06	3.05	2.44	0.25	0.07	0.05	4.23	100.52	1040.	40.	6.
VA00767	291.00	291.50	70.90	13.90	2.46	0.82	4.19	2.87	2.13	0.27	0.07	0.05	2.77	100.43	1010.	36.	7.
VA00768	305.90	306.40	68.10	15.30	3.67	1.29	3.12	2.69	2.17	0.28	0.07	0.08	3.62	100.39	1120.	37.	7.
VA00769	311.00	311.50	47.40	17.60	7.02	3.48	4.38	1.77	10.00	0.98	0.37	0.28	6.85	100.13	418.	32.	11.
VA00770	325.80	326.30	72.70	14.00	1.05	0.87	5.35	2.18	1.94	0.20	0.06	0.04	1.62	100.01	752.	32.	6.
VA00771	333.60	334.10	45.00	16.70	10.00	2.45	2.92	1.83	10.30	0.82	0.44	0.23	9.39	100.08	667.	25.	13.
VA00772	347.20	347.70	69.30	14.10	3.26	1.27	2.15	3.58	2.26	0.24	0.07	0.09	3.54	99.86	1180.	47.	5.
VA00773	357.00	358.00	71.60	12.50	2.76	1.27	4.10	1.88	2.62	0.23	0.05	0.09	2.77	99.87	797.	31.	7.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01157	6.40	14.20	57.70	15.90	4.65	1.94	1.71	3.90	5.52	0.34			5.93	97.59	1540.	48.	6.
VA01158	16.00	24.00	48.70	14.70	7.57	6.18	2.40	1.19	9.19	0.65			7.54	98.12	514.	43.	10.
VA01159	24.80	26.80	55.90	14.80	6.90	2.80	1.97	3.04	5.54	0.42			5.62	96.99	948.	40.	9.
VA01160	26.80	55.80	50.60	15.10	8.10	4.44	3.88	1.42	7.67	0.71			6.31	98.23	447.	33.	12.
VA01161	55.80	58.50	52.40	15.70	6.37	2.38	3.41	2.77	6.60	0.47			5.23	95.33	614.	34.	10.
VA01162	59.00	64.00	50.10	14.40	8.44	3.66	3.60	1.61	7.24	0.55			8.47	98.07	733.	30.	12.
VA01163	65.10	68.60	56.10	12.60	9.69	1.49	1.69	2.90	4.41	0.24			7.16	96.28	940.	28.	11.
VA01164	68.60	77.10	47.80	13.30	7.97	6.07	3.28	0.32	9.51	0.59			7.31	96.15	150.	36.	11.
VA01165	77.10	86.60	50.90	16.30	5.61	3.20	2.17	3.06	8.83	0.74			7.23	98.04	867.	45.	8.
VA01166	86.60	95.70	60.50	16.20	3.59	1.49	4.86	1.91	7.14	0.37			3.93	99.99	895.	29.	8.
VA01167	95.70	105.40	57.30	16.20	4.23	1.88	3.13	2.39	8.01	0.50			5.00	98.64	961.	37.	7.
VA01168	105.40	109.30	71.80	12.70	3.27	0.83	2.05	2.57	2.37	0.25			3.62	99.46	1350.	39.	5.
VA01169	110.00	117.00	56.90	16.80	3.92	1.92	2.35	2.77	7.88	0.82			4.23	97.59	1940.	43.	6.
VA01170	119.00	123.20	72.50	12.60	3.06	0.61	2.35	2.59	1.93	0.22			3.47	99.33	1960.	37.	5.
VA01171	123.20	132.10	49.50	17.00	7.51	2.17	2.62	2.63	9.39	0.68			7.85	99.35	824.	32.	10.
VA01172	132.20	138.00	71.00	13.30	2.65	1.13	2.23	2.84	2.63	0.18			3.93	99.89	1230.	45.	5.
VA01173	145.00	155.00	64.20	15.50	3.18	1.19	3.40	2.90	4.45	0.38			3.23	98.43	1850.	38.	7.
VA01174	155.60	161.20	63.20	16.50	2.65	1.45	3.95	3.01	5.05	0.27			3.47	99.55	1350.	40.	7.
VA01175	161.20	166.60	65.40	14.00	4.74	1.26	1.99	3.21	3.14	0.23			5.47	99.44	1010.	40.	7.
VA01176	169.00	179.00	44.00	16.00	9.60	5.85	2.78	0.99	10.30	0.72			9.16	99.40	291.	36.	12.
VA01177	180.00	188.00	48.20	15.30	10.40	5.09	2.26	1.03	9.66	0.67			6.77	99.38	451.	33.	13.
VA01178	191.40	195.20	49.80	18.80	6.14	2.11	2.90	2.29	10.70	1.12			5.93	99.79	357.	33.	9.
VA01179	201.20	204.50	68.30	14.00	2.75	1.71	4.26	1.26	4.06	0.39			3.23	99.96	689.	30.	7.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01180	204.60	210.00	57.00	15.00	7.97	2.44	3.39	1.02	5.02	0.49			7.31	99.64	534.	23.	11.
VA01181	210.00	213.90	61.60	14.30	6.21	2.12	3.60	0.89	4.53	0.46			6.16	99.87	449.	23.	10.
VA01182	214.00	220.00	46.40	15.30	12.70	2.43	1.68	1.17	7.63	0.64			11.90	99.85	504.	20.	14.
VA01183	222.80	226.90	44.00	16.80	10.30	2.78	1.58	1.02	11.90	0.86			10.80	100.04	341.	24.	12.
VA01184	229.00	237.50	44.30	17.70	11.00	2.88	1.29	1.77	9.27	0.87			11.30	100.38	538.	27.	12.
VA01185	243.00	251.00	69.30	14.20	3.15	1.34	3.39	2.17	2.71	0.24			3.23	99.73	865.	35.	7.
VA01186	251.00	259.00	70.60	14.50	3.30	1.48	2.63	2.22	2.68	0.25			2.39	100.05	926.	38.	6.
VA01187	259.00	268.00	70.10	13.80	3.50	1.28	2.61	2.05	2.95	0.27			3.16	99.72	764.	35.	6.
VA01188	268.00	273.00	70.20	14.80	2.61	0.82	1.58	2.81	2.56	0.30			3.47	99.15	1090.	46.	4.
VA01189	273.30	284.20	69.30	14.80	3.57	0.70	1.61	3.41	2.17	0.29			4.16	100.01	1200.	44.	5.
VA01190	284.40	287.40	72.00	14.00	2.44	0.70	3.39	2.98	1.87	0.26			2.70	100.34	996.	39.	6.
VA01191	287.40	287.90	44.70	12.80	10.10	9.23	1.95	0.40	8.45	0.60			10.50	98.73	739.	44.	12.
VA01192	288.00	295.00	70.10	13.80	2.51	0.94	3.37	2.97	2.33	0.26			3.00	99.28	1030.	40.	6.
VA01193	295.00	298.00	70.10	14.80	2.19	1.02	3.21	3.04	2.37	0.27			2.77	99.77	1080.	43.	5.
VA01194	298.00	308.00	70.40	14.20	2.58	1.09	3.33	2.45	2.25	0.27			2.85	99.42	1070.	37.	6.
VA01195	313.00	323.00	61.70	15.20	3.24	3.11	3.99	2.02	5.81	0.43			3.77	99.27	671.	42.	7.
VA01196	325.00	329.00	72.10	14.00	1.46	0.70	5.14	2.14	1.80	0.20			1.93	99.47	709.	30.	7.
VA01197	331.40	335.50	47.90	16.00	9.69	2.59	3.68	1.53	8.86	0.59			8.77	99.61	588.	24.	13.
VA01198	336.00	337.40	71.30	9.30	6.16	1.23	0.53	2.28	4.16	0.40			3.47	98.83	1270.	34.	7.
VA01199	339.50	350.00	67.60	13.90	3.91	1.19	2.51	3.38	2.61	0.28			3.77	99.15	1120.	42.	6.
VA01200	350.00	363.00	71.90	12.90	2.23	1.36	2.94	2.80	2.37	0.23			2.93	99.66	992.	45.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02014	6.40	7.60	1400.0	151.0	30.0	<0.5	6.0	10.0	9.0	<5.0	<5.0	<1.0	3.0	680.0	83.	4.	3.
VA02015	7.60	8.80	1500.0	240.0	30.0	<0.5	13.0	8.0	7.0	<5.0	<5.0	<1.0	4.0	690.0	89.	4.	2.
VA02016	11.30	12.30	1500.0	93.0	18.0	<0.5	<5.0	9.0	10.0	8.0	<5.0	<1.0	3.0	625.0	84.	4.	2.
VA02017	12.30	13.30	1500.0	120.0	17.0	<0.5	<5.0	10.0	14.0	<5.0	5.0	<1.0	3.0	620.0	88.	4.	3.
VA02018	13.30	14.20	1300.0	34.0	20.0	<0.5	<5.0	10.0	12.0	<5.0	<5.0	<1.0	6.0	830.0	63.	4.	2.
VA02019	18.00	19.50	540.0	80.0	112.0	<0.5	<5.0	25.0	25.0	6.0	16.0	<1.0	4.0	900.0	42.	3.	4.
VA02020	24.80	25.80	1400.0	34.0	53.0	<0.5	<5.0	10.0	7.0	37.0	12.0	<1.0	4.0	800.0	39.	3.	2.
VA02021	25.80	26.80	800.0	68.0	84.0	<0.5	<5.0	21.0	31.0	10.0	14.0	<1.0	4.0	1400.0	45.	3.	4.
VA02022	26.80	28.00	460.0	106.0	186.0	<0.5	<5.0	25.0	66.0	15.0	12.0	<1.0	3.0	1600.0	36.	2.	4.
VA02023	28.00	30.00	480.0	68.0	62.0	<0.5	<5.0	21.0	38.0	7.0	10.0	<1.0	3.0	1400.0	52.	1.	4.
VA02024	54.30	55.80	870.0	71.0	76.0	<0.5	<5.0	14.0	17.0	5.0	<5.0	<1.0	5.0	850.0	48.	2.	3.
VA02025	55.80	57.20	720.0	47.0	53.0	0.5	<5.0	13.0	13.0	7.0	<5.0	<1.0	6.0	790.0	47.	6.	4.
VA02026	57.20	58.50	480.0	56.0	45.0	<0.5	<5.0	11.0	13.0	7.0	<5.0	<1.0	8.0	750.0	55.	8.	3.
VA02027	65.10	66.10	1100.0	50.0	172.0	<0.5	<5.0	18.0	8.0	5.0	<5.0	2.0	5.0	450.0	23.	2.	2.
VA02028	66.10	67.10	1200.0	55.0	42.0	1.6	<5.0	8.0	7.0	<5.0	<5.0	<1.0	8.0	350.0	57.	2.	2.
VA02029	67.10	68.60	1000.0	78.0	4000.0	0.6	77.0	2.0	10.0	25.0	8.0	26.0	17.0	890.0	2.	5.	1.
VA02030	68.60	70.00	130.0	22.0	144.0	<0.5	<5.0	19.0	39.0	9.0	<5.0	<1.0	5.0	670.0	13.	3.	4.
VA02031	70.00	71.50	<20.0	90.0	94.0	<0.5	<5.0	17.0	41.0	6.0	7.0	<1.0	5.0	700.0	49.	3.	4.
VA02032	71.50	73.00	20.0	97.0	88.0	<0.5	<5.0	11.0	30.0	6.0	8.0	<1.0	6.0	660.0	52.	3.	4.
VA02033	73.00	74.50	<20.0	69.0	100.0	<0.5	<5.0	11.0	32.0	9.0	10.0	<1.0	4.0	680.0	41.	3.	4.
VA02034	74.50	76.00	<20.0	74.0	170.0	0.7	<5.0	28.0	39.0	20.0	8.0	<1.0	8.0	850.0	30.	3.	4.
VA02035	76.00	77.10	340.0	62.0	180.0	<0.5	<5.0	19.0	25.0	16.0	6.0	<1.0	5.0	810.0	26.	3.	4.
VA02036	83.50	84.50	1000.0	600.0	90.0	0.9	<5.0	18.0	9.0	20.0	5.0	<1.0	3.0	1000.0	87.	1.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02037	93.00	94.50	1400.0	30.0	52.0	<0.5	<5.0	6.0	5.0	8.0	<5.0	<1.0	2.0	760.0	37.	2.	3.
VA02038	106.70	107.30	1400.0	12.0	25.0	<0.5	<5.0	8.0	7.0	5.0	<5.0	<1.0	5.0	500.0	32.	2.	1.
VA02039	144.30	145.20	1200.0	28.0	95.0	<0.5	<5.0	10.0	9.0	15.0	88.0	<1.0	31.0	1000.0	23.	2.	3.
VA02040	145.20	145.70	1300.0	69.0	62.0	1.6	8.0	20.0	16.0	55.0	500.0	<1.0	138.0	550.0	53.	25.	6.
VA02041	145.70	147.00	1160.0	17.0	58.0	<0.5	<5.0	10.0	8.0	12.0	15.0	<1.0	6.0	800.0	23.	2.	2.
VA02042	147.00	148.50	1140.0	26.0	69.0	<0.5	<5.0	15.0	13.0	7.0	18.0	<1.0	5.0	1200.0	27.	2.	3.
VA02043	148.50	150.00	2000.0	20.0	156.0	<0.5	<5.0	19.0	23.0	15.0	150.0	<1.0	8.0	910.0	11.	2.	4.
VA02044	150.00	151.20	2400.0	7.0	120.0	<0.5	<5.0	7.0	9.0	14.0	33.0	<1.0	18.0	760.0	6.	2.	2.
VA02045	151.20	152.10	2600.0	8.0	83.0	<0.5	<5.0	11.0	13.0	15.0	160.0	<1.0	8.0	510.0	9.	10.	3.
VA02046	152.10	153.60	2100.0	5.0	100.0	<0.5	<5.0	3.0	6.0	6.0	31.0	<1.0	5.0	900.0	5.	2.	2.
VA02047	153.60	155.60	2200.0	5.0	44.0	<0.5	<5.0	4.0	4.0	7.0	11.0	<1.0	3.0	710.0	10.	2.	1.
VA02048	172.50	173.50	600.0	71.0	65.0	<0.5	<5.0	12.0	24.0	6.0	<5.0	<1.0	4.0	730.0	52.	1.	3.
VA02049	189.70	191.40	350.0	4.0	120.0	0.5	<5.0	7.0	11.0	5.0	<5.0	<1.0	3.0	520.0	3.	0.	4.
VA02050	199.20	200.00	590.0	3.0	94.0	<0.5	<5.0	4.0	7.0	<5.0	<5.0	<1.0	3.0	190.0	3.	0.	2.
VA02051	213.00	213.90	500.0	22.0	60.0	<0.5	<5.0	5.0	14.0	<5.0	<5.0	<1.0	7.0	550.0	27.	0.	2.
VA02052	213.90	215.00	1100.0	42.0	92.0	<0.5	8.0	15.0	25.0	<5.0	5.0	<1.0	4.0	730.0	31.	3.	3.
VA02053	215.00	217.00	810.0	33.0	75.0	<0.5	<5.0	16.0	20.0	5.0	<5.0	<1.0	3.0	795.0	31.	2.	3.
VA02054	217.00	219.00	830.0	49.0	87.0	<0.5	<5.0	25.0	53.0	6.0	<5.0	<1.0	7.0	1320.0	36.	2.	6.
VA02055	219.00	220.70	330.0	70.0	73.0	<0.5	<5.0	19.0	26.0	<5.0	<5.0	<1.0	6.0	940.0	49.	2.	6.
VA02056	220.70	221.70	650.0	78.0	89.0	<0.5	<5.0	20.0	19.0	6.0	<5.0	<1.0	8.0	760.0	47.	0.	7.
VA02057	335.60	336.00	900.0	46.0	88.0	<0.5	<5.0	5.0	18.0	18.0	21.0	1.0	19.0	800.0	34.	3.	2.
VA02058	336.00	337.40	1100.0	48.0	60.0	<0.5	<5.0	7.0	19.0	17.0	120.0	<1.0	12.0	900.0	44.	3.	3.

Summary Log: DDH CH88-62
Location: 50+00 W, 9+85 N; Holyoak 3 Claim
Azimuth: 210, Dip: -50
Hole Completed: May 30, 1988
Core logged by: J. Pattison

0.0	6.4	Casing
6.4	17.2	Chloritic felsic tuff
17.2	24.2	Cherty sediments (black argillite and siltstone)
24.2	37.2	Chloritic felsic quartz eye tuff
37.2	41.8	Cherty argillaceous sediments and felsic tuffite
41.8	125.1	Chloritic felsic quartz eye tuff 5 % pyrite, 1 % sphalerite and trace galena over 2.0 m
125.1	127.1	Chlorite schist
127.1	191.3	Chloritic felsic quartz eye tuff
191.3	199.0	Cherty argillaceous sediments and felsic tuffite
199.0	221.2	Chloritic felsic lapilli tuff
221.2	222.6	Black argillite
222.6	224.2	Felsic quartz eye tuff
224.2	228.1	Cherty sediments (black argillite and siltstone)
228.1	229.1	Felsic tuff
229.1	237.7	Cherty argillaceous sediments and felsic tuffite

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-62 | Page Number 1

Hole Location: 50+00' W 9+85 N

NTS: 92B13 UTM:
Azimuth: 210 Elevation: 917 m
Dip: -50 Length: 237.7 m

Started: 27-May-88
Completed: 30-May-88

Claim No. Holyoak 3
Section No.: 50+00 W

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ

Purpose: To test IP chargeability anomalies.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
14.00	211.0	-51.0	221.30	217.0	-41.0
123.70	214.0	-45.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	6.4	OVERBURDEN											
6.4	17.2	WEAKLY CHLORITIC FELSIC TUFF Light grey-green weakly chloritized felsic ash tuff with up to 20 % <1 mm feldspar crystals. Several brown rusty chlorite-carbonate rich bands 4 to 80 cm wide parallel to to foliation above 9.0 m. < 1 % disseminated pyrite. STRUCTURE:. At 13.0 m 3 mm fault gouge at 30 degrees to core axis. ALTERATION:. 6.4 17.2 MODERATE PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION. 6.5 888.8 4.0 cm wide rusty chloritic band at 30 degrees to core axis. 6.8 6.9 Rusty chlorite-carbonate altered zone at 30 degrees to core axis. 7.9 8.9 Rusty chlorite-carbonate altered zone at 35 degrees to core axis. Broken, blocky core throughout. 0.2 m of lost core. 14.9 15.9 Medium grey cherty tuffite. Upper and lower contacts are gradational.	VA02857	6.4	17.4	11.0	n/a	12	n/a	37	n/a	n/a	1790
17.2	24.2	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-62 | Page Number 2

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		GREYWACKE)											
		Medium to dark grey cherty siltstones (90%) intercalated with beds of black argillite < 4 mm thick.	VA08113	17.4	18.4	1.0	4	48	6	110	<1	10	1900
		Sediments are finely bedded to massive. 4 % disseminated	VA08114	18.4	19.0	.6	4	47	<5	108	<1	<5	1900
		pyrite.	VA08115	19.0	20.0	1.0	4	55	5	80	<1	5	1500
			VA08116	20.0	21.0	1.0	4	52	<5	80	<1	7	1200
		STRUCTURE:.	VA08117	21.0	22.0	1.0	4	74	5	98	<1	<5	700
		At 21.0 m bedding is at 60 degrees to core axis.	VA08118	22.0	23.0	1.0	4	47	<5	128	<1	<5	1300
			VA08119	23.0	24.2	1.2	4	61	5	136	<1	10	1400
24.2	37.2	CHLORITIC FELSIC QUARTZ EYE TUFF											
		Composed of 2-5 %, 2-5 mm clear quartz eyes in a	VA02858	24.2	37.2	13.0	n/a	23	n/a	<10	n/a	n/a	1020
		moderately to strongly sericitic and weakly chloritic,	VA08120	24.2	26.0	1.8	4	6	<5	10	<1	5	1100
		siliceous matrix. Broken core at the lower contact.	VA08121	26.0	27.0	1.0	4	2	<5	3	<1	5	770
			VA08122	27.0	28.0	1.0	4	4	6	3	<1	10	770
		STRUCTURE:.	VA08123	28.0	29.0	1.0	4	3	7	3	<1	6	790
		24.4-25.9 FAULT ZONE. 1.3 m of lost core. Not possible to	VA08124	29.0	30.0	1.0	4	3	<5	10	<1	<5	910
		measure the orientation.	VA08125	30.0	31.0	1.0	4	20	<5	90	<1	<5	1100
		At 29.0 m foliation is at 28 degrees to core axis.	VA08126	31.0	32.0	1.0	4	4	<5	15	<1	<5	950
			VA08127	32.0	33.0	1.0	4	2	<5	5	<1	5	970
		ALTERATION:.	VA08128	33.0	34.0	1.0	4	3	5	10	<1	12	770
		24.2 27.8 MODERATE SPOTTY CHLORITIZATION and MODERATE	VA08129	34.0	34.4	.4	4	80	50	680	<1	9	740
		PERVASIVE SERICITIZATION.	VA08130	34.4	34.6	.2	8	95	74	1200	1	53	1100
		27.8 37.2 MODERATE PERVASIVE SERICITIZATION and WEAK	VA08131	34.6	35.6	1.0	8	39	54	800	<1	62	880
		SPOTTY CHLORITIZATION. Light pale brown	VA08132	35.6	36.5	.9	4	8	9	68	<1	6	1100
		micaceous alteration mineral (biotite?) is	VA08133	36.5	37.2	.7	4	19	9	158	<1	7	1400
		common below 31.5 m.											
		SULPHIDES:.											
		24.2-34.4 m 4 % pyrite, disseminated and in chloritic											
		bands/stringers < 4 mm wide.											
		34.4-35.6 m 8 % fracture controlled and disseminated pyrite											
		30.5 31.0 Medium grey cherty siltstone. Upper and lower											
		contacts are sharp at 40 and 17 degrees to core											
		axis respectively.											
		34.3 34.6 Dark grey argillaceous siltstone and black											
		argillite. Finely bedded (< 5 mm) with 8 %											
		pyrite in quartz filled microfractures. Upper											
		and lower contacts are bedding contacts at 30											
		degrees to core axis.											
		34.8 35.6 Dark grey argillaceous siltstone and black											
		argillite intercalated with cherty,felsic											
		tuffite. 6 % disseminated and fracture											
		controlled pyrite. Upper contact is a sharp											
		bedding contact at 42 degrees to core axis while											
		lower contact is gradational over 0.2 m											
		suggesting TOPS DOWNHOLE.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-62

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
37.2	41.8	CHERTY ARGILLACEOUS SEDIMENTS AND FELSIC TUFFITE Medium to dark grey cherty volcanic wackes with a variable argillaceous component. Most argillaceous between 38.2 and 39.0 m. 5 % disseminated and fracture controlled pyrite. Core is broken and blocky throughout, 1.9 m of lost core. Lower contact is a sharp bedding contact at 25 degrees to core axis. STRUCTURE:. At 37.3 m foliation is at 22 degrees to core axis. At 41.1 bedding is at 40 degrees to core axis.	VA08134	37.2	40.0	2.8	5	45	40	900	<1	122	720
			VA08135	40.0	41.8	1.8	5	79	7	152	<1	22	1400
41.8	43.0	CHLORITIC FELSIC QUARTZ EYE TUFF As 24.2 to 37.2 m. 2 % pyrite concentrated in two 2 mm stringers (?) parallel to foliation. Weak light brown biotite alteration gives rock a mottled appearance. 0.3 m of lost core for no obvious reason. Broken core at the lower contact.	VA08136	41.8	43.0	1.2	2	5	<5	20	<1	6	1100
			VA02859	41.8	71.0	29.2	n/a	14	n/a	31	n/a	n/a	1710
43.0	44.5	FELSIC TUFF Olive green epidotized and carbonatized felsic ash tuff with up to 30 % <1 mm feldspars. 5 % disseminated pyrite. Broken core at the lower contact.	VA08137	43.0	44.5	1.5	5	26	<5	250	<1	<5	890
44.5	125.1	CHLORITIC FELSIC QUARTZ EYE TUFF 5 %, 2-5 mm clear quartz eyes in a fine-grained moderately to strongly sericitic, well foliated siliceous matrix. Locally weak streaky pale orange-brown biotite alteration gives rock a mottled appearance. Lower contact is at 33 degrees to core axis. STRUCTURE:. At 46.0 m foliation is at 28 degrees to core axis. At 49.1 m foliation is at 40 degrees to core axis. 51.0-52.4 M FAULT ZONE. Blocky, highly fractured core and 1.0 m of lost core. Not possible to measure orientation but appears to be at a very low angle to the core axis. At 53.5 m foliation is at 33 degrees to core axis. At 58.5 m 1.0 cm fault gouge at 40 degrees to core axis. 59.7-60.2 M fault zone at 15 degrees to core axis. 0.1 m of lost core. At 62.2 m foliation is at 30 degrees to core axis. At 73.6 m foliation is at 18 degrees to core axis. At 81.5 m foliation is at 30 degrees to core axis. At 83.5 m bedding is at 50 degrees to core axis. At 92.5 m bedding is at 54 degrees to core axis.	VA08138	44.5	45.0	.5	3	5	<5	12	<1	10	1400
			VA08139	45.0	46.0	1.0	3	7	<5	40	<1	18	1400
			VA08140	46.0	47.0	1.0	3	3	<5	22	<1	7	1300
			VA08141	47.0	48.0	1.0	3	2	<5	42	<1	5	1400
			VA08142	48.0	49.0	1.0	3	16	<5	340	<1	6	1600
			VA08143	49.0	50.0	1.0	3	3	<5	36	<1	6	1400
			VA08144	50.0	51.0	1.0	3	3	<5	55	<1	6	1400
			VA08145	51.0	53.0	2.0	3	6	<5	200	<1	5	1400
			VA08146	53.0	54.0	1.0	3	4	<5	70	<1	<5	1600
			VA08147	54.0	55.0	1.0	3	20	<5	180	<1	7	1700
			VA08148	55.0	56.0	1.0	3	21	<5	100	2	39	1400
			VA08149	56.0	57.0	1.0	3	16	<5	82	<1	12	1900
			VA08150	57.0	58.0	1.0	3	45	<5	342	<1	12	2400
			VA08151	58.0	59.0	1.0	3	5	<5	48	<1	16	2800
			VA08152	59.0	60.0	1.0	3	204	<5	40	<1	20	2300
			VA08153	60.0	61.0	1.0	3	938	<5	52	2	22	1700
			VA08154	61.0	62.0	1.0	3	5	<5	30	<1	14	1200
			VA08155	62.0	63.0	1.0	3	9	<5	40	<1	24	1400
			VA08156	63.0	64.0	1.0	3	5	<5	60	<1	16	1700
			VA08157	64.0	65.0	1.0	3	15	<5	85	<1	24	1700
			VA08158	65.0	66.0	1.0	3	2	<5	20	<1	14	1900

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-62 | Page Number 4

From (m)	To (m)	----------DESCRIPTION----------
		At 98.2 m foliation is at 50 degrees to core axis.
		110.1-111.7 M rock is crushed and there are several fault gouges at 20 degrees to core axis.
		At 121.6 m foliation is at 30 degrees to core axis.
		ALTERATION:.
44.5	48.0	MODERATE PERVASIVE SERICITIZATION and very weak to weak pervasive chloritization and fracture controlled carbonatization.
48.0	63.5	MODERATE PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION.
63.5	67.7	MODERATE PERVASIVE SILICIFICATION and MODERATE PERVASIVE SERICITIZATION.
67.7	81.5	MODERATE PERVASIVE SERICITIZATION and WEAK SPOTTY CHLORITIZATION. Chlorite occurs in weak bands < 5 mm wide parallel to foliation.
81.5	97.3	MODERATE SPOTTY CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. Chlorite occurs in bands and patches < 5 mm wide parallel to foliation giving rock a streaky, mottled appearance.
97.3	125.1	MODERATE PERVASIVE SERICITIZATION and WEAK SPOTTY CHLORITIZATION.
		SULPHIDES:.
		44.5-70.0 m 3 % pyrite, disseminated and in fractures/stringers roughly parallel to foliation.
		70.0-74.0 4-5% Pyrite concentrated in dark grey siliceous bands/stringers < 3 mm wide roughly parallel to foliation.
		74.0-75.0 m 8 % pyrite as above but bands are up to 5 mm wide.
		75.0-77.5 m 4-5% disseminated pyrite.
		77.5-78.0 m 8 % pyrite concentrated in a 0.1 m wide chlorite altered zone at 35 degrees to core axis.
		78.0-116.0 m 2-3% pyrite disseminated and in 2 mm stringers (?) parallel to foliation.
		116.0-117.0 m 4 % disseminated pyrite and trace galena.
		117.0-119.0 m 4-5 % disseminated pyrite and trace to 1 % disseminated sphalerite. Sphalerite is very pale yellow in colour and is associated with pyrite.
		119.0-121.0 m 4-5 % disseminated pyrite associated with moderate patchy silicification.
		121.0-125.1 m 2 % pyrite disseminated and in 2 mm stringers (?) parallel to foliation.
48.5	48.7	Light pinkish brown, cherty sediments. Broken core at the upper contact and lower contact is at 35 degrees to core axis.
51.0	52.4	Light brown cherty sediments/felsic tuffite.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA08159	66.0	67.0	1.0	3	5	<5	30	<1	13	1700
VA08160	67.0	68.0	1.0	3	2	<5	20	<1	12	1500
VA08161	68.0	69.0	1.0	3	7	<5	13	<1	14	1700
VA08162	69.0	70.0	1.0	3	5	<5	30	<1	10	1700
VA08163	70.0	71.0	1.0	5	18	<5	48	<1	13	1400
VA08164	71.0	72.0	1.0	5	5	<5	21	<1	13	1600
VA02860	71.0	101.0	30.0	n/a	23	n/a	<10	n/a	n/a	1220
VA08165	72.0	73.0	1.0	5	17	<5	38	<1	<5	1400
VA08166	73.0	74.0	1.0	5	5	<5	53	<1	10	1300
VA08167	74.0	75.0	1.0	8	20	5	80	1	65	1100
VA08168	75.0	76.0	1.0	5	15	<5	31	1	33	970
VA08169	76.0	77.0	1.0	5	11	<5	31	1	41	910
VA08170	77.0	77.5	.5	5	6	<5	40	1	47	900
VA08171	77.5	78.0	.5	8	42	6	148	2	231	960
VA08172	78.0	79.0	1.0	3	16	<5	130	1	98	870
VA08173	79.0	80.0	1.0	3	45	<5	40	<1	35	990
VA08174	80.0	81.0	1.0	3	48	<5	46	<1	25	1000
VA08175	81.0	82.0	1.0	3	13	<5	26	<1	51	930
VA08176	82.0	83.0	1.0	3	18	<5	65	<1	17	1000
VA08177	83.0	84.0	1.0	3	14	<5	78	<1	9	1200
VA08178	84.0	85.0	1.0	3	13	<5	26	<1	93	1300
VA08179	85.0	86.0	1.0	3	6	<5	25	<1	8	1200
VA08180	86.0	87.0	1.0	3	12	<5	41	<1	<5	1100
VA08181	87.0	88.0	1.0	3	12	<5	60	<1	<5	1100
VA08182	88.0	89.0	1.0	3	6	<5	48	<1	<5	1100
VA08183	89.0	90.0	1.0	3	10	<5	34	<1	7	1100
VA08184	90.0	91.0	1.0	3	9	<5	38	<1	9	1200
VA08185	91.0	92.0	1.0	3	7	<5	42	<1	<5	1200
VA08186	92.0	93.0	1.0	3	13	<5	75	<1	9	1600
VA08187	93.0	94.0	1.0	3	5	<5	50	<1	8	1400
VA08188	94.0	95.0	1.0	3	6	<5	48	<1	<5	1100
VA08189	95.0	96.0	1.0	3	4	<5	55	<1	<5	1000
VA08190	96.0	97.0	1.0	3	4	<5	43	<1	<5	990
VA08191	97.0	98.0	1.0	3	6	<5	26	<1	<5	1100
VA08192	98.0	99.0	1.0	3	6	<5	15	<1	6	1000
VA08193	99.0	100.0	1.0	3	5	<5	20	<1	16	910
VA08194	100.0	101.0	1.0	3	4	<5	20	<1	29	800
VA02861	101.0	125.1	24.1	n/a	<10	n/a	22	n/a	n/a	965
VA08195	101.0	102.0	1.0	3	9	<5	20	<1	13	820
VA08196	102.0	103.0	1.0	3	6	<5	31	<1	9	800
VA08197	103.0	104.0	1.0	3	6	<5	35	<1	13	800
VA08198	104.0	105.0	1.0	3	3	<5	18	<1	12	840
VA08199	105.0	106.0	1.0	3	3	<5	13	<1	20	830
VA08200	106.0	107.0	1.0	3	4	<5	13	<1	23	900
VA08201	107.0	108.0	1.0	3	2	<5	12	<1	17	850
VA08202	108.0	109.0	1.0	3	3	<5	13	<1	33	1000
VA08203	109.0	110.0	1.0	3	3	<5	12	<1	21	900
VA08204	110.0	111.0	1.0	3	3	<5	12	<1	10	960
VA08205	111.0	112.0	1.0	3	3	<5	12	<1	28	780
VA08206	112.0	113.0	1.0	3	4	<5	13	<1	22	830
VA08207	113.0	114.0	1.0	3	3	<5	20	<1	24	830

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-62 | Page Number 5

From (m)	To (m)	DESCRIPTION
	54.0 54.4	Medium green, cherty siltstone. Broken core at upper and lower contacts.
	57.0 57.4	Dark green-brown cherty sediments. Upper contact is at 45 degrees to core axis and lower contact is at 30 degrees to core axis.
	63.0 888.8	Dark green-brown carbonate-chlorite-biotite rich band 3.0 cm wide at 30 degrees to core axis. 5 % fracture controlled pyrite.
	70.0 888.8	2X4 mm dark green cherty sediment clast.
	80.5 80.7	Band of grey-green to olive green epidotized and carbonatized intermediate to mafic tuffaceous sediments at 35-40 degrees to core axis.
	83.6 83.8	Two 3.0 to 5.0 cm bands of carbonatized mafic tuff at 45-50 degrees to core axis. Carbonate occurs in gashes and fractures up to 3 mm wide.
	86.1 86.3	Three 1.0 to4.0 cm bands of carbonatized mafic tuff at 50 degrees to core axis.
	92.4 92.5	Light green, strongly carbonatized mafic to intermediate tuffaceous sediments at 54 degrees to core axis.
125.1	127.1	CHLORITE SCHIST Medium green, fine-grained chloritic mafic rock (tuff?) with many (20% of rock) white, carbonate-filled fractures and gashes up to 4 mm wide subparallel to foliation. Trace to 1 % disseminated pyrite. Lower contact is at 40 degrees to core axis. STRUCTURE:. At 125.6 m foliation is at 35 degrees to core axis. ALTERATION:. 125.1 127.1 STRONG FRACTURE CONTROLLED CARBONATIZATION.
127.1	191.3	CHLORITIC FELSIC QUARTZ EYE TUFF Mottled light grey to pale green to pale brown due to variable sericite, chlorite and biotite alteration. Well foliated with 3-5 %, 2 to 5 mm clear grey quartz eyes which are often stretched parallel to foliation. Occasional quartz-carbonate vein or veinlet subparallel to foliation. Rock has a distinct banded appearance, bands are generally < 2.0 cm wide and are due to slight

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA08208	114.0	115.0	1.0	3	4	<5	29	<1	43	750
VA08209	115.0	116.0	1.0	3	4	<5	51	<1	39	630
VA08210	116.0	117.0	1.0	4	16	13	1000	<1	36	700
VA08211	117.0	118.0	1.0	5	150	129	3300	1	45	460
VA08212	118.0	119.0	1.0	5	24	226	1300	1	31	590
VA08213	119.0	120.0	1.0	5	6	7	120	<1	42	610
VA08214	120.0	121.0	1.0	5	21	6	110	1	58	840
VA08215	121.0	122.0	1.0	2	9	<5	70	<1	10	1000
VA08216	122.0	123.0	1.0	2	9	<5	95	<1	6	1000
VA08217	123.0	124.0	1.0	2	7	<5	100	<1	17	1100
VA08218	124.0	125.1	1.1	2	5	<5	113	<1	8	1200
VA08219	125.1	126.0	.9	1	129	6	730	<1	6	120
VA08220	126.0	127.1	1.1	1	165	5	760	<1	7	120
VA02862	127.1	157.0	29.9	n/a	26	n/a	17	n/a	n/a	1120
VA08221	127.1	128.0	.9	2	16	<5	105	<1	5	1100
VA08222	128.0	129.0	1.0	2	9	<5	85	<1	5	1400
VA08223	129.0	130.0	1.0	2	16	<5	52	<1	13	1300
VA08224	130.0	131.0	1.0	2	14	<5	56	<1	<5	990
VA08225	131.0	132.0	1.0	2	23	<5	39	<1	8	920
VA08226	132.0	133.0	1.0	2	7	<5	30	<1	9	1100

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-62 Page Number 6

From (m)	To (m)	DESCRIPTION
		differences in chlorite content. In less sericitic places there are up to 15 % < 1 mm feldspar crystals. Lower contact is at 30 degrees to core axis.
		STRUCTURE:.
		At 128.3 m foliation is at 17 degrees to core axis.
		At 139.2 m foliation is at 60 degrees to core axis.
		149.7-151.2 M FAULT ZONE. 1.2 m of lost core. Not possible to measure orientation of the fault.
		151.7-152.0 M FAULT ZONE at 10-20 degrees to core axis.
		153.3-153.9 M FAULT ZONE at 10 degrees to core axis. 0.3 m of lost core.
		163.0 163.3 M slip runs parallel to the core axis.
		At 167.5 m foliation is at 50 degrees to core axis.
		At 178.6 m foliation is at 44 degrees to core axis.
		At 190.7 m foliation is at 43 degrees to core axis.
		At 189.2 m minor slip at 20 degrees to core axis.
		ALTERATION:.
127.1	163.5	MODERATE PERVASIVE SERICITIZATION , MODERATE PERVASIVE SERICITIZATION and weak streaky pale brown biotite (?) alteration. Locally weak pervasive silicification. Moderate quartz-carbonate flooding between 162.5 and 165.3 m. Moderate pale brown biotite (?) appears to be associated with the quartz-carbonate alteration.
163.5	170.0	MODERATE SPOTTY CHLORITIZATION quartz-carbonate veins up to 1.0 cm wide roughly parallel to foliation and moderate streaky pale brown biotite alteration.
170.0	191.3	MODERATE PERVASIVE SERICITIZATION and WEAK SPOTTY CHLORITIZATION.
		SULPHIDES:.
		127.1-141.0 m 1-2% disseminated pyrite.
		141.0-149.0 m 3-4 % pyrite concentrated in < 2 mm chlorite-filled fractures roughly parallel to foliation.
		149.0-191.3 m 1-2% disseminated pyrite.
		Often associated with weak pervasive silicification.
160.2	160.3	Carbonatized chlorite schist (mafic tuff?) at 50 degrees to core axis.
169.6	169.9	Dark green, mafic porphyritic, flow or dyke at 65 degrees to core axis. 20 % dark green anhedral chlorite spots < 2 mm in diameter. Quartz-carbonate filled fractures and gashes throughout. 4.0 Cm chilled margin at the upper contact.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA08227	133.0	134.0	1.0	2	7	<5	38	<1	8	1100
VA08228	134.0	135.0	1.0	2	8	<5	40	<1	<5	1100
VA08229	135.0	136.0	1.0	2	4	<5	42	<1	6	1100
VA08230	136.0	137.0	1.0	2	3	<5	20	<1	16	840
VA08231	137.0	138.0	1.0	2	3	<5	22	<1	14	790
VA08232	138.0	139.0	1.0	2	3	<5	20	<1	14	860
VA08233	139.0	140.0	1.0	2	2	<5	23	<1	11	910
VA08234	140.0	141.0	1.0	2	3	<5	13	<1	20	820
VA08235	141.0	142.0	1.0	4	12	6	30	<1	73	650
VA08236	142.0	143.0	1.0	4	10	<5	33	<1	64	630
VA08237	143.0	144.0	1.0	4	14	7	28	<1	34	720
VA08238	144.0	145.0	1.0	4	11	6	24	<1	18	870
VA08239	145.0	146.0	1.0	4	11	8	34	<1	5	950
VA08240	146.0	147.0	1.0	4	11	12	65	<1	12	700
VA08241	147.0	148.0	1.0	4	9	7	46	<1	5	830
VA08242	148.0	149.0	1.0	4	16	10	42	<1	8	840
VA08243	149.0	150.0	1.0	2	9	7	41	<1	<5	940
VA08244	150.0	152.0	2.0	2	9	6	42	<1	<5	890
VA08245	152.0	153.0	1.0	2	8	<5	32	<1	<5	880
VA08246	153.0	154.0	1.0	2	10	11	30	<1	6	770
VA08247	154.0	155.0	1.0	2	5	6	17	<1	5	830
VA08248	155.0	156.0	1.0	2	7	<5	18	<1	7	820
VA08249	156.0	157.0	1.0	2	6	8	25	<1	27	730
VA08250	157.0	158.0	1.0	2	6	6	24	<1	12	750
VA02863	157.0	191.3	34.3	n/a	53	n/a	54	n/a	n/a	2180
VA08251	158.0	159.0	1.0	2	8	6	24	<1	16	720
VA08252	159.0	160.0	1.0	2	4	5	31	<1	<5	830
VA08253	160.0	161.0	1.0	2	28	8	76	<1	20	870
VA08254	161.0	162.0	1.0	2	4	5	34	<1	<5	810
VA08255	162.0	163.0	1.0	2	17	10	40	<1	<5	820
VA08256	163.0	164.0	1.0	2	11	<5	29	<1	5	710
VA08257	164.0	165.0	1.0	2	7	7	32	<1	19	800
VA08258	165.0	166.0	1.0	2	6	5	41	<1	5	880
VA08259	166.0	167.0	1.0	2	6	6	39	<1	<5	940
VA08260	167.0	168.0	1.0	2	4	<5	44	<1	<5	940
VA08261	168.0	169.0	1.0	2	5	6	42	<1	<5	1200
VA08262	169.0	170.0	1.0	2	6	6	142	<1	6	1100
VA08263	170.0	171.0	1.0	2	10	7	93	<1	7	1100
VA08264	171.0	172.0	1.0	2	9	<5	55	<1	9	1700
VA08265	172.0	173.0	1.0	2	21	6	38	<1	9	2100
VA08266	173.0	174.0	1.0	2	6	<5	44	<1	<5	1300
VA08267	174.0	175.0	1.0	2	9	10	45	<1	5	1200
VA08268	175.0	176.0	1.0	2	8	7	38	<1	11	1300
VA08269	176.0	177.0	1.0	1	6	<5	52	<1	<5	1600
VA08270	177.0	178.0	1.0	2	6	<5	52	<1	6	1900
VA08271	178.0	179.0	1.0	2	25	9	87	<1	16	3100
VA08272	179.0	180.0	1.0	2	32	7	106	1	28	3000
VA08273	180.0	181.0	1.0	2	70	10	113	<1	19	5900
VA08274	181.0	182.0	1.0	2	11	6	46	<1	9	1900
VA08275	182.0	183.0	1.0	2	9	<5	72	<1	5	1700
VA08276	183.0	184.0	1.0	2	6	6	47	<1	5	2000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-62 Page Number 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
			VA08277	184.0	185.0	1.0	2	6	5	45	<1	<5	1500
	170.8 171.8	Dark green,mafic porphyritic flow or dyke at 45 degrees to core axis.	VA08278	185.0	186.0	1.0	2	15	5	43	<1	13	1800
			VA08279	186.0	187.0	1.0	2	15	7	40	<1	<5	2000
			VA08280	187.0	188.0	1.0	2	13	8	47	<1	13	2200
	172.5 183.0	<2 % quartz eyes.	VA08281	188.0	189.0	1.0	2	9	5	35	<1	17	2100
			VA08282	189.0	190.0	1.0	2	18	16	107	1	55	1500
			VA08283	190.0	191.0	1.0	2	32	38	172	1	33	1700
191.3	199.0	CHERTY ARGILLACEOUS SEDIMENTS AND FELSIC TUFFITE											
		Varies from a light grey, felsic tuffite with up to 10 % < 1 mm feldspar crystals to a medium grey volcanic wacke which is felsic to intermediate in composition. Felsic lapilli fragments occur throughout (up to 50 %). Wispy pale yellow-brown sericite (?) occurs in patches up to 0.4 m long. Ripped-up beds and clasts of black argillite occur between..	VA02865	191.3	199.0	7.7	n/a	81	n/a	48	n/a	n/a	1080
			VA08284	191.3	192.8	1.5	1	94	10	172	<1	<5	980
			VA08285	192.8	194.0	1.2	2	73	8	57	<1	5	1200
			VA08286	194.0	195.0	1.0	2	80	13	51	<1	14	960
			VA08287	195.0	196.0	1.0	4	60	6	64	<1	7	1000
			VA08288	196.0	197.0	1.0	4	54	16	60	1	31	950
			VA08289	197.0	198.0	1.0	4	18	16	407	2	117	860
		194.4 and 194.9 m.	VA08290	198.0	199.0	1.0	4	12	7	38	2	77	880
		195.5 and 195.6 m.											
		And occasionally between 196.0 197.0 m.											
		Above 192.8 m it is a weakly to moderately carbonatized (fracture controlled) tuffite. Lower contact is a bedding contact at 45 degrees to core axis.											
		STRUCUTRE:.											
		At 194.5 m foliation is at 40 degrees to core axis.											
		At 198.0 m bedding (?) is at 50 degrees to core axis.											
		ALTERATION:.											
	191.3 199.0	MODERATE SPOTTY SERICITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION. Locally trace apple green mariposite (?).											
		SULPHIDES:.											
		191.3-192.8 M trace disseminated pyrite.											
		192.8-194.4 m 2 % disseminated pyrite.											
		194.4-199.0 m 3-5 % pyrite heavily disseminated in the more argillaceous wacke beds and to a lesser extent in fractures within the fesic tuffite.											
199.0	221.2	CHLORITIC FELSIC LAPILLI TUFF											
		Light grey sericitic felsic tuff with chloritic bands and spots up to 1.0 cm wide with 10-40 % pyrite roughly parallel to foliation which constitute 1-5% of the rock. Up 40 % felsic lapilli. Lapilli are difficult to distinguish from the matrix because they are of the same composition. Nil to 2 % 2-4 mm clear quartz eyes. Lower contact is at 50 degrees to core axis.	VA02864	199.0	221.2	22.2	n/a	20	n/a	34	n/a	n/a	934
			VA08291	199.0	200.0	1.0	4	16	7	55	2	48	810
			VA08292	200.0	201.0	1.0	4	13	<5	51	2	42	730
			VA08293	201.0	202.0	1.0	4	13	<5	51	1	64	800
			VA08294	202.0	203.0	1.0	4	13	<5	63	1	15	860
			VA08295	203.0	204.0	1.0	4	11	<5	42	<1	<5	810
			VA08296	204.0	205.0	1.0	4	25	6	302	1	42	820
			VA08297	205.0	206.0	1.0	4	26	<5	64	1	10	690
		STRUCUTRE:.	VA08298	206.0	207.0	1.0	4	25	<5	73	1	10	590

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 202.9 m banding/bedding is at 48 degrees to core axis.	VA08299	207.0	208.0	1.0	4	6	<5	48	<1	<5	910
		At 210.5 m foliation is at 35 degrees to core axis.	VA08300	208.0	209.0	1.0	4	20	<5	115	<1	<5	1100
		At 215.3 m 1.0 cm fault gouge at 45 degrees to core axis.	VA08301	209.0	210.0	1.0	4	9	<5	66	<1	<5	980
		217.7-218.5 M fault gouge at 55 degrees to core axis. 0.5	VA08302	210.0	211.0	1.0	4	46	<5	115	<1	<5	1100
		m of lost core.	VA08303	211.0	212.0	1.0	4	8	<5	36	<1	<5	920
		218.5-221.2 M rock is crushed and foliation is contorted.	VA08304	212.0	213.2	1.2	4	10	<5	30	<1	<5	950
		At 219.6 m 2.0 cm fault gouge at 60 degrees to core axis.	VA08305	213.2	214.2	1.0	4	77	<5	109	<1	<5	960
		ALTERATION:.	VA08306	214.2	215.7	1.5	4	11	<5	31	<1	<5	1100
		199.0 221.2 MODERATE PERVASIVE SERICITIZATION , WEAK SPOTTY CHLORITIZATION and locally moderate wispy pale to bright orange-brown sericite (does not look like biotite here). 5 % pinhead-sized chlorite spots between 214.2 and 215.1 m.	VA08307	216.3	217.0	.7	4	12	<5	44	<1	<5	1000
			VA08308	217.0	218.0	1.0	4	9	<5	30	<1	<5	950
			VA08309	218.0	219.0	1.0	4	6	<5	24	<1	<5	980
			VA08310	219.0	220.0	1.0	4	13	<5	27	<1	<5	900
			VA08311	220.0	221.2	1.2	4	16	<5	31	<1	<5	870
		SULPHIDES:.											
		199.0-221.2 m 3-4% pyrite, disseminated and in chloritic bands < 2.0 cm wide parallel to foliation which are particularly prevalent between 201.5 and 203.0 m.											
		206.0 206.7 Light grey felsic tuffite with 5 % pyrite.											
		208.8 208.9 Medium brown altered mudstone bed at 55 degrees to core axis.											
		210.1 210.4 Medium brown altered mudstone bed at 50 degrees to core axis.											
		213.2 214.2 Medium brown to green volcanic wacke with 2 % 2-5 mm rounded cherty felsic clasts. .											
		215.6 216.3 Medium green, fine-grained, massive chloritic mafic dyke at 40 degrees to core axis.											
221.2	222.6	BLACK ARGILLITE											
		Black, weakly graphitic argillite with 4-5% fracture controlled pyrite associated with weak fracture controlled carbonate alteration. Rock is crushed, broken and blocky throughout and foliation is contorted. Lower contact is at 40 degrees to core axis.	VA08312	221.2	222.6	1.4	5	80	<5	197	1	34	1200
		STRUCTURE:.											
		221.3-222.0 M FAULT ZONE at 10 degrees to core axis. 0.3 m of lost core.											
222.6	224.2	FELSIC QUARTZ EYE TUFF											
		Light grey, sericitic felsic tuff with 2-5% 2 to 4 mm, clear quartz eyes. Streaks of pale brown sericite/biotite are common. 2-3% pyrite disseminated and in chloritic bands < 2 mm wide parallel to foliation. Lower contact is	VA08313	222.6	224.2	1.6	3	20	<5	61	<1	20	830

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	
		a slip at 55 degrees to core axis.											
224.2	228.1	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Dark grey to weakly graphitic argillite and cherty siltstones/tuffite. Generally quite massive, bedding is rarely recognizable. 2-3% Pyrite smeared along foliation planes. Rock is broken and blocky throughout. Broken core at the lower contact. STRUCUTRE:. At 226.5 m foliation is at 63 degrees to core axis.	VA08314	224.2	225.0	.8	3	65	<5	85	<1	9	49
			VA08315	225.0	226.0	1.0	3	42	<5	56	<1	<5	100
			VA08316	226.0	227.0	1.0	3	81	<5	55	<1	<5	83
			VA08317	227.0	228.1	1.1	3	53	<5	230	<1	<5	55
228.1	229.1	FELSIC TUFF Light grey, well foliated, sericitic felsic tuff. Foliation is wavey throughout. Moderate streaky pale brown sericite/biotite alteration. Broken core at the lower contact. 228.5 228.6 Finely banded (bedded?) cherty, argillaceous tuffites. Bedding is at 38 degrees to core axis.	VA08318	228.1	229.1	1.0	3	23	<5	42	<1	<5	89
229.1	237.7	CHERTY ARGILLACEOUS SEDIMENTS AND FELSIC TUFFITE Medium grey, cherty siliceous volcanic wacke/tuffite (90%) intercalated with fine beds and rip-up clasts of black argillite (10%). 4-5% Disseminated and fracture controlled pyrite. STRUCUTRE:. Core is broken and blocky throughout. At 233.1 bedding is at 45 degrees to core axis.	VA08319	229.1	230.0	.9	5	74	<5	63	<1	<5	66
			VA08322	230.0	231.0	1.0	5	66	<5	76	<1	<5	47
			VA08320	231.0	232.0	1.0	5	58	<5	74	<1	<5	27
			VA08321	232.0	233.0	1.0	5	63	<5	75	<1	<5	47
			VA08323	233.0	234.0	1.0	5	76	<5	72	<1	<5	42
			VA08324	234.0	235.0	1.0	5	71	<5	57	<1	<5	63
			VA08325	235.0	236.0	1.0	5	76	<5	88	<1	<5	140
			VA08326	236.0	237.0	1.0	5	61	<5	152	<1	<5	100
			VA08327	237.0	237.7	.7	5	53	<5	408	<1	6	60

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02422	29.00	29.60	78.50	13.90	0.32	0.23	0.27	2.93	1.16	0.17	0.04	<0.01	2.31	99.83	1030.	84.	1.
VA02423	46.30	46.70	79.70	10.50	0.70	0.33	0.15	2.45	2.03	0.15	0.04	0.03	2.31	98.39	1330.	77.	1.
VA02424	65.00	65.50	77.40	13.00	0.75	0.53	0.15	3.08	1.13	0.19	0.04	0.04	2.16	98.47	2090.	80.	1.
VA02425	82.30	82.60	70.80	15.00	2.21	1.02	0.33	3.19	2.37	0.27	0.07	0.07	3.70	99.03	1240.	62.	3.
VA02426	101.10	101.50	73.80	12.70	2.06	1.24	0.19	3.02	1.60	0.18	0.04	0.10	4.77	99.70	938.	65.	2.
VA02427	122.30	122.60	70.80	13.40	3.08	1.65	0.14	3.01	2.27	0.24	0.06	0.11	4.47	99.23	1150.	59.	3.
VA02428	125.60	126.00	44.50	11.80	11.10	6.26	<0.01	0.25	12.10	1.77	0.15	0.22	11.20	99.35	106.	37.	11.
VA02429	138.50	138.80	73.90	12.90	1.93	1.19	0.15	3.06	1.57	0.19	0.04	0.09	4.00	99.02	978.	67.	2.
VA02430	158.50	158.90	72.90	13.40	2.28	1.25	0.20	3.10	1.52	0.19	0.04	0.10	3.85	98.83	918.	64.	2.
VA02431	177.10	177.50	74.00	11.60	2.20	1.35	0.05	2.97	2.15	0.22	0.06	0.17	3.77	98.54	1650.	66.	2.
VA02432	205.30	205.60	65.50	13.90	4.96	2.02	0.28	1.93	5.12	0.37	0.12	0.37	4.85	99.42	640.	43.	5.
VA02433	212.40	212.70	70.20	13.70	3.91	1.60	0.28	2.37	2.17	0.18	0.05	0.14	5.31	99.91	1110.	49.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02857	6.40	17.40	64.80	14.70	4.28	1.70	0.96	2.33	4.00	0.42			6.23	99.42	1790.	43.	5.
VA02858	24.20	37.20	79.10	13.50	0.23	0.17	0.26	2.77	1.45	0.17			2.54	100.19	1020.	86.	0.
VA02859	41.80	71.00	76.00	12.40	1.64	0.82	0.21	2.82	2.33	0.21			2.62	99.05	1710.	66.	2.
VA02860	71.00	101.00	71.70	12.90	2.64	1.39	0.31	2.84	2.39	0.24			3.93	98.34	1220.	59.	3.
VA02861	101.00	125.10	73.00	13.00	2.33	1.34	0.16	3.13	2.11	0.20			3.70	98.97	965.	64.	2.
VA02862	127.10	157.00	71.10	13.60	2.51	1.49	0.20	3.02	2.50	0.24			4.08	98.74	1120.	62.	3.
VA02863	157.00	191.30	69.80	13.80	2.93	1.46	0.21	3.39	2.60	0.24			4.39	98.82	2180.	61.	3.
VA02865	191.30	199.00	53.40	14.80	6.93	3.45	0.47	2.52	6.81	0.49			8.77	97.64	1080.	45.	7.
VA02864	199.00	221.20	70.80	13.50	2.82	1.38	0.28	2.39	3.13	0.24			4.16	98.70	934.	55.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08113	17.40	18.40	1900.0	48.0	110.0	<0.5	10.0	11.0	19.0	6.0	28.0	<1.0	2.0	1300.0	30.	4.	3.
VA08114	18.40	19.00	1900.0	47.0	108.0	<0.5	<5.0	10.0	14.0	<5.0	21.0	<1.0	2.0	1000.0	30.	4.	2.
VA08115	19.00	20.00	1500.0	55.0	80.0	<0.5	5.0	5.0	16.0	5.0	26.0	<1.0	3.0	1100.0	41.	4.	2.
VA08116	20.00	21.00	1200.0	52.0	80.0	<0.5	7.0	9.0	14.0	<5.0	10.0	<1.0	2.0	915.0	39.	4.	3.
VA08117	21.00	22.00	700.0	74.0	98.0	<0.5	<5.0	9.0	17.0	5.0	13.0	<1.0	1.0	1200.0	43.	4.	3.
VA08118	22.00	23.00	1300.0	47.0	128.0	<0.5	<5.0	14.0	21.0	<5.0	14.0	<1.0	2.0	835.0	27.	4.	5.
VA08119	23.00	24.20	1400.0	61.0	136.0	<0.5	10.0	14.0	24.0	5.0	37.0	<1.0	2.0	1200.0	31.	4.	5.
VA08120	24.20	26.00	1100.0	6.0	10.0	<0.5	5.0	3.0	5.0	<5.0	28.0	<1.0	3.0	35.0	38.	4.	1.
VA08121	26.00	27.00	770.0	2.0	3.0	<0.5	5.0	3.0	4.0	<5.0	15.0	<1.0	1.0	15.0	40.	4.	1.
VA08122	27.00	28.00	770.0	4.0	3.0	<0.5	10.0	3.0	4.0	6.0	20.0	<1.0	2.0	18.0	57.	4.	2.
VA08123	28.00	29.00	790.0	3.0	3.0	<0.5	6.0	4.0	3.0	7.0	22.0	<1.0	1.0	15.0	50.	4.	2.
VA08124	29.00	30.00	910.0	3.0	10.0	<0.5	<5.0	4.0	3.0	<5.0	13.0	<1.0	1.0	143.0	23.	4.	1.
VA08125	30.00	31.00	1100.0	20.0	90.0	<0.5	<5.0	12.0	6.0	<5.0	22.0	<1.0	2.0	390.0	18.	4.	3.
VA08126	31.00	32.00	950.0	4.0	15.0	<0.5	<5.0	3.0	4.0	<5.0	33.0	<1.0	1.0	235.0	21.	4.	1.
VA08127	32.00	33.00	970.0	2.0	5.0	<0.5	5.0	1.0	3.0	<5.0	17.0	<1.0	1.0	19.0	29.	4.	1.
VA08128	33.00	34.00	770.0	3.0	10.0	<0.5	12.0	2.0	4.0	5.0	30.0	<1.0	1.0	40.0	23.	4.	1.
VA08129	34.00	34.40	740.0	80.0	680.0	<0.5	9.0	2.0	5.0	50.0	20.0	4.0	2.0	400.0	11.	4.	1.
VA08130	34.40	34.60	1100.0	95.0	1200.0	0.8	53.0	15.0	26.0	74.0	160.0	6.0	5.0	22.0	7.	8.	5.
VA08131	34.60	35.60	880.0	39.0	800.0	<0.5	62.0	12.0	20.0	54.0	150.0	4.0	4.0	210.0	5.	8.	3.
VA08132	35.60	36.50	1100.0	8.0	68.0	<0.5	6.0	4.0	9.0	9.0	31.0	<1.0	2.0	320.0	11.	4.	1.
VA08133	36.50	37.20	1400.0	19.0	158.0	<0.5	7.0	5.0	5.0	9.0	20.0	<1.0	2.0	645.0	11.	4.	2.
VA08134	37.20	40.00	720.0	45.0	900.0	<0.5	122.0	7.0	18.0	40.0	210.0	4.0	3.0	215.0	5.	5.	2.
VA08135	40.00	41.80	1400.0	79.0	152.0	<0.5	22.0	19.0	14.0	7.0	57.0	<1.0	2.0	415.0	34.	5.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08136	41.80	43.00	1100.0	5.0	20.0	<0.5	6.0	1.0	5.0	<5.0	10.0	<1.0	3.0	100.0	20.	2.	1.
VA08137	43.00	44.50	890.0	26.0	250.0	<0.5	<5.0	29.0	163.0	<5.0	11.0	<1.0	6.0	1400.0	9.	5.	4.
VA08138	44.50	45.00	1400.0	5.0	12.0	<0.5	10.0	4.0	4.0	<5.0	<5.0	<1.0	2.0	30.0	29.	3.	1.
VA08139	45.00	46.00	1400.0	7.0	40.0	<0.5	18.0	4.0	5.0	<5.0	7.0	<1.0	3.0	38.0	15.	3.	1.
VA08140	46.00	47.00	1300.0	3.0	22.0	<0.5	7.0	3.0	3.0	<5.0	5.0	<1.0	2.0	60.0	12.	3.	1.
VA08141	47.00	48.00	1400.0	2.0	42.0	<0.5	5.0	3.0	3.0	<5.0	<5.0	<1.0	2.0	130.0	5.	3.	1.
VA08142	48.00	49.00	1600.0	16.0	340.0	<0.5	6.0	8.0	6.0	<5.0	<5.0	<1.0	2.0	375.0	4.	3.	3.
VA08143	49.00	50.00	1400.0	3.0	36.0	<0.5	6.0	4.0	4.0	<5.0	5.0	<1.0	3.0	645.0	8.	3.	1.
VA08144	50.00	51.00	1400.0	3.0	55.0	<0.5	6.0	7.0	5.0	<5.0	<5.0	<1.0	3.0	520.0	5.	3.	1.
VA08145	51.00	53.00	1400.0	6.0	200.0	<0.5	5.0	10.0	7.0	<5.0	5.0	<1.0	2.0	490.0	3.	3.	3.
VA08146	53.00	54.00	1600.0	4.0	70.0	<0.5	<5.0	7.0	5.0	<5.0	<5.0	<1.0	2.0	500.0	5.	3.	1.
VA08147	54.00	55.00	1700.0	20.0	180.0	<0.5	7.0	8.0	6.0	<5.0	6.0	<1.0	2.0	320.0	10.	3.	2.
VA08148	55.00	56.00	1400.0	21.0	100.0	1.9	39.0	6.0	5.0	<5.0	6.0	<1.0	2.0	320.0	17.	3.	2.
VA08149	56.00	57.00	1900.0	16.0	82.0	<0.5	12.0	6.0	4.0	<5.0	9.0	<1.0	2.0	240.0	16.	3.	1.
VA08150	57.00	58.00	2400.0	45.0	342.0	<0.5	12.0	8.0	6.0	<5.0	9.0	<1.0	2.0	770.0	12.	3.	3.
VA08151	58.00	59.00	2800.0	5.0	48.0	<0.5	16.0	3.0	4.0	<5.0	5.0	<1.0	3.0	415.0	9.	3.	2.
VA08152	59.00	60.00	2300.0	204.0	40.0	<0.5	20.0	4.0	5.0	<5.0	13.0	<1.0	4.0	740.0	84.	3.	1.
VA08153	60.00	61.00	1700.0	938.0	52.0	2.0	22.0	3.0	4.0	<5.0	75.0	<1.0	4.0	420.0	95.	3.	1.
VA08154	61.00	62.00	1200.0	5.0	30.0	<0.5	14.0	3.0	4.0	<5.0	5.0	<1.0	3.0	340.0	14.	3.	1.
VA08155	62.00	63.00	1400.0	9.0	40.0	<0.5	24.0	4.0	5.0	<5.0	<5.0	<1.0	4.0	770.0	18.	3.	1.
VA08156	63.00	64.00	1700.0	5.0	60.0	<0.5	16.0	6.0	5.0	<5.0	8.0	<1.0	4.0	390.0	8.	3.	2.
VA08157	64.00	65.00	1700.0	15.0	85.0	<0.5	24.0	4.0	5.0	<5.0	<5.0	<1.0	3.0	690.0	15.	3.	1.
VA08158	65.00	66.00	1900.0	2.0	20.0	<0.5	14.0	2.0	3.0	<5.0	5.0	<1.0	2.0	135.0	9.	3.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08159	66.00	67.00	1700.0	5.0	30.0	<0.5	13.0	3.0	4.0	<5.0	<5.0	<1.0	3.0	370.0	14.	3.	1.
VA08160	67.00	68.00	1500.0	2.0	20.0	<0.5	12.0	3.0	3.0	<5.0	<5.0	<1.0	3.0	320.0	9.	3.	1.
VA08161	68.00	69.00	1700.0	7.0	13.0	<0.5	14.0	5.0	4.0	<5.0	5.0	<1.0	1.0	200.0	35.	3.	1.
VA08162	69.00	70.00	1700.0	5.0	30.0	<0.5	10.0	5.0	4.0	<5.0	<5.0	<1.0	1.0	740.0	14.	3.	1.
VA08163	70.00	71.00	1400.0	18.0	48.0	<0.5	13.0	5.0	5.0	<5.0	10.0	<1.0	3.0	840.0	27.	5.	2.
VA08164	71.00	72.00	1600.0	5.0	21.0	<0.5	13.0	4.0	4.0	<5.0	<5.0	<1.0	3.0	205.0	19.	5.	1.
VA08165	72.00	73.00	1400.0	17.0	38.0	<0.5	<5.0	4.0	4.0	<5.0	8.0	<1.0	2.0	695.0	31.	5.	1.
VA08166	73.00	74.00	1300.0	5.0	53.0	<0.5	10.0	3.0	4.0	<5.0	9.0	<1.0	3.0	690.0	9.	5.	2.
VA08167	74.00	75.00	1100.0	20.0	80.0	0.8	65.0	4.0	5.0	5.0	24.0	<1.0	3.0	510.0	20.	8.	3.
VA08168	75.00	76.00	970.0	15.0	31.0	0.5	33.0	4.0	4.0	<5.0	19.0	<1.0	3.0	550.0	33.	5.	2.
VA08169	76.00	77.00	910.0	11.0	31.0	0.6	41.0	2.0	4.0	<5.0	13.0	<1.0	3.0	530.0	26.	5.	2.
VA08170	77.00	77.50	900.0	6.0	40.0	0.6	47.0	2.0	4.0	<5.0	12.0	<1.0	2.0	560.0	13.	5.	1.
VA08171	77.50	78.00	960.0	42.0	148.0	1.8	231.0	16.0	14.0	6.0	52.0	<1.0	4.0	415.0	22.	8.	4.
VA08172	78.00	79.00	870.0	16.0	130.0	1.0	98.0	5.0	6.0	<5.0	21.0	1.0	4.0	205.0	11.	3.	2.
VA08173	79.00	80.00	990.0	45.0	40.0	<0.5	35.0	4.0	6.0	<5.0	18.0	<1.0	2.0	775.0	53.	3.	2.
VA08174	80.00	81.00	1000.0	48.0	46.0	<0.5	25.0	12.0	18.0	<5.0	17.0	<1.0	2.0	660.0	51.	3.	2.
VA08175	81.00	82.00	930.0	13.0	26.0	<0.5	51.0	3.0	5.0	<5.0	11.0	<1.0	2.0	690.0	33.	3.	1.
VA08176	82.00	83.00	1000.0	18.0	65.0	<0.5	17.0	5.0	8.0	<5.0	9.0	<1.0	3.0	710.0	22.	3.	1.
VA08177	83.00	84.00	1200.0	14.0	78.0	<0.5	9.0	8.0	11.0	<5.0	6.0	<1.0	3.0	620.0	15.	3.	2.
VA08178	84.00	85.00	1300.0	13.0	26.0	<0.5	93.0	4.0	5.0	<5.0	7.0	<1.0	4.0	640.0	33.	3.	1.
VA08179	85.00	86.00	1200.0	6.0	25.0	<0.5	8.0	2.0	4.0	<5.0	5.0	<1.0	2.0	495.0	19.	3.	1.
VA08180	86.00	87.00	1100.0	12.0	41.0	<0.5	<5.0	6.0	12.0	<5.0	<5.0	<1.0	2.0	580.0	23.	3.	2.
VA08181	87.00	88.00	1100.0	12.0	60.0	<0.5	<5.0	9.0	15.0	<5.0	6.0	<1.0	3.0	585.0	17.	3.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08182	88.00	89.00	1100.0	6.0	48.0	<0.5	<5.0	6.0	5.0	<5.0	5.0	<1.0	2.0	775.0	11.	3.	1.
VA08183	89.00	90.00	1100.0	10.0	34.0	<0.5	7.0	5.0	5.0	<5.0	<5.0	<1.0	2.0	505.0	23.	3.	1.
VA08184	90.00	91.00	1200.0	9.0	38.0	<0.5	9.0	3.0	4.0	<5.0	<5.0	<1.0	2.0	520.0	19.	3.	1.
VA08185	91.00	92.00	1200.0	7.0	42.0	<0.5	<5.0	3.0	5.0	<5.0	5.0	<1.0	3.0	590.0	14.	3.	1.
VA08186	92.00	93.00	1600.0	13.0	75.0	<0.5	9.0	6.0	9.0	<5.0	<5.0	<1.0	2.0	550.0	15.	3.	1.
VA08187	93.00	94.00	1400.0	5.0	50.0	<0.5	8.0	4.0	5.0	<5.0	<5.0	<1.0	2.0	520.0	9.	3.	1.
VA08188	94.00	95.00	1100.0	6.0	48.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	2.0	650.0	11.	3.	1.
VA08189	95.00	96.00	1000.0	4.0	55.0	<0.5	<5.0	5.0	6.0	<5.0	<5.0	<1.0	2.0	890.0	7.	3.	1.
VA08190	96.00	97.00	990.0	4.0	43.0	<0.5	<5.0	4.0	5.0	<5.0	<5.0	<1.0	1.0	740.0	9.	3.	1.
VA08191	97.00	98.00	1100.0	6.0	26.0	<0.5	<5.0	3.0	4.0	<5.0	<5.0	<1.0	2.0	540.0	19.	3.	1.
VA08192	98.00	99.00	1000.0	6.0	15.0	<0.5	6.0	2.0	4.0	<5.0	<5.0	<1.0	2.0	580.0	29.	3.	1.
VA08193	99.00	100.00	910.0	5.0	20.0	<0.5	16.0	3.0	4.0	<5.0	6.0	<1.0	2.0	860.0	20.	3.	1.
VA08194	100.00	101.00	800.0	4.0	20.0	<0.5	29.0	3.0	5.0	<5.0	11.0	<1.0	2.0	1000.0	17.	3.	1.
VA08195	101.00	102.00	820.0	9.0	20.0	<0.5	13.0	2.0	4.0	<5.0	8.0	<1.0	2.0	850.0	31.	3.	1.
VA08196	102.00	103.00	800.0	6.0	31.0	<0.5	9.0	4.0	7.0	<5.0	12.0	<1.0	2.0	580.0	16.	3.	1.
VA08197	103.00	104.00	800.0	6.0	35.0	<0.5	13.0	5.0	30.0	<5.0	15.0	<1.0	2.0	800.0	15.	3.	1.
VA08198	104.00	105.00	840.0	3.0	18.0	<0.5	12.0	2.0	4.0	<5.0	5.0	<1.0	2.0	860.0	14.	3.	1.
VA08199	105.00	106.00	830.0	3.0	13.0	<0.5	20.0	2.0	4.0	<5.0	11.0	<1.0	2.0	695.0	19.	3.	1.
VA08200	106.00	107.00	900.0	4.0	13.0	<0.5	23.0	3.0	4.0	<5.0	10.0	<1.0	2.0	430.0	24.	3.	1.
VA08201	107.00	108.00	850.0	2.0	12.0	<0.5	17.0	3.0	4.0	<5.0	7.0	<1.0	2.0	735.0	14.	3.	1.
VA08202	108.00	109.00	1000.0	3.0	13.0	<0.5	33.0	3.0	4.0	<5.0	8.0	<1.0	2.0	830.0	19.	3.	1.
VA08203	109.00	110.00	900.0	3.0	12.0	<0.5	21.0	2.0	4.0	<5.0	7.0	<1.0	2.0	570.0	20.	3.	1.
VA08204	110.00	111.00	960.0	3.0	12.0	<0.5	10.0	3.0	3.0	<5.0	6.0	<1.0	2.0	500.0	20.	3.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08205	111.00	112.00	780.0	3.0	12.0	<0.5	28.0	2.0	5.0	<5.0	11.0	<1.0	2.0	1000.0	20.	3.	1.
VA08206	112.00	113.00	830.0	4.0	13.0	<0.5	22.0	2.0	4.0	<5.0	10.0	<1.0	2.0	815.0	24.	3.	1.
VA08207	113.00	114.00	830.0	3.0	20.0	<0.5	24.0	3.0	4.0	<5.0	10.0	<1.0	1.0	550.0	13.	3.	1.
VA08208	114.00	115.00	750.0	4.0	29.0	<0.5	43.0	2.0	4.0	<5.0	16.0	<1.0	1.0	590.0	12.	3.	1.
VA08209	115.00	116.00	630.0	4.0	51.0	<0.5	39.0	2.0	5.0	<5.0	10.0	<1.0	1.0	910.0	7.	3.	1.
VA08210	116.00	117.00	700.0	16.0	1000.0	<0.5	36.0	4.0	5.0	13.0	13.0	9.0	2.0	1300.0	2.	4.	1.
VA08211	117.00	118.00	460.0	150.0	3300.0	0.9	45.0	2.0	6.0	129.0	55.0	27.0	5.0	1200.0	4.	5.	2.
VA08212	118.00	119.00	590.0	24.0	1300.0	0.6	31.0	1.0	3.0	226.0	22.0	11.0	3.0	1100.0	2.	5.	2.
VA08213	119.00	120.00	610.0	6.0	120.0	<0.5	42.0	1.0	4.0	7.0	15.0	<1.0	2.0	1100.0	5.	5.	1.
VA08214	120.00	121.00	840.0	21.0	110.0	0.9	58.0	2.0	5.0	6.0	17.0	<1.0	6.0	640.0	16.	5.	2.
VA08215	121.00	122.00	1000.0	9.0	70.0	<0.5	10.0	2.0	4.0	<5.0	8.0	<1.0	1.0	570.0	11.	2.	1.
VA08216	122.00	123.00	1000.0	9.0	95.0	<0.5	6.0	3.0	4.0	<5.0	<5.0	<1.0	1.0	750.0	9.	2.	1.
VA08217	123.00	124.00	1100.0	7.0	100.0	<0.5	17.0	2.0	5.0	<5.0	5.0	<1.0	1.0	550.0	7.	2.	1.
VA08218	124.00	125.10	1200.0	5.0	113.0	<0.5	8.0	4.0	4.0	<5.0	<5.0	<1.0	2.0	450.0	4.	2.	1.
VA08219	125.10	126.00	120.0	129.0	730.0	<0.5	6.0	33.0	81.0	6.0	<5.0	<1.0	2.0	1200.0	15.	1.	7.
VA08220	126.00	127.10	120.0	165.0	760.0	<0.5	7.0	28.0	83.0	5.0	9.0	<1.0	2.0	1200.0	18.	1.	7.
VA08221	127.10	128.00	1100.0	16.0	105.0	<0.5	5.0	4.0	7.0	<5.0	5.0	<1.0	1.0	840.0	13.	2.	1.
VA08222	128.00	129.00	1400.0	9.0	85.0	<0.5	5.0	4.0	6.0	<5.0	5.0	<1.0	1.0	640.0	10.	2.	1.
VA08223	129.00	130.00	1300.0	16.0	52.0	<0.5	13.0	3.0	5.0	<5.0	6.0	<1.0	1.0	520.0	24.	2.	1.
VA08224	130.00	131.00	990.0	14.0	56.0	<0.5	<5.0	2.0	5.0	<5.0	5.0	<1.0	3.0	750.0	20.	2.	1.
VA08225	131.00	132.00	920.0	23.0	39.0	<0.5	8.0	3.0	5.0	<5.0	<5.0	<1.0	1.0	650.0	37.	2.	1.
VA08226	132.00	133.00	1100.0	7.0	30.0	<0.5	9.0	2.0	4.0	<5.0	10.0	<1.0	6.0	450.0	19.	2.	1.
VA08227	133.00	134.00	1100.0	7.0	38.0	<0.5	8.0	4.0	5.0	<5.0	<5.0	<1.0	2.0	570.0	16.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08228	134.00	135.00	1100.0	8.0	40.0	<0.5	<5.0	3.0	4.0	<5.0	<5.0	<1.0	2.0	660.0	17.	2.	1.
VA08229	135.00	136.00	1100.0	4.0	42.0	<0.5	6.0	2.0	5.0	<5.0	8.0	<1.0	4.0	730.0	9.	2.	1.
VA08230	136.00	137.00	840.0	3.0	20.0	<0.5	16.0	2.0	4.0	<5.0	6.0	<1.0	3.0	750.0	13.	2.	1.
VA08231	137.00	138.00	790.0	3.0	22.0	<0.5	14.0	2.0	5.0	<5.0	5.0	<1.0	3.0	935.0	12.	2.	1.
VA08232	138.00	139.00	860.0	3.0	20.0	<0.5	14.0	2.0	4.0	<5.0	5.0	<1.0	4.0	670.0	13.	2.	1.
VA08233	139.00	140.00	910.0	2.0	23.0	<0.5	11.0	2.0	3.0	<5.0	5.0	<1.0	3.0	390.0	8.	2.	1.
VA08234	140.00	141.00	820.0	3.0	13.0	<0.5	20.0	<1.0	4.0	<5.0	11.0	<1.0	4.0	590.0	19.	2.	1.
VA08235	141.00	142.00	650.0	12.0	30.0	<0.5	73.0	2.0	4.0	6.0	32.0	<1.0	7.0	1560.0	29.	4.	2.
VA08236	142.00	143.00	630.0	10.0	33.0	<0.5	64.0	2.0	3.0	<5.0	24.0	<1.0	9.0	1680.0	23.	4.	2.
VA08237	143.00	144.00	720.0	14.0	28.0	<0.5	34.0	3.0	3.0	7.0	24.0	<1.0	6.0	940.0	33.	4.	2.
VA08238	144.00	145.00	870.0	11.0	24.0	<0.5	18.0	3.0	3.0	6.0	15.0	<1.0	3.0	765.0	31.	4.	2.
VA08239	145.00	146.00	950.0	11.0	34.0	<0.5	5.0	3.0	3.0	8.0	6.0	<1.0	4.0	710.0	24.	4.	1.
VA08240	146.00	147.00	700.0	11.0	65.0	<0.5	12.0	2.0	4.0	12.0	21.0	<1.0	6.0	970.0	14.	4.	2.
VA08241	147.00	148.00	830.0	9.0	46.0	<0.5	5.0	2.0	3.0	7.0	14.0	<1.0	4.0	880.0	16.	4.	2.
VA08242	148.00	149.00	840.0	16.0	42.0	<0.5	8.0	2.0	4.0	10.0	20.0	<1.0	4.0	960.0	28.	4.	2.
VA08243	149.00	150.00	940.0	9.0	41.0	<0.5	<5.0	3.0	3.0	7.0	<5.0	<1.0	4.0	530.0	18.	2.	1.
VA08244	150.00	152.00	890.0	9.0	42.0	<0.5	<5.0	2.0	3.0	6.0	5.0	<1.0	4.0	715.0	18.	2.	2.
VA08245	152.00	153.00	880.0	8.0	32.0	<0.5	<5.0	3.0	3.0	<5.0	6.0	<1.0	3.0	615.0	20.	2.	1.
VA08246	153.00	154.00	770.0	10.0	30.0	<0.5	6.0	3.0	4.0	11.0	28.0	<1.0	4.0	740.0	25.	2.	1.
VA08247	154.00	155.00	830.0	5.0	17.0	<0.5	5.0	2.0	3.0	6.0	16.0	<1.0	4.0	740.0	23.	2.	1.
VA08248	155.00	156.00	820.0	7.0	18.0	<0.5	7.0	1.0	3.0	<5.0	12.0	<1.0	4.0	550.0	28.	2.	1.
VA08249	156.00	157.00	730.0	6.0	25.0	<0.5	27.0	2.0	4.0	8.0	11.0	<1.0	4.0	810.0	19.	2.	2.
VA08250	157.00	158.00	750.0	6.0	24.0	<0.5	12.0	2.0	4.0	6.0	9.0	<1.0	3.0	900.0	20.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08251	158.00	159.00	720.0	8.0	24.0	<0.5	16.0	2.0	4.0	6.0	10.0	<1.0	4.0	930.0	25.	2.	2.
VA08252	159.00	160.00	830.0	4.0	31.0	<0.5	<5.0	2.0	3.0	5.0	<5.0	<1.0	4.0	570.0	11.	2.	1.
VA08253	160.00	161.00	870.0	28.0	76.0	<0.5	20.0	9.0	15.0	8.0	7.0	<1.0	3.0	855.0	27.	2.	2.
VA08254	161.00	162.00	810.0	4.0	34.0	<0.5	<5.0	3.0	3.0	5.0	<5.0	<1.0	3.0	590.0	11.	2.	1.
VA08255	162.00	163.00	820.0	17.0	40.0	<0.5	<5.0	5.0	7.0	10.0	11.0	<1.0	4.0	750.0	30.	2.	2.
VA08256	163.00	164.00	710.0	11.0	29.0	<0.5	5.0	3.0	5.0	<5.0	9.0	<1.0	6.0	600.0	28.	2.	2.
VA08257	164.00	165.00	800.0	7.0	32.0	<0.5	19.0	3.0	4.0	7.0	11.0	<1.0	5.0	1200.0	18.	2.	2.
VA08258	165.00	166.00	880.0	6.0	41.0	<0.5	5.0	3.0	4.0	5.0	15.0	<1.0	3.0	840.0	13.	2.	2.
VA08259	166.00	167.00	940.0	6.0	39.0	<0.5	<5.0	4.0	4.0	6.0	6.0	<1.0	4.0	770.0	13.	2.	2.
VA08260	167.00	168.00	940.0	4.0	44.0	<0.5	<5.0	3.0	3.0	<5.0	5.0	<1.0	3.0	920.0	8.	2.	1.
VA08261	168.00	169.00	1200.0	5.0	42.0	<0.5	<5.0	3.0	3.0	6.0	<5.0	<1.0	4.0	960.0	11.	2.	1.
VA08262	169.00	170.00	1100.0	6.0	142.0	<0.5	6.0	5.0	4.0	6.0	6.0	<1.0	4.0	1200.0	4.	2.	3.
VA08263	170.00	171.00	1100.0	10.0	93.0	<0.5	7.0	5.0	3.0	7.0	6.0	<1.0	4.0	1440.0	10.	2.	3.
VA08264	171.00	172.00	1700.0	9.0	55.0	<0.5	9.0	3.0	3.0	<5.0	9.0	<1.0	3.0	1200.0	14.	2.	2.
VA08265	172.00	173.00	2100.0	21.0	38.0	<0.5	9.0	3.0	3.0	6.0	10.0	<1.0	3.0	1200.0	36.	2.	1.
VA08266	173.00	174.00	1300.0	6.0	44.0	<0.5	<5.0	3.0	2.0	<5.0	<5.0	<1.0	3.0	765.0	12.	2.	1.
VA08267	174.00	175.00	1200.0	9.0	45.0	<0.5	5.0	3.0	3.0	10.0	5.0	<1.0	4.0	1320.0	17.	2.	2.
VA08268	175.00	176.00	1300.0	8.0	38.0	<0.5	11.0	3.0	3.0	7.0	7.0	<1.0	3.0	1260.0	17.	2.	2.
VA08269	176.00	177.00	1600.0	6.0	52.0	<0.5	<5.0	2.0	3.0	<5.0	7.0	<1.0	4.0	1320.0	10.	1.	2.
VA08270	177.00	178.00	1900.0	6.0	52.0	<0.5	6.0	3.0	3.0	<5.0	7.0	<1.0	2.0	935.0	10.	2.	1.
VA08271	178.00	179.00	3100.0	25.0	87.0	<0.5	16.0	3.0	3.0	9.0	8.0	<1.0	5.0	1440.0	22.	2.	2.
VA08272	179.00	180.00	3000.0	32.0	106.0	0.6	28.0	2.0	2.0	7.0	14.0	<1.0	3.0	1560.0	23.	2.	1.
VA08273	180.00	181.00	5900.0	70.0	113.0	<0.5	19.0	3.0	3.0	10.0	21.0	<1.0	3.0	950.0	38.	2.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA08274	181.00	182.00	1900.0	11.0	46.0	<0.5	9.0	3.0	3.0	6.0	13.0	<1.0	2.0	1300.0	19.	2.	1.
VA08275	182.00	183.00	1700.0	9.0	72.0	<0.5	5.0	2.0	3.0	<5.0	<5.0	<1.0	3.0	895.0	11.	2.	1.
VA08276	183.00	184.00	2000.0	6.0	47.0	<0.5	5.0	2.0	2.0	6.0	6.0	<1.0	2.0	890.0	11.	2.	1.
VA08277	184.00	185.00	1500.0	6.0	45.0	<0.5	<5.0	1.0	2.0	5.0	10.0	<1.0	3.0	730.0	12.	2.	1.
VA08278	185.00	186.00	1800.0	15.0	43.0	<0.5	13.0	2.0	2.0	5.0	9.0	<1.0	3.0	1100.0	26.	2.	2.
VA08279	186.00	187.00	2000.0	15.0	40.0	<0.5	<5.0	2.0	2.0	7.0	10.0	<1.0	3.0	725.0	27.	2.	1.
VA08280	187.00	188.00	2200.0	13.0	47.0	<0.5	13.0	3.0	2.0	8.0	32.0	<1.0	2.0	830.0	22.	2.	1.
VA08281	188.00	189.00	2100.0	9.0	35.0	<0.5	17.0	3.0	2.0	5.0	20.0	<1.0	3.0	670.0	20.	2.	1.
VA08282	189.00	190.00	1500.0	18.0	107.0	0.5	55.0	3.0	2.0	16.0	53.0	<1.0	3.0	350.0	14.	2.	2.
VA08283	190.00	191.00	1700.0	32.0	172.0	0.6	33.0	3.0	2.0	38.0	12.0	1.0	4.0	240.0	16.	2.	2.
VA08284	191.30	192.80	980.0	94.0	172.0	<0.5	<5.0	20.0	14.0	10.0	170.0	<1.0	3.0	1200.0	35.	1.	7.
VA08285	192.80	194.00	1200.0	73.0	57.0	<0.5	5.0	16.0	32.0	8.0	85.0	<1.0	3.0	1320.0	56.	2.	4.
VA08286	194.00	195.00	960.0	80.0	51.0	<0.5	14.0	20.0	28.0	13.0	290.0	<1.0	3.0	1920.0	61.	2.	5.
VA08287	195.00	196.00	1000.0	60.0	64.0	<0.5	7.0	16.0	27.0	6.0	64.0	<1.0	3.0	1920.0	48.	4.	4.
VA08288	196.00	197.00	950.0	54.0	60.0	1.3	31.0	12.0	10.0	16.0	60.0	<1.0	3.0	1440.0	47.	4.	3.
VA08289	197.00	198.00	860.0	18.0	407.0	2.3	117.0	5.0	5.0	16.0	72.0	2.0	3.0	1440.0	4.	4.	2.
VA08290	198.00	199.00	880.0	12.0	38.0	1.5	77.0	6.0	6.0	7.0	75.0	<1.0	2.0	770.0	24.	4.	3.
VA08291	199.00	200.00	810.0	16.0	55.0	1.6	48.0	6.0	6.0	7.0	200.0	<1.0	4.0	560.0	23.	4.	2.
VA08292	200.00	201.00	730.0	13.0	51.0	1.8	42.0	5.0	6.0	<5.0	75.0	<1.0	2.0	795.0	20.	4.	2.
VA08293	201.00	202.00	800.0	13.0	51.0	1.0	64.0	6.0	5.0	<5.0	28.0	<1.0	2.0	935.0	20.	4.	2.
VA08294	202.00	203.00	860.0	13.0	63.0	0.9	15.0	7.0	6.0	<5.0	35.0	<1.0	2.0	810.0	17.	4.	2.
VA08295	203.00	204.00	810.0	11.0	42.0	<0.5	<5.0	6.0	4.0	<5.0	13.0	<1.0	1.0	1200.0	21.	4.	2.
VA08296	204.00	205.00	820.0	25.0	302.0	1.0	42.0	5.0	7.0	6.0	32.0	1.0	5.0	1200.0	8.	4.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08297	205.00	206.00	690.0	26.0	64.0	0.5	10.0	6.0	5.0	<5.0	17.0	<1.0	4.0	2160.0	29.	4.	2.
VA08298	206.00	207.00	590.0	25.0	73.0	0.5	10.0	7.0	8.0	<5.0	26.0	<1.0	9.0	2640.0	26.	4.	3.
VA08299	207.00	208.00	910.0	6.0	48.0	<0.5	<5.0	4.0	5.0	<5.0	6.0	<1.0	2.0	910.0	11.	4.	1.
VA08300	208.00	209.00	1100.0	20.0	115.0	<0.5	<5.0	6.0	7.0	<5.0	8.0	<1.0	3.0	950.0	15.	4.	2.
VA08301	209.00	210.00	980.0	9.0	66.0	<0.5	<5.0	2.0	3.0	<5.0	<5.0	<1.0	3.0	1200.0	12.	4.	1.
VA08302	210.00	211.00	1100.0	46.0	115.0	<0.5	<5.0	7.0	7.0	<5.0	9.0	<1.0	2.0	815.0	29.	4.	2.
VA08303	211.00	212.00	920.0	8.0	36.0	<0.5	<5.0	2.0	3.0	<5.0	<5.0	<1.0	3.0	920.0	18.	4.	2.
VA08304	212.00	213.20	950.0	10.0	30.0	<0.5	<5.0	4.0	4.0	<5.0	<5.0	<1.0	2.0	950.0	25.	4.	2.
VA08305	213.20	214.20	960.0	77.0	109.0	<0.5	<5.0	23.0	22.0	<5.0	22.0	<1.0	3.0	1440.0	41.	4.	6.
VA08306	214.20	215.70	1100.0	11.0	31.0	<0.5	<5.0	4.0	5.0	<5.0	5.0	<1.0	2.0	670.0	26.	4.	1.
VA08307	216.30	217.00	1000.0	12.0	44.0	<0.5	<5.0	1.0	4.0	<5.0	<5.0	<1.0	3.0	570.0	21.	4.	1.
VA08308	217.00	218.00	950.0	9.0	30.0	<0.5	<5.0	1.0	3.0	<5.0	<5.0	<1.0	3.0	835.0	23.	4.	1.
VA08309	218.00	219.00	980.0	6.0	24.0	<0.5	<5.0	1.0	3.0	<5.0	9.0	<1.0	3.0	860.0	20.	4.	1.
VA08310	219.00	220.00	900.0	13.0	27.0	<0.5	<5.0	1.0	4.0	<5.0	<5.0	<1.0	3.0	510.0	33.	4.	1.
VA08311	220.00	221.20	870.0	16.0	31.0	<0.5	<5.0	3.0	6.0	<5.0	5.0	<1.0	3.0	690.0	34.	4.	2.
VA08312	221.20	222.60	1200.0	80.0	197.0	0.5	34.0	8.0	18.0	<5.0	68.0	1.0	4.0	1260.0	29.	5.	3.
VA08313	222.60	224.20	830.0	20.0	61.0	<0.5	20.0	5.0	5.0	<5.0	12.0	<1.0	2.0	400.0	25.	3.	2.
VA08314	224.20	225.00	490.0	65.0	85.0	<0.5	9.0	8.0	16.0	<5.0	130.0	<1.0	4.0	1440.0	43.	3.	4.
VA08315	225.00	226.00	1000.0	42.0	56.0	<0.5	<5.0	6.0	15.0	<5.0	14.0	<1.0	5.0	1200.0	43.	3.	3.
VA08316	226.00	227.00	830.0	81.0	55.0	<0.5	<5.0	12.0	23.0	<5.0	17.0	<1.0	4.0	815.0	60.	3.	3.
VA08317	227.00	228.10	550.0	53.0	230.0	<0.5	<5.0	13.0	63.0	<5.0	130.0	1.0	4.0	1320.0	19.	3.	4.
VA08318	228.10	229.10	890.0	23.0	42.0	<0.5	<5.0	8.0	7.0	<5.0	20.0	<1.0	3.0	820.0	35.	3.	3.
VA08319	229.10	230.00	660.0	74.0	63.0	<0.5	<5.0	9.0	17.0	<5.0	40.0	<1.0	4.0	1680.0	54.	5.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08322	230.00	231.00	470.0	66.0	76.0	<0.5	<5.0	9.0	19.0	<5.0	44.0	<1.0	3.0	1320.0	46.	5.	3.
VA08320	231.00	232.00	270.0	58.0	74.0	<0.5	<5.0	9.0	20.0	<5.0	34.0	<1.0	3.0	1500.0	44.	5.	4.
VA08321	232.00	233.00	470.0	63.0	75.0	<0.5	<5.0	6.0	15.0	<5.0	48.0	<1.0	2.0	940.0	46.	5.	4.
VA08323	233.00	234.00	420.0	76.0	72.0	<0.5	<5.0	10.0	25.0	<5.0	190.0	<1.0	3.0	1200.0	51.	5.	4.
VA08324	234.00	235.00	630.0	71.0	57.0	<0.5	<5.0	10.0	20.0	<5.0	130.0	<1.0	3.0	1440.0	55.	5.	4.
VA08325	235.00	236.00	1400.0	76.0	88.0	<0.5	<5.0	11.0	18.0	<5.0	22.0	<1.0	3.0	1200.0	46.	5.	5.
VA08326	236.00	237.00	1000.0	61.0	152.0	<0.5	<5.0	8.0	20.0	<5.0	40.0	<1.0	3.0	980.0	29.	5.	3.
VA08327	237.00	237.70	600.0	53.0	408.0	<0.5	6.0	7.0	19.0	<5.0	40.0	4.0	2.0	1200.0	12.	5.	3.

Summary Log: DDH CH88-63
Location: 50+00'W, 9+25N; Holyoak 3 Claim
Azimuth: 210, Dip: -50
Hole Completed: June 2,1988
Core Logged By: S.G. Clemmer

.0	3.0	Overburden
3.0	21.6	Chloritic felsic quartz eye tuff
21.6	26.6	Mafic tuff
26.6	47.5	Chloritic felsic quartz eye tuff
46.5	49.4	Chloritic felsic ash tuff
49.4	53.6	Chloritic felsic quartz eye tuff
53.6	98.6	Chloritic felsic quartz eye tuff
		-30cm 1% sphalerite 98.3 to 98.6
98.6	108.2	Chloritic felsic lapilli tuff
108.2	113.3	Chloritic felsic quartz eye tuff
113.3	120.9	Felsic lapilli tuff
120.9	124.0	Fault breccia
124.0	126.9	Mafic porphyritic mafic flow / intrusion
126.9	170.0	Chloritic felsic quartz eye tuff
171.6	181.5	Cherty argillaceous sediments and felsic tuffite
181.5	230.6	Chloritic felsic quartz eye tuff
230.6	233.5	Mafic ash tuff
233.5	236.9	Chloritic felsic quartz eye tuff
236.9	239.9	Mafic ash tuff
239.9	246.3	Chloritic felsic quartz-feldspar crystal tuff
246.3		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-63 Page Number 1

Hole Location: 50+00' W 9+25 N

NTS: 092B/13W UTM:
Azimuth: 210 Elevation: 925 m
Dip: -50 Length: 246.3 m

Started: May 31, 1988
Completed: June 2, 1988

Claim No. Holyoak 3
Section No.: Section 50+00' West, Holyoak Claim Group

Logged By: S.G. Clemmer
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To develop a stratigraphic section and test IP DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
17.10	210.0	-52.0	218.20	218.0	-41.5
126.80	215.0	-46.0	243.80	219.0	-41.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	3.0	OVERBURDEN											
3.0	21.6	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey quartz porphyritic sericitic-chloritic felsic tuff, with 2 to 5% <1 to 3mm locally 5mm rounded quartz crystals, in a sericite- quartz matrix. The matrix is foliated and schitose with 5% light brown micaceous layers that are 1 to 3mm thick and stretched in cleavage and 10 to 20% light green relatively chlorite rich layers that are 1 to 3 mm , locally up to 15mm thick, and also streched. The chloritic layers are often dicontinuous and contain <1 to 1mm 10 to 15 %, white rounded quartz and white mineral areas that may be crystalssts, amygdules, or spherulites, all suggests chloritic areas are fragments. Cleavage is weakly contorted by a crenulation cleavage Carbonate as <1 to 2mm wide irregular white patchs in cleavage makes up 0 to 3% of rock locally 5%. There is 2 to 4 % pyrite, most as <1 to 3mm layers in cleavage. and as <1 to 2mm disseminated grains. 5.0 6.6 Fault zone or fracture zone, 70cm lost core, core broken and quartz veined. Quartz veins 1 to 4cm weakly folded and 10 to 30 degrees to core; 10 to 20 % carbonate in quartz and enclosing tuff looks silicified and contains 5 to 10% pyrite. 8.5 8.5 Light grey felsic ash layer, 30 degrees to core. Foliations :. 7.50 : 30 degrees to core axis. 13.50 : 40 degrees to core axis. 14.50 : 35 degrees to core axis. 15.95 : 35 degrees to core axis. 17.65 : 60 degrees to core axis.	VA02866	3.0	21.6	18.6	n/a	25	n/a	36	n/a	n/a	1240
			VA08328	3.0	5.0	2.0	2	16	<5	49	<1	23	1100
			VA08329	5.0	7.0	2.0	2	17	<5	61	<1	57	830
			VA08330	7.0	9.0	2.0	2	13	<5	30	<1	25	1000
			VA08331	9.0	10.0	1.0	2	14	<5	56	<1	9	1100
			VA08332	10.0	12.0	2.0	2	15	6	56	<1	9	1000
			VA08333	12.0	14.0	2.0	2	21	<5	82	<1	12	1100
			VA08334	14.0	16.0	2.0	2	18	5	93	<1	9	1100
			VA08335	16.0	18.0	2.0	2	15	7	107	<1	<5	1100
			VA08336	18.0	20.0	2.0	2	46	6	116	<1	10	1100
			VA08337	20.0	21.6	1.6	2	30	12	111	<1	<5	1300

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-63 Page Number 2

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		20.00 : 40 degrees to core axis. 10.1 10.7 Fracture zone, 20cm lost core, 10 % 1cm quartz veins 10 to 30 degrees to core, minor gouge (<1 to 3mm). 15.0 16.5 Rock contains 25% chlorite localized in 2 to 10mm relatively chlorite rich dicontinuous layers which may be fragments. Alteration :. 3.0 21.6 STRONG PERVASIVE SERICITIZATION. Lost core 0.7m from 6.1 to 7.3. Lost core 0.2m from 10.0 to 10.4.											
21.6	26.6	MAFIC TUFF Dark green fine grained mafic tuff, with fine granular texture of 20% <.5mm dark green mafic crystals, 35% chlorite, 20 % feldspar 5% disseminated <1mm light brown mineral. Rock contains 15% white carbonate as <1 to 15mm, irregular areas that generally follow a weak foliation that varies from 40 to 50 degrees to core axis. Upper contact is sharp at 45 degress to core and mafic is altered to epidote for 2cm at contact. Lower contact sharp 45 degrees to core. 23.1 23.3 2cm quartz vein 35 degrees to core, 2% tetrahedrite as 1 to 2 mm grains, minor malachite stain. 26.0 26.6 Rock weakly fractured, 20cm quartz vein. Alteration :. 21.6 26.6 MODERATE FRACTURE CONTROLLED CARBONATIZATION. Lost core 20cm from 26.2 to 27.0.	VA02867	21.6	26.6	5.0	n/a	43	n/a	101	n/a	n/a	234
26.6	47.5	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey quartz porphyritic sericitic-chloritic felsic tuff, with 1 to 3% <1 to 3mm locally 5mm rounded quartz crystals, in a sericite- quartz matrix. The matrix is foliated and schitose with 0 to 2% light brown micaceous layers that are 1 to 3mm thick and stretched in cleavage and 10% light green relatively chlorite rich layers that are 1 to 3 mm , locally up to 15mm thick, and also streched. After 35.0 there is no more light brown layers and the pyrite content drops to <1 to 1 %. There is 1 to 5% carbonate as <1 to 5mm irregular elaongate patchs in foliation. There is 1 to 2% <1 to 1mm disseminated and <1 to 2mm fracture pyrite. 30.2 30.6 40% quartz veins 30 to 50 degrees to core 1 to 2 cm. 31.3 33.3 40% quartz veins 30 to 50 degrees to core 1 to 20 cm, 10% white 1 to 10mm white carbonate in quartz. Foliations :.	VA02868	27.0	46.5	19.5	n/a	15	n/a	30	n/a	n/a	1130
			VA08338	27.0	29.0	2.0	2	30	6	97	<1	9	1100
			VA08339	29.0	31.0	2.0	2	12	5	51	<1	19	1100
			VA08340	31.0	33.0	2.0	2	6	6	51	<1	12	1200
			VA08341	33.0	35.0	2.0	2	11	10	48	<1	14	1100
			VA08342	35.0	37.0	2.0	2	10	<5	25	<1	10	1200
			VA08343	37.0	39.0	2.0	2	10	<5	44	<1	5	1100
			VA08344	39.0	41.0	2.0	2	9	<5	46	<1	7	1100
			VA08345	41.0	43.0	2.0	2	6	<5	53	<1	<5	1100
			VA08346	43.0	45.0	2.0	2	10	<5	49	<1	6	1000
			VA08347	45.0	47.0	2.0	2	10	6	61	<1	6	1000
			VA02869	46.5	49.4	2.9	n/a	12	n/a	43	n/a	n/a	1060
			VA08348	47.0	49.0	2.0	2	6	<5	47	<1	<5	1100

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		29.00 : 45 degrees to core axis. 31.00 : 35 degrees to core axis. 34.70 : 45 degrees to core axis. 43.50 : 55 degrees to core axis. 46.30 : 60 degrees to core axis. Alteration :. 26.6 47.5 STRONG PERVASIVE SERICITIZATION.											
46.5	49.4	WEAKLY CHLORITIC FELSIC TUFF Light grey-green quartz-sericite-chlorite felsic tuff, relatively homogeneous, with little banding, 3%, <1mm round quartz eyes. Occasional 5x30mm stretched fragment of quartz porphyritic (10% 5mm quartz eyes) felsic tuff. Upper and lower contacts relatively sharp but in part gradational 50 degrees to core. Alteration :. 46.5 47.4 STRONG PERVASIVE SERICITIZATION. Foliations :. 47.00 : 50 degrees to core axis.	VA08349	49.0	50.0	1.0	2	18	10	57	<1	<5	1100
49.4	53.6	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey weakly banded quartz-sericite felsic quartz eye tuff with minor chlorite, certainly less than surrounding units which have green bands or fragments of more chlorite rich areas. Upper contact relatively sharp, lower contact gradational and somewhat arbitrary. There are 5% 1 to 4mm quartz eyes in a finely banded matrix of quartz-sericite- chlorite (50% sericite, 40 % quartz 5% chlorite); banding is 1 to 3mm in thickness. There is 2% <1 to 2mm disseminated pyrite. Mineralization. 50.2 50.2 Quartz-carbonate vein with 10% chalcopyrite, 5% light grey-brown sphalerite and 5% pyrite, 45 degrees to core, vein 4cm wide. 50.3 50.3 Quartz-carbonate vein with 5% chalcopyrite, 5% light grey-brown sphalerite and 5% pyrite, 45 degrees to core, minor <1% galena. Vein 2cm wide. 50.6 50.7 Quartz-carbonate vein with 5% chalcopyrite, 1% galena and 5% pyrite. Vein os 9cm wide. Vein is 70% quartz and 30% carbonate 50 degrees to core. 50.8 50.8 Quartz-carbonate vein with 1% chalcopyrite, 5% light grey-brown sphalerite, 1% galena and 5% pyrite. Vein is 60 degrees to core. Vein is 3cm wide. 50.9 51.1 Carbonate-quartz vein with 60% white carbonate, 35% quartz, 3% chalcopyrite, <1% sphalerite and 5% pyrite; Vein is 75 degrees to core. Vein is 14cm wide.	VA02870	49.4	75.5	26.1	n/a	121	n/a	135	n/a	n/a	1160
			VA08350	50.0	51.5	1.5	5	3100	860	3600	7	49	950
			VA08351	51.5	53.0	1.5	5	17	10	40	<1	14	750
			VA08352	53.0	55.0	2.0	5	18	8	56	<1	30	900

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		53.3 53.4 25% pyrite in a 3cm wide quartz-carbonate vein zone 60 degrees to core.											
		Foliations :.											
		53.00 : 55 degrees to core axis.											
		Alteration :.											
		49.4 53.6 STRONG PERVASIVE SERICITIZATION.											
53.6	98.6	CHLORITIC FELSIC QUARTZ EYE TUFF	VA08354	55.0	57.0	2.0	n/a	11	6	21	<1	23	1400
		Grey-green sericite-chlorite-quartz, quartz porphyritic	VA08355	57.0	59.0	2.0	n/a	11	<5	30	<1	6	1400
		felsic tuff, with 5 to 10%, 1 to 6mm quartz crystals in	VA08356	59.0	61.0	2.0	n/a	9	<5	26	<1	11	1100
		in a banded (1 to 10mm bands) chlorite-sericite-quartz	VA08353	69.6	71.0	1.4	3	13	6	50	<1	22	1700
		matrix. Banding is caused by relatively sericite rich	VA08357	71.0	73.0	2.0	5	24	11	54	<1	13	1300
		layers, more siliceous layers, relatively chlorite rich	VA08358	73.0	75.0	2.0	2	10	6	50	<1	7	1000
		layers and less common light brown mica layers that occur	VA08359	75.0	77.0	2.0	2	9	7	51	<1	<5	1100
		locally. The bands are often discontinuous and in	VA02871	75.5	98.6	23.1	n/a	<10	n/a	66	n/a	n/a	1870
		particular the chlorite rich ones look like flattened	VA08360	77.0	79.0	2.0	2	5	9	43	<1	<5	870
		fragments (pumice?). There is 5% white carbonate in 1 to	VA08361	79.0	81.0	2.0	2	4	6	39	<1	10	950
		3mm dicontinuous bands and patchs and 1 to 3% pyrite as	VA08362	81.0	83.0	2.0	2	7	7	37	<1	10	940
		disseminated <1 to 2mm grains and masses, and as 1 to 2mm	VA08363	83.0	85.0	2.0	2	11	6	51	<1	18	1300
		pyrite fragments. There are 0 to 5%, 5 to 20mm	VA08364	85.0	87.0	2.0	2	7	6	61	<1	<5	1400
		quartz-carbonate veins, generally in foliation plane	VA08365	87.0	88.3	1.3	2	16	6	32	<1	16	1900
		throughout unit.	VA08366	88.9	91.0	2.1	2	14	8	37	<1	33	1500
		64.3 64.4 Folded cleavage varies from 10 to 50 degrees to	VA08367	91.0	93.0	2.0	2	14	11	46	<1	10	1900
		core and there is a 3cm carbonate vein.	VA08368	93.0	95.0	2.0	2	12	<5	44	<1	16	1700
		65.6 66.1 Light yellow green fine grained epidotized tuff.	VA08369	95.0	97.0	2.0	4	12	7	48	<1	37	2000
		68.7 68.8 Fault zone 3cm white gouge 45 degrees to core.	VA08370	97.0	98.0	1.0	4	71	66	174	1	95	4200
		70.3 71.8 Zone of rock has more banding, light brown	VA08371	98.0	98.7	.7	5	105	730	1517	1	51	5600
		mineral 5% pyrite, 20% quartz-carbonate											
		veining. Pyrite locally as 1cm 50% pyritic											
		layers 45 degrees to core.											
		88.4 88.8 Mafic dyke, 10% <1mm mafic crystals in a fine											
		grained chloritic matrix, 20% 1 to 8mm irregular											
		carbonate patches; contacts wavy 25 degrees to											
		core.											
		95.7 97.1 Tuff is light grey with 25% 2 to 8mm quartz											
		eyes, 5% pyrite.											
		98.3 98.6 1% disseminated light brown sphalerite, as 1mm											
		bands in foliation and adjacent to a 2cm quartz											
		carbonate vein 55 degrees to core.											
		Foliations :.											
		54.50 : 40 degrees to core axis.											
		57.00 : 40 degrees to core axis.											
		68.00 : 30 degrees to core axis.											
		72.50 : 45 degrees to core axis.											
		75.50 : 30 degrees to core axis.											
		79.00 : 35 degrees to core axis.											
		82.00 : 50 degrees to core axis.											
		85.20 : 30 degrees to core axis.											
		88.20 : 45 degrees to core axis.											
		92.00 : 50 degrees to core axis.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		98.00 : 60 degrees to core axis. Alteration :. 53.6 98.6 STRONG PERVASIVE SERICITIZATION. Lost core 71.9 75.0 35cm.											
98.6	108.2	CHLORITIC FELSIC LAPILLI TUFF Grey-green conglomerate or lapilli tuff with 40%, 5 to 30mm stretch fragments of light grey-green quartz crystal tuff in a fine grained foliated chloritic matrix, in part argillaceous. The felsic fragments contain 5 to 10%, <1 to 2mm locally 5mm quartz crystals in a fine light grey green micaceous matrix. Fragments are calcareous. 1 to 2% disseminated pyrite. Unit may be felsic debris caught up in a mafic tuff. 102.7 102.9 Mafic dyke, upper contact wavy 30 degrees to core lower contact wavy 45 degrees to core. 5% <.5mm feldspar crystals. 103.6 104.7 Calcareous mafic tuff with 15% irregular patches of white carbonate in a chloritic matrix that may be composed of 2 to 10mm chloritic fragments. 103.8 104.0 Mafic tuff layer or large fragment. 105.6 105.9 Mafic dyke with 3%, 1 to 3mm, one 8mm clino-pyroxene phenocryst in a dark chloritic matrix. 105.9 107.9 Rock is more mafic and only contains 0 to 20% felsic to intermediate fragments in a 10% carbonate patchy chlorite dark green matrix. 107.9 108.2 Mafic dyke as at 105.64 to 105.93 Contacts sharp and 45 degrees to core. Foliations :. 100.50 : 60 degrees to core axis. 105.15 : 45 degrees to core axis. 106.70 : 35 degrees to core axis. Alteration :. 98.6 108.2 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	VA02872	99.0	108.0	9.0	n/a	91	n/a	122	n/a	n/a	581
108.2	113.3	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey to light grey green very weakly to chloritic quartz eye felsic tuff with 5 to 10%, 1 to 6mm rounded quartz crystals. 1 to 2% disseminated pyrite. Lower contact sharp 50 degrees to core. 109.7 110.2 Mafic dyke, contacts sharp 45 degrees to core, chilled 2cm, 3%, 1 to 8mm pyroxene phenocrysts, 15% <.5mm feldspar crytals. 111.0 112.3 Mafic dyke, contacts sharp 35 degrees to core, chilled 2cm, 3%, 1 to 3mm pyroxene phenocrysts, 15% <.5mm feldspar crytals. Foliations :.	VA02873	108.2	111.0	2.8	n/a	12	n/a	<10	n/a	n/a	809

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-63 Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		109.00 : 45 degrees to core axis. Alteration :. 108.2 113.3 MODERATE PERVASIVE SILICIFICATION.											
113.3	120.9	FELSIC LAPILLI TUFF Light grey-brown, felsic to intermediate lapilli tuff with 40%, 3 to 15mm thick stretched fragments of felsic tuff that contain 15%, <1mm quartz crystals in a matrix of similar composition. 1% disseminated fine pyrite and fracture pyrite. 113.3 114.0 Finely foliated soft light brown felsic tuff. 114.0 114.2 Mafic dyke. 114.2 115.5 Rock is grey-green and chloritic and may be due to added mafic material or chloritization. Foliations :. 115.00 : 45 degrees to core axis. 119.00 : 35 degrees to core axis. Alteration :. 114.2 115.5 MODERATE PERVASIVE CHLORITIZATION.	VA02874	116.0	120.9	4.9	n/a	182	n/a	125	n/a	n/a	559
120.9	124.0	FAULT BRECCIA Silica healed fracture zone with 70% 2 to 10cm fragments of chloritic felsic to intermediate volcanic and mafic dyke material in 30% quartz as 1 to 3cm veins with 2% pyrite. Last 2 metres of interval less brecciated. Quartz veins vary from 20 to 35 degrees to core. Lost core 40cm 122.5 to 124.7.											
124.0	126.9	MAFIC PORPHYRITIC MAFIC FLOW / INTRUSION Dark green mafic dyke, lower contact sharp and sheared at 35 degrees to core,with 20cm hornfelsing, rock has 15%,locally weakly epidotized.5mm feldspar crystals and locally 3% 1 to 4mm pyroxene crystals.											
126.9	170.0	CHLORITIC FELSIC QUARTZ EYE TUFF Grey-green sericite-chlorite-quartz, quartz porphyritic felsic tuff, with 1 to 5%, 1 to 4mm quartz crystals in in a banded (1 to 10mm bands) chlorite-sericite-quartz matrix. Banding is caused by relatively sericite rich layers, more siliceous layers, relatively chlorite rich layers and less common light brown mica layers that occur locally. The bands are often discontinuous and in particular the chlorite rich ones look like flattened fragments (pumice?). This section of the unit contains only minor chlorite and more silica than the unit near the top of the hole. There is 2% white carbonate in 1 to 3mm dicontinuous bands and patchs and <1 to 1% pyrite as	VA02875	127.0	136.5	9.5	n/a	33	n/a	29	n/a	n/a	1050
			VA08372	136.4	137.6	1.2	1	57	8	82	<1	10	490
			VA02876	137.6	157.5	19.9	n/a	32	n/a	308	n/a	n/a	1850
			VA08373	137.6	139.0	1.4	2	5	6	23	<1	<5	1300
			VA08374	139.0	141.0	2.0	2	19	<5	52	<1	<5	1200
			VA08375	141.0	143.0	2.0	3	23	<5	330	<1	25	1400
			VA08376	143.0	143.9	.9	3	5	5	11	<1	17	1700
			VA08377	145.1	146.7	1.6	2	9	<5	112	<1	9	1300
			VA08378	148.0	148.8	.8	2	5	<5	30	<1	<5	1400
			VA08379	149.8	151.0	1.2	2	18	<5	63	<1	8	1500
			VA08380	151.0	153.0	2.0	1	21	<5	81	<1	23	1800
			VA08381	153.0	155.0	2.0	1	17	<5	288	<1	47	1700

From (m)	To (m)	DESCRIPTION
		disseminated <1 to 2mm grains and masses, and as 1 to 2mm pyrite fragments Lower contact gradational and arbitrary.
128.2	128.4	Intermediate tuff layer, contacts sharp upper is 40, lower 50 degrees to core, feldspar and quartz crystals <5%, up to 7mm. Bed at 128.75 to 128.90 also.
136.4	137.6	Felsic is darker grey and weakly argillaceous contacts are sharp and 60 degrees to core.
139.0	143.9	Rock has 3% pyrite, and is locally sheared with 1% gouge in 1 to 3mm zones 65 degrees to core.
143.9	144.1	Mafic dyke.
144.7	145.0	Mafic dyke, minor gouge at contacts 70 degrees to core.
146.9	147.9	Mafic dyke, lost core and minor gouge at contacts 70 degrees to core.
148.3	148.3	2cm white gouge 70 degrees to core.
148.9	149.7	Mafic dyke, 10% felsic in dyke interval. Contact sharp 75 degrees to core, <<1mm mafic crystals visible.
153.1	153.4	Fracture zone minor gouge, 50cm lost core; shearing 45 degrees to core.
157.1	157.4	Minor gouge 30cm lost core, shearing 30 degrees to core.
157.8	158.9	Argillite(20%) and cherty argillaceous felsic. Argillite runs 35 degrees to core as 1 to 5mm bands, there is one 15cm band of argillite at 157.80 to 157.95 and its contact is sharp and suggests tops may be to bottom of hole.
159.4	160.0	Foliation contorted and 10 to 30 degrees to core.
165.1	166.4	Green carbonatized (30% carbonate) mafic tuff.
167.7	167.9	Quartz-carbonate vein, 1cm gouge 50 degrees to core.
168.3	168.4	Fine grained felsic tuff bed,50 degrees to core.
170.7	171.6	Fracture or fault zone, core and rock shattered 60cm lost core, shearing 45 degrees to core.

Foliations :.
129.00 : 55 degrees to core axis.
130.00 : 60 degrees to core axis.
133.50 : 50 degrees to core axis.
139.00 : 60 degrees to core axis.
143.00 : 65 degrees to core axis.
146.00 : 70 degrees to core axis.
155.00 : 60 degrees to core axis.
158.00 : 45 degrees to core axis.
159.20 : 35 degrees to core axis.
161.00 : 55 degrees to core axis.
168.00 : 45 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA08382	155.0	157.0	2.0	1	23	<5	56	<1	19	1500
VA08383	157.0	157.8	.8	1	43	5	35	<1	13	1800
VA08384	157.8	158.8	1.0	2	40	<5	65	<1	20	1200
VA08385	158.8	160.0	1.2	1	35	9	162	<1	21	1000
VA02877	159.0	171.6	12.6	n/a	<10	n/a	54	n/a	n/a	1190
VA08386	160.0	162.0	2.0	1	18	<5	106	<1	10	1300
VA08387	162.0	164.0	2.0	1	5	<5	71	<1	5	1300
VA08388	164.0	165.0	1.0	1	7	36	60	<1	5	1400
VA08389	166.4	168.0	1.6	1	9	53	112	<1	7	1200
VA08390	168.0	170.0	2.0	1	61	32	210	<1	12	850

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-63 | Page Number 8

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Alteration :.											
		126.9 171.6 MODERATE PERVASIVE SILICIFICATION.											
		Lost core 40cm 145.1 148.1.											
		Lost core 50cm 151.2 153.9.											
		Lost core 30cm 157.0 158.5.											
		Lost core 50cm 163.4 166.4.											
		Lost core 60cm 170.7 171.6.											
171.6	181.5	CHERTY ARGILLACEOUS SEDIMENTS AND FELSIC TUFFITE											
		Grey to black banded argillite and felsic tuff. Banding is	VA08391	170.0	172.0	2.0	1	68	12	157	<1	14	840
		on the scale of 2 to 10mm, with 25% argillite. 3%	VA08392	172.0	173.0	1.0	2	71	24	165	<1	<5	940
		fracture pyrite as <1 to 1mm banded and irregular masses	VA08393	173.0	174.0	1.0	2	88	125	359	1	10	710
		Lower contact sheared 75 degrees to core.	VA08394	174.0	175.0	1.0	0	90	100	265	<1	15	610
		173.1 174.7 Core broken 60cm lost core, quartz veining	VA08395	175.0	176.0	1.0	2	47	60	96	<1	6	960
		and shearing 70 degrees to core.	VA08396	176.0	177.0	1.0	1	19	63	169	<1	17	990
		175.1 175.1 Folded banding in argillite 10 degrees to core.	VA08397	177.0	179.0	2.0	2	60	162	205	1	37	980
		175.9 177.4 Felsic tuff interval no argillite.	VA08398	179.0	181.0	2.0	2	43	44	68	<1	18	880
		178.3 178.4 Quartz-dolomite vein, 45 degrees to core.	VA08399	181.0	181.5	.5	2	104	800	945	2	106	520
		179.1 179.2 Cherty layer segmented by cleavage but trends											
		15 degrees to core.											
		Foliations :.											
		175.00 : 60 degrees to core axis.											
		180.00 : 50 degrees to core axis.											
		Lost core 60cm 173.1 174.7.											
181.5	230.6	CHLORITIC FELSIC QUARTZ EYE TUFF											
		Light grey weakly chloritic to grey-green chloritic	VA08400	181.5	183.0	1.5	1	17	33	54	<1	<5	900
		quartz eye sericitic felsic tuff with 5 to 10%, 1 to 6mm	VA02878	181.6	203.4	21.8	n/a	12	n/a	<10	n/a	n/a	1040
		rounded quartz crystals. Rock is moderately foliated.	VA08401	183.0	185.0	2.0	1	5	26	26	<1	<5	960
		Tuff is relatively homogeneous in contrast to banded	VA02879	203.4	230.6	27.2	n/a	100	n/a	<10	n/a	n/a	953
		chloritic tuffs at start of hole. Less than 1%	VA08402	205.0	206.0	1.0	1	10	7	19	<1	9	890
		disseminated pyrite.	VA08403	206.0	208.0	2.0	1	7	14	23	<1	5	1000
		195.4 196.0 Weak shear 30 degrees to core minor gouge.	VA08404	208.0	210.0	2.0	1	9	<5	20	<1	25	1100
		196.0 204.0 Tuff grey-green and chloritic.	VA08405	210.0	212.0	2.0	1	5	7	12	<1	<5	1100
		204.0 204.5 Mafic tuff layer, contacts sharp 60 degrees to	VA08406	212.0	214.0	2.0	1	6	<5	8	<1	<5	980
		core.	VA08407	214.0	215.4	1.4	1	9	<5	4	<1	<5	870
		205.0 215.4 Tuff light grey, no chlorite 1 to 2% pyrite,	VA08408	226.4	228.0	1.6	1	7	<5	7	<1	6	960
		larger quartz eyes, up to 6mm.											
		226.4 228.0 Rock bleahed light grey no chlorite.											
		228.0 228.4 Mafic tuff bed.											
		Foliations :.											
		184.20 : 50 degrees to core axis.											
		187.00 : 45 degrees to core axis.											
		192.50 : 30 degrees to core axis.											
		194.00 : 45 degrees to core axis.											
		196.00 : 60 degrees to core axis.											
		207.00 : 55 degrees to core axis.											
		221.00 : 60 degrees to core axis.											
		227.50 : 60 degrees to core axis.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Alteration :. 181.5 195.0 MODERATE PERVASIVE SILICIFICATION. 181.5 195.0 MODERATE PERVASIVE SERICITIZATION. 205.0 215.4 MODERATE PERVASIVE SILICIFICATION. 226.4 228.0 MODERATE PERVASIVE SERICITIZATION.											
230.6	233.5	MAFIC TUFF Dark green carbonatized mafic tuff, 25% white carbonate as irregular patches following a weak foliation. Rock is magnetic. Lower contact sharp 75 degrees to core. One percent disseminated pyrite. 232.8 232.9 1cm gouge 30 degrees to core. Foliations :. 231.00 : 55 degrees to core axis. Alteration :. 230.6 233.5 MODERATE SPOTTY CARBONATIZATION.	VA02880	230.6	233.5	2.9	n/a	34	n/a	84	n/a	n/a	1020
233.5	236.9	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey weakly chloritic to grey-green chloritic quartz eye sericitic felsic tuff with 5%, 1 to 5mm rounded quartz crystals. Rock is moderately foliated. Tuff is relatively homogeneous in contrast to banded chloritic tuffs at start of hole. Less than 1% disseminated pyrite. 231.4 231.9 Rock bleached and silicified 45 degrees to core. 235.4 235.7 Core broken, core sheared 30 degrees to core, minor gouge. Foliations :. 234.00 : 70 degrees to core axis. 236.00 : 45 degrees to core axis. Alteration :. 233.5 236.9 MODERATE PERVASIVE SERICITIZATION.	VA02881	233.5	236.9	3.4	n/a	<10	n/a	20	n/a	n/a	954
236.9	239.9	MAFIC TUFF Dark grey-green fine grained magnetic,chloritic, calcareous mafic tuff. Rock has 25% 2 to 5mm darker bands in foliation that are more magnetic; darker colour may be due to an argillaceous. Component. 10 to 15% 3 to 5mm wide elongated patches of white carbonate in foliation. 1% disseminated pyrite. 237.40 1cm Black gouge, some lost core. Foliations :. 238.00 : 45 degrees to core axis. Alteration :. 236.9 239.9 MODERATE SPOTTY CARBONATIZATION.	VA02882	236.9	239.9	3.0	n/a	61	n/a	70	n/a	n/a	1050

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-63 | Page Number 10

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
239.9	246.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light grey weakly chloritic to grey-green chloritic quartz eye sericitic felsic tuff with 5%, 1 to 5mm rounded quartz crystals and 5% 1 to 2mm felspar crystals. Rock is moderately foliated. Tuff is relatively homogeneous in contrast to banded chloritic tuffs at start of hole. Less than 1% disseminated pyrite. Foliations :. 243.00 : 45 degrees to core axis. Alteration :. 239.9 246.3 WEAK PERVASIVE SERICITIZATION.	VA02883	239.9	246.3	6.4	n/a	11	n/a	30	n/a	n/a	1270

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02434	14.60	14.80	70.90	13.20	2.92	1.55	0.22	3.06	2.48	0.26	0.07	0.11	4.39	99.16	1260.	59.	3.
VA02435	23.40	23.60	43.70	13.00	9.68	6.78	<0.01	0.08	13.60	2.03	0.17	0.19	11.30	100.54	93.	42.	10.
VA02436	37.70	37.90	68.90	14.10	3.46	1.75	0.25	3.17	2.24	0.26	0.06	0.12	5.62	99.93	1270.	57.	4.
VA02437	79.80	79.90	75.30	13.30	1.30	1.00	0.16	3.41	1.41	0.26	0.06	0.08	3.31	99.59	1130.	75.	1.
VA02438	96.15	96.30	76.40	11.90	1.19	0.93	0.19	2.95	2.20	0.15	0.04	0.07	2.77	98.79	2070.	74.	1.
VA02439	101.25	101.45	43.30	15.00	11.50	3.91	0.70	1.11	10.70	0.87	0.14	0.17	12.90	100.30	449.	29.	12.
VA02440	107.70	107.90	48.80	17.00	7.26	4.43	0.29	3.24	8.14	0.95	0.14	0.41	8.16	98.82	729.	50.	8.
VA02441	116.60	116.90	47.00	15.80	7.90	3.83	0.63	1.71	10.30	0.85	0.12	0.21	11.50	99.85	549.	39.	9.
VA02442	126.40	126.60	48.50	16.70	8.92	6.52	1.81	0.16	9.67	0.78	0.14	0.24	6.62	100.06	510.	38.	11.
VA02443	133.10	133.30	63.20	13.90	5.84	2.57	0.30	1.28	4.71	0.37	0.12	0.34	7.00	99.63	644.	39.	6.
VA02444	154.15	154.30	75.70	13.30	1.05	0.60	0.49	2.32	2.08	0.23	0.06	0.05	2.85	98.73	2060.	65.	2.
VA02445	187.30	187.50	73.20	12.80	2.64	1.21	0.59	3.22	1.54	0.18	0.04	0.04	4.23	99.69	1070.	58.	3.
VA02446	200.00	200.20	74.20	13.10	1.39	2.04	2.66	0.88	1.74	0.20	0.04	0.03	3.23	99.51	940.	42.	4.
VA02447	222.20	222.40	78.20	11.00	1.65	0.36	2.07	2.29	1.55	0.15	0.04	0.05	1.77	99.13	1260.	42.	4.
VA02448	231.80	231.95	53.20	17.30	6.18	1.69	3.76	2.83	7.29	0.52	0.43	0.20	5.85	99.25	883.	31.	10.
VA02449	244.20	244.40	73.40	13.80	1.63	2.19	2.02	2.16	1.88	0.18	0.05	0.05	2.08	99.44	1470.	54.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02866	3.00	21.60	71.00	13.50	2.33	1.35	0.27	3.22	2.59	0.27			3.54	98.07	1240.	64.	3.
VA02867	21.60	26.60	44.80	12.20	10.70	6.35	<0.01	0.15	12.50	1.80			11.40	99.90	234.	38.	11.
VA02868	27.00	46.50	69.50	12.70	3.75	1.77	0.13	2.83	2.52	0.25			5.31	98.76	1130.	54.	4.
VA02869	46.50	49.40	69.20	12.70	3.94	2.08	0.15	2.79	2.69	0.23			5.85	99.63	1060.	54.	4.
VA02870	49.40	75.50	69.00	12.80	3.50	1.79	0.20	2.86	2.84	0.24			4.93	98.16	1160.	56.	4.
VA02871	75.50	98.60	71.50	13.40	2.18	1.27	0.15	3.34	2.74	0.27			3.54	98.39	1870.	66.	2.
VA02872	99.00	108.00	46.30	16.00	8.11	4.77	0.41	2.10	10.60	0.92			10.30	99.51	581.	45.	9.
VA02873	108.20	111.00	75.10	13.90	1.15	0.72	0.36	3.39	2.00	0.17			2.62	99.41	809.	73.	2.
VA02874	116.00	120.90	47.60	15.90	8.02	3.92	0.34	1.69	11.20	0.87			10.10	99.64	559.	40.	8.
VA02875	127.00	136.50	66.00	15.60	3.63	1.83	0.46	1.68	4.53	0.42			4.77	98.92	1050.	46.	4.
VA02876	137.60	157.50	72.70	15.60	1.37	0.86	0.62	2.42	2.88	0.27			2.70	99.42	1850.	62.	2.
VA02877	159.00	171.60	69.10	12.70	4.75	1.56	0.54	2.37	2.88	0.19			5.70	99.79	1190.	43.	5.
VA02878	181.60	203.40	74.30	12.80	2.69	1.18	1.72	2.26	1.40	0.19			3.70	100.24	1040.	44.	4.
VA02879	203.40	230.60	73.80	11.90	3.01	0.81	1.76	2.73	1.35	0.18			3.23	98.77	953.	43.	5.
VA02880	230.60	233.50	52.20	17.80	6.09	1.94	3.29	3.18	8.08	0.55			6.16	99.29	1020.	35.	9.
VA02881	233.50	236.90	75.80	12.60	2.07	0.69	3.06	2.14	0.90	0.19			2.47	99.92	954.	36.	5.
VA02882	236.90	239.90	51.90	17.30	6.31	1.82	3.51	3.88	7.53	0.53			5.77	98.55	1050.	37.	10.
VA02883	239.90	246.30	71.70	13.70	2.53	1.68	2.18	2.38	2.13	0.20			2.47	98.97	1270.	46.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08328	3.00	5.00	1100.0	16.0	49.0	<0.5	23.0	4.0	11.0	<5.0	12.0	<1.0	1.0	750.0	25.	2.	2.
VA08329	5.00	7.00	830.0	17.0	61.0	<0.5	57.0	8.0	28.0	<5.0	22.0	<1.0	3.0	800.0	22.	2.	2.
VA08330	7.00	9.00	1000.0	13.0	30.0	<0.5	25.0	4.0	4.0	<5.0	13.0	<1.0	2.0	675.0	30.	2.	2.
VA08331	9.00	10.00	1100.0	14.0	56.0	<0.5	9.0	4.0	3.0	<5.0	12.0	<1.0	2.0	790.0	20.	2.	2.
VA08332	10.00	12.00	1000.0	15.0	56.0	<0.5	9.0	4.0	4.0	6.0	12.0	<1.0	2.0	870.0	21.	2.	2.
VA08333	12.00	14.00	1100.0	21.0	82.0	<0.5	12.0	4.0	14.0	<5.0	12.0	<1.0	3.0	760.0	20.	2.	2.
VA08334	14.00	16.00	1100.0	18.0	93.0	<0.5	9.0	3.0	4.0	5.0	5.0	<1.0	2.0	740.0	16.	2.	2.
VA08335	16.00	18.00	1100.0	15.0	107.0	<0.5	<5.0	4.0	3.0	7.0	9.0	<1.0	3.0	880.0	12.	2.	2.
VA08336	18.00	20.00	1100.0	46.0	116.0	<0.5	10.0	4.0	3.0	6.0	28.0	<1.0	2.0	750.0	28.	2.	2.
VA08337	20.00	21.60	1300.0	30.0	111.0	<0.5	<5.0	3.0	4.0	12.0	21.0	<1.0	1.0	680.0	21.	2.	1.
VA08338	27.00	29.00	1100.0	30.0	97.0	<0.5	9.0	3.0	4.0	6.0	15.0	<1.0	2.0	775.0	24.	2.	1.
VA08339	29.00	31.00	1100.0	12.0	51.0	<0.5	19.0	3.0	4.0	5.0	17.0	<1.0	2.0	900.0	19.	2.	2.
VA08340	31.00	33.00	1200.0	6.0	51.0	<0.5	12.0	2.0	4.0	6.0	5.0	<1.0	3.0	915.0	11.	2.	1.
VA08341	33.00	35.00	1100.0	11.0	48.0	<0.5	14.0	3.0	4.0	10.0	6.0	<1.0	2.0	725.0	19.	2.	1.
VA08342	35.00	37.00	1200.0	10.0	25.0	<0.5	10.0	3.0	4.0	<5.0	18.0	<1.0	3.0	430.0	29.	2.	1.
VA08343	37.00	39.00	1100.0	10.0	44.0	<0.5	5.0	3.0	4.0	<5.0	<5.0	<1.0	2.0	770.0	19.	2.	1.
VA08344	39.00	41.00	1100.0	9.0	46.0	<0.5	7.0	3.0	5.0	<5.0	<5.0	<1.0	3.0	615.0	16.	2.	2.
VA08345	41.00	43.00	1100.0	6.0	53.0	<0.5	<5.0	3.0	4.0	<5.0	<5.0	<1.0	2.0	625.0	10.	2.	1.
VA08346	43.00	45.00	1000.0	10.0	49.0	<0.5	6.0	3.0	5.0	<5.0	7.0	<1.0	7.0	780.0	17.	2.	1.
VA08347	45.00	47.00	1000.0	10.0	61.0	<0.5	6.0	4.0	7.0	6.0	<5.0	<1.0	2.0	860.0	14.	2.	2.
VA08348	47.00	49.00	1100.0	6.0	47.0	<0.5	<5.0	2.0	4.0	<5.0	<5.0	<1.0	2.0	580.0	11.	2.	1.
VA08349	49.00	50.00	1100.0	18.0	57.0	<0.5	<5.0	2.0	4.0	10.0	<5.0	<1.0	2.0	700.0	24.	2.	1.
VA08350	50.00	51.50	950.0	3100.0	3600.0	7.2	49.0	2.0	6.0	860.0	33.0	30.0	4.0	1560.0	46.	5.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08351	51.50	53.00	750.0	17.0	40.0	<0.5	14.0	1.0	4.0	10.0	8.0	<1.0	2.0	815.0	30.	5.	1.
VA08352	53.00	55.00	900.0	18.0	56.0	<0.5	30.0	3.0	4.0	8.0	18.0	<1.0	5.0	1000.0	24.	5.	2.
VA08354	55.00	57.00	1400.0	11.0	21.0	<0.5	23.0	3.0	4.0	6.0	17.0	<1.0	5.0	1200.0	34.	3.	2.
VA08355	57.00	59.00	1400.0	11.0	30.0	<0.5	6.0	3.0	3.0	<5.0	5.0	<1.0	1.0	660.0	27.	3.	1.
VA08356	59.00	61.00	1100.0	9.0	26.0	<0.5	11.0	3.0	3.0	<5.0	14.0	<1.0	3.0	810.0	26.	3.	1.
VA08353	69.60	71.00	1700.0	13.0	50.0	<0.5	22.0	6.0	7.0	6.0	12.0	<1.0	2.0	895.0	21.	3.	2.
VA08357	71.00	73.00	1300.0	24.0	54.0	<0.5	13.0	10.0	15.0	11.0	35.0	<1.0	11.0	1250.0	31.	5.	3.
VA08358	73.00	75.00	1000.0	10.0	50.0	<0.5	7.0	3.0	5.0	6.0	13.0	<1.0	4.0	900.0	17.	2.	2.
VA08359	75.00	77.00	1100.0	9.0	51.0	<0.5	<5.0	3.0	4.0	7.0	5.0	<1.0	3.0	620.0	15.	2.	1.
VA08360	77.00	79.00	870.0	5.0	43.0	<0.5	<5.0	3.0	4.0	9.0	5.0	<1.0	3.0	730.0	10.	2.	1.
VA08361	79.00	81.00	950.0	4.0	39.0	<0.5	10.0	3.0	3.0	6.0	7.0	<1.0	3.0	780.0	9.	2.	1.
VA08362	81.00	83.00	940.0	7.0	37.0	<0.5	10.0	3.0	4.0	7.0	15.0	<1.0	2.0	755.0	16.	2.	2.
VA08363	83.00	85.00	1300.0	11.0	51.0	<0.5	18.0	3.0	4.0	6.0	13.0	<1.0	2.0	950.0	18.	2.	2.
VA08364	85.00	87.00	1400.0	7.0	61.0	<0.5	<5.0	4.0	4.0	6.0	9.0	<1.0	2.0	950.0	10.	2.	1.
VA08365	87.00	88.30	1900.0	16.0	32.0	<0.5	16.0	4.0	5.0	6.0	13.0	<1.0	2.0	820.0	33.	2.	2.
VA08366	88.90	91.00	1500.0	14.0	37.0	<0.5	33.0	4.0	5.0	8.0	16.0	<1.0	2.0	950.0	27.	2.	2.
VA08367	91.00	93.00	1900.0	14.0	46.0	<0.5	10.0	4.0	4.0	11.0	15.0	<1.0	2.0	1200.0	23.	2.	1.
VA08368	93.00	95.00	1700.0	12.0	44.0	<0.5	16.0	3.0	3.0	<5.0	14.0	<1.0	3.0	885.0	21.	2.	1.
VA08369	95.00	97.00	2000.0	12.0	48.0	<0.5	37.0	2.0	3.0	7.0	30.0	<1.0	2.0	515.0	20.	4.	1.
VA08370	97.00	98.00	4200.0	71.0	174.0	1.3	95.0	3.0	5.0	66.0	70.0	<1.0	3.0	325.0	29.	4.	3.
VA08371	98.00	98.65	5600.0	105.0	1517.0	1.4	51.0	6.0	5.0	730.0	49.0	10.0	6.0	190.0	6.	5.	2.
VA08372	136.45	137.60	490.0	57.0	82.0	<0.5	10.0	9.0	14.0	8.0	46.0	<1.0	3.0	1800.0	41.	1.	3.
VA08373	137.60	139.00	1300.0	5.0	23.0	<0.5	<5.0	4.0	5.0	6.0	9.0	<1.0	4.0	110.0	18.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08374	139.00	141.00	1200.0	19.0	52.0	<0.5	<5.0	7.0	7.0	<5.0	9.0	<1.0	2.0	1200.0	27.	2.	2.
VA08375	141.00	143.00	1400.0	23.0	330.0	<0.5	25.0	8.0	7.0	<5.0	33.0	2.0	2.0	1200.0	7.	3.	2.
VA08376	143.00	143.90	1700.0	5.0	11.0	<0.5	17.0	3.0	4.0	5.0	12.0	<1.0	2.0	60.0	31.	3.	1.
VA08377	145.10	146.70	1300.0	9.0	112.0	<0.5	9.0	4.0	6.0	<5.0	17.0	<1.0	3.0	695.0	7.	2.	2.
VA08378	148.00	148.80	1400.0	5.0	30.0	<0.5	<5.0	2.0	2.0	<5.0	<5.0	<1.0	2.0	640.0	14.	2.	1.
VA08379	149.80	151.00	1500.0	18.0	63.0	<0.5	8.0	2.0	7.0	<5.0	16.0	<1.0	4.0	950.0	22.	2.	2.
VA08380	151.00	153.00	1800.0	21.0	81.0	<0.5	23.0	12.0	53.0	<5.0	98.0	<1.0	4.0	1300.0	21.	1.	3.
VA08381	153.00	155.00	1700.0	17.0	288.0	<0.5	47.0	3.0	4.0	<5.0	27.0	2.0	2.0	490.0	6.	1.	2.
VA08382	155.00	157.00	1500.0	23.0	56.0	<0.5	19.0	10.0	11.0	<5.0	22.0	<1.0	2.0	515.0	29.	1.	3.
VA08383	157.00	157.80	1800.0	43.0	35.0	<0.5	13.0	5.0	7.0	5.0	48.0	<1.0	3.0	870.0	55.	1.	2.
VA08384	157.80	158.80	1200.0	40.0	65.0	<0.5	20.0	5.0	11.0	<5.0	42.0	<1.0	3.0	495.0	38.	2.	2.
VA08385	158.80	160.00	1000.0	35.0	162.0	<0.5	21.0	6.0	8.0	9.0	17.0	1.0	3.0	1050.0	18.	1.	2.
VA08386	160.00	162.00	1300.0	18.0	106.0	<0.5	10.0	4.0	5.0	<5.0	8.0	<1.0	3.0	760.0	15.	1.	2.
VA08387	162.00	164.00	1300.0	5.0	71.0	<0.5	5.0	1.0	3.0	<5.0	<5.0	<1.0	2.0	710.0	7.	1.	1.
VA08388	164.00	165.00	1400.0	7.0	60.0	<0.5	5.0	2.0	4.0	36.0	8.0	<1.0	4.0	690.0	10.	1.	2.
VA08389	166.40	168.00	1200.0	9.0	112.0	<0.5	7.0	2.0	4.0	53.0	10.0	<1.0	4.0	830.0	7.	1.	1.
VA08390	168.00	170.00	850.0	61.0	210.0	<0.5	12.0	15.0	21.0	32.0	210.0	<1.0	3.0	1320.0	23.	1.	4.
VA08391	170.00	172.00	840.0	68.0	157.0	<0.5	14.0	20.0	22.0	12.0	90.0	<1.0	3.0	2160.0	30.	1.	6.
VA08392	172.00	173.00	940.0	71.0	165.0	<0.5	<5.0	12.0	16.0	24.0	230.0	<1.0	3.0	1560.0	30.	2.	5.
VA08393	173.00	174.00	710.0	88.0	359.0	0.5	10.0	12.0	18.0	125.0	230.0	2.0	3.0	1560.0	20.	2.	5.
VA08394	174.00	175.00	610.0	90.0	265.0	<0.5	15.0	10.0	18.0	100.0	320.0	1.0	3.0	1920.0	25.	2.	4.
VA08395	175.00	176.00	960.0	47.0	96.0	<0.5	6.0	8.0	13.0	60.0	26.0	<1.0	3.0	1920.0	33.	2.	4.
VA08396	176.00	177.00	990.0	19.0	169.0	<0.5	17.0	16.0	32.0	63.0	450.0	<1.0	3.0	1440.0	10.	1.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08397	177.00	179.00	980.0	60.0	205.0	0.6	37.0	15.0	19.0	162.0	400.0	<1.0	8.0	1680.0	23.	2.	4.
VA08398	179.00	181.00	880.0	43.0	68.0	<0.5	18.0	9.0	14.0	44.0	130.0	<1.0	3.0	1440.0	39.	2.	3.
VA08399	181.00	181.50	520.0	104.0	945.0	1.9	106.0	14.0	22.0	800.0	300.0	4.0	3.0	1560.0	10.	2.	6.
VA08400	181.50	183.00	900.0	17.0	54.0	<0.5	<5.0	3.0	8.0	33.0	10.0	<1.0	2.0	500.0	24.	1.	1.
VA08401	183.00	185.00	960.0	5.0	26.0	<0.5	<5.0	2.0	3.0	26.0	<5.0	<1.0	14.0	235.0	16.	1.	1.
VA08402	205.00	206.00	890.0	10.0	19.0	<0.5	9.0	2.0	3.0	7.0	<5.0	<1.0	2.0	440.0	34.	1.	1.
VA08403	206.00	208.00	1000.0	7.0	23.0	<0.5	5.0	3.0	3.0	14.0	8.0	<1.0	1.0	350.0	23.	1.	1.
VA08404	208.00	210.00	1100.0	9.0	20.0	<0.5	25.0	2.0	2.0	<5.0	8.0	<1.0	5.0	500.0	31.	1.	1.
VA08405	210.00	212.00	1100.0	5.0	12.0	<0.5	<5.0	2.0	3.0	7.0	<5.0	<1.0	3.0	410.0	29.	1.	0.
VA08406	212.00	214.00	980.0	6.0	8.0	<0.5	<5.0	4.0	4.0	<5.0	8.0	<1.0	4.0	550.0	43.	1.	1.
VA08407	214.00	215.40	870.0	9.0	4.0	<0.5	<5.0	4.0	4.0	<5.0	5.0	<1.0	7.0	450.0	69.	1.	0.
VA08408	226.40	228.00	960.0	7.0	7.0	<0.5	6.0	6.0	4.0	<5.0	7.0	<1.0	3.0	380.0	50.	1.	1.

Summary Log: DDH CH88-64
Location: 31+00 W, 1+30 S; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 5, 1988
Core Logged By: D.P. Money

0.0 -	10.2	Casing.
10.2 -	14.4	Gabbro.
14.4 -	30.8	Weakly chloritic felsic tuff with 3 to 5 % fracture controlled pyrrhotite from 23.0 to 25.2 m.
30.8 -	35.1	Gabbro.
35.1 -	39.0	Felsic crystal tuff with minor collapsed pumice and scoria. Quartz eyes display lineation and may be welded.
39.0 -	39.8	Gabbro.
39.8 -	47.3	Felsic crystal tuff as from 35.1 to 39.0 m.
47.3 -	195.1	Gabbro. Hosts trace to 0.5 % disseminated chalcopyrite from 104.0 to 122.0 m. From 125 to 134 m there is 15 % ilmenite. From 136.1 to 138.0 m 5 to 7 % pyrite, 1 to 2 % pyrrhotite, and trace chalcopyrite occur as fracture fillings.
195.1		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-64 Page Number 1

Hole Location: 31+00 W 1+30 S

NTS: 092B/13 UTM:
Azimuth: 180 Elevation: 797 m
Dip: -50 Length: 195.1 m

Started: June 2, 1988
Completed: June 5, 1988

Claim No. Holyoak 2
Section No.: Section 31+00 West, Holyoak Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To test Chem85-10 mineralization downdip

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
146.30	178.0	-52.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	10.2	OVERBURDEN Gabbro, white quartz and felsic tuff pebbles and cobbles. No chit marked start of coring.											
10.2	14.4	FELDSPAR PORPHYRITIC GABBRO Fine-grained medium green gabbro with trace to 10 %, 2 to 4 mm, average 5 to 7 %, feldspars. There are minor quartz - chlorite veins with trace pyrite. There is approximately 2 % leucoxene.											
14.4	30.8	WEAKLY CHLORITIC FELSIC TUFF Weakly chloritic felsic tuffs.	VA01201	14.4	30.8	16.4	n/a	80	n/a	104	n/a	n/a	1130
		14.4 18.9 Medium to light grey to green schistose tuff with up to 5 % chlorite. There are approximately 5 %, 1 to 3 mm, quartz eyes and up to 1 % (?) feldspars, with reaction rims. Very local compositional banding. Locally weakly contorted. There is trace banded and disseminated pyrite.	VA02059	22.0	23.0	1.0	1	60	22	820	<1	<5	1100
			VA02060	23.0	24.0	1.0	4	47	11	58	<1	<5	840
			VA02061	24.0	25.2	1.2	4	36	18	41	<1	<5	870
			VA02062	25.2	26.0	.8	1	37	24	605	<1	<5	890
		18.9 20.3 Very similiar to 14.4 to 18.9 with local epidotized and silicified zones. From 19.8 to 19.9 there is 2 % pyrrhotite in a quartz vein.											
		20.3 23.0 Very siliceous banded tuff with dark green and white bands. There are approximately 5 to 7 %, 2 to 3 mm, quartz and feldspar crystals. There are rare trace pyrrhotite stringers.											
		23.0 24.0 Light green sericitic massive tuff with 3 to 5 % fracture controlled pyrrhotite and very fine-grained grey mineral, galena (?) as approximately 3 %. There are trace fracture controlled calcite veinlets.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)	
		24.0 25.2 Same as 23.0 to 24.0 without the grey mineral, but with 0.5 %, 2 to 4 mm, pyrite cubes. 25.2 30.8 Very siliceous medium green tuff with locally up to 5 % quartz eyes, 2 to 4 mm, and up to 5 %, 3 mm, epidote grains. Locally there is strong pervasive silicification. There are minor siliceous lapilli and beds (?) with strong epidotization. There are rare kink bands approximately perpendicular to the foliation. From 29.9 to 30.8 there is strong hematite on fractures. Alteration :. 14.4 30.8 WEAK PERVASIVE CHLORITIZATION. 20.3 22.2 STRONG PERVASIVE SERICITIZATION. 27.4 27.7 MODERATE PERVASIVE EPIDOTIZATION , very bleached. Foliations :. 14.7 : 68 degrees to core axis. 16.8 : 76 degrees to core axis. 24.0 : 60 degrees to core axis. 26.8 : 71 degrees to core axis. 29.7 : 56 degrees to core axis. Lost core :. 20.6 22.3 : 0.5 m. 28.5 29.4 : 0.2 m.												
30.8	35.1	MAFIC INTRUSIVE 30.8 32.1 Fine-grained green gabbro with 2 %, 2 to 5 mm, feldspars and approximately 10 % fine-grained mafic crystals. 32.1 32.8 Fine-grained with approximately 2 % leucoxene, minor mafic and feldspar crystals. 32.8 33.0 Epidotized and silicified light green with 5 % mafic crystals, up to 3 mm. 33.0 35.1 Similiar to 32.1 to 32.8 with green epidote from 34.1 to 34.4 and 34.6 to 34.8 with minor spots similiar to 32.8 to 33.0. There are local calcite veinlets, hydraulic fracture controlled with a speck of chalcopyrite at 32.1. There is a minor breccia hosted by a quartz vein from 33.75 to 33.85												
35.1	39.0	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variably welded tuff, hot ash pyroclastic surge deposit ?. Light green siliceous tuff, massive. There are approximately 10 % feldspar crystals, laths up to 3 mm, with minor reaction rims. There is approximately 10 to 12 % rounded and stretched quartz eyes, 2 to 5 mm, average approximately 3 mm. From 37.5 to 38 is grey with 0.5 to 1 % disseminated pyrrhotite. There is approximately 0.5 to 1 % quartz - chlorite veins. There is very local	VA01202	35.1	39.0	3.9	n/a	149	n/a	46	n/a	n/a	1730	?

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		epidotization at the lower gabbro contact. Foliations :. 39.4 : 62 degrees to core axis. 37.6 : 34 degrees to core axis. 38.2 : 47 degrees to core axis.											
39.0	39.8	MAFIC INTRUSIVE Fine-grained green mafic sill with trace calcite, and epidote veins. At 39.2 there is minor pyrrhotite in a calcite vein.											
39.8	47.3	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light to medium grey, with local greenish tinge. Is massive and siliceous. Hosts 15 to 20 %, 2 to 4 mm, quartz eyes, which are elongated and rounded. Locally there are up to 3 % feldspars, 1 to 2 mm, mostly rounded, some with reaction rims and locally as laths. There are collapsed pumice lapilli, notably at 42.7 which are lighter green with stretched quartz grains in the lapilli. There is minor local epidotization and local quartz - chlorite and epidote fracture controlled veinlets. Rock is a hot ash flow, surge deposit (?), and fragments are welded to various degrees. Foliations :. 40.6 : 66 degrees to core axis. 44.4 : 38 degrees to core axis. 45.8 : 62 degrees to core axis. Upper contact : 63 degrees to core axis. Bleached mafic sill from 40.7 to 41.2.	VA01203	39.8	47.3	7.5	n/a	84	n/a	25	n/a	n/a	1490
47.3	195.1	FELDSPAR PORPHYRITIC GABBRO											
	47.3 47.6	Fine-grained medium green chilled margin with fracture controlled epidote veinlets.	VA01204	48.0	58.0	10.0	n/a	177	n/a	77	n/a	n/a	85
			VA01205	59.0	92.0	33.0	n/a	329	n/a	99	n/a	n/a	123
	47.6 52.6	Fine-grained medium green with 5 to 10 %, 1 to 5 mm, feldspar clots to grains. There is minor epidote and calcite veinlets. There is approximately 3 % ilmenite and leucoxene.	VA01206	93.0	104.0	11.0	n/a	334	n/a	122	n/a	n/a	272
			VA02063	102.6	103.5	.9	1	530	<5	98	<1	10	180
			VA01207	104.0	120.0	16.0	n/a	548	n/a	145	n/a	n/a	335
			VA02064	104.0	106.0	2.0	0	520	<5	101	<1	5	210
	52.6 54.6	Strongly epidotized with minor fracture controlled epidote, quartz and calcite veinlets with trace pyrrhotite and chalcopyrite at 53.6 and trace chalcopyrite at 54.5 and 54.6. There is approximately 5 %, 2 to 3 mm, leucoxene and 1 to 2 %, up to 1 mm, ilmenite.	VA02065	106.0	108.0	2.0	0	460	<5	125	<1	9	280
			VA02066	108.0	110.0	2.0	0	560	<5	111	<1	22	310
			VA02067	110.0	112.0	2.0	0	380	<5	97	<1	9	140
			VA02068	112.0	114.0	2.0	0	520	<5	93	<1	11	280
			VA02069	114.0	116.0	2.0	0	490	<5	105	<1	49	270
			VA02070	116.0	118.0	2.0	0	580	<5	98	<1	31	280
	54.6 55.8	Medium grained with approximately 20 to 30 %, 1 to 2 mm, feldspar laths and approximately 3 % leucoxene - ilmenite. There are minor quartz - chlorite veins at 55.1, 55.2 and 55.6.	VA02071	118.0	120.0	2.0	0	580	<5	112	<1	25	280
			VA02072	120.0	122.0	2.0	0	760	<5	115	<1	44	270
			VA01208	120.0	145.0	25.0	n/a	611	n/a	142	n/a	n/a	521
			VA02073	136.0	137.0	1.0	8	420	<5	110	<1	<5	390
	55.8 58.0	STRONG PERVASIVE EPIDOTIZATION , epidote and	VA02074	137.0	138.0	1.0	8	376	<5	158	<1	<5	360

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-64 | Page Number 4

From (m)	To (m)	----------DESCRIPTION----------
		quartz flooded with minor medium grained and chloritic zones. There is trace chalcopyrite at 57.5 in chlorite.
	58.0 59.5	Medium grained, similiar to 54.6 to 55.8 with chalcopyrite speck at 58.8 and 58.9, associated with minor fracture controlled epidote. There are 3 < 1 mm pyrite cubes at 59.5.
	59.5 92.5	Coarse grained gabbro with on average 40 to 50 %, 1 to 5 mm, feldspar laths to clots of intergrown crystals, 50 to 55 % mafic crystals and 5 % ilmenite, 1 to 4 mm crystals, average 2 mm, often associated with leucoxene rims. Variably feldspar or mafic dominated, usually mafics dominate groundmass with feldspars in clots. Sulphides occur as trace locally. Chalcopyrite and pyrite occur as < 1 mm blebs associated with fracture controlled chloritization or fracture controlled < 3 mm calcite veinlets. Chloritization and quartz or calcite veins constitute less than 1 % of the interval and are concentrated around 79.0 and 81.8.
	92.5 102.6	Dark green siliceous (?), slightly glassy and approximately 7 %, 3 to 4 mm, feldspar laths. There are approximately 10 to 15 % light purple to brown grains, appear to be sphene rimming ilmenite. Is not magnetic. There are up to 5 % zones with 20 % feldspar clots locally. Mafic crystals are altered to chlorite, with some retaining elongate hornblende crystal forms. There is trace chalcopyrite throughout, some appears to be interstitial to crystals, but most is associated with fracture controlled calcite and quartz veinlets.
	102.6 103.5	Coarse grained gabbro with 0.25 to 0.5 % magmatic chalcopyrite, 2 to 3 %, 2 to 3 mm, ilmenite and equal mix of 2 to 5 mm feldspar and mafic crystals.
	103.5 104.0	Fine-grained greyish medium green with 3 %, 1 to 2 mm, epidote to feldspar grains. There is weak fracture controlled carbonatization.
	104.0 122.0	Variable coarse grained gabbro, similiar to 92.5 to 102.6. There is approximately 10 to 12 %, 1 to 3 mm, purple non- to strongly magnetic ilmenite grains. Is locally 'glassy'. Feldspars vary from 10 to 20 %, 2 to 6 mm, clots and laths. There is trace to 0.5 % chalcopyrite locally, average approximately 0.25 %. Most chalcopyrite is magmatic, i.e. interstitial to mafic and feldspar grains and some is associated with minor chlorite and

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01209	145.0	164.0	19.0	n/a	673	n/a	161	n/a	n/a	1660
VA01210	164.0	174.0	10.0	n/a	798	n/a	128	n/a	n/a	974
VA01211	174.0	195.0	21.0	n/a	572	n/a	115	n/a	n/a	327
VA02075	190.2	191.4	1.2	0	250	<5	107	<1	5	110

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-64 | Page Number 5

From (m)	To (m)	DESCRIPTION
		calcite veins and veinlets.
122.0	145.8	Medium to coarse grained gabbro with 5 to 25 % variably epidotized feldspar laths, up to 4 mm. From approximately 125 to 134 there is 15 % ilmenite and is strongly to moderately magnetic. Averages 3 %, 1 to 5 % locally, ilmenite thru the rest of the interval. There is local strong epidotization of feldspar laths with minor associated fracture controlled epidote veinlets from approximately 127 to 128 and 139.6 to 140.6. From 136.1 to 138.0 there is 5 to 7 % pyrite, 1 to 2 % pyrrhotite and trace to 0.5 % chalcopyrite, appears to be fracture controlled. There is strong hematite locally on fractures. Trace chalcopyrite in minor quartz and calcite veinlets locally.
145.8	164.0	Medium to coarse grained with trace to 20 % feldspars, average 5 to 7 %, 1 to 2 mm, thin laths. Dominated by mafic and ilmenite crystals. Weakly to moderately magnetic with on average 3 to 5 % ilmenite. There are approximately 25 to 35 %, 2 to 4 mm, mafic crystals, probably chloritized hornblendes, in light green matrix. There is minor fracture controlled hematite.
164.0	190.2	Medium to fine-grained with approximately 60 %, 1 to 2 mm, chloritized mafic crystals in light green matrix with approximately 3 to 5 %, approximately 1 mm, ilmenite grains and trace very fine-grained pyrite and chalcopyrite. There are minor quartz - chlorite - calcite veinlets and fracture controlled epidote veinlets with small, < 1.5 mm chalcopyrite blebs. There is minor fracture controlled hematite. From 177 to 190 there are minor < 1 m zones with 5 to 10 %, 1 to 2 mm feldspars, locally epidotized, epidotization associated with fracture controlled epidote veinlets.
190.2	191.4	Shear zone, non-magnetic dark green chlorite with 10 % white quartz veins and approximately 5 % white calcite streaks. Shearing is at 60 degrees to core axis.
191.4	195.1	Same as 164.0 to 190.2.

Gabbro is locally blocky with no long runs of competent core.

Lost core :.
72.8 74.7 : 0.2 m.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-64 | Page Number 6

From (m)	To (m)	DESCRIPTION
		74.7 78.5 : 0.1 m. 120.0 120.4 : 0.3 m. 130.0 131.0 : 0.2 m. 142.0 143.0 : 0.3 m. 143.9 144.8 : 0.1 m. 149.5 150.6 : 0.2 m. End of hole: 640 feet (195.1 m) on Sunday June 6, 1988 at 4:00 p.m. Total lost core: 2.1 m; % Recovery = 98.9 %. Lack of dip tests due to breakdown of Sperry-Sun single shot.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00774	11.60	12.00	47.20	13.90	10.30	5.28	1.41	0.06	12.10	1.84	0.17	0.17	6.08	98.51	49.	31.	12.
VA00775	15.70	16.20	62.20	14.50	1.98	4.90	3.22	1.31	6.97	0.42	0.08	0.11	3.62	99.31	736.	54.	5.
VA00776	21.00	22.00	61.10	13.10	7.57	3.25	2.01	2.12	3.48	0.36	0.08	0.25	6.39	99.71	1450.	36.	10.
VA00777	29.50	30.00	62.50	14.30	5.72	3.46	4.20	1.03	4.91	0.42	0.08	0.10	3.23	99.95	629.	31.	10.
VA00778	32.30	32.60	45.20	15.10	9.73	6.33	1.63	0.17	13.70	2.06	0.20	0.21	5.08	99.41	143.	36.	11.
VA00779	40.20	40.50	64.90	14.40	2.94	3.20	4.75	1.75	3.75	0.42	0.09	0.07	2.62	98.89	1610.	39.	8.
VA00780	45.00	46.00	60.90	14.80	7.09	3.77	2.82	1.87	5.63	0.42	0.09	0.10	1.93	99.42	928.	36.	10.
VA00781	49.50	50.00	48.00	14.00	10.50	5.66	2.40	0.27	13.40	2.05	0.21	0.23	2.08	98.80	119.	31.	13.
VA00782	60.00	60.50	48.20	14.20	9.75	4.31	2.25	0.38	14.70	2.42	0.23	0.23	2.00	98.67	139.	28.	12.
VA00783	83.80	84.30	48.40	13.60	8.84	4.35	2.78	0.27	15.00	2.50	0.22	0.21	2.54	98.71	122.	28.	12.
VA00784	98.00	98.50	51.80	11.70	7.27	2.85	3.31	0.53	16.00	2.55	0.44	0.23	1.93	98.61	369.	24.	11.
VA00785	115.00	115.50	47.80	11.00	7.51	3.08	2.42	0.51	18.90	3.73	0.38	0.27	2.70	98.30	275.	27.	10.
VA00786	128.00	129.00	55.80	11.20	6.03	1.53	3.02	0.71	17.10	2.05	0.62	0.27	1.62	99.95	400.	20.	9.
VA00787	147.00	148.00	50.30	10.70	6.72	1.96	1.90	0.50	20.20	2.33	1.05	0.31	3.70	99.67	1550.	22.	9.
VA00788	168.00	168.60	47.30	10.90	7.98	2.63	2.30	0.48	18.10	3.52	0.41	0.29	5.39	99.30	1190.	23.	10.
VA00789	187.00	189.00	49.30	10.70	9.33	4.13	2.76	0.34	17.90	3.39	0.30	0.26	2.00	100.41	167.	27.	12.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA01201	14.40	30.80	61.10	14.20	5.49	3.02	3.00	2.06	4.66	0.42			3.70	97.65	1130.	37.	8.
VA01202	35.10	39.00	64.20	14.70	4.41	3.19	3.94	1.64	5.61	0.45			1.62	99.76	1730.	37.	8.
VA01203	39.80	47.30	62.60	14.90	6.55	3.36	3.02	2.22	5.14	0.43			2.31	100.53	1490.	37.	10.
VA01204	48.00	58.00	49.00	13.70	11.10	4.62	1.81	0.27	13.50	1.90			3.16	99.06	85.	27.	13.
VA01205	59.00	92.00	48.40	13.70	9.43	4.54	2.58	0.31	15.60	2.58			2.00	99.14	123.	29.	12.
VA01206	93.00	104.00	46.80	11.40	8.86	3.29	2.96	0.53	17.10	3.14			4.93	99.01	272.	24.	12.
VA01207	104.00	120.00	48.90	11.10	7.69	3.03	2.62	0.59	18.90	3.94			2.08	98.85	335.	26.	10.
VA01208	120.00	145.00	54.10	11.30	6.48	1.59	3.12	0.64	17.40	2.08			2.62	99.33	521.	19.	10.
VA01209	145.00	164.00	50.60	10.90	6.88	2.20	2.52	0.67	19.00	2.60			2.54	97.91	1660.	23.	9.
VA01210	164.00	174.00	47.40	10.80	7.62	3.16	2.23	0.44	18.10	3.70			3.31	96.76	974.	27.	10.
VA01211	174.00	195.00	50.20	10.70	8.25	3.85	2.68	0.39	17.70	3.42			2.31	99.50	327.	28.	11.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02059	22.00	23.00	1100.0	60.0	820.0	<0.5	<5.0	25.0	15.0	22.0	8.0	3.0	10.0	1320.0	7.	1.	2.
VA02060	23.00	24.00	840.0	47.0	58.0	<0.5	<5.0	20.0	6.0	11.0	130.0	<1.0	5.0	590.0	45.	4.	6.
VA02061	24.00	25.20	870.0	36.0	41.0	<0.5	<5.0	21.0	5.0	18.0	190.0	<1.0	4.0	580.0	47.	4.	6.
VA02062	25.20	26.00	890.0	37.0	605.0	<0.5	<5.0	8.0	10.0	24.0	8.0	9.0	7.0	580.0	6.	1.	2.
VA02063	102.60	103.50	180.0	530.0	98.0	<0.5	10.0	20.0	9.0	<5.0	6.0	<1.0	5.0	480.0	84.	1.	6.
VA02064	104.00	106.00	210.0	520.0	101.0	<0.5	5.0	22.0	8.0	<5.0	<5.0	<1.0	5.0	620.0	84.	0.	7.
VA02065	106.00	108.00	280.0	460.0	125.0	<0.5	9.0	27.0	10.0	<5.0	<5.0	<1.0	5.0	820.0	79.	0.	10.
VA02066	108.00	110.00	310.0	560.0	111.0	<0.5	22.0	23.0	8.0	<5.0	<5.0	<1.0	4.0	645.0	83.	0.	8.
VA02067	110.00	112.00	140.0	380.0	97.0	<0.5	9.0	19.0	6.0	<5.0	<5.0	<1.0	4.0	560.0	80.	0.	6.
VA02068	112.00	114.00	280.0	520.0	93.0	<0.5	11.0	18.0	6.0	<5.0	<5.0	<1.0	4.0	510.0	85.	0.	6.
VA02069	114.00	116.00	270.0	490.0	105.0	<0.5	49.0	20.0	6.0	<5.0	<5.0	<1.0	4.0	540.0	82.	0.	7.
VA02070	116.00	118.00	280.0	580.0	98.0	<0.5	31.0	18.0	5.0	<5.0	<5.0	<1.0	3.0	550.0	86.	0.	6.
VA02071	118.00	120.00	280.0	580.0	112.0	<0.5	25.0	20.0	5.0	<5.0	<5.0	<1.0	4.0	535.0	84.	0.	7.
VA02072	120.00	122.00	270.0	760.0	115.0	<0.5	44.0	23.0	6.0	<5.0	<5.0	<1.0	4.0	605.0	87.	0.	8.
VA02073	136.00	137.00	390.0	420.0	110.0	<0.5	<5.0	16.0	8.0	<5.0	<5.0	<1.0	3.0	900.0	79.	8.	8.
VA02074	137.00	138.00	360.0	376.0	158.0	<0.5	<5.0	20.0	8.0	<5.0	<5.0	<1.0	3.0	800.0	70.	8.	9.
VA02075	190.20	191.40	110.0	250.0	107.0	<0.5	5.0	32.0	21.0	<5.0	6.0	<1.0	4.0	950.0	70.	0.	9.

Summary Log: DDH CH88-65
Location: 25+00 W, 4+50 N; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 17, 1988
Core logged by: J. Pattison

0.0	18.9	Overburden
18.9	64.7	Equigranular gabbro
64.7	85.5	Intermediate volcanic wacke
85.5	91.8	Siltstone
91.8	92.6	Black argillite Fault at the lower contact.
92.6	141.7	Mafic tuff; moderately carbonatized.
141.7	177.0	Mafic porphyritic mafic tuff Dark green to black chloritized pyroxene cyrstals are smeared out along foliation planes.
177.0	182.6	Mafic lapilli tuff
182.6	207.9	Mafic porphyritic tuff
207.9	277.6	Gabbro
277.6	318.0	Weakly chloritized felsic feldspar crystal tuff
318.0	324.3	Felsic feldspar crystal tuff
324.3	352.3	Chloritic felsic feldspar crystal tuff
352.3	357.4	Felsic tuff
357.4	430.7	Weakly chloritized felsic tuff
430.7	436.9	Felsic tuff
436.9	437.7	Black argillite
437.7	441.1	Felsic tuff
441.1	453.4	Chloritic felsic quartz eye tuff
453.4	458.7	Mafic tuff

E.O.H. @ 458.7 m

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-65 | Page Number 1

Hole Location: 25+00 W 4+50 N

NTS: 92B13 UTM:
Azimuth: 180 Elevation: 899 m
Dip: -50 Length: 458.7 m

Started: 7-June-88
Completed: 17-June-88

Purpose: Stratigraphy.

Claim No. Holyoak 2
Section No.: 25+00 W

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
39.60	174.0	-52.0	274.30	179.0	-54.0
91.40	174.0	-53.0	365.80	183.0	-50.0
182.90	177.0	-54.0	458.70	189.0	-48.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	18.9	OVERBURDEN											
18.9	64.7	MEDIUM TO COARSE-GRAINED GABBRO Massive medium to coarse-grained equigranular gabbro. Composed of 60 % mafic minerals altered to chlorite and epidote and 40 % plagioclase with a minor ammount of fine biotite. Possibly < 5 % quartz below 41.3 m. Below 60.0 m rock becomes intermediate in composition and appears to have assimilated some of the sediments below. The lower contact is sharp at 20 degrees to core axis.	VA08409	38.5	39.5	1.0	1	60	<5	71	<1	206	900
			VA08410	39.5	40.7	1.2	1	190	<5	19	<1	<5	930
			VA08411	40.7	41.7	1.0	1	26	<5	65	<1	<5	730
			VA08412	63.7	64.7	1.0	1	72	<5	78	<1	<5	560

STRUCTURE:.
18.9-30.8 M extremely blocky. Casing had to be pushed to 27.4 m. 1.4 m of lost core.
31.7-32.8 M blocky, highly fractured core. 0.2 m of lost core.
At 58.4 m 1.0 cm fault gouge at 65 degrees to core axis.

ALTERATION:.
18.9 64.7 Very weak fracture controlled carbonatization and locally weak fracture controlled hematization.

SULPHIDES:.
60.0-64.7 m 1-2% finely disseminated pyrite.
39.5 40.7 Feldspar quartz rich, altered, leucocratic zone with 5-10% chlorite-biotite spots and needles.

47.2 49.0 1.2 m of lost core due to a problem with the core barrel.

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-65 Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
64.7	85.5	INTERMEDIATE VOLCANIC WACKE											
		Grey-brown, coarse, unsorted moderately biotite altered intermediate (locally felsic) volcanic wacke. Locally up to 5 % <2 mm feldspar crystals. Rock has an altered appearance and in places it is difficult to distinguish from the gabbro assimilation zone above. Massive, bedding is not recognizable.	VA08413	64.7	66.0	1.3	2	118	<5	77	<1	<5	120
			VA02884	64.7	85.5	20.8	n/a	132	n/a	80	n/a	n/a	185
			VA08414	66.0	67.0	1.0	2	144	<5	80	<1	<5	120
			VA08415	67.0	68.0	1.0	2	68	<5	98	<1	12	70
			VA08416	68.0	69.0	1.0	2	116	<5	84	<1	<5	20
			VA08417	69.0	69.8	.8	2	60	<5	113	<1	<5	160
			VA08418	69.8	70.7	.9	1	20	<5	74	<1	<5	1400
		STRUCTURE:.	VA08419	70.7	72.0	1.3	2	84	<5	121	<1	<5	160
		72.7-72.9 M fault zone. Blocky, highly fractured core. Not possible to measure orientation.	VA08420	72.0	73.0	1.0	2	100	<5	108	<1	<5	100
			VA08421	73.0	74.0	1.0	2	108	<5	114	<1	16	200
		76.0-76.5 M fault zone at 20 degrees to core axis. Blocky, highly fractured core.	VA08422	74.0	75.0	1.0	2	122	<5	73	<1	<5	220
			VA08423	75.0	76.0	1.0	2	140	<5	96	<1	<5	160
		77.1-77.6 Blocky, highly fractured core.	VA08424	76.0	77.0	1.0	2	140	<5	92	<1	<5	180
		At 79.5 m rock cleaves parallel to the core axis.	VA08425	77.0	78.0	1.0	2	136	<5	77	<1	<5	100
			VA08426	78.0	79.0	1.0	2	150	<5	96	<1	<5	230
		ALTERATION:.	VA08427	79.0	80.0	1.0	2	140	<5	64	<1	6	180
		64.7 85.5 WEAK FRACTURE CONTROLLED CARBONATIZATION.	VA08428	80.0	81.0	1.0	2	140	5	97	<1	7	230
		SULPHIDES:.											
		64.7-85.5 m 2-3% fracture controlled pyrite tr-1% pyrrhotite and locally, trace chalcopyrite. 3 % very finely disseminated purple mineral with a submetallic lustre, non magnetic between 75.0 and 76.0 m.											
		65.5 65.8 Angular dark green mafic pophyritic fragments up to 5.0 cm long.											
		69.8 70.7 Medium-grained carbonatized mafic dyke. Upper contact is sharp at 15 degrees to core axis. Lower contact is sharp at 40 degrees to core axis											
		79.0 81.0 5-10% 4 to 30 mm wide angular light grey-green to grey-brown fine-grained cherty fragments. Some have a light grey alteration rims 3 mm wide.											
85.5	91.8	SILTSTONE											
		Very pale green-grey cherty, siliceous, moderately microfractured siltstone. Nil to trace disseminated pyrite. Quite massive, bedding is not recognizable. Core is broken and blocky throughout and there are many fault gouges. Lower contact is a fault zone at 33 degrees to core axis.	VA02885	85.5	90.1	4.6	n/a	58	n/a	37	n/a	n/a	497
			VA08429	89.0	90.0	1.0	1	78	5	44	<1	<5	510
		STRUCTURE:.											
		At 86.6 m 1.0 cm fault gouge at 65 degrees to core axis. 89.4-91.8 M FAULT ZONE. Rock is crushed over the entire interval. Core is rubble between 90.2 and 90.8 and there											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		is 0.7 m of lost core. Many minor fault gouges throughout at 30 to 60 degrees to core axis. Largest fault gouge is between 91.5 and 96.8 m and is at 33 degrees to core axis. ALTERATION:. 85.8 91.8 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
91.8	92.6	BLACK ARGILLITE Crushed very soft and graphitic black argillite. Entire unit is part of a fault gouge. Contains deformed, stretched clasts of chloritic felsic tuff. Argillite is intercalated with carbonatized mafic tuffs. For 0.1 m at the lower contact. The lower contact is at 40 degrees to core axis.											
92.6	112.0	MAFIC TUFF Medium green, massive, coarse to fine mafic tuff. Locally up to 5 % white anhedral feldspars and rare quartz eyes < 3 mm in diameter. Occasional ripped-up bed of felsic tuff < 1.5 cm thick. Spots of wispy, black chlorite are often smeared along foliation planes (altered pyroxenes?). Foliation is only weakly developed. Lower contact is at 50 degrees to core axis. STRUCTURE:. At 92.5 m weak foliation is at 40 degrees to core axis. 100.1-102.0 M FAULT ZONE. Core is broken and blocky throughout and there are several < 1 cm fault gouges at < 30 degrees to core axis. 0.3 m of lost core. 102.5-105.0 M FAULT ZONE at 38 degrees to core axis. Core is broken and rubbly throughout. 0.7 m of lost core. At 106.9 m foliation is at 34 degrees to core axis. At 108.6 m bedding is at 35 degrees to core axis. At 111.9 m bedding is at 40 degrees to core axis. ALTERATION:. 92.6 112.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION and WEAK PERVASIVE CARBONATIZATION. Weak fracture controlled hematization between 97.6 and 98.0 m and between. 108.5 and 110.0 m. 97.5 98.1 5-10% mafic lapilli < 2.0 cm long and 0.5 cm wide, some with quartz eyes. 102.0 102.5 Tuff is intermediate in composition. Many irregular quartz-carbonate veins and pods <0.5 cm wide.	VA02886 VA08430	92.6 111.0	112.0 112.0	19.4 1.0	n/a 1	47 70	n/a 8	95 116	n/a <1	n/a 6	512 560

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
	108.6 888.8	10.0 cm bed of very fine chlorite schist with very finely disseminated magnetite at 35 degrees to core axis. Rock is strongly magnetic.											
112.0	113.9	FELSIC TUFF Light grey sericitic felsic tuff with an occasional quartz eye. Rock has a crushed, tectonized appearance and foliation is wavey and contorted. Bands of carbonatized chlorite schist < 1.0 cm to 20 cm occur throughout. The largest are between 112.4 and 112.6 m and between. 112.7 and 112.9 m. Lower contact is at 43 degrees to core axis. STRUCTURE:. At 112.6 m foliation is strongly kinked and folded. ALTERATION:. 112.0 113.9 WEAK FRACTURE CONTROLLED CARBONATIZATION. SULPHIDES:. 112.0-113.9 m 5 % finely disseminated subhedral.	VA08431 VA08432	112.0 113.0	113.0 113.9	1.0 .9	5 5	32 34	8 13	63 64	<1 <1	12 9	720 670
113.9	141.7	MAFIC TUFF As 92.6 to 112.0 m. Intercalated with ripped up beds of felsic tuff over the first 1.0 m. Occasional quartz eye < 4 mm in diameter below 137.0 m. Lower contact is arbitrarily placed where black chlorite wisps become conspicuous. STRUCTURE:. 116.3-116.8 M fault gouge at 50 degrees to core axis. Gouge contains 5 % angular quartz-carbonate clasts < 0.5 cm diameter. 117.3-118.6 M blocky, highly fractured core. At 126.1 m foliation is at 35 degrees to core axis. 130.0-132.6 M foliation is kinked and folded. 136.5-137.8 M rock is finely banded (bedded) at 45 degrees to core axis. ALTERATION:. 113.9 128.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION and weak fracture controlled hematization between 123.7 and 125.0 m. 128.0 133.0 STRONG FRACTURE CONTROLLED CARBONATIZATION. 133.0 141.7 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	VA08433 VA02887 VA08434	113.9 113.9 114.9	114.9 141.7 116.1	1.0 27.8 1.2	5 n/a 2	30 57 126	16 n/a 7	369 76 99	<1 n/a <1	14 n/a 15	550 647 1200

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		SULPHIDES:. 113.9-114.9 m 3 % disseminated pyrite concentrated in felsic tuff rip-up beds. 138.1 140.0 10 % 2-10 mm epidote+calcite spots, some of which may be altered lapilli.											
141.7	177.0	MAFIC PORPHYRITIC MAFIC ASH TUFF Darker green and somewhat more chloritic than unit above. Moderately carbonatized (fracture controlled) chlorite schist with up to 5 % wispy dark green to black chorite (replacing pyroxene ?) smeared along foliation planes. Chlorite spots are < 1.5 cm in diameter. Up to 5 % <4 mm carbonate altered fragments. Occasional quartz eye < 4 mm in diameter. Lower contact placed where mafic lapilli become conspicuous STRUCTURE:. At 144.8 foliation is at 35 degrees to core axis. At 149.9 3 mm fault gouge at 25 degrees to core axis. At 151.1 foliation is at 30 degrees to core axis. 157.3-157.4 M fault gouge at 20 degrees to core axis. 164.0-164.2 M fault gouge. Not possible to measure the orientation but it appears to be at a very low angle to the core axis. At 167.7 m foliation is at 37 degrees to core axis. At 168.6 m foliation is at 40 degrees to core axis. At 173.6 m 1.0 cm fault gouge at. 175.8 176.0 M fault gouge at 55-60 degrees to core axis. ALTERATION:. 138.9 151.4 STRONG FRACTURE CONTROLLED CARBONATIZATION. 151.4 160.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION , and locally very weak spotty epidote alteration. Weak fracture controlled hematization below 155.5 m. 160.0 168.5 WEAK SPOTTY EPIDOTIZATION and very weak spotty and fracture controlled carbonatization. 168.5 173.9 STRONG FRACTURE CONTROLLED CARBONATIZATION. 173.9 STRONG PERVASIVE CARBONATIZATION.	VA02888 VA02889	141.7 160.0	160.0 177.0	18.3 17.0	n/a n/a	93 62	n/a n/a	66 69	n/a n/a	n/a n/a	821 831
177.0	182.6	MAFIC LAPILLI TUFF Roughly 30 % grey-green carbonatized and in many cases epidotized mafic to intermediate fragments 0.5 to >5.0 cm and up to 1.5 cm wide stretched parallel to foliation in a green, moderately chloritized mafic matrix. Lower contact is a fault gouge at 8 degrees to core axis. STRUCTURE:.	VA02890	177.0	182.0	5.0	n/a	35	n/a	70	n/a	n/a	590

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 178.3 foliation is at 50 degrees to core axis. 182.3-182.6 M fault gouge at 8 degrees to core axis. ALTERATION:. 177.0 182.6 STRONG PERVASIVE CARBONATIZATION. Locally weak fracture controlled hematization.											
182.6	206.2	MAFIC PORPHYRITIC MAFIC ASH TUFF Similiar to 141.7 to 177.0 m except chlorite wisps are less conspicuous (2-3%) and strongly carbonatized. May be a lapilli tuff. Lapilli are strongly carbonatized and it is difficult to determine whether they are fragments or carbonate-filled gashes. Lower contact is gradational. STRUCTURE:. At 186.5 m foliation is at 40 degrees to core axis. At 194.5 m foliation is at 55 degrees to core axis. 204.0-204.5 M blocky, highly fractured core. Possibly a fault at 40 degrees to core axis. ALTERATION:. 182.6 206.2 STRONG FRACTURE CONTROLLED CARBONATIZATION. Weak fracture controlled hematization between 202.0 and 206.2 m. Moderate spotty epidotization between 203.8 and 205.8 m.	VA02891	182.6	207.9	25.3	n/a	40	n/a	59	n/a	n/a	129
206.2	207.9	INTERMEDIATE LAPILLI TUFF Light grey-green strongly carbonatized tuff with up to 30 % strongly carbonatized lapilli. Difficult to determine original composition of the tuff because of the strong pervasive carbonate alteration. Lower contact is at 55 degrees to core axis.											
207.9	262.7	FELDSPAR PORPHYRITIC GABBRO Massive , fine to medium-grained gabbro with 1-2 % finely disseminated ilmenite and 5 to 15 % 2-4 mm feldspar phenocrysts. Lower contact is arbitrarily placed where gabbro becomes ilmenite-rich. STRUCTURE:. 206.2-211.6 M blocky, highly fractured core. 225.3-226.0 M blocky, highly fractured core. At 226.5 m minor fault at 55 degrees to core axis. 229.0-231.6 M blocky, highly fractured core. 0.2 m of lost core. 232.3-233.6 M FAULT ZONE. Blocky, highly fractured core. Difficult to measure the orientation but it appears to be	VA08491 VA08435 VA08436 VA08437	257.0 258.4 259.4 259.8	258.0 259.4 259.8 260.8	1.0 1.0 .4 1.0	2 1 3 1	12 82 2400 260	<5 <5 <5 <5	73 76 55 83	<1 <1 <1 <1	<5 5 <5 <5	490 <20 <20 <20

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		>65 degrees to core axis. 0.5 m of lost core. 234.0-234.5 M FAULT ZONE. Blocky, highly fractured core. Not possible to measure the orientation. At 241.0 m 1.0 cm fault gouge at 50 degrees to core axis. 249.3-250.5 M blocky, highly fractured core. Related to a slip which runs parallel to the core axis. 0.2 m of lost core. 257.9-258.0 M fault gouge. Not possible to measure orientation. ALTERATION:. 207.9 262.7 MODERATE FRACTURE CONTROLLED CARBONATIZATION, locally WEAK SPOTTY EPIDOTIZATION and WEAK FRACTURE CONTROLLED HEMATIZATION. 224.6 225.3 Dark grey granophyric phase of the gabbro with 5 % ilmenite. 259.4 259.8 Quartz-carbonate-chlorite vein at 30-50 degrees to core axis with 4 % finely disseminated pyrite and chalcopyrite.											
262.7	276.0	MEDIUM TO COARSE-GRAINED GRANOPHYRIC ILMENITE-RICH GABBRO Medium to coarse-grained gabbro with 8-10% ilmenite as grains to 1 cm (most <0.5 cm) in diameter rimmed by leucoxene. . STRUCTURE:. At 268.5 m slip at 60 degrees to core axis. 273.6-276.0 M blocky, highly fractured core, several fault gouges at 50-60 degrees to core axis. ALTERATION:. 262.7 265.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 265.5 276.0 WEAK FRACTURE CONTROLLED CARBONATIZATION. 264.4 264.7 Xenolith of massive, fine-grained felsic tuff. Upper and lower contacts are at 55-60 degrees to core axis.											
276.0	277.6	MAFIC INTRUSIVE Fine-grained, non feldspar porphyritic, chill margin phase of the gabbro. Lower contact is at 47 degrees to core axis STRUCTURE:. 276.3-276.8 M several fault gouges at 40-60 degrees to core axis. Rock is crushed, broken and blocky throughout.											
277.6	283.0	WEAKLY CHLORITIC FELSIC TUFF											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Moderately to strongly chloritized felsic to intermediate tuff. Locally, fine bedding is recognizable. Occasional quartz eye <4 mm in diameter. .	VA02892	277.6	307.0	29.4	n/a	29	n/a	37	n/a	n/a	1100
		STRUCTURE:.											
		Foliation is wavey and contorted throughout.											
		At 278.5 m bedding is at 40 degrees to core axis.											
		At 279.0 m 1.0 cm fault gouge at 50 degrees to core axis.											
		At 281.4 m foliation is at 50 degrees to core axis.											
		281.5-281.8 M crushed, fault zone several fault gouges at 40-60 degrees to core axis.											
		ALTERATION:.											
		277.6 283.0 MODERATE PERVASIVE CHLORITIZATION and MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
283.0	286.0	MAFIC TUFF											
		Fine-grained weakly carbonatized mafic tuff. Rock is broken and blocky throughout. Broken core at the lower contact.											
		STRUCTURE:.											
		284.4-284.6 M crushed fault zone. Not possible to measure the orientation.											
		285.4-285.9 M fault zone at 25 degrees to core axis.											
		ALTERATION:.											
		283.0 286.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION and WEAK FRACTURE CONTROLLED HEMATIZATION.											
286.0	318.0	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF											
		Light green-grey, fine-grained, massive, felsic tuff with 5-10%, <1 mm, weakly epidotized feldspar crystals. Rare quartz eye < 4 mm in diameter. Weakly to moderately microfractured. Microfractures are filled with calcite +/- epidote.	VA08438	290.0	291.0	1.0	1	114	<5	49	<1	<5	1200
			VA08439	291.0	292.0	1.0	1	36	<5	44	<1	<5	1500
			VA08440	292.0	293.0	1.0	1	50	<5	42	<1	<5	1100
			VA08442	293.0	294.0	1.0	1	16	<5	41	<1	<5	1200
			VA08443	301.0	302.0	1.0	1	4	<5	25	<1	<5	1600
			VA08441	302.0	303.0	1.0	1	6	<5	29	<1	<5	1800
			VA02893	307.0	324.3	17.3	n/a	32	n/a	41	n/a	n/a	1230
			VA08444	309.0	310.0	1.0	2	14	<5	37	<1	<5	1700
			VA08445	310.0	311.0	1.0	2	56	<5	32	<1	<5	1300
			VA08446	311.0	312.0	1.0	2	76	<5	33	<1	<5	900
			VA08447	315.0	316.0	1.0	1	60	<5	31	<1	<5	730
			VA08448	316.0	317.0	1.0	2	41	<5	46	<1	<5	1000
			VA08449	317.0	318.0	1.0	2	10	<5	50	<1	<5	900
		STRUCTURE:.											
		At 287.0 m bedding is at 30 degrees to core axis.											
		At 288.3 m foliation is at 45 degrees to core axis.											
		At 292.3 m bedding is at 38 degrees to core axis.											
		At 295.2 m 0.5 cm fault gouge at 20 degrees to core axis.											
		At 296.8 m foliation is at 25 degrees to core axis.											
		304.8-308.5 M FAULT ZONE. Blocky, highly fractured core. Difficult to measure orientation but appears to be at a very low angle to the core axis. 0.6 m of lost core.											
		At 308.7 m foliation is at 15 degrees to core axis.											
		308.9-311 M blocky, highly fractured core because foliation is at a very low angle to core axis.											
		313.3-314.0 M minor slip nearly parallel to the core axis.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 314.0 m foliation is at 19 degrees to core axis. 316.9-317.0 M fault gouge at 50 degrees to core axis. At 318.4 m foliation is at 30 degrees to core axis. ALTERATION:. 286.0 318.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION , MODERATE PERVASIVE SERICITIZATION and weak to moderate pervasive chloritization. SULPHIDES:. 286.0-309.0 M trace to 1 % disseminated pyrite. 309.0-312.0 m 1-2% fracture controlled pyrite. 312.0-315.0 M trace disseminated pyrite. 315.0-318.0 m 1-2% fracture controlled and disseminated pyrite and nil-trace disseminated chalcopyrite. 295.8 297.1 Up to 5 % dark green, chloritic fragments, some with quartz-filled amygdales, < 1.0 cm thick and up to 3.0 cm long streched parallel to foliation.												
318.0	324.3	FELSIC FELDSPAR CRYSTAL TUFF Fine-grained sericitic felsic tuff with 5 % < 1 mm feldspar crystals. As the unit above but almost no chlorite. . STRUCTURE:. At 321.0 m foliation is at 31 degrees to core axis. ALTERATION:. 318.0 324.3 MODERATE PERVASIVE SERICITIZATION. SULPHIDES:. 318.0-324.3 m 1-2 % fracture controlled and disseminated pyrite.	VA08450	318.0	319.0	1.0	2	56	<5	49	<1	<5	1100
			VA08451	319.0	320.0	1.0	2	16	<5	67	<1	<5	630
			VA08452	320.0	321.0	1.0	2	8	<5	56	<1	<5	540
			VA08453	321.0	322.0	1.0	2	6	<5	51	<1	5	440
			VA08454	322.0	323.0	1.0	2	8	<5	59	<1	<5	400
			VA08455	323.0	324.0	1.0	2	12	<5	71	<1	7	680
			VA08456	324.0	325.0	1.0	1	20	<5	77	<1	5	730
324.3	352.3	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF As 286.0 to 318.0 m. Locally may be intermediate in composition. . STRUCTURE:. At 328.8 m foliation is at 18 degrees to core axis. At 331.1 m foliation is at 35 degrees to core axis. At 337.0 m foliation is at 35 degrees to core axis. 341.0-343.3 M blocky, highly fractured core. Foliation strongly developed at 45-55 degrees to core axis. At 342.6 m 2.0 cm fault gouge at 50 degrees to core axis. 344.3-344.7 M crushed, blocky, highly fractured core. 345.1-345.6 M fault gouge at 30 degrees to core axis. 346.8-350.8 M blocky, highly fractured core. Rock is crushed throughout. 0.5 m of lost core. Foliation is at	VA02894	324.3	337.0	12.7	n/a	<10	n/a	51	n/a	n/a	812
			VA02895	337.0	353.0	16.0	n/a	26	n/a	68	n/a	n/a	671
			VA08457	352.0	353.0	1.0	2	6	<5	62	<1	6	990

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		10-40 degrees to core axis.											
		ALTERATION:.											
		324.3 332.3 MODERATE PERVASIVE CHLORITIZATION to MODERATE PERVASIVE CHLORITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION.											
		331.1 332.0 Several carbonate veins up to 1.0 cm wide with a light brown soft alteration mineral (Fe-carbonate ?).											
		336.0 888.0 Chlorite+carbonate band (mafic tuff) at 40 degrees to core axis.											
		344.0 888.8 8.0 cm thick band of carbonate and a soft, olive green alteration mineral at 20 degrees to core axis. Similiar to the early mafic dyke of S.G.E.											
352.3	357.4	FELSIC TUFF											
		Light grey, strongly foliated, sericitic felsic tuff. Composed of quartz+sericite with very minor chlorite.	VA02896	353.0	383.0	30.0	n/a	17	n/a	42	n/a	n/a	1430
			VA08458	353.0	354.3	1.3	5	12	10	51	<1	6	1100
			VA08459	354.3	355.0	.7	2	4	6	36	<1	<5	1300
		STRUCTURE:.	VA08460	355.0	356.0	1.0	2	6	<5	36	<1	15	1100
		At 3527 m foliation is at 35 degrees to core axis.	VA08461	356.0	357.4	1.4	2	10	5	76	<1	<5	1100
		At 353.0 m 2.0 cm fault gouge at 35 degrees to core axis.											
		At 353.5 m 3.0 cm fault gouge at 35 degrees to core axis.											
		ALTERATION:.											
		332.3 STRONG PERVASIVE SERICITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION. Locally WEAK PERVASIVE CHLORITIZATION.											
		SULPHIDES:.											
		332.3-353.0 m 1.5 % pyrite concentrated along foliation planes.											
		353.0-354.3 m 5 % pyrite in <3 mm stringers parallel to foliation.											
		354.3-357.4 m 2 % pyrite as above.											
357.4	405.8	WEAKLY CHLORITIC FELSIC TUFF											
		Green-grey, strongly foliated quartz-sericite-chlorite schist. Probably a weakly to moderately chloritized felsic tuff. In places the more chlorite-rich schist may be intermediate in composition. Chlorite often occurs in discrete wisps, smeared out along foliation planes. Locally tuff contains up to 10 % felsic fragments < 0.5 cm wide. In places the rock has a fragmental appearance which may be due to chlorite microfractures. Rock is	VA08462	357.4	358.4	1.0	2	10	<5	97	<1	8	1400
			VA08463	359.7	360.7	1.0	2	30	<5	71	<1	8	760
			VA08464	362.7	364.0	1.3	5	12	7	374	<1	7	760
			VA08465	364.0	365.0	1.0	1	6	<5	59	<1	8	690
			VA08466	365.0	366.0	1.0	1	10	<5	71	<1	8	700
			VA08467	366.0	367.0	1.0	2	10	5	59	<1	8	1000
			VA08468	369.8	371.0	1.2	1	8	<5	52	<1	<5	2500
			VA08469	371.0	372.0	1.0	4	12	5	37	<1	<5	1100

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		bleached for 0.2 m from the lower contact. Lower contact is sharp at 30 degrees to core axis.	VA08470	375.0	376.0	1.0	2	4	<5	49	<1	<5	570
			VA02897	383.0	403.0	20.0	n/a	<10	n/a	42	n/a	n/a	840
			VA02898	403.0	430.7	27.7	n/a	13	n/a	47	n/a	n/a	666
		STRUCTURE:.											
		At 359.9 m foliation is at 35 degrees to core axis.											
		At 360.3 m bedding is at 50 degrees to core axis.											
		361.6-362.3 M crushed fault zone at 30 degrees to core axis											
		362.3-363.1 M foliation is wavey and nearly parallel to foliation.											
		At 364.9 m foliation is at 40 degrees to core axis.											
		At 373.0 m foliation is at 40 degrees to core axis.											
		376.0-376.4 M fault zone at 40 degrees to core axis. 0.4 m of lost core.											
		At 378.9 m 1.3 m of lost core due to a problem with the core barrel.											
		At 380.0 m foliation is at 37 degrees to core axis.											
		At 387.0 m 1.0 cm fault gouge at 40 degrees to core axis.											
		At 392.7 m bedding is at 40 degrees to core axis.											
		393.6-393.9 M fault gouge at 40 degrees to core axis.											
		394.9-395.5 M fault gouge at 20-40 degrees to core axis upper half is dominantly mafic tuff while lower half is dominantly chloritic felsic tuff.											
		395.5-396.7 M foliation is very contorted and is nearly parallel to the core axis.											
		396.7-397.8 M blocky, highly fractured core.											
		At 402.7 m foliation is at 40 degrees to core axis.											
		ALTERATION:.											
357.4	362.7	MODERATE PERVASIVE CHLORITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION.											
362.7	363.9	MODERATE PERVASIVE SERICITIZATION.											
363.9	371.0	MODERATE PERVASIVE CHLORITIZATION.											
371.0	372.0	MODERATE PERVASIVE SERICITIZATION.											
372.0	405.8	MODERATE PERVASIVE CHLORITIZATION.											
		SULPHIDES:.											
		362.7-364.0 m 5 % pyrite as 1-3 mm stringers (?) parallel to foliation associated with carbonate alteration.											
		364.0-366.0 m 1 % disseminated pyrite.											
		366.0-367.0 m 2 % pyrite concentrated along foliation planes.											
		367.0-369.8 M trace disseminated pyrite.											
		369.8-371.0 m 1 % disseminated pyrite.											
		371.0-372.0 m 4 % pyrite in 1-3 mm stringers (?) parallel to foliation.											
367.7	360.7	Dark green strongly chloritic zone. 0.5 cm bed of medium brown silty sediments with finely disseminated pyrite at 50 degrees to core axis at 360.3 m.											

From (m)	To (m)	DESCRIPTION
	370.4 370.5	Carbonatized chloritic mafic dyke. Upper and lower contacts are sharp but irregular at approximately 20 degrees to core axis.
	374.0 376.0	Strongly chloritic zone, may be intermediate in composition.
	386.5 386.7	Dark grey-brown-green argillaceous (?), carbonatized tuffite bed at 50 degrees to core axis.
	386.9 387.2	M dark grey-brown-green, chlorite+carbonate band at 45-50 degrees to core axis. Very similiar to 386.5 to 386.7 m.
	390.0 390.3	Dark green, strongly chloritic and moderately carbonatized band at 25 degrees to core axis.
	392.0 392.7	Medium green, mafic tuff with 2 % < 3 mm clear quartz eyes. Weak pervasive and fracture controlled carbonate alteration and weak fracture controlled hematization. Upper contact is at 35 degrees to core axis and lower contact is at 40 degrees to core axis.
	400.9 400.1	Dark grey chloritic mafic tuffite. Upper contact is a 3 mm fault gouge at 50 degrees to core axis. Lower contact is at 40 degrees to core axis.
405.8	408.9	MAFIC TUFF Massive, fine-grained, medium green mafic tuff. Lower contact is sharp at 40 degrees to core axis. Weak pervasive carbonatization and weak fracture controlled and spotty epidote alteration. Locally, weak fracture controlled hematite. Nil sulphides.
408.9	430.7	WEAKLY CHLORITIC FELSIC TUFF As 357.4 to 405.8 m. Locally intermediate in composition. Lower contact is relatively sharp at 40 degrees to core axis. STRUCTURE:. Foliation is strongly contorted throughout. 414.4-415.2 M fault gouge and breccia at < 20 degrees to core axis. At 419.2 m foliation is at 40 degrees to core axis. At 426.0 m foliation is at 44 degrees to core axis.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)
VA08471	419.0	420.0	1.0	1	22	<5	53	<1	<5	700
VA08472	420.0	421.0	1.0	2	32	<5	56	<1	<5	840
VA08473	421.0	422.0	1.0	1	1	<5	35	<1	<5	740
VA08474	429.7	430.7	1.0	3	4	<5	39	<1	<5	970

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ALTERATION:. 408.9 430.7 MODERATE PERVASIVE CHLORITIZATION. SULPHIDES:. 420.0-421.0 m 2 % pyrite concentrated in 2-3 mm stringers (?) parallel to foliation. 411.0 411.5 Strongly chloritic zone, mafic to intermediate in composition, at 20-40 degrees to core axis. 419.6 420.1 Strongly chloritic zone. Mafic in composion and moderate fracture controlled carbonatization.												
430.7	436.9	FELSIC TUFF Light grey-green very weakly chloritic (much less than unit above) felsic tuff. Well foliated, bedding not recognizable. Occasional clear quartz eye < 3 mm in diameter. Lower contact is a sharp bedding contact at 50 degrees to core axis. STRUCTURE:. At 431.0 m foliation is at 42 degrees to core axis. At 434.3 m 4.0 cm fault gouge at 38 degrees to core axis. Rock is crushed and foliation is kinked for 0.5 m below the fault gouge. 435.7-236.9 M foliation is wavey and varies from 0 to 40 degrees to core axis. ALTERATION:. 430.7 436.9 MODERATE PERVASIVE SERICITIZATION and WEAK PERVASIVE CHLORITIZATION. SULPHIDES:. 430.7-431.3 m 3 % pyrite concentrated in 2-3 mm stringers parallel to foliation. 431.3-432.0 m 5 % pyrite concentrated in stringers up to 4 mm in thick parallel to foliation. Stringers have narrow < 5 mm dark grey siliceous alteration envelopes. 432.0-434.0 m 3 % pyrite as above. 434.0-435.0 m 5 % pyrite as above. 435.0-436.9 m 3 % pyrite as above.	VA08475	430.7	431.3	.6	3	12	<5	23	<1	<5	2200
			VA02899	430.7	441.1	10.4	n/a	34	n/a	58	n/a	n/a	1220
			VA08476	431.3	432.0	.7	5	8	<5	16	<1	<5	2600
			VA08477	432.0	433.0	1.0	3	4	<5	41	<1	<5	1800
			VA08478	433.0	434.0	1.0	3	8	<5	44	1	9	1600
			VA08479	434.0	435.0	1.0	5	11	<5	34	2	47	1400
			VA08480	435.0	436.0	1.0	3	15	<5	48	1	206	1200
			VA08481	436.0	436.9	.9	3	72	15	99	2	20	380
436.9	437.7	BLACK ARGILLITE Black, moderately cherty, argillite with 3 % disseminated pyrite. Quite siliceous and cherty over the first 0.2 m. Broken and blocky over the entire interval. Broken core due to faulting at the lower contact.	VA08482	436.9	437.7	.8	3	16	7	78	1	22	1000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-65 Page Number 14

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
437.7	441.1	FELSIC TUFF											
		As 430.7 to 436.9 m. Finely bedded between 438.9 and 439.0 m. Lower contact placed where quartz eyes become conspicuous.	VA08483	437.7	439.0	1.3	2	33	7	64	1	12	730
			VA08484	439.0	440.0	1.0	2	33	13	73	1	21	760
			VA08485	440.0	441.1	1.1	2	18	9	69	<1	19	910
		STRUCTURE:.											
		At 438.9 m bedding is at 45 degrees to core axis.											
		ALTERATION:.											
		437.7 441.1 MODERATE PERVASIVE SERICITIZATION. A conspicuous soft yellow-brown alteration mineral occurs in wispy bands < 5 mm wide parallel to to foliation above 440.0 m.											
		SULPHIDES:.											
		437.7-441.1 m 2 % disseminated pyrite.											
441.1	453.4	CHLORITIC FELSIC QUARTZ EYE TUFF											
		Green-grey quartz-sericite-chlorite schist (felsic tuff) with 5 % 2-5 mm grey quartz eyes.	VA08486	441.1	442.0	.9	1	12	<5	40	<1	8	910
			VA02900	441.1	453.4	12.3	n/a	14	n/a	43	n/a	n/a	1210
		Several chlorite-carbonate rich bands 1-10 cm thick parallel to foliation.	VA08487	445.6	446.6	1.0	1	8	<5	38	<1	6	810
			VA08488	446.6	447.2	.6	4	12	<5	75	1	26	870
		Slip at 15 degrees to core axis at the lower contact.	VA08489	447.2	448.0	.8	4	12	<5	35	<1	23	980
			VA08490	448.0	449.0	1.0	1	16	<5	55	<1	<5	1000
		STRUCTURE:.											
		At 443.0 m foliation is at 45 degrees to core axis.											
		At 449.0 m foliation is at 55 degrees to core axis.											
		At 451.8 m bedding is at 45 degrees to core axis.											
		ALTERATION:.											
		431.1 453.4 WEAK PERVASIVE CHLORITIZATION.											
		SULPHIDES:.											
		446.6-448.0 m 4 % pyrite in 2-3 mm stringers parallel to foliation associated with strong pervasive sericitization.											
		448.4 448.6 Chlorite-carbonate rich band at 50-55 degrees to core axis.											
		449.2 449.5 Chlorite-carbonate rich band, probably mafic tuff intruded by many quartz-carbonate veins and veinlets roughly parallel to foliation.											
		449.6 449.7 Chlorite-carbonate rich band as above.											
453.4	458.7	MAFIC TUFF											
		Medium green, chloritic schist intercalated with bands of altered (sericite-chlorite) quartz eye felsic tuff. Almost equal ammounts of each.	VA02901	453.4	458.7	5.3	n/a	54	n/a	106	n/a	n/a	277

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-65 Page Number 15

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

STRUCTURE:.
453.4-453.8 M fault at 40 degrees to core axis. Blocky, highly fractured core.

ALTERATION:.
453.4 458.7 MODERATE PERVASIVE CARBONATIZATION and
MODERATE FRACTURE CONTROLLED CARBONATIZATION.

SULPHIDES:.
457.0 2.0 % disseminated pyrite.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02450	33.00	33.30	53.20	17.20	6.04	3.74	3.16	1.05	8.05	0.79	0.28	0.15	6.47	100.13	548.	34.	9.
VA02451	60.10	60.50	46.10	17.50	9.06	4.22	2.59	1.13	9.75	0.88	0.46	0.18	8.31	100.18	740.	31.	12.
VA02452	68.60	68.90	46.30	13.40	9.55	5.80	1.54	0.11	11.80	1.49	0.14	0.21	7.62	97.96	141.	35.	11.
VA02453	88.90	89.00	83.30	3.57	3.50	1.91	<0.01	0.30	3.02	0.20	0.10	0.06	3.23	99.19	215.	39.	3.
VA02454	99.80	100.10	46.90	15.10	6.67	8.00	3.09	0.42	10.40	0.75	0.31	0.21	7.93	99.78	234.	46.	10.
VA02455	112.50	112.70	55.80	15.50	8.02	0.81	1.67	3.25	5.10	0.53	0.31	0.11	4.31	95.41	840.	30.	10.
VA02456	124.40	124.70	49.00	18.00	6.23	4.78	2.72	1.73	9.48	0.84	0.26	0.17	6.62	99.83	1010.	42.	9.
VA02457	136.70	136.90	45.40	15.80	11.00	3.80	2.11	0.69	10.10	0.72	0.22	0.21	9.93	99.98	350.	26.	13.
VA02458	154.10	154.30	43.60	16.80	5.01	10.00	2.39	1.38	12.40	0.87	0.30	0.24	6.16	99.15	829.	61.	7.
VA02459	166.10	166.60	46.70	15.90	7.37	8.11	2.86	0.83	11.30	0.80	0.31	0.22	5.62	100.02	486.	47.	10.
VA02460	179.10	179.40	47.60	15.00	11.10	4.16	1.96	1.18	8.68	0.70	0.24	0.19	9.39	100.20	674.	29.	13.
VA02461	194.50	194.90	44.80	14.10	10.20	7.52	1.54	0.09	9.91	0.68	0.22	0.19	10.20	99.45	92.	39.	12.
VA02462	206.50	207.00	47.80	15.80	10.60	6.09	5.42	0.11	4.53	0.73	0.29	0.11	8.31	99.79	114.	28.	16.
VA02463	280.00	280.50	62.40	14.40	5.88	2.18	1.57	0.69	4.59	0.43	0.14	0.09	6.93	99.30	306.	28.	7.
VA02464	292.60	292.80	63.60	15.00	5.90	0.82	1.44	2.91	3.75	0.44	0.16	0.06	5.77	99.85	1160.	34.	7.
VA02465	303.10	303.50	64.60	15.50	4.24	1.10	4.67	1.23	5.37	0.45	0.17	0.08	2.85	100.26	1460.	21.	9.
VA02466	316.20	316.60	62.80	14.10	4.77	1.45	1.21	1.72	6.78	0.42	0.15	0.13	5.23	98.76	811.	35.	6.
VA02467	327.70	328.00	68.50	14.40	3.19	0.93	3.73	1.67	3.22	0.41	0.13	0.07	3.54	99.79	744.	27.	7.
VA02468	338.00	338.50	67.50	14.30	3.74	0.82	3.42	1.85	3.95	0.39	0.13	0.09	4.00	100.19	639.	27.	7.
VA02469	355.30	355.50	68.30	14.80	2.54	0.74	4.87	1.76	2.74	0.42	0.13	0.04	2.39	98.73	1260.	25.	7.
VA02470	372.00	372.50	67.00	14.90	2.96	0.79	3.82	1.97	3.27	0.42	0.14	0.08	3.31	98.66	943.	29.	7.
VA02471	393.00	393.50	67.30	14.60	3.13	1.02	3.75	1.86	4.01	0.40	0.13	0.09	3.54	99.83	631.	30.	7.
VA02472	412.50	413.00	68.80	14.50	2.72	0.95	4.12	1.71	3.71	0.40	0.13	0.09	3.16	100.29	636.	28.	7.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA02473	425.20	425.60	67.90	14.40	2.55	1.18	3.38	1.88	4.00	0.41	0.14	0.10	3.54	99.48	620.	34.	6.
VA02475	433.70	434.00	66.60	14.70	2.60	1.20	0.31	3.63	3.48	0.41	0.14	0.19	4.62	97.88	1870.	62.	3.
VA02474	448.60	448.80	68.20	13.90	3.53	1.26	0.39	3.21	2.69	0.28	0.07	0.09	4.93	98.55	1130.	53.	4.
VA02476	458.00	458.30	59.00	14.50	5.35	2.76	3.83	1.36	5.65	0.49	0.13	0.17	5.70	98.94	492.	31.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02884	64.70	85.50	44.90	13.40	10.60	5.59	1.68	0.22	11.20	1.52			9.85	98.96	185.	32.	12.
VA02885	85.50	90.10	72.40	5.83	7.90	1.78	0.23	0.83	3.36	0.31			6.77	99.41	497.	24.	8.
VA02886	92.60	112.00	46.00	15.30	9.79	4.50	2.51	1.41	9.70	0.71			8.77	98.69	512.	32.	12.
VA02887	113.90	141.70	46.70	16.70	7.65	4.63	2.51	1.31	10.70	0.80			7.93	98.93	647.	37.	10.
VA02888	141.70	160.00	45.30	15.90	5.65	7.76	2.68	1.98	10.50	0.80			7.54	98.11	821.	54.	8.
VA02889	160.00	177.00	45.70	15.70	8.84	5.95	1.94	2.03	10.10	0.75			7.39	98.40	831.	43.	11.
VA02890	177.00	182.00	43.50	15.20	12.00	4.49	1.80	1.21	10.00	0.69			10.50	99.39	590.	29.	14.
VA02891	182.60	207.90	44.80	13.80	11.30	6.99	2.19	0.15	8.90	0.68			10.80	99.61	129.	35.	13.
VA02892	277.60	307.00	60.60	16.10	5.71	1.41	2.03	2.39	4.87	0.51			5.93	99.55	1100.	33.	8.
VA02893	307.00	324.30	66.60	13.50	4.31	1.22	1.74	1.91	5.05	0.40			4.62	99.35	1230.	34.	6.
VA02894	324.30	337.00	63.40	17.10	3.04	1.21	4.26	2.00	3.90	0.49			3.54	98.94	812.	31.	7.
VA02895	337.00	353.00	64.70	15.00	3.95	1.05	3.41	1.94	4.41	0.42			4.47	99.35	671.	29.	7.
VA02896	353.00	383.00	65.90	14.20	4.31	0.77	3.69	1.86	3.39	0.39			4.16	98.67	1430.	25.	8.
VA02897	383.00	403.00	66.70	14.40	3.64	0.96	3.27	1.91	3.76	0.41			4.16	99.21	840.	29.	7.
VA02898	403.00	430.70	66.90	14.40	3.11	1.14	3.29	1.94	3.98	0.40			3.77	98.93	666.	32.	6.
VA02899	430.70	441.10	61.30	15.30	3.36	1.83	0.96	3.07	5.81	0.50			4.16	96.29	1220.	53.	4.
VA02900	441.10	453.40	69.50	13.60	2.40	1.30	0.32	3.19	2.98	0.29			4.23	97.81	1210.	62.	3.
VA02901	453.40	458.70	39.40	11.20	15.10	4.83	0.03	1.64	9.83	0.54			11.10	93.67	277.	30.	15.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08409	38.50	39.50	900.0	60.0	71.0	<0.5	206.0	16.0	19.0	<5.0	<5.0	<1.0	2.0	720.0	46.	1.	4.
VA08410	39.50	40.70	930.0	190.0	19.0	<0.5	<5.0	4.0	6.0	<5.0	<5.0	<1.0	1.0	360.0	91.	1.	1.
VA08411	40.70	41.70	730.0	26.0	65.0	<0.5	<5.0	16.0	18.0	<5.0	<5.0	<1.0	2.0	700.0	29.	1.	4.
VA08412	63.70	64.70	560.0	72.0	78.0	<0.5	<5.0	18.0	26.0	<5.0	10.0	<1.0	4.0	1000.0	48.	1.	5.
VA08413	64.70	66.00	120.0	118.0	77.0	<0.5	<5.0	28.0	74.0	<5.0	16.0	<1.0	4.0	850.0	61.	2.	6.
VA08414	66.00	67.00	120.0	144.0	80.0	<0.5	<5.0	28.0	72.0	<5.0	20.0	<1.0	4.0	875.0	64.	2.	6.
VA08415	67.00	68.00	70.0	68.0	98.0	<0.5	12.0	24.0	64.0	<5.0	42.0	<1.0	4.0	1140.0	41.	2.	7.
VA08416	68.00	69.00	20.0	116.0	84.0	<0.5	<5.0	24.0	67.0	<5.0	27.0	<1.0	4.0	860.0	58.	2.	6.
VA08417	69.00	69.80	160.0	60.0	113.0	<0.5	<5.0	30.0	68.0	<5.0	27.0	<1.0	4.0	1160.0	35.	2.	7.
VA08418	69.80	70.70	1400.0	20.0	74.0	<0.5	<5.0	14.0	16.0	<5.0	5.0	<1.0	3.0	980.0	21.	1.	5.
VA08419	70.70	72.00	160.0	84.0	121.0	<0.5	<5.0	30.0	75.0	<5.0	35.0	<1.0	4.0	1380.0	41.	2.	7.
VA08420	72.00	73.00	100.0	100.0	108.0	<0.5	<5.0	32.0	80.0	<5.0	20.0	<1.0	4.0	1150.0	48.	2.	7.
VA08421	73.00	74.00	200.0	108.0	114.0	<0.5	16.0	32.0	84.0	<5.0	13.0	<1.0	5.0	1110.0	49.	2.	7.
VA08422	74.00	75.00	220.0	122.0	73.0	<0.5	<5.0	32.0	66.0	<5.0	14.0	<1.0	6.0	820.0	63.	2.	6.
VA08423	75.00	76.00	160.0	140.0	96.0	<0.5	<5.0	30.0	69.0	<5.0	22.0	<1.0	4.0	960.0	59.	2.	7.
VA08424	76.00	77.00	180.0	140.0	92.0	<0.5	<5.0	32.0	78.0	<5.0	29.0	<1.0	5.0	900.0	60.	2.	7.
VA08425	77.00	78.00	100.0	136.0	77.0	<0.5	<5.0	32.0	74.0	<5.0	24.0	<1.0	5.0	880.0	64.	2.	7.
VA08426	78.00	79.00	230.0	150.0	96.0	<0.5	<5.0	30.0	76.0	<5.0	42.0	<1.0	5.0	900.0	61.	2.	7.
VA08427	79.00	80.00	180.0	140.0	64.0	<0.5	6.0	28.0	60.0	<5.0	22.0	<1.0	5.0	680.0	69.	2.	6.
VA08428	80.00	81.00	230.0	140.0	97.0	<0.5	7.0	30.0	68.0	5.0	31.0	<1.0	5.0	900.0	59.	2.	7.
VA08429	89.00	90.00	510.0	78.0	44.0	<0.5	<5.0	8.0	42.0	5.0	8.0	<1.0	6.0	600.0	64.	1.	2.
VA08430	111.00	112.00	560.0	70.0	116.0	<0.5	6.0	32.0	24.0	8.0	11.0	<1.0	4.0	1060.0	38.	1.	6.
VA08431	112.00	113.00	720.0	32.0	63.0	<0.5	12.0	34.0	14.0	8.0	15.0	<1.0	5.0	700.0	34.	5.	4.

Hole No. CH88-65

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA08432	113.00	113.90	670.0	34.0	64.0	<0.5	9.0	26.0	12.0	13.0	14.0	<1.0	5.0	800.0	35.	5.	4.
VA08433	113.90	114.90	550.0	30.0	369.0	<0.5	14.0	20.0	18.0	16.0	9.0	2.0	3.0	760.0	8.	5.	5.
VA08434	114.90	116.10	1200.0	126.0	99.0	<0.5	15.0	14.0	14.0	7.0	9.0	<1.0	4.0	900.0	56.	2.	5.
VA08435	258.40	259.40	<20.0	82.0	76.0	<0.5	5.0	26.0	36.0	<5.0	8.0	<1.0	2.0	820.0	52.	1.	6.
VA08436	259.40	259.80	<20.0	2400.0	55.0	<0.5	<5.0	28.0	28.0	<5.0	20.0	<1.0	3.0	480.0	98.	3.	5.
VA08437	259.80	260.80	<20.0	260.0	83.0	<0.5	<5.0	28.0	35.0	<5.0	10.0	<1.0	2.0	620.0	76.	1.	6.
VA08438	290.00	291.00	1200.0	114.0	49.0	<0.5	<5.0	18.0	18.0	<5.0	<5.0	<1.0	3.0	710.0	70.	1.	4.
VA08439	291.00	292.00	1500.0	36.0	44.0	<0.5	<5.0	16.0	16.0	<5.0	5.0	<1.0	4.0	650.0	45.	1.	4.
VA08440	292.00	293.00	1100.0	50.0	42.0	<0.5	<5.0	16.0	12.0	<5.0	<5.0	<1.0	4.0	575.0	54.	1.	4.
VA08442	293.00	294.00	1200.0	16.0	41.0	<0.5	<5.0	14.0	8.0	<5.0	<5.0	<1.0	2.0	510.0	28.	1.	3.
VA08443	301.00	302.00	1600.0	4.0	25.0	<0.5	<5.0	6.0	6.0	<5.0	<5.0	<1.0	3.0	370.0	14.	1.	3.
VA08441	302.00	303.00	1800.0	6.0	29.0	<0.5	<5.0	8.0	8.0	<5.0	<5.0	<1.0	2.0	370.0	17.	1.	3.
VA08444	309.00	310.00	1700.0	14.0	37.0	<0.5	<5.0	8.0	10.0	<5.0	<5.0	<1.0	2.0	520.0	27.	2.	4.
VA08445	310.00	311.00	1300.0	56.0	32.0	<0.5	<5.0	10.0	8.0	<5.0	<5.0	<1.0	2.0	650.0	64.	2.	4.
VA08446	311.00	312.00	900.0	76.0	33.0	<0.5	<5.0	12.0	10.0	<5.0	<5.0	<1.0	2.0	630.0	70.	2.	4.
VA08447	315.00	316.00	730.0	60.0	31.0	<0.5	<5.0	8.0	8.0	<5.0	<5.0	<1.0	2.0	635.0	66.	1.	4.
VA08448	316.00	317.00	1000.0	41.0	46.0	<0.5	<5.0	8.0	8.0	<5.0	<5.0	<1.0	4.0	670.0	47.	2.	4.
VA08449	317.00	318.00	900.0	10.0	50.0	<0.5	<5.0	6.0	10.0	<5.0	<5.0	<1.0	2.0	725.0	17.	2.	3.
VA08450	318.00	319.00	1100.0	56.0	49.0	<0.5	<5.0	12.0	18.0	<5.0	12.0	<1.0	3.0	520.0	53.	2.	2.
VA08451	319.00	320.00	630.0	16.0	67.0	<0.5	<5.0	6.0	6.0	<5.0	<5.0	<1.0	3.0	660.0	19.	2.	4.
VA08452	320.00	321.00	540.0	8.0	56.0	<0.5	<5.0	6.0	4.0	<5.0	<5.0	<1.0	2.0	580.0	13.	2.	3.
VA08453	321.00	322.00	440.0	6.0	51.0	<0.5	5.0	4.0	4.0	<5.0	<5.0	<1.0	2.0	510.0	11.	2.	3.
VA08454	322.00	323.00	400.0	8.0	59.0	<0.5	<5.0	6.0	5.0	<5.0	<5.0	<1.0	2.0	520.0	12.	2.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA08455	323.00	324.00	680.0	12.0	71.0	<0.5	7.0	6.0	5.0	<5.0	<5.0	<1.0	1.0	550.0	14.	2.	3.
VA08456	324.00	325.00	730.0	20.0	77.0	<0.5	5.0	6.0	6.0	<5.0	<5.0	<1.0	2.0	610.0	21.	1.	3.
VA08457	352.00	353.00	990.0	6.0	62.0	<0.5	6.0	8.0	4.0	<5.0	<5.0	<1.0	2.0	200.0	9.	2.	2.
VA08458	353.00	354.30	1100.0	12.0	51.0	<0.5	6.0	12.0	8.0	10.0	24.0	<1.0	5.0	230.0	19.	5.	4.
VA08459	354.30	355.00	1300.0	4.0	36.0	<0.5	<5.0	8.0	6.0	6.0	6.0	<1.0	4.0	270.0	10.	2.	1.
VA08460	355.00	356.00	1100.0	6.0	36.0	<0.5	15.0	10.0	4.0	<5.0	5.0	<1.0	3.0	250.0	14.	2.	1.
VA08461	356.00	357.40	1100.0	10.0	76.0	<0.5	<5.0	10.0	4.0	5.0	8.0	<1.0	4.0	310.0	12.	2.	2.
VA08462	357.40	358.40	1400.0	10.0	97.0	<0.5	8.0	10.0	5.0	<5.0	<5.0	<1.0	3.0	470.0	9.	2.	2.
VA08463	359.70	360.70	760.0	30.0	71.0	<0.5	8.0	10.0	16.0	<5.0	<5.0	<1.0	4.0	660.0	30.	2.	3.
VA08464	362.70	364.00	760.0	12.0	374.0	<0.5	7.0	14.0	8.0	7.0	15.0	2.0	4.0	390.0	3.	5.	3.
VA08465	364.00	365.00	690.0	6.0	59.0	<0.5	8.0	6.0	4.0	<5.0	<5.0	<1.0	2.0	410.0	9.	1.	3.
VA08466	365.00	366.00	700.0	10.0	71.0	<0.5	8.0	8.0	6.0	<5.0	<5.0	<1.0	2.0	540.0	12.	1.	3.
VA08467	366.00	367.00	1000.0	10.0	59.0	<0.5	8.0	14.0	4.0	5.0	<5.0	<1.0	2.0	520.0	14.	2.	2.
VA08468	369.80	371.00	2500.0	8.0	52.0	<0.5	<5.0	12.0	4.0	<5.0	<5.0	<1.0	2.0	710.0	13.	1.	3.
VA08469	371.00	372.00	1100.0	12.0	37.0	<0.5	<5.0	14.0	8.0	5.0	6.0	<1.0	3.0	480.0	24.	4.	2.
VA08470	375.00	376.00	570.0	4.0	49.0	<0.5	<5.0	4.0	6.0	<5.0	<5.0	<1.0	3.0	1020.0	8.	2.	3.
VA08471	419.00	420.00	700.0	22.0	53.0	<0.5	<5.0	14.0	12.0	<5.0	<5.0	<1.0	3.0	1150.0	29.	1.	4.
VA08472	420.00	421.00	840.0	32.0	56.0	<0.5	<5.0	14.0	10.0	<5.0	<5.0	<1.0	3.0	1000.0	36.	2.	4.
VA08473	421.00	422.00	740.0	1.0	35.0	<0.5	<5.0	4.0	4.0	<5.0	<5.0	<1.0	2.0	800.0	3.	1.	3.
VA08474	429.70	430.70	970.0	4.0	39.0	<0.5	<5.0	6.0	4.0	<5.0	<5.0	<1.0	3.0	940.0	9.	3.	3.
VA08475	430.70	431.30	2200.0	12.0	23.0	<0.5	<5.0	12.0	8.0	<5.0	5.0	<1.0	3.0	720.0	34.	3.	3.
VA08476	431.30	432.00	2600.0	8.0	16.0	<0.5	<5.0	10.0	8.0	<5.0	6.0	<1.0	3.0	505.0	33.	5.	3.
VA08477	432.00	433.00	1800.0	4.0	41.0	<0.5	<5.0	4.0	4.0	<5.0	<5.0	<1.0	2.0	1200.0	9.	3.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	EE
VA08478	433.00	434.00	1600.0	8.0	44.0	0.6	9.0	6.0	4.0	<5.0	6.0	<1.0	3.0	1200.0	15.	3.	3.
VA08479	434.00	435.00	1400.0	11.0	34.0	1.7	47.0	10.0	4.0	<5.0	26.0	<1.0	4.0	790.0	24.	5.	3.
VA08480	435.00	436.00	1200.0	15.0	48.0	0.8	206.0	6.0	6.0	<5.0	17.0	<1.0	2.0	950.0	24.	3.	2.
VA08481	436.00	436.90	380.0	72.0	99.0	2.4	20.0	12.0	28.0	15.0	430.0	<1.0	5.0	800.0	42.	3.	5.
VA08482	436.90	437.70	1000.0	16.0	78.0	1.0	22.0	6.0	6.0	7.0	50.0	<1.0	3.0	290.0	17.	3.	2.
VA08483	437.70	439.00	730.0	33.0	64.0	0.7	12.0	16.0	20.0	7.0	36.0	<1.0	3.0	1000.0	34.	2.	4.
VA08484	439.00	440.00	760.0	33.0	73.0	1.1	21.0	12.0	12.0	13.0	39.0	<1.0	3.0	380.0	31.	2.	3.
VA08485	440.00	441.10	910.0	18.0	69.0	<0.5	19.0	4.0	4.0	9.0	20.0	<1.0	5.0	345.0	21.	2.	2.
VA08486	441.10	442.00	910.0	12.0	40.0	<0.5	8.0	4.0	4.0	<5.0	7.0	<1.0	4.0	700.0	23.	1.	2.
VA08487	445.60	446.60	810.0	8.0	38.0	<0.5	6.0	4.0	4.0	<5.0	5.0	<1.0	3.0	710.0	17.	1.	2.
VA08488	446.60	447.20	870.0	12.0	75.0	0.8	26.0	8.0	20.0	<5.0	14.0	<1.0	4.0	750.0	14.	4.	3.
VA08489	447.20	448.00	980.0	12.0	35.0	<0.5	23.0	6.0	4.0	<5.0	<5.0	<1.0	3.0	800.0	26.	4.	3.
VA08490	448.00	449.00	1000.0	16.0	55.0	<0.5	<5.0	8.0	24.0	<5.0	<5.0	<1.0	3.0	800.0	23.	1.	2.
VA08491	457.00	458.00	490.0	12.0	73.0	<0.5	<5.0	12.0	18.0	<5.0	5.0	<1.0	3.0	1400.0	14.	2.	4.

Summary Log: DDH CH88-66
Location: 29+50 W, 5+01 S; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 10, 1988
Core Logged By: D.P. Money

0.0	- 7.9	Casing.
7.9	- 128.5	Gabbro.
128.5	- 149.5	Epidote spotted mafic tuff.
149.5	- 152.8	Andesitic ash tuff.
152.8	- 198.3	Epidote spotted mafic tuff.
198.3	- 215.0	Tuffaceous conglomerate.
215.0	- 220.6	Cherty argillites.
220.6	- 224.0	Mafic ash tuff.
224.0	- 228.0	Chloritic felsic lapilli tuff.
228.0		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-66 | Page Number 1

Hole Location: 29+50 W 5+01 S

NTS: 092B/13 UTM:
Azimuth: 180 Elevation: 806 m
Dip: -50 Length: 228.0 m

Started: June 5, 1988
Completed: June 10, 1988

Claim No. Holyoak 2
Section No.: Section 29+50 West, Holyoak Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To develop a stratigraphic section.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
15.20		-50.5	228.00		-52.0
106.70		-50.5			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	7.9	OVERBURDEN Gabbro pebbles and very oxidized blocky, highly fractured core. No chit to mark start of coring, bedrock probably starts at 7.5 m.											
7.9	128.5	FELDSPAR PORPHYRITIC GABBRO											
	7.9 19.4	Medium grained with approximately 35 to 40 %, 1.5 to 4 mm, feldspars and 3 to 5 %, < 2 mm, ilmenite with leucoxene and sphene rims in fine-grained medium to light green matrix. Is oxidized to depth of 12.8 m. There is moderate very local fracture controlled epidote veinlets. Locally there is fine-grained gabbro with 3 to 5 % brown sphene. At 17.0 there are up to 1 cm chalcopyrite clots in a 10 cm quartz - calcite vein.	VA01212	9.0	39.0	30.0	n/a	318	n/a	58	n/a	n/a	85
			VA02076	22.8	24.0	1.2	0	155	<5	85	<1	<5	100
			VA02077	24.0	25.5	1.5	0	158	<5	79	<1	<5	70
			VA02078	26.0	27.0	1.0	0	190	<5	77	<1	<5	250
			VA02079	27.0	28.5	1.5	0	180	<5	70	<1	<5	80
			VA01213	40.0	75.0	35.0	n/a	345	n/a	69	n/a	n/a	147
			VA02080	64.6	65.3	.7	0	270	<5	32	<1	<5	20
			VA02081	77.6	78.6	1.0	0	150	<5	75	<1	<5	30
			VA02082	78.6	80.2	1.6	0	190	<5	70	<1	<5	250
			VA01214	80.0	95.0	15.0	n/a	310	n/a	70	n/a	n/a	97
			VA01215	100.0	125.0	25.0	n/a	318	n/a	73	n/a	n/a	72
	19.4 19.8	STRONG PERVASIVE EPIDOTIZATION as strong replacement of feldspars in rock same as from 7.9 to 19.4.											
	19.8 22.8	Similiar to 7.9 to 19.4 with slightly more local fracture controlled and pervasive weak to moderate epidotization from 19.8 to 21.0.											
	22.8 26.6	Dark to locally light green siliceous gabbro with 5 to 25 % dark to reddish brown sphene (?), with average approximately 15 to 17 %. There are numerous fracture controlled calcite and quartz veins and veinlets. Sphene has no crystal shape and averages 3 to 4 mm clots.											
	26.6 27.6	Similiar to 19.8 to 22.8 with trace to 1 % hematite and approximately 5 % sphene.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-66

From (m)	To (m)	----------DESCRIPTION----------
27.6	28.0	Similiar to 22.8 to 26.6 with strong lineation at 70 to 90 degrees to core axis.
28.0	28.5	As from 26.6 to 27.6, but with lineation.
28.5	85.8	Medium grained with 35 to 40 %, 1 to 3 mm feldspars in up to 5 mm clusters. Averages 2 to 3 % ilmenite with approximately 3 % sphene (?), purple mineral rimming ilmenite. Matrix is chloritic and fine-grained to equigranular to the feldspars with less developed crystals than the moderately developed feldspar laths. There is weak local pervasive epidotization associated with minor fracture controlled epidote veins and veinlets.
33.7	20.0	Cm zone occupying 33 % of the core of same as 22.8 to 26.6 with minor sphene persisting into gabbro for 1 cm.
49.9	50.1	Approximately 5 cm fault slip to breccia at 20 degrees to core axis.
61.9	62.0	Minor fine-grained glassy zone.
63.4	63.5	Same as 61.9 to 62.0.
63.5	63.8	Medium grained gabbro with minor approximately 1 cm chloritic shears at 42 degrees to core axis.
64.6	65.3	STRONG SPOTTY EPIDOTIZATION as coarse epidotized feldspars as 10 to 20 cm zones in minor fine-grained zone with 1 to 2 % chalcopyrite from 64.7 to 64.8.
70.4	70.8	Locally bleached and fine-grained with feldspar - carbonate vein, 3 to 5 % brown sphene and trace chalcopyrite.
77.6	80.2	Medium to fine-grained gabbro with trace to 5 % brown sphene and approximately 2 % yellow feldspar - carbonate veinlets with trace local brecciation. Is bleached at veinlets.
85.1	85.6	Locally fine-grained with minor zones of strong epidote.
85.8	86.0	Fine-grained with feldspar - calcite veins and approximately 15 to 20 % brown sphene.
66.0	87.3	Fine-grained medium green to grey with moderate fracture controlled epidote. There is minor sphene, leucoxene and ilmenite, total aprx 4 %.
87.3	96.4	Medium grained medium green to grey with approximately 30 % 2 to 4 mm feldspar clots and on average 1.5 % ilmenite, locally with up to 1 % leucoxene as rims to the ilmenite. There is 1 to 2 % fracture controlled epidote and calcite as veinlets at orientations of 0 to 80 degrees to core axis.
96.4	97.3	Fine-grained glassy with spotty epidotization and minor quartz veins.
97.3	115.6	Medium to fine-grained with 15 to 20 %, 2 to 3 mm, feldspar clots and 1 % ilmenite with 2 %

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

From (m)	To (m)	DESCRIPTION
		leucoxene in fine-grained light to medium greyish green matrix.
	112.5 112.8	4 cm thick white calcite - quartz - sericite (?) vein, folded.
	115.6 126.4	Fine-grained with minor up to 1 m medium grained zones as from 97.3 to 115.6. There is weak fracture controlled epidotization with minor up to 10 cm zones of moderate pervasive epidotization. Feldspars average 3 to 5 %, 1 to 3 mm clots. There is approximately 1 to 2 % combined ilmenite and leucoxene.
	126.4 126.6	Brown strongly altered gabbro with fracture controlled yellow feldspar and carbonate veinlets.
	126.6 128.1	Gabbro (?) with approximately 3 %, 1 to 2.5 mm feldspars, and approximately 7 %, 1 to 2 mm, mafic crystals. There is weak fracture controlled epidotization.
	128.1 128.5	Brown alteration, similiar to 126.4 to 126.6.
		Lost core :.
		11.0 14.0 : 0.1 m.
		14.0 16.5 : 0.4 m.
		18.0 18.9 : 0.2 m.
		23.2 : 0.2 m prior to chit.
		25.5 : 0.3 m prior to chit.
		30.8 33.4 : 0.2 m.
		38.7 39.2 : 0.2 m.
		39.2 40.5 : 0.3 m.
		51.8 53.0 : 0.5 m.
		53.0 54.3 : 0.4 m.
		63.4 : 0.3 m prior to chit.
		72.2 74.4 : 0.2 m.
		101.3 102.7 : 0.3 m.
		115.5 117.3 : 0.2 m.
128.5	149.5	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF Medium to dark green to brown mafic tuff with approximately 25 % epidotized lapilli and variable crystals in the matrix, average approximately 10 %, up to 1 mm, mafic crystals and approximately 10 % feldspar crystals. There is moderate to strong fracture controlled carbonatization associated with the epidote. Is contorted with moderate epidotization and carbonatization from 130.0 to 132.5 with trace chalcopyrite specks associated with the alteration. In 10 cm alteration spot at 144.7 there is pink mineral, zoisite (?) in core of epidote - (calcite) altered lapilli. From 144.85 to 145.05 there is light brown sediments. At upper contact there is blocky, highly fractured core with fracture controlled hematite

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01216	128.5	149.5	21.0	n/a	245	n/a	23	n/a	n/a	230
VA02083	130.0	131.2	1.2	0	340	<5	42	<1	<5	90
VA02084	131.2	132.5	1.3	0	780	<5	46	<1	<5	260

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		and very strong epidotization for approximately 0.5 m. Epidote locally fills round < 1 cm cavities, vesicles or amygdules (?). Calcite in epidote is locally very angular as if replacing fragments. Foliations :. 129.3 : 37 degrees to core axis. 136.7 : 38 degrees to core axis. 142.5 : 31 degrees to core axis. 145.4 : 39 degrees to core axis. Lost core :. 137.7 138.0 : 0.2 m in blocky, highly fractured core. Alteration :. 128.5 149.5 STRONG SPOTTY EPIDOTIZATION. 128.5 149.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
149.5	152.8	INTERMEDIATE TUFF Fine-grained light green andesitic rock with trace to 0.5 % quartz eyes, approximately 2 % epidote grains to (?) vesicles and weak to moderate fracture controlled epidotization and carbonatization. Is very massive with calcite filled tension gashs perpendicular to the fracture controlled epidote veinlets. Locally there are up to 3 % chloritic grains, probably after mafic crystals.	VA01217	149.5	152.8	3.3	n/a	140	n/a	37	n/a	n/a	77
152.8	162.7	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF Similiar to 128.5 to 149.5. Massive dense mafic. Locally crystal rich, approximately 25 % mafic crystals and 30 % epidotized feldspar crystals, all < 1 mm to massive epidote. Strong spotty epidotization or epidotized lapilli constitute approximately 30 % of the core. Epidote is associated with trace local pink zoisite and fracture controlled white calcite veinlets. Matrix is dark green - black to medium green in colour. From 160.4 to 161.0 there is approximately 1.5 % chalcopyrite in fractures in strongly epidotized tuff with fracture controlled black chlorite. There is trace chalcopyrite in the rest of the interval. Locally, up to 10 cm thick, occurences of magnetite exist in calcite in strongly altered and veined zones throughout the unit, most notably at 158.5 and 162.7. There is approximately 30 % magnetite over 10 cm at 162.7 and over 5 cm at 158.5. Chalcopyrite occurs in trace amounts with the magnetite, except at 162.7, where there is aprx 5 % chalcopyrite from 162.5 to 162.7. Fracture controlled quartz veinlets occur locally in the strongly epidotized areas. Is not foliated. Alteration :. 152.8 162.7 STRONG SPOTTY EPIDOTIZATION. 152.8 162.7 STRONG FRACTURE CONTROLLED CARBONATIZATION. 152.8 162.7 WEAK FRACTURE CONTROLLED SILICIFICATION.	VA01218	153.0	162.0	9.0	n/a	144	n/a	22	n/a	n/a	10
			VA02085	159.0	160.4	1.4	0	30	<5	56	<1	<5	60
			VA02086	160.4	161.0	.6	2	1820	<5	54	<1	20	120
			VA02087	161.0	162.3	1.3	0	23	<5	42	<1	<5	30
			VA02088	162.3	162.8	.5	3	2600	<5	42	<1	27	120

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		152.8 162.7 MODERATE SPOTTY CHLORITIZATION.											
162.7	164.0	MAFIC TUFF Fine-grained massive medium green tuff with approximately 15 % very fine-grained mafic crystals and 30 % fine-grained feldspar crystals. There local fracture controlled epidote and calcite veinlets. Trace to 2 % chloritized 1 to 3 mm hornblendes (?) occur.											
164.0	198.3	FELDSPAR PORPHYRITIC MAFIC LAPILLI TUFF Similiar to previous mafic lapilli tuffs. Grey to dark green to black matrix with on average 15 % lapilli or alteration spots. Is massive and may locally be pervasively silicified. There are on average 20 % crystals in the matrix, mostly up to 1 mm epidotized feldspars with locally up to 1 m of up to 7 % mafic crystals. Locally there are 25 % (?) vesicles from 164.4 to 164.9, and very locally between 193.5 and 196. There is weak to moderate fracture controlled carbonatization, chloritization and silicification associated with the epidotized lapilli or epidotization. From 171.7 to 172.8 there is approximately 1 % chalcopyrite and 5 % magnetite associated with fracture controlled veinlets and carbonatization as before. From 188.7 to 189.4 there is approximately 1.5 % chalcopyrite blebs in calcite and epidote spots in moderately silicified grey fine-grained tuff. At 194.6 there is trace chalcopyrite in a quartz vein. There is minor pink zoisite (?) in the epidote clots from 164 to 169. There is minor chalcopyrite blebs associated with epidotization at 191.1 and 192.9. There is weak variable foliation at 45 to 90 degrees to core axis locally with weak fracture controlled hematite. Alteration :. 164.0 198.3 STRONG SPOTTY EPIDOTIZATION. 164.0 198.3 WEAK FRACTURE CONTROLLED CARBONATIZATION. 188.7 190.0 MODERATE PERVASIVE SILICIFICATION. Lost core :. 182.0 184.4 : 0.2 m.	VA01219	164.0	184.0	20.0	n/a	131	n/a	25	n/a	n/a	160
			VA02089	170.7	171.7	1.0	0	92	<5	51	<1	<5	190
			VA02090	171.7	172.8	1.1	1	360	<5	55	<1	7	150
			VA02091	172.8	174.0	1.2	0	80	<5	50	<1	<5	110
			VA01220	184.0	198.0	14.0	n/a	346	n/a	49	n/a	n/a	123
			VA02092	187.7	188.7	1.0	0	460	<5	82	<1	<5	260
			VA02093	188.7	189.4	.7	2	1080	<5	35	<1	<5	40
			VA02094	189.4	190.4	1.0	0	63	<5	20	<1	<5	90
198.3	215.0	TUFFACEOUS CONGLOMERATE Felsic to locally mafic matrix with small pebble to cobble sized clasts. From upper contact to approximately 200 m there are approximately 15 to 20 % 2 cm long and 0.5 cm wide grey cherty clasts, 10 % up to 1.5 cm rounded epidote clasts and minor sand sized quartz grains in felsic matrix. From approximately 200 to 210 m there are	VA01221	199.0	215.0	16.0	n/a	177	n/a	22	n/a	n/a	142

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-66 Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		large cobbles or brecciated felsic and mafic ash tuffs with fracture controlled chlorite, calcite and hematite. From 210 to 215 is similiar to from the upper contact to 200 m with addition of argillite clasts and epidotized cobbles. Bedding :. 213.1 : 69 degrees to core axis. 213.4 : 62 degrees to core axis.											
215.0	220.6	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Dark grey to brown to black cherty argillaceous sediments with approximately 20 % tuffaceous material interbedded and as clasts. At 216.0 there is strong fracture controlled hematite, which is locally weakly fracture controlled. From 215.0 to 215.8 there is strong fracture controlled carbonatization, moderate to weak from 215.8 to 219.5. Tops is unclear with fining and load structures indicating both up- and down-hole. Bedding :. 216.2 : 31 degrees to core axis. 217.1 : 37 degrees to core axis. 218.8 : 31 degrees to core axis. Lost core :. 219.5 220.4 : 0.4 m.	VA02095 VA02096 VA02097 VA02098	215.0 216.0 217.5 219.0	216.0 217.5 219.0 220.6	1.0 1.5 1.5 1.6	0 0 0 0	18 88 120 124	<5 <5 <5 11	34 30 25 175	<1 <1 <1 <1	<5 <5 <5 <5	1000 290 240 360
220.6	224.0	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Epidote spotted mafic tuff with approximately 15 % average, 5 to 25 %, 1 to 2 mm, epidote grains in the matrix. There are minor fracture controlled hematite and quartz veinlets. From 223.6 to 224.0 there is approximately 2 % fracture controlled pyrite and a chalcopyrite bleb occurs at 221.8 in epidote. Blocky, highly fractured core. Massive with negligible foliation. Lost core :. 220.4 221.6 : 0.4 m. 221.6 223.1 : 0.7 m. 223.1 226.5 : 0.6 m.	VA01222	221.0	224.0	3.0	n/a	139	n/a	13	n/a	n/a	397
224.0	228.0	CHLORITIC FELSIC LAPILLI TUFF Siliceous grey to weakly pink and brown tinged felsic lapilli in chloritic matrix with approximately 10 %, 1 to 2 mm, quartz eyes and 5 %, 1.5 mm, feldspars in the matrix. Approximately 80 % lapilli. There are	VA01223	224.0	228.0	4.0	n/a	103	n/a	<10	n/a	n/a	1460

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)

approximately 2 % brown micaceous << 1 mm specks in the lapilli. There is weak to moderate local fracture controlled carbonatization in lapilli and matrix.

Foliations :.
225.6 : 52 degrees to core axis.
225.8 : 25 degrees to core axis.
226.8 : 30 degrees to core axis.
227.1 : 28 degrees to core axis.
227.5 : 49 degrees to core axis.
Bedding :.
224.1 : 23 degrees to core axis.

End of hole: 748 feet (228.0 m) on Friday June 10, 1988 at 12:45 p.m.

Total lost core = 6.3 m; % Recovery = 97.2 %.

Acid tests taken as Sperry-Sun replacement single-shot did not arrive in time.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00790	16.00	16.50	48.60	15.00	11.10	5.05	2.24	0.57	12.90	2.44	0.22	0.19	2.00	100.31	180.	30.	13.
VA00791	25.50	26.00	47.80	15.00	7.20	2.94	1.34	1.03	11.30	2.57	0.22	0.12	10.80	100.32	126.	32.	9.
VA00792	39.00	39.50	49.10	15.20	11.10	4.87	2.69	0.19	12.30	2.31	0.21	0.17	2.23	100.37	57.	27.	14.
VA00793	56.50	57.00	49.80	14.30	11.00	5.11	2.84	0.14	12.20	2.26	0.21	0.17	2.16	100.19	56.	28.	14.
VA00794	90.00	90.50	48.70	13.70	10.70	6.07	2.62	0.26	13.20	2.42	0.21	0.20	1.93	100.01	104.	32.	13.
VA00795	112.00	112.50	48.00	13.40	10.70	6.01	2.25	0.22	13.30	2.42	0.22	0.19	3.23	99.94	117.	32.	13.
VA00796	127.00	127.50	48.30	13.50	9.73	5.70	2.34	0.05	14.30	2.76	0.26	0.20	3.08	100.22	68.	32.	12.
VA00797	128.10	128.20	47.70	14.00	5.06	2.98	2.26	0.57	12.20	2.90	0.26	0.17	12.10	100.20	212.	33.	7.
VA00798	143.00	144.00	47.20	17.60	8.07	4.72	4.52	0.91	11.60	0.84	0.25	0.20	4.08	99.99	229.	31.	13.
VA00799	150.00	150.50	45.90	17.00	13.70	5.37	2.62	0.12	12.00	0.72	0.15	0.17	2.23	99.98	43.	25.	16.
VA00800	181.10	182.10	46.40	17.20	7.82	4.73	4.28	1.25	12.10	0.72	0.19	0.15	5.08	99.92	295.	33.	12.
VA00801	225.40	225.60	63.30	19.10	3.40	0.85	8.73	1.20	0.42	0.36	0.07	0.02	2.54	99.99	1180.	14.	12.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01212	9.00	39.00	47.00	14.60	11.10	4.69	2.20	0.32	12.30	2.33			5.00	99.54	85.	27.	13.
VA01213	40.00	75.00	48.30	14.60	10.70	5.14	2.40	0.32	12.40	2.29			3.47	99.62	147.	29.	13.
VA01214	80.00	95.00	47.00	13.30	10.80	6.03	2.22	0.24	12.90	2.29			4.31	99.09	97.	33.	13.
VA01215	100.00	125.00	47.90	13.70	11.10	6.05	2.14	0.19	13.40	2.45			2.54	99.47	72.	32.	13.
VA01216	128.50	149.50	45.80	17.40	10.30	3.80	3.68	0.68	11.70	0.74			5.16	99.26	230.	24.	14.
VA01217	149.50	152.80	47.00	16.60	12.00	5.34	3.15	0.15	10.60	0.71			2.16	97.71	77.	27.	15.
VA01218	153.00	162.00	42.20	17.10	18.40	3.21	0.78	0.34	13.40	0.58			3.85	99.86	10.	16.	19.
VA01219	164.00	184.00	45.00	16.40	10.90	4.51	3.21	0.90	12.30	0.68			5.39	99.29	160.	28.	14.
VA01220	184.00	198.00	42.80	16.00	13.30	4.77	2.09	0.39	13.00	0.70			6.31	99.36	123.	25.	15.
VA01221	199.00	215.00	44.70	15.70	16.40	4.41	0.94	0.38	12.00	0.53			4.23	99.29	142.	22.	17.
VA01222	221.00	224.00	60.30	17.60	3.98	1.91	6.82	0.41	5.73	0.30			2.54	99.59	397.	18.	11.
VA01223	224.00	228.00	67.50	16.90	2.87	1.28	6.22	1.76	0.66	0.35			2.62	100.16	1460.	25.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	EIS	FE
VA02076	22.80	24.00	100.0	155.0	85.0	<0.5	<5.0	24.0	56.0	<5.0	<5.0	<1.0	3.0	1340.0	65.	0.	6.
VA02077	24.00	25.50	70.0	158.0	79.0	<0.5	<5.0	24.0	52.0	<5.0	7.0	<1.0	3.0	1320.0	67.	0.	6.
VA02078	26.00	27.00	250.0	190.0	77.0	<0.5	<5.0	24.0	52.0	<5.0	<5.0	<1.0	3.0	710.0	71.	0.	5.
VA02079	27.00	28.50	80.0	180.0	70.0	<0.5	<5.0	22.0	48.0	<5.0	<5.0	<1.0	2.0	595.0	72.	0.	5.
VA02080	64.60	65.30	20.0	270.0	32.0	<0.5	<5.0	10.0	36.0	<5.0	<5.0	<1.0	2.0	245.0	89.	0.	2.
VA02081	77.60	78.60	30.0	150.0	75.0	<0.5	<5.0	24.0	62.0	<5.0	5.0	<1.0	3.0	1000.0	67.	0.	6.
VA02082	78.60	80.20	250.0	190.0	70.0	<0.5	<5.0	26.0	60.0	<5.0	<5.0	<1.0	3.0	820.0	73.	0.	6.
VA02083	130.00	131.20	90.0	340.0	42.0	<0.5	<5.0	30.0	43.0	<5.0	<5.0	<1.0	2.0	650.0	89.	0.	5.
VA02084	131.20	132.50	260.0	780.0	46.0	<0.5	<5.0	28.0	44.0	<5.0	<5.0	<1.0	3.0	850.0	94.	0.	6.
VA02085	159.00	160.40	60.0	30.0	56.0	<0.5	<5.0	20.0	23.0	<5.0	<5.0	<1.0	1.0	1150.0	35.	0.	3.
VA02086	160.40	161.00	120.0	1820.0	54.0	<0.5	20.0	22.0	28.0	<5.0	<5.0	<1.0	2.0	1280.0	97.	2.	4.
VA02087	161.00	162.30	30.0	23.0	42.0	<0.5	<5.0	24.0	28.0	<5.0	<5.0	<1.0	3.0	1220.0	35.	0.	4.
VA02088	162.30	162.80	120.0	2600.0	42.0	<0.5	27.0	26.0	32.0	<5.0	<5.0	<1.0	2.0	1150.0	98.	3.	6.
VA02089	170.70	171.70	190.0	92.0	51.0	<0.5	<5.0	30.0	37.0	<5.0	<5.0	<1.0	2.0	750.0	64.	0.	6.
VA02090	171.70	172.80	150.0	360.0	55.0	<0.5	7.0	32.0	40.0	<5.0	<5.0	<1.0	3.0	1000.0	87.	1.	6.
VA02091	172.80	174.00	110.0	80.0	50.0	<0.5	<5.0	22.0	26.0	<5.0	<5.0	<1.0	2.0	730.0	62.	0.	5.
VA02092	187.70	188.70	260.0	460.0	82.0	<0.5	<5.0	32.0	30.0	<5.0	<5.0	<1.0	2.0	900.0	85.	0.	5.
VA02093	188.70	189.40	40.0	1080.0	35.0	<0.5	<5.0	12.0	20.0	<5.0	<5.0	<1.0	2.0	410.0	97.	2.	2.
VA02094	189.40	190.40	90.0	63.0	20.0	<0.5	<5.0	4.0	16.0	<5.0	5.0	<1.0	19.0	310.0	76.	0.	1.
VA02095	215.00	216.00	1000.0	18.0	34.0	<0.5	<5.0	6.0	26.0	<5.0	<5.0	<1.0	5.0	210.0	35.	0.	2.
VA02096	216.00	217.50	290.0	88.0	30.0	<0.5	<5.0	6.0	32.0	<5.0	<5.0	<1.0	4.0	150.0	75.	0.	2.
VA02097	217.50	219.00	240.0	120.0	25.0	<0.5	<5.0	2.0	20.0	<5.0	<5.0	<1.0	76.0	95.0	83.	0.	1.
VA02098	219.00	220.60	360.0	124.0	175.0	<0.5	<5.0	24.0	26.0	11.0	20.0	<1.0	3.0	1600.0	41.	0.	4.

Summary Log: DDH CH88-67
Location: 29+50 W, 3+50 S; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 15, 1988
Core Logged By: D.P. Money

0.0	- 16.3	Casing.
16.3	- 18.6	Chloritic felsic crystal tuff.
18.6	- 24.0	Mafic ash tuff.
24.0	- 41.5	Variably chloritic felsic crystal tuff.
41.5	- 46.9	Fault zone.
46.9	- 55.7	Felsic crystal tuff.
55.7	- 59.8	Mafic sill.
59.8	- 88.0	Felsic quartz-feldspar phyric intrusive with trace disseminated pyrite.
88.0	- 159.6	Variably chloritic felsic crystal tuffs with minor < 2 m mafic tuff beds and mafic sills. There is 3 % disseminated pyrite from 112.3 to 115.3.
159.6	- 178.5	Hornblende phyric epidote spotted mafic tuff.
178.5	- 205.5	Intercalated thin (< 1 to 7.2 m thick) felsic and mafic ash, crystal and lapilli tuffs.
205.5	- 208.7	Fault zone.
208.7	- 219.9	Felsic crystal tuff.
219.9	- 248.2	Dominantly andesitic, (minor mafic and chloritic felsic component), crystal tuffs.
248.2	- 251.7	Chloritic felsic crystal tuff.
251.7	- 267.0	Mafic ash tuff.
267.0	- 268.2	Fault zone.
268.2	- 297.4	Chloritic felsic crystal tuff.
297.4	- 302.6	Intercalated thin mafic ash and felsic crystal tuffs.
302.6	- 306.3	Hornblende phyric mafic ash tuff.
306.3	- 317.0	Chloritic felsic crystal tuff.
317.0		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67 | Page Number 1

Hole Location: 29+50 W 3+50 S

NTS: 092B/13 UTM:
Azimuth: 180 Elevation: 816 m
Dip: -50 Length: 317.0 m

Started: June 10, 1988
Completed: June 15, 1988

Claim No. Holyoak 2
Section No.: Section 29+50 West, Holyoak Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To develop a stratigraphic section.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
317.00	186.0	-47.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	16.3	OVERBURDEN No chit marked start of coring.											
16.3	18.6	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Chloritic felsic tuff with approximately 7 %, 2 mm, quartz eyes and 15 % epidote grains. There is 1 to 2 % disseminated pyrite. Minor fracture controlled calcite veinlets occur. Foliation and possibly bedding are parallel to the core axis. 16.3 18.6 WEAK PERVASIVE CHLORITIZATION. Lost core :. 16.8 18.6 : 1.0 m.	VA02099	16.3	18.6	2.3	2	40	<5	39	<1	<5	1100
18.6	24.0	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Blocky, highly fractured core with minor fault gouge. Upper contact and lower contact locations are uncertain due to lost core. Is locally massive to foliated and kinked with approximately 20 %, 1 to 2 mm, epidotized feldspar grains and on average 5 % calcite veinlets. Foliations and fault gouge trend at approximately 70 to 90 degrees to core axis. Lost core :. 18.6 20.4 : 1.1 m. 21.9 23.8 : 0.9 m.	VA01224	18.6	23.8	5.2	n/a	153	n/a	64	n/a	n/a	1120
			VA02100	23.8	26.5	2.7	2	40	<5	38	<1	<5	1100
24.0	28.0	CHLORITIC FELSIC QUARTZ EYE TUFF Weakly chloritic felsic tuff with approximately 7 %, 1 to 3 mm, quartz eyes and 2 % fracture controlled pyrite. Very blocky, highly fractured core. Foliation at approximately 60 to 80 degrees to core axis.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		24.0 28.0 WEAK PERVASIVE CHLORITIZATION. Lost core :. 23.8 26.5 : 2.0 m. 26.5 29.9 : 3.0 m.											
28.0	41.5	FELSIC QUARTZ EYE TUFF Sericitic felsic with approximately 7 %, 3 to 7 mm, average 3 to 4 mm, quartz eyes. Is brittlely deformed with numerous local 1 to 20 cm zones of fault gouge. There is trace to 1 % disseminated pyrite. Foliations and fault gouge vary from approximately 45 to 90 degrees to core axis locally. There is very weak local fracture controlled carbonatization. Lost core :. 29.9 31.4 : 0.8 m. 35.7 38.7 : 0.3 m. 38.7 39.9 : 0.5 m. 39.9 41.5 : 0.4 m.	VA01225	29.9	41.5	11.6	n/a	109	n/a	<10	n/a	n/a	1510
41.5	46.9	FAULT ZONE Blocky, highly fractured core and fault gouge. Fault slips average 45 to 50 degrees to core axis. Sericitic felsic to approximately 43 m and weakly chloritic felsic quartz eye tuff with foliation at 80 to 90 degrees to core axis to 47 m. Fault gouge is locally pyrite rich. Lost core :. 42.1 44.5 : 1.1 m. 44.5 45.4 : 0.2 m. 45.4 46.9 : 0.3 m.											
46.9	55.7	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Sericitic felsic, moderately schistose, probably tuff. Hosts 10 to 12 %, 1 to 5 mm, clear quartz eyes and approximately 3 %, 1 to 2 mm, feldspars. There is 2 % disseminated pyrite from 46.9 to 47.7 and trace after 47.7. There is blocky, highly fractured core from 48.6 to 49.4, 50.3 to 51.2 and 52.5 to 55.2. Foliations :. 47.5 : 23 degrees to core axis. 49.6 : 26 degrees to core axis. 52.4 : 25 degrees to core axis. Lost core :. 49.4 51.2 : 0.2 m. 53.6 54.3 : 0.2 m.	VA02101 VA01226	46.9 47.7	47.7 55.7	.8 8.0	2 n/a	5 99	<5 n/a	8 <10	<1 n/a	<5 n/a	1400 1590
55.7	59.8	MAFIC INTRUSIVE Early mafic sill.	VA02102	55.7	57.3	1.6	4	120	9	19	1	<5	2900

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67 Page Number 3

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Mustard yellow tinged green mafic sill with strong pervasive carbonatization and approximately 3 % fine-grained disseminated pyrite. Occurs with weakly chloritized quartz eye felsic from 55.7 to 56.4 and 58.1 to 59.8 with approximately 5 to 7 % pyrite in the felsic. Upper contact at approximately 10 degrees to core axis. Lower contact at approximately 15 degrees to core axis. Minor fault slips occur sub- parallel to the contacts and foliation, which averages 15 degrees to core axis, 5 to 20 degrees to core axis locally. Alteration :. 56.0 59.0 STRONG PERVASIVE CARBONATIZATION. Lost core :. 57.3 59.7 : 0.3 m.	VA02103	57.3	59.0	1.7	4	260	<5	17	<1	13	3900
			VA02104	59.0	59.8	.8	5	170	6	15	<1	16	2300
59.8	86.8	FELSIC INTRUSIVE Massive light grey siliceous felsic with on average 10 %, 1.5 mm to 8 mm, average approximately 4 mm, quartz eyes. There is approximately 5 %, < 1 mm, white feldspars and clear quartz eyes. The large quartz eyes are dark grey to locally weakly bluish. There is trace to 1 %, average approximately 0.5 %, fine-grained disseminated and fracture controlled pyrite from 59.8 to 74.6 and trace to nil after 74.6. There is minor local weak fracture controlled silicification and sericitization. Quartz eye content increases and the rock becomes more siliceous downhole as the pyrite content decreases. Alteration :. 59.8 86.8 WEAK FRACTURE CONTROLLED CARBONATIZATION , very weak. Lost core :. 76.0 77.1 : 0.2 m. 84.4 85.3 : 0.2 m.	VA02105	59.8	62.0	2.2	1	5	<5	5	<1	<5	2800
			VA01227	60.0	74.0	14.0	n/a	97	n/a	<10	n/a	n/a	2550
			VA02106	62.0	64.0	2.0	1	4	13	3	<1	<5	1700
			VA02107	64.0	66.0	2.0	1	4	77	4	<1	<5	1400
			VA02108	66.0	68.0	2.0	1	4	59	5	<1	<5	2400
			VA02109	68.0	70.0	2.0	1	4	35	4	<1	<5	1900
			VA02110	70.0	72.0	2.0	1	4	35	5	<1	6	2600
			VA02111	72.0	74.6	2.6	1	4	47	4	<1	<5	2400
			VA02112	74.6	76.0	1.4	0	4	67	7	<1	<5	2500
			VA01228	75.0	86.0	11.0	n/a	102	n/a	<10	n/a	n/a	3940
			VA02113	82.0	83.0	1.0	0	6	63	5	<1	<5	4300
86.8	87.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF Tan and green alteration zone or lapilli tuff. 80 % light brown sericitic lapilli with quartz eyes in dark green chloritic matrix with trace mariposite. Probably alteration of felsic as contacts are mainly at fractures.											
87.2	88.0	FELSIC INTRUSIVE Very similiar to 59.8 to 86.8, weakly sericitic, may be tuff, very weak fracture controlled carbonatization.											
88.0	90.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light green to brown altered felsic tuff with minor quartz - carbonatization veins and approximately 5 % quartz eyes	VA01229	88.0	90.3	2.3	n/a	125	n/a	<10	n/a	n/a	3450

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67 | Page Number 4

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		in the matrix. There is minor fault gouge and blocky, highly fractured core. Foliation averages approximately 60 degrees to core axis. There is on average 1 % fracture controlled pyrite.											
90.3	104.8	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light white - yellow to locally grey felsic with 7 to 10 %, 2 to 5 mm, grey quartz eyes. There is spotty local weak carbonatization. Hosts trace disseminated pyrite. Probably is tuff, similiar to (?) dome, but is much more sericitic. Weakly chloritic from 103 to lower contact. Alteration :. 90.3 104.3 WEAK SPOTTY CARBONATIZATION. Foliations :. 96.1 : 23 degrees to core axis. 96.9 : 45 degrees to core axis. 103.5 : 50 degrees to core axis. Lost core :. 102.1 104.7 : 0.2 m.	VA01230 VA02114	91.0 98.4	104.0 100.0	13.0 1.6	n/a 1	103 4	n/a <5	<10 9	n/a <1	n/a <5	2010 1500
104.8	112.3	QUARTZ - SERICITE - CHLORITE SCHIST Sericite - chlorite to chlorite - sericite schist with approximately 3 % fine-grained quartz eyes and locally up to 2 % fine-grained magnetite. There is strong pervasive and fracture controlled carbonatization. Trace fracture controlled pyrite occurs. Is dominantly blocky, highly fractured core. Foliations :. 106.5 : 20 degrees to core axis. 109.4 : 21 degrees to core axis. Lost core :. 104.9 106.4 : 0.4 m. 106.4 107.3 : 0.6 m. 110.3 111.9 : 0.5 m. Alteration :. 104.8 112.3 STRONG PERVASIVE CARBONATIZATION.	VA02115 VA01231 VA02116 VA02117 VA02118	104.8 104.8 106.4 108.2 110.0	106.4 112.3 108.2 110.0 112.3	1.6 7.5 1.8 1.8 2.3	1 n/a 1 1 1	136 206 196 48 24	6 n/a 6 6 5	62 21 61 50 44	<1 n/a <1 <1 <1	<5 n/a <5 6 <5	1600 1440 1400 910 1200
112.3	118.6	WEAKLY CHLORITIC FELSIC TUFF Variable siliceous dark grey to green felsic tuff with < 5 % feldspar and quartz crystals. There is approximately 5 % chlorite. From 112.3 to 115.3 there is 2 to 3 % disseminated and fracture controlled pyrite. Locally there is weak to moderate fracture controlled carbonatization. 112.3 118.6 WEAK FRACTURE CONTROLLED CARBONATIZATION. 112.3 118.6 WEAK PERVASIVE CHLORITIZATION. Lost core :. 113.4 114.3 : 0.2 m. Foliations :.	VA02119 VA01232 VA02120	112.3 112.3 113.8	113.8 118.6 115.3	1.5 6.3 1.5	3 n/a 3	92 136 9	<5 n/a <5	32 14 25	<1 n/a <1	<5 n/a <5	1100 1400 2300

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		115.2 : 12 degrees to core axis.											
118.6	125.4	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light grey siliceous felsic tuff with variable quartz eyes and epidotized feldspars. Averages 8 % quartz eyes, up to 4 mm, average 2 mm, and 5 %, 2 mm, feldspars. From 123.9 to 124.5 there is moderate epidotization and weak chlorite associated with chloritic fault gouge at 22 and 35 degrees to core axis. There is on average 0.5 to 1 % disseminated pyrite, except in the fault zone where approximately 5 % occurs. There is weak to strong fracture controlled carbonatization locally. Foliations :. 121.3 : 48 degrees to core axis. 123.6 : 26 degrees to core axis. 124.8 : 34 degrees to core axis.	VA01233	118.6	125.4	6.8	n/a	122	n/a	<10	n/a	n/a	1560
125.4	125.9	MAFIC TUFF Mafic tuff or dyke with fine-grained margins and 15 % mafic and 10 % epidote crystals, up to 3 mm in the core. There is strong pervasive carbonatization, fracture controlled hematite and approximately 5 % pyrite clots.	VA02121	125.4	125.9	.5	5	344	<5	68	<1	<5	290
125.9	133.2	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Coarse to fine-grained felsic crystal tuff with on average 15 %, 1 to 3 mm, quartz eyes and 5 %, 1 to 2 mm, epidotized feldspars. There is weak to moderate fracture controlled chloritization associated with epidote rich zones, possibly more mafic tuff beds. There is minor fracture controlled calcite veinlets locally with associated hematite. Faults :. 127.9 : 2 cm clay fault gouge at 26 degrees to core axis. Foliations :. 126.5 : 34 degrees to core axis. 130.8 : 38 degrees to core axis. Lost core :. 127.0 128.3 : 0.4 m.	VA01234	125.9	133.2	7.3	n/a	122	n/a	<10	n/a	n/a	826
133.2	134.3	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Tuff, (?) mafic, with approximately 40 %, 1 to 3 mm, epidotized feldspars in dark green to light grey mafic to felsic matrix with locally up to 3 % quartz eyes. There is 1 to 1.5 % disseminated pyrite. Similiar to epidote rich zones of 125.9 to 133.2.	VA02122	133.2	134.3	1.1	2	216	<5	28	<1	6	1200

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
134.3	144.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Medium grey weakly contorted weakly siliceous felsic tuff with on average 7 % epidote grains and 5 % quartz eyes. Foliation is at approximately 55 degrees to core axis. There are epidote rich zones associated with large white quartz veins, which constitute 70 % of the zones from 134.4 to 135.5 and from 137.8 to 139.3. There is on average trace to 0.5 % disseminated pyrite. Alteration :. 134.3 144.2 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 134.3 144.2 WEAK PERVASIVE CHLORITIZATION. Foliations :. 136.1 : 48 degrees to core axis. 139.5 : 31 degrees to core axis. 143.0 : 28 degrees to core axis.	VA01235	135.0	144.0	9.0	n/a	108	n/a	12	n/a	n/a	3220
144.2	144.8	FAULT ZONE Fault gouge at approximately 70 degrees to core axis.											
144.8	152.6	FELSIC QUARTZ EYE TUFF Light grey to white sericitic schist with on average 10 %, 2 to 3 mm quartz eyes with calcite pressure shadows. There are approximately 3 % chlorite wisps. Foliation averages 17 degrees to core axis. There is trace disseminated pyrite.	VA01236	145.0	152.0	7.0	n/a	111	n/a	<10	n/a	n/a	1600
152.6	152.8	MAFIC INTRUSIVE Fine-grained light green mafic sill with 40 % quartz - (chlorite) veins and 4 % disseminated pyrite.											
152.8	159.6	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variable felsic tuff, siliceous grey to very chloritic green. Averages approximately 20 %, 2 mm, crystals, locally epidotized feldspar to quartz eye rich. From 156.5 to 157.0 and 157.6 to 158.1 is epidote rich with approximately 5 % disseminated and fracture controlled pyrite and may be mafic in these intervals. 152.8 159.6 MODERATE SPOTTY CHLORITIZATION. Foliations :. 154.4 : 38 degrees to core axis. 158.1 : 21 degrees to core axis.	VA01237 VA02123 VA02124 VA02125	153.0 156.0 157.0 158.0	159.6 157.0 158.0 159.6	6.6 1.0 1.0 1.6	n/a 3 3 3	132 12 156 20	n/a <5 <5 <5	17 24 31 24	n/a <1 <1 <1	n/a 22 24 12	1250 1200 1900 910
159.6	178.5	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF Light to dark green chloritic mafic with on average 20 %, < 1 cm to 15 cm, epidote - calcite lapilli, 5 to 7 %, 1 to 2 mm, chloritized hornblendes and 5 % epidotized	VA02126 VA01238 VA02127	159.6 160.0 161.0	161.0 178.0 163.0	1.4 18.0 2.0	3 n/a 3	246 273 86	<5 n/a 9	49 42 43	<1 n/a <1	7 n/a 7	890 537 890

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		feldspar grains, up to 2 mm. There is moderate fracture controlled carbonatization locally with associated hematite. To 167 there is approximately 2 % disseminated and fracture controlled pyrite. There is trace disseminated pyrite after with 10 cm of 1 % chalcopyrite at 173.4. Is massive with weak foliation trend from 30 to 45 degrees to core axis. From 177.3 to 177.5 there is 3 % chalcopyrite clots. Alteration :. 159.6 178.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	VA02128	163.0	165.0	2.0	3	76	<5	48	<1	6	700
			VA02129	165.0	167.0	2.0	3	1000	<5	86	1	6	70
			VA02130	173.0	174.0	1.0	0	154	<5	65	<1	<5	1200
			VA02131	177.0	178.0	1.0	1	1050	5	42	1	34	1200
178.5	180.1	FELSIC QUARTZ EYE TUFF Siliceous dark to medium grey to green felsic with approximately 10 %, 2 to 3 mm, quartz eyes, weak to moderate fracture controlled carbonatization and trace fine-grained disseminated pyrite. Foliation averages 30 degrees to core axis.											
180.1	181.6	MAFIC PORPHYRITIC MAFIC LAPILLI TUFF As from 159.6 to 178.5. Upper contact at 21 degrees to core axis and lower contact irregular.											
181.6	187.1	FELSIC QUARTZ EYE TUFF Dirty felsic tuff with approximately 5 % wisps of argillaceous material. There are approximately 2 to 3 %, 1 to 2 mm, quartz eyes. There is trace disseminated pyrite and minor local moderate fracture controlled carbonatization as calcite veinlets. Is cherty and siliceous with strong foliation, parallel to bedding (?), at 20 to 25 degrees to core axis.	VA01239	182.0	187.0	5.0	n/a	132	n/a	<10	n/a	n/a	1530
187.1	194.2	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Dark green to black, with minor argillite (?), fine-grained with on average 20 to 25 %, < 1 mm, epidote grains and up to 5 % calcite grains locally. There is on average 2 % disseminated pyrite. Alteration :. 187.1 194.2 STRONG PERVASIVE CARBONATIZATION. Lost core :. 188.1 191.1 : 0.4 m. Foliations :. 188.7 : 12 degrees to core axis. 193.3 : 22 degrees to core axis.	VA02132	187.1	189.0	1.9	1	78	<5	50	<1	9	1800
			VA01240	187.1	194.1	7.0	n/a	127	n/a	58	n/a	n/a	1970
			VA02133	189.0	191.0	2.0	1	150	6	91	<1	<5	1700
			VA02134	191.0	192.0	1.0	2	30	<5	95	<1	<5	1700
			VA02135	192.0	193.0	1.0	3	50	<5	77	<1	<5	2300
			VA02136	193.0	194.1	1.1	3	52	6	63	<1	<5	1800
194.2	201.4	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Medium grey to green felsic crystal tuff with on average 5	VA01241	194.2	201.4	7.2	n/a	143	n/a	<10	n/a	n/a	1030

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		%, 1 mm, feldspars and 10 %, 1 to 3 mm, quartz eyes. Is massive and siliceous. There is weak local fracture controlled carbonatization and trace to nil disseminated pyrite.											
201.4	203.0	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Medium to dark green mafic with on average 15 %, 1 mm, feldspars, 2 % pyrite and trace chalcopyrite. Is layered with one bed hosting 5 % magnetite. There is minor kinking and foliation is sub- parallel to the core axis. There is strong pervasive and fracture controlled carbonatization.	VA02137	201.4	203.0	1.6	3	156	<5	91	<1	<5	1200
203.0	205.5	CHLORITIC FELSIC QUARTZ EYE TUFF Dirty cherty felsic with weak green colour, due to chlorite, and 7 %, < 1.5 mm, quartz eyes. There is weak fracture controlled carbonatization and calcite in the pressure shadows around the quartz eyes. 203.0 205.5 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
205.5	208.7	FAULT ZONE Blocky, highly fractured core, fault gouge and chloritic felsic tuff. Motion is sub-parallel or parallel to the core axis. Lost core :. 206.3 208.2 : 0.1 m.											
208.7	219.9	FELSIC QUARTZ EYE TUFF Light grey to locally very weakly chloritized green with on average 7 %, 1 to 3 mm, quartz eyes. There is minor epidote rich zones towards local with mafic. There is trace disseminated pyrite. Foliations :. 209.0 : 23 degrees to core axis. 210.3 : 18 degrees to core axis. 211.5 : 18 degrees to core axis. 214.2 : 17 degrees to core axis. Lost core :. 212.0 213.7 : 0.3 m. 217.0 220.1 : 0.4 m. Alteration :. 208.7 219.9 MODERATE SPOTTY CARBONATIZATION.	VA01242	209.0	219.9	10.9	n/a	110	n/a	29	n/a	n/a	905
219.9	248.2	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Light green quartz - chlorite - sericite schist to tuff with up to 2 %, 2 mm, quartz eyes and 10 %, 1 to 2 mm, epidote grains. May be intermixed chloritic felsic and	VA01243	220.0	245.0	25.0	n/a	120	n/a	31	n/a	n/a	2180
			VA02138	228.0	229.5	1.5	1	6	<5	69	<1	<5	1200
			VA02139	232.0	233.0	1.0	1	6	<5	62	<1	11	1500

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		mafic tuffs. There is variable carbonatization from weak fracture controlled to strong pervasive. There is local fracture controlled chlorite associated with trace pyrite cubes. Carbonatization is stronger in the more mafic zones. There are minor local crystal rich beds. Pyrite occurs as trace disseminations. Bedding :. 226.7 : 16 degrees to core axis. 244.4 : 17 degrees to core axis. Foliations :. 231.2 : 38 degrees to core axis. 232.9 : 15 degrees to core axis. 244.6 : 14 degrees to core axis. 248.2 : 19 degrees to core axis. Lost core :. 238.0 239.0 : 0.2 m. 243.5 244.4 : 0.5 m. Alteration :. 219.9 248.2 MODERATE SPOTTY CARBONATIZATION.	VA02140	240.2	241.4	1.2	1	6	<5	15	<1	<5	5300
			VA02141	244.4	245.4	1.0	1	4	<5	31	<1	<5	3100
			VA02142	246.3	248.2	1.9	1	4	<5	42	<1	<5	3000
248.2	251.7	CHLORITIC FELSIC FELDSPAR CRYSTAL TUFF Chloritic felsic tuff with minor andesitic to mafic interbeds. Weakly contorted with local white and pink calcite layers up to 4 mm, and up to 3 % of the rock. There is trace to 0.5 % pyrite associated with the carbonatization. Foliation and bedding average approximately 25 degrees to core axis. From 250 to 251.5 there is 0.8 m lost core in zone of blocky, highly fractured core. 248.2 251.7 MODERATE PERVASIVE CHLORITIZATION.	VA01244	248.2	251.7	3.5	n/a	113	n/a	<10	n/a	n/a	3420
251.7	267.0	MAFIC TUFF Locally magnetic variably schistose mafic tuff with locally up to 1 %, 1.5 mm, mafic crystals and trace to 2 %, 1 mm, feldspars. Is weakly contorted near upper contact and strongly from 257.6. There is very strong pervasive and strong fracture controlled carbonatization. No pyrite was observed. Lost core :. 252.0 253.0 : 0.3 m. 256.0 258.0 : 0.7 m. 260.6 264.0 : 0.4 m. 264.0 266.7 : 0.2 m. 266.7 268.2 : 0.3 m. Fault gouge :. Minor at 252.3 and 265.8. Foliations :. 253.5 : 25 degrees to core axis. Alteration :.	VA01245	252.0	267.0	15.0	n/a	136	n/a	64	n/a	n/a	1340

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67 Page Number 10

From (m)	To (m)	DESCRIPTION
		251.7 267.0 STRONG PERVASIVE CARBONATIZATION.
267.0	268.2	FAULT ZONE Fault gouge and very blocky, highly fractured core. Half mafic and half felsic. 0.3 M lost core.
268.2	297.4	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Variably chloritic felsic tuff with on average approximately 3 %, 1 to 2 mm, quartz eyes and trace to 2 %, 1 mm, feldspar grains. Chloritization is fracture controlled or siliceous lapilli occur in a chloritic matrix. Locally weakly contorted. There is trace pyrite associated with fracture controlled veinlets. There is moderate fracture controlled carbonatization and calcite in pressure shadows. Both contacts at blocky, highly fractured core. Becomes more massive downhole, possibly weakly silicified. There are trace white quartz - calcite veins that cross-cut foliation. Foliations :. 270.2 : 15 degrees to core axis. 276.6 : 30 degrees to core axis. 278.1 : 21 degrees to core axis. 288.8 : 17 degrees to core axis. 293.4 : 23 degrees to core axis. Lost core :. 269.7 271.4 : 0.3 m. 296.3 298.4 : 0.8 m. Alteration :. 268.2 297.4 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 268.2 297.4 MODERATE FRACTURE CONTROLLED CHLORITIZATION.
297.4	298.4	MAFIC TUFF Fine-grained mafic tuff to green chlorite schist with weak to moderate fracture controlled carbonatization and a 8 mm pyrite cube at 297.6 in a fracture controlled black chlorite - calcite vein. Is blocky, highly fractured core with clay fault gouge from 298.1 to 298.4. Foliation is at 72 degrees to core axis.
298.4	300.4	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light grey felsic tuff with approximately 5 %, 1 mm, feldspars and 3 %, 1 mm, quartz eyes. Foliation at 60 degrees to core axis. There is 0.6 m lost core between 299 and 300. There is weak fracture controlled carbonatization.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01246	269.0	296.0	27.0	n/a	123	n/a	51	n/a	n/a	1170

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67 Page Number 11

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
300.4	301.0	MAFIC TUFF Contorted carbonatized mafic with white quartz veins.											
301.0	302.6	CHLORITIC FELSIC QUARTZ EYE TUFF Medium green chloritic felsic tuff with approximately 9 %, 1 mm, fractured quartz eyes with calcite and approximately 3 % feldspars. Chloritization is strong and fracture controlled and pervasive. 301.0 302.6 WEAK PERVASIVE CHLORITIZATION. Foliation :. 302.4 : 44 degrees to core axis.											
302.6	306.3	MAFIC PORPHYRITIC MAFIC ASH TUFF Light to dark green schistose mafic tuff with approximately 3 % mafic crystals, (black chlorite specks) and trace feldspars and up to 1 cm epidotized lapilli. Is strongly sheared. Locally moderately to not magnetic with nil to 2 % weakly hematized magnetite, < 2.5 mm crystals. There are 2 cm pyrite cubes at 302.9, 304.3 and 304.5. There are trace minor smaller pyrite cubes. There is approximately 3 % quartz - calcite - chlorite veins. There is weak to moderate pervasive carbonatization. Alteration :. 302.6 306.3 MODERATE PERVASIVE CARBONATIZATION. Foliations :. 303.0 : 57 degrees to core axis. 304.2 : 53 degrees to core axis.	VA02143 VA02144 VA02145	302.6 304.0 305.0	304.0 305.0 306.3	1.4 1.0 1.3	1 1 1	52 37 16	5 6 5	204 192 207	<1 <1 <1	10 <5 <5	1800 1800 1900
306.3	317.0	CHLORITIC FELSIC QUARTZ EYE TUFF Similiar to 268.2 to 297.4, but is darker in colour. Glassy medium grey to green felsic with approximately 5 % chlorite and 5 % dark quartz eyes. There is trace disseminated pyrite and minor quartz - sericite veins with very weak local fracture controlled carbonatization. At 311.3 there is a 5 mm chalcopyrite clot in a 1 cm quartz vein that cross-cuts the foliation. 306.3 317.0 WEAK PERVASIVE CHLORITIZATION. Foliations :. 307.8 : 35 degrees to core axis. 309.7 : 42 degrees to core axis. 315.5 : 50 degrees to core axis. Lost core :. 306.7 309.1 : 0.3 m. 309.1 311.8 : 0.6 m. End of hole : 1040 feet (317.0 m) on Wednesday June 15, 1988 at 1:00 p.m.	VA01247	307.0	317.0	10.0	n/a	143	n/a	62	n/a	n/a	1290

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-67 Page Number 12

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

Total lost core : 22.5 m, % recovery = 92.9 %.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00802	35.00	35.50	77.60	11.40	1.10	0.41	1.11	3.11	1.12	0.23	0.07	<0.01	2.23	98.39	2320.	61.	2.
VA00803	48.20	48.60	69.30	15.40	3.28	0.76	0.57	4.70	0.64	0.30	0.07	0.01	4.39	99.42	2070.	59.	4.
VA00804	57.50	58.00	40.00	20.50	8.38	2.23	<0.01	6.95	8.20	0.83	0.56	0.05	10.00	97.70	3760.	52.	8.
VA00805	67.00	67.50	73.30	15.80	0.73	0.39	3.44	3.21	0.39	0.31	0.06	<0.01	1.62	99.26	2890.	46.	4.
VA00806	77.50	78.00	73.50	13.90	1.78	0.38	3.81	2.49	0.29	0.26	0.07	<0.01	2.08	98.56	3440.	34.	6.
VA00807	85.50	86.00	77.90	11.40	2.00	0.31	3.69	1.79	0.24	0.23	0.05	<0.01	2.08	99.70	1840.	27.	6.
VA00808	86.80	87.20	54.30	25.40	2.17	1.27	4.54	5.77	0.99	0.94	0.22	<0.01	4.39	99.99	2990.	51.	7.
VA00809	96.00	96.50	72.90	12.80	3.04	0.89	1.65	3.03	0.90	0.25	0.07	0.01	4.31	99.85	1440.	46.	5.
VA00810	122.00	122.40	72.50	13.50	1.82	0.76	6.63	1.16	1.65	0.27	0.05	0.02	1.39	99.75	1300.	19.	8.
VA00811	129.50	130.00	71.80	13.10	2.53	1.25	5.05	1.76	1.63	0.25	0.07	0.03	2.08	99.55	1290.	28.	8.
VA00812	148.50	149.00	64.30	15.70	5.64	1.02	<0.01	5.28	1.14	0.28	0.07	0.03	6.31	99.77	1680.	53.	6.
VA00813	154.10	154.30	69.50	13.90	2.56	2.01	2.92	2.45	3.56	0.26	0.07	0.04	3.08	100.35	1320.	45.	5.
VA00814	171.00	172.00	41.60	17.20	12.10	4.06	2.80	0.84	11.80	0.81	0.18	0.23	8.31	99.93	724.	25.	15.
VA00815	179.50	180.00	67.70	12.70	5.45	1.42	1.18	3.37	2.02	0.23	0.06	0.05	5.54	99.72	1710.	42.	7.
VA00816	197.30	198.00	71.00	12.40	2.80	2.30	4.12	1.39	2.11	0.23	0.06	0.04	3.16	99.61	1050.	35.	7.
VA00817	224.00	224.50	61.50	16.80	3.09	2.90	3.33	2.51	5.81	0.40	0.32	0.09	3.08	99.83	1390.	46.	6.
VA00818	237.50	238.00	54.20	17.10	7.13	1.58	0.04	5.31	6.04	0.46	0.38	0.09	7.23	99.56	2950.	49.	7.
VA00819	260.00	260.50	57.00	15.90	4.59	2.06	0.90	3.68	9.40	0.44	0.35	0.14	5.62	100.08	1680.	51.	5.
VA00820	274.00	274.50	64.70	18.00	0.96	1.18	1.51	4.73	4.64	0.53	0.20	0.04	3.16	99.65	1680.	71.	2.
VA00821	282.00	282.50	72.20	13.40	2.50	1.14	2.76	2.62	1.83	0.24	0.06	0.09	3.08	99.92	1080.	42.	5.
VA00822	293.00	293.50	71.30	13.40	2.22	2.03	2.26	2.59	2.01	0.24	0.06	0.10	3.47	99.68	1130.	51.	4.
VA00823	303.00	303.30	42.80	15.60	10.90	3.95	0.14	3.51	9.99	0.73	0.43	0.32	11.60	99.97	1440.	40.	11.
VA00824	311.30	311.80	73.80	11.70	2.09	1.35	2.40	2.17	2.66	0.31	0.08	0.09	2.62	99.27	1120.	44.	4.

Hole No. CH88-67 WHOLE ROCK SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01224	18.60	23.80	49.70	16.90	7.93	2.87	2.63	1.83	8.91	0.70			4.39	95.86	1120.	31.	11.
VA01225	29.90	41.50	73.40	13.20	1.73	0.52	1.54	3.41	1.71	0.25			2.47	98.23	1510.	55.	3.
VA01226	47.70	55.70	72.50	14.00	2.79	0.68	1.22	3.75	0.86	0.27			3.62	99.69	1590.	52.	4.
VA01227	60.00	74.00	74.20	13.30	2.37	0.35	3.12	2.58	0.58	0.25			2.47	99.22	2550.	35.	5.
VA01228	75.00	86.00	76.60	12.10	1.30	0.32	3.65	2.05	0.54	0.24			1.77	98.57	3940.	32.	5.
VA01229	88.00	90.30	51.40	23.70	2.58	1.75	0.04	7.75	3.51	0.86			6.00	97.59	3450.	78.	3.
VA01230	91.00	104.00	67.90	14.00	3.39	1.19	1.48	3.50	2.15	0.30			4.93	98.84	2010.	49.	5.
VA01231	104.80	112.30	49.50	18.30	6.19	2.81	1.58	3.93	8.37	0.67			7.00	98.35	1440.	46.	8.
VA01232	112.30	118.60	59.90	17.40	2.53	2.39	6.84	1.55	4.72	0.31			2.62	98.26	1400.	30.	9.
VA01233	118.60	125.40	70.30	13.10	2.45	1.18	4.57	1.83	2.83	0.26			2.08	98.60	1560.	30.	7.
VA01234	125.90	133.20	71.00	13.00	2.53	1.50	4.69	1.73	2.57	0.26			2.08	99.36	826.	31.	7.
VA01235	135.00	144.00	59.20	18.40	3.57	1.94	1.88	5.04	4.47	0.35			3.85	98.70	3220.	56.	5.
VA01236	145.00	152.00	66.90	15.30	4.05	1.17	<0.01	5.20	1.49	0.28			5.16	99.56	1600.	61.	4.
VA01237	153.00	159.60	67.90	14.10	2.91	1.70	4.29	1.88	3.84	0.31			2.54	99.47	1250.	33.	7.
VA01238	160.00	178.00	45.50	16.50	10.80	3.14	2.82	1.02	10.90	0.72			6.16	97.56	537.	23.	14.
VA01239	182.00	187.00	66.10	12.80	5.92	1.97	0.95	3.49	1.96	0.23			6.16	99.58	1530.	44.	7.
VA01240	187.10	194.10	40.80	20.60	7.04	6.29	0.40	4.64	9.89	0.68			8.70	99.04	1970.	60.	7.
VA01241	194.20	201.40	70.90	13.00	2.47	2.26	4.22	1.41	2.49	0.23			2.77	99.75	1030.	35.	7.
VA01242	209.00	219.90	68.30	13.40	3.55	1.57	0.93	3.75	2.60	0.25			4.39	98.74	905.	54.	4.
VA01243	220.00	245.00	57.70	17.60	4.58	2.49	1.64	3.84	6.39	0.47			4.93	99.64	2180.	50.	6.
VA01244	248.20	251.70	64.40	17.80	1.22	1.25	<0.01	5.71	4.31	0.50			3.00	98.19	3420.	85.	1.
VA01245	252.00	267.00	56.60	16.60	5.03	2.14	1.49	3.65	7.78	0.43			5.77	99.49	1340.	47.	7.
VA01246	269.00	296.00	67.60	14.40	2.66	1.76	1.91	3.21	3.00	0.29			3.85	98.68	1170.	52.	5.

Hole No. CH88-67 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01247	307.00	317.00	68.10	14.40	2.29	1.62	3.45	2.41	3.14	0.36			3.00	98.77	1290.	41.	6.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02099	16.30	18.60	1100.0	40.0	39.0	<0.5	<5.0	20.0	14.0	<5.0	<5.0	<1.0	4.0	590.0	51.	2.	4.
VA02100	23.80	26.50	1100.0	40.0	38.0	<0.5	<5.0	20.0	12.0	<5.0	<5.0	<1.0	4.0	560.0	51.	2.	4.
VA02101	46.90	47.70	1400.0	5.0	8.0	<0.5	<5.0	20.0	6.0	<5.0	<5.0	<1.0	2.0	130.0	38.	2.	1.
VA02102	55.70	57.30	2900.0	120.0	19.0	0.8	<5.0	16.0	8.0	9.0	<5.0	<1.0	2.0	310.0	86.	4.	3.
VA02103	57.30	59.00	3900.0	260.0	17.0	<0.5	13.0	20.0	8.0	<5.0	<5.0	<1.0	1.0	320.0	94.	4.	2.
VA02104	59.00	59.80	2300.0	170.0	15.0	<0.5	16.0	38.0	9.0	6.0	<5.0	<1.0	2.0	220.0	92.	5.	2.
VA02105	59.80	62.00	2800.0	5.0	5.0	<0.5	<5.0	8.0	7.0	<5.0	<5.0	<1.0	4.0	60.0	50.	1.	1.
VA02106	62.00	64.00	1700.0	4.0	3.0	<0.5	<5.0	4.0	4.0	13.0	<5.0	<1.0	6.0	50.0	57.	1.	0.
VA02107	64.00	66.00	1400.0	4.0	4.0	<0.5	<5.0	2.0	2.0	77.0	<5.0	<1.0	7.0	40.0	50.	1.	0.
VA02108	66.00	68.00	2400.0	4.0	5.0	<0.5	<5.0	<1.0	2.0	59.0	<5.0	<1.0	16.0	20.0	44.	1.	0.
VA02109	68.00	70.00	1900.0	4.0	4.0	<0.5	<5.0	<1.0	2.0	35.0	<5.0	<1.0	16.0	30.0	50.	1.	0.
VA02110	70.00	72.00	2600.0	4.0	5.0	<0.5	6.0	<1.0	2.0	35.0	<5.0	<1.0	19.0	25.0	44.	1.	0.
VA02111	72.00	74.60	2400.0	4.0	4.0	<0.5	<5.0	<1.0	4.0	47.0	<5.0	<1.0	15.0	30.0	50.	1.	0.
VA02112	74.60	76.00	2500.0	4.0	7.0	<0.5	<5.0	<1.0	4.0	67.0	<5.0	<1.0	5.0	20.0	36.	0.	0.
VA02113	82.00	83.00	4300.0	6.0	5.0	<0.5	<5.0	10.0	7.0	63.0	<5.0	<1.0	11.0	50.0	55.	0.	0.
VA02114	98.40	100.00	1500.0	4.0	9.0	<0.5	<5.0	20.0	4.0	<5.0	<5.0	<1.0	1.0	175.0	31.	1.	1.
VA02115	104.80	106.40	1600.0	136.0	62.0	<0.5	<5.0	20.0	11.0	6.0	<5.0	<1.0	3.0	540.0	69.	1.	3.
VA02116	106.40	108.20	1400.0	196.0	61.0	<0.5	<5.0	20.0	16.0	6.0	<5.0	<1.0	2.0	600.0	76.	1.	5.
VA02117	108.20	110.00	910.0	48.0	50.0	<0.5	6.0	14.0	12.0	6.0	<5.0	<1.0	2.0	740.0	49.	1.	4.
VA02118	110.00	112.30	1200.0	24.0	44.0	<0.5	<5.0	52.0	10.0	5.0	<5.0	<1.0	2.0	410.0	35.	1.	4.
VA02119	112.30	113.80	1100.0	92.0	32.0	<0.5	<5.0	54.0	8.0	<5.0	<5.0	<1.0	2.0	270.0	74.	3.	3.
VA02120	113.80	115.30	2300.0	9.0	25.0	<0.5	<5.0	30.0	7.0	<5.0	<5.0	<1.0	1.0	240.0	26.	3.	2.
VA02121	125.40	125.90	290.0	344.0	68.0	<0.5	<5.0	46.0	72.0	<5.0	7.0	<1.0	3.0	730.0	84.	5.	9.

Hole No. CH88-67

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02122	133.20	134.30	1200.0	216.0	28.0	<0.5	6.0	12.0	8.0	<5.0	<5.0	<1.0	2.0	310.0	89.	2.	2.
VA02123	156.00	157.00	1200.0	12.0	24.0	<0.5	22.0	20.0	10.0	<5.0	6.0	<1.0	1.0	250.0	33.	3.	3.
VA02124	157.00	158.00	1900.0	156.0	31.0	<0.5	24.0	28.0	12.0	<5.0	9.0	<1.0	2.0	260.0	83.	3.	3.
VA02125	158.00	159.60	910.0	20.0	24.0	<0.5	12.0	10.0	8.0	<5.0	<5.0	<1.0	2.0	215.0	45.	3.	2.
VA02126	159.60	161.00	890.0	246.0	49.0	<0.5	7.0	50.0	26.0	<5.0	21.0	<1.0	2.0	505.0	83.	3.	7.
VA02127	161.00	163.00	890.0	86.0	43.0	<0.5	7.0	46.0	28.0	9.0	15.0	<1.0	2.0	470.0	67.	3.	5.
VA02128	163.00	165.00	700.0	76.0	48.0	<0.5	6.0	24.0	22.0	<5.0	5.0	<1.0	1.0	530.0	61.	3.	4.
VA02129	165.00	167.00	70.0	1000.0	86.0	0.7	6.0	32.0	26.0	<5.0	<5.0	<1.0	4.0	1230.0	92.	3.	5.
VA02130	173.00	174.00	1200.0	154.0	65.0	<0.5	<5.0	36.0	20.0	<5.0	<5.0	<1.0	3.0	1400.0	70.	0.	7.
VA02131	177.00	178.00	1200.0	1050.0	42.0	0.7	34.0	22.0	18.0	5.0	<5.0	<1.0	3.0	920.0	96.	1.	4.
VA02132	187.10	189.00	1800.0	78.0	50.0	<0.5	9.0	46.0	34.0	<5.0	9.0	<1.0	5.0	580.0	61.	1.	4.
VA02133	189.00	191.00	1700.0	150.0	91.0	<0.5	<5.0	58.0	48.0	6.0	8.0	<1.0	3.0	810.0	62.	1.	7.
VA02134	191.00	192.00	1700.0	30.0	95.0	<0.5	<5.0	90.0	80.0	<5.0	16.0	<1.0	4.0	810.0	24.	2.	7.
VA02135	192.00	193.00	2300.0	50.0	77.0	<0.5	<5.0	92.0	69.0	<5.0	11.0	<1.0	4.0	600.0	39.	3.	6.
VA02136	193.00	194.10	1800.0	52.0	63.0	<0.5	<5.0	48.0	56.0	6.0	9.0	<1.0	6.0	620.0	45.	3.	5.
VA02137	201.40	203.00	1200.0	156.0	91.0	<0.5	<5.0	62.0	40.0	<5.0	6.0	<1.0	4.0	650.0	63.	3.	6.
VA02138	228.00	229.50	1200.0	6.0	69.0	<0.5	<5.0	12.0	10.0	<5.0	<5.0	<1.0	1.0	640.0	8.	1.	4.
VA02139	232.00	233.00	1500.0	6.0	62.0	<0.5	11.0	42.0	10.0	<5.0	<5.0	<1.0	2.0	630.0	9.	1.	4.
VA02140	240.20	241.40	5300.0	6.0	15.0	<0.5	<5.0	16.0	7.0	<5.0	<5.0	<1.0	2.0	275.0	29.	1.	1.
VA02141	244.40	245.40	3100.0	4.0	31.0	<0.5	<5.0	90.0	8.0	<5.0	<5.0	<1.0	2.0	540.0	11.	1.	3.
VA02142	246.30	248.20	3000.0	4.0	42.0	<0.5	<5.0	24.0	8.0	<5.0	<5.0	<1.0	2.0	700.0	9.	1.	3.
VA02143	302.60	304.00	1800.0	52.0	204.0	<0.5	10.0	20.0	20.0	5.0	<5.0	<1.0	3.0	2000.0	20.	1.	5.
VA02144	304.00	305.00	1800.0	37.0	192.0	<0.5	<5.0	32.0	18.0	6.0	<5.0	<1.0	3.0	1900.0	16.	1.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02145	305.00	306.30	1900.0	16.0	207.0	<0.5	<5.0	16.0	20.0	5.0	<5.0	<1.0	2.0	1740.0	7.	1.	5.

Summary Log: DDH CH88-68
Location: 29+50 W, 0+05 S; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 18, 1988
Core Logged By: D.P. Money

0.0	- 4.2	Casing.
4.2	- 54.8	Mafic ash tuff.
54.8	- 69.5	Chloritic felsic crystal tuff with trace disseminated pyrite
69.5	- 118.1	Mafic to andesitic ash tuffs with minor argillaceous rich zones from 69.5 to 74.0 m and 96.7 to 106.7 m.
118.1	- 119.5	Fault zone.
119.5	- 129.6	Thin intercalated chloritic felsic and mafic tuff beds.
129.6	- 134.0	Greywacke.
134.0	- 139.8	Chloritic felsic tuffs.
139.8	- 141.0	Andesitic tuff with thin intercalated argillites.
141.0	- 141.1	Fault zone.
141.1	- 146.6	Variably chloritic felsic tuffs.
146.6	- 147.8	Mafic ash tuff with 5 % disseminated pyrite.
147.8	- 171.6	Felsic crystal tuff with trace pyrite and azurite.
171.6	- 214.9	Gabbro.
214.9		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-68 | Page Number 1

Hole Location: 29+50 W 0+05 S

NTS: 092B/13 UTM:
Azimuth: 180 Elevation: 836 m
Dip: -50 Length: 214.9 m

Started: June 15, 1988
Completed: June 18, 1988

Claim No. Holyoak 2
Section No.: Section 29+50 West, Holyoak Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To develop a stratigraphic section.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
6.10		-50.0	214.30	183.0	-46.0
97.50	179.0	-48.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	4.2	OVERBURDEN No chit to mark start of coring.											
4.2	54.8	MAFIC TUFF Dark to medium green fine-grained schistose mafic tuff with variable carbonatization, weak fracture controlled to moderate fracture controlled and pervasive alteration. Is not magnetic. Very locally may be andesitic as rare quartz eyes occur. There are minor quartz - chlorite veins at 5.8, 9.0, 36.6 and 36.9. There is trace to nil disseminated pyrite, mainly < 2 mm, pyrite cubes. Is mostly disky due to strong foliation. There is minor fault gouge, 10 to 20 cm of chloritic clay, at 26.8, 44.9, 45.2 and 52.4. From 48.0 to 51.8 is banded with minor sericitic bands and 2 to 3 % pyrite parallel to foliation.	VA01248	4.2	29.0	24.8	n/a	127	n/a	63	n/a	n/a	831
			VA01249	29.0	54.8	25.8	n/a	120	n/a	73	n/a	n/a	821
			VA02146	48.0	49.0	1.0	3	14	5	108	<1	<5	830
			VA02147	49.0	50.0	1.0	3	12	5	101	<1	<5	840
			VA02148	50.0	51.8	1.8	3	13	6	90	<1	<5	950

Foliations :.
8.2 : 68 degrees to core axis.
14.8 : 62 degrees to core axis.
18.9 : 50 degrees to core axis.
21.4 : 62 degrees to core axis.
25.5 : 51 degrees to core axis.
29.9 : 54 degrees to core axis.
31.1 : 60 degrees to core axis.
35.3 : 72 degrees to core axis.
39.8 : 62 degrees to core axis.
42.7 : 59 degrees to core axis.
47.4 : 60 degrees to core axis.
49.9 : 56 degrees to core axis.
51.8 54.8 Strongly contorted and kinked.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-68 | Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Lost core :. 5.5 8.1 : 1.0 m. 11.6 13.4 : 0.2 m. 16.2 17.1 : 0.2 m. 18.0 19.5 : 0.3 m. 20.4 21.0 : 0.15 m. 21.0 22.6 : 0.15 m. 26.2 29.0 : 0.3 m. 32.9 34.4 : 0.4 m. 42.4 45.4 : 0.1 m, probably at 45 m in fault gouge. 45.4 47.2 : 0.2 m. 48.5 50.9 : 0.2 m. 50.9 51.8 : 0.5 m. 51.8 55.2 : 0.2 m, probably in fault gouge at 52.4. Alteration :. 4.2 54.8 MODERATE SPOTTY CARBONATIZATION. 44.0 47.2 Local weak fracture controlled hematite.											
54.8	69.5	WEAKLY CHLORITIC FELSIC TUFF Variably chloritic felsic crystal to locally lapilli tuff. There is weak to moderate fracture controlled carbonatization. There are minor shear zones with late quartz - sericite - chlorite veins at 64.4 and 67.5. There is a contorted carbonatized mafic tuff from 64.2 to 64.4. Becomes more chloritic downhole. From 56.1 to 56.6, 60.3 to 60.8 and 61.7 to 62.4 is strongly carbonatized with weak biotite and 2 to 3 % fine-grained disseminated pyrite. There is trace disseminated pyrite elsewhere. From 62.4 to 62.7 there is minor fault gouge and fine-grained sulphide mud in fractures. Locally trace to 2 %, 1 to 3 mm, clear quartz eyes occur. Foliations :. 56.2 : 45 degrees to core axis. 57.3 : 42 degrees to core axis. 58.7 : 27 degrees to core axis. 59.1 : 51 degrees to core axis. 63.3 : 45 degrees to core axis. 67.1 to 45 degrees to core axis. Weakly contorted throughout interval. Alteration :. 54.8 69.5 WEAK FRACTURE CONTROLLED CARBONATIZATION. 54.8 69.5 WEAK PERVASIVE CHLORITIZATION.	VA02149	54.8	56.1	1.3	1	16	<5	49	<1	<5	860
			VA01250	54.8	69.5	14.7	n/a	118	n/a	14	n/a	n/a	882
			VA02150	56.1	56.6	.5	3	64	5	104	<1	<5	870
			VA02151	56.6	58.0	1.4	1	8	<5	48	<1	<5	1100
			VA02152	58.0	59.0	1.0	1	16	<5	47	<1	<5	940
			VA02153	59.0	60.3	1.3	1	52	<5	36	<1	<5	800
			VA02154	60.3	60.8	.5	3	53	5	73	<1	<5	940
			VA02155	60.8	61.7	.9	1	24	6	52	<1	<5	920
			VA02156	61.7	62.4	.7	3	104	9	78	<1	<5	780
			VA02157	62.4	64.0	1.6	1	6	8	36	<1	<5	840
69.5	74.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Dark black to green argillaceous tuffs with minor mafic tuff component, moderate fracture controlled carbonatization and approximately an average of 10 %	VA02158	69.5	71.0	1.5	2	72	<5	77	<1	<5	680
			VA02159	71.0	72.0	1.0	2	104	<5	76	<1	6	720
			VA02160	72.0	73.0	1.0	2	72	<5	88	<1	5	680

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		hematite. Is weakly to strongly contorted with foliation trend at approximately 50 degrees to core axis. There is 1 to 2 % fracture controlled pyrite on average. Lost core :. 71.2 72.0 : 0.25 m. Alteration :. 69.5 74.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	VA02161	73.0	74.0	1.0	2	108	<5	83	<1	6	460
74.0	78.0	MAFIC TUFF Medium grey chloritic mafic with 15 % wispy fracture controlled calcite and trace disseminated pyrite. Foliation at approximately 50 degrees to core axis. 74.0 78.0 STRONG FRACTURE CONTROLLED CARBONATIZATION. Lost core :. 74.0 74.7 : 0.2 m. 77.1 77.6 : 0.2 m.	VA01251 VA02162	74.0 74.0	78.0 75.0	4.0 1.0	n/a 0	191 106	n/a <5	55 78	n/a <1	n/a 5	341 580
78.0	83.0	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Medium green mafic or andesitic tuff or flow, massive with on average 20 %, 1 to 3 mm, feldspars. There is weak fracture controlled carbonatization and epidotization. Minor trace white quartz veins occur. Foliations :. 78.5 : 51 degrees to core axis. 80.6 : 57 degrees to core axis. 82.4 : 61 degrees to core axis.	VA01252	78.0	83.0	5.0	n/a	168	n/a	74	n/a	n/a	384
83.0	96.7	INTERMEDIATE QUARTZ EYE TUFF Light green chlorite schist with on average 10 % stretched 1 to 3 mm quartz eyes. There is weak local fracture controlled carbonatization, locally with quartz as veinlets. There are minor calcite - quartz - chlorite veins at 89.7, 94.6 and 96.7. Trace fracture controlled epidote veinlets occur parallel to foliation. There is trace disseminated pyrite cubes associated with carbonatization. Foliations :. 84.3 : 66 degrees to core axis. 85.7 : 60 degrees to core axis. 88.4 : 45 degrees to core axis. 91.4 : 57 degrees to core axis. 93.0 : 51 degrees to core axis. 94.5 : 54 degrees to core axis.	VA01253	83.0	96.0	13.0	n/a	158	n/a	64	n/a	n/a	400
96.7	106.7	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS 96.7 100.9 Dark green carbonatized mafic lapilli (?) in a	VA01254	97.0	106.0	9.0	n/a	138	n/a	102	n/a	n/a	357

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		light grey micaceous (?) matrix. Strongly stretched parallel to foliation. Has minor calcite veinlets that cross-cut (?) lapilli. Is not magnetic. May have weak argillite component	VA02163	100.0	100.9	.9	1	6	<5	130	<1	31	240
			VA02164	100.9	102.0	1.1	1	20	<5	131	<1	19	420
			VA02165	102.0	103.0	1.0	1	10	<5	128	<1	<5	480
			VA02166	103.0	104.0	1.0	1	4	<5	144	<1	6	510
100.9	104.3	Similiar to 96.7 to 101.4 with argillite beds or lapilli in medium green chlorite and calcite matrix. Argillite beds are strongly magnetic and include approximately 20 % magnetite locally.	VA02167	104.0	105.0	1.0	1	6	<5	130	<1	12	210
			VA02168	105.0	106.0	1.0	1	2	<5	150	<1	8	480
			VA02169	106.0	106.7	.7	1	4	<5	143	<1	5	600
104.3	106.7	Similiar to above with 5 % hematite and are more magnetic.											
		There is trace disseminated pyrite cubes throughout, mainly associated with the weak to moderate fracture controlled carbonatization.											
		Foliations :.											
		97.2 : 47 degrees to core axis.											
		99.9 : 59 degrees to core axis.											
		104.1 : 61 degrees to core axis.											
		Lost core :.											
		103.9 106.1 : 0.2 m.											
106.7	118.1	MAFIC TUFF											
		Mafic to andesitic crystal tuff with on average 5 %, < 1 mm, mafic crystals and 5 % feldspars. Locally up to 0.5 m of 20 % feldspars and locally up to 3 %, 1 to 2 mm, quartz eyes. There is weak fracture controlled carbonatization with trace associated pyrite. From 106.7 to 107.6 is strongly chloritized with 30 % white quartz - pink calcite - dark green to black chlorite veins. Becomes more intermediate downhole.	VA02170	106.7	108.0	1.3	1	62	<5	153	<1	10	560
			VA01255	107.0	118.0	11.0	n/a	173	n/a	84	n/a	n/a	465
		Lost core :.											
		110.4 112.3 : 0.2 m.											
		112.3 115.5 : 0.2 m.											
		116.7 118.1 : 0.3 m.											
		Foliations :.											
		108.1 : 40 degrees to core axis.											
		112.3 : 54 degrees to core axis.											
		114.0 : 42 degrees to core axis.											
		116.6 : 57 degrees to core axis.											
		Alteration :.											
		107.6 118.1 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
118.1	119.5	FAULT ZONE											
		Blocky, highly fractured core and fault gouge. Sheared mafic tuff and quartz veins. Motion appears to be parallel to foliation, at approximately 60 degrees to core axis. There is 0.4 m of lost core.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-68 Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
119.5	121.6	MAFIC TUFF Dark green to black contorted chlorite schist to mafic ash tuff with 5 % feldspar crystals. There is moderate to strong fracture controlled carbonatization. There are trace disseminated up to 2 mm pyrite cubes.											
121.6	122.2	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Contorted chloritic felsic tuff with on average 5 % crystals, quartz and feldspar. There is trace very fine-grained pyrite.											
122.2	123.7	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Chlorite schist with trace to 1 %, 3 mm, quartz eyes and 7 %, 2 to 4 mm, epidotized feldspars. There is minor fault gouge at the upper contact and lower contact. There is strong pervasive carbonatization with 3 % calcite specks. Foliation trends at 50 degrees to core axis. Lost core :. 122.0 124.1 : 0.5 m, probably at fault gouge at lower contact.											
123.7	127.4	WEAKLY CHLORITIC FELSIC TUFF Light to medium grey siliceous felsic tuff with trace quartz eyes. Is silicified from 125.4 to 127.4 with alteration centre at 126.5 m. In zone of pervasive silicification there are minor fracture controlled quartz - sericite veins with trace pyrite. At 124.7 there is 10 cm of fault gouge at approximately 35 degrees to core axis. Alteration :. 125.4 127.4 STRONG PERVASIVE SILICIFICATION. 123.7 127.4 WEAK PERVASIVE CHLORITIZATION. Foliations :. 124.2 : 66 degrees to core axis. 125.5 : 76 degrees to core axis. 126.9 : 48 degrees to core axis. Lost core :. 124.1 125.3 : 0.2 m. 125.3 127.1 : 0.2 m.	VA01256	124.0	127.0	3.0	n/a	116	n/a	64	n/a	n/a	704
127.4	129.6	FELSIC QUARTZ EYE TUFF Bleached pale brown sericitic schist with 20 to 25 % white quartz veins. Locally there are up to 10 % crystals, quartz and feldspar. Weak fracture controlled silicification occurs. Foliation is at approximately 50 degrees to core axis.	VA02171	127.4	129.6	2.2	0	15	5	86	<1	<5	1100

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-68

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
129.6	134.0	GREYWACKE Medium brown cherty to soft tuffaceous sediments. Predominantly biotite or another brown mica with 5 to 10 % pervasive carbonatization and 5 to 7 % fracture controlled calcite veins. There is approximately 1 % fracture controlled pyrite. There are numerous kinks and minor fault gouge at 130.4, 131.1 and 132.9. Lost core :. 133.0 134.0 : 0.4 m.	VA02172	129.6	131.0	1.4	1	56	<5	100	<1	5	1000
			VA01257	129.6	134.0	4.4	n/a	153	n/a	74	n/a	n/a	773
			VA02173	131.0	132.0	1.0	1	42	5	107	<1	8	850
			VA02174	132.0	133.0	1.0	1	36	<5	104	<1	<5	900
			VA02175	133.0	134.0	1.0	1	38	<5	96	<1	25	940
134.0	139.8	WEAKLY CHLORITIC FELSIC TUFF 134.0 135.0 Medium grey - green tuff with moderate chlorite and biotite alteration. There is on average 3 % fracture controlled pyrrhotite and pyrite with trace sphalerite (?). 135.0 136.0 Similiar to 134 to 135 with no biotite and weak chloritization. There is trace to 1 % pyrite. Is weakly contorted. 136.0 136.6 Quartz - sericite - chlorite schist with alternating sericite and chlorite rich beds. Is moderately contorted with trace disseminated quartz eyes and pyrite. 136.6 139.8 Black lapilli, chlorite, average 20 %, average 2 mm, in light grey siliceous matrix with trace to 0.5 % disseminated pyrite, 2 to 3 % fracture controlled jasper or jasper lapilli. Foliations :. 135.6 : 61 degrees to core axis. 137.3 : 60 degrees to core axis. Faults : 139.3 139.5 15 cm clay slip.	VA01258	134.0	139.0	5.0	n/a	111	n/a	40	n/a	n/a	844
			VA02176	134.0	135.0	1.0	3	34	5	109	<1	5	1200
			VA02177	135.0	136.0	1.0	1	8	<5	45	<1	<5	1100
			VA02178	136.0	137.0	1.0	1	6	<5	43	<1	<5	1000
139.8	141.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Carbonatized andesitic chlorite schist with 5 to 10 % argillite beds and approximately 7 %, 2 to 4 mm, quartz eyes. Foliation and bedding average 65 to 70 degrees to core axis.											
141.0	141.1	FAULT ZONE Fault gouge and clay.											
141.1	143.5	WEAKLY CHLORITIC FELSIC TUFF Contorted chloritic felsic tuff, possibly grey siliceous lapilli in 20 % chlorite matrix or chloritization is fracture controlled. Carbonatized mafic tuffs occur from 141.95 to 142.2 and 143.3 to 143.5. Foliation trend averages 70 to 75 degrees to core axis with weak kinking											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		to strong locally. There are minor < 1 mm fault slips parallel to foliation. 141.1 143.5 MODERATE FRACTURE CONTROLLED CHLORITIZATION.											
143.5	146.6	FELSIC FELDSPAR CRYSTAL TUFF Light to medium grey felsic tuff with on average 5 % epidotized feldspars. There is 0.5 % disseminated pyrite. Is locally weakly contorted. Minor layering occurs with grey and white tuff and minor quartz veins parallel to foliation. There is a 5 cm carbonatized mafic at 145.9. From 146.3 to 146.6 there is quartz vein and sericite with 7 % pyrite and 3 % chalcopyrite in the quartz. Tuff may have been pervasively silicified. Foliation averages 60 degrees to core axis, is from 40 to 75 degrees to core axis.	VA02179	143.5	145.0	1.5	1	2	<5	14	<1	15	710
			VA01259	143.5	146.3	2.8	n/a	113	n/a	<10	n/a	n/a	790
			VA02180	145.0	146.3	1.3	1	36	<5	25	<1	5	720
			VA02181	146.3	146.6	.3	10	1400	<5	22	2	53	600
146.6	147.8	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Strongly contorted mafic tuff with 5 % very fine-grained disseminated pyrite and strong fracture controlled carbonatization as 10 % calcite. There is approximately 20 %, < 1.5 mm, feldspar grains.	VA02182	146.6	147.8	1.2	5	118	<5	87	<1	15	520
147.8	171.6	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Similiar to welded tuff in CH88-64. Variable colour, light to medium green to white. Feldspars occur in 1 to 15 cm feldspar rich bands with up to 75 % feldspars in variable states of epidotization. Feldspar content averages 20 %. There are on average 10 to 12 %, 2 to 5 mm, quartz eyes, they are stretched with a lineation parallel to foliation. 147.8 152.9 Epidotized feldspar rich light grey tuff with 0.5 % fracture controlled pyrite in epidotized zones with quartz eyes. 152.9 156.5 Light green sericitic tuff with feldspar rich lapilli and beds. There are minor fracture controlled quartz veins and kink bands. Trace fracture controlled pyrite occurs. 156.5 157.5 Strongly contorted sericitic with 3 to 5 % fracture controlled pyrite. 157.5 171.2 Light grey to white, very similiar to welded tuff in ch88-64. There are on average 15 %, 2 to 5 mm, clear quartz eyes and trace lapilli. Minor possible collapsed pumice (?) occur. At 157.7 there is 1 cm with strong azurite. At 161.2 there is a 5 mm band of pyrrhotite. From 157.5 to 162 there is trace to 0.5 % banded sulphides, mostly pyrrhotite with trace chalcopyrite at 159.1 and pyrite. 171.2 171.6 Silicified with minor fracture controlled	VA01260	147.8	153.0	5.2	n/a	192	n/a	21	n/a	n/a	280
			VA02183	147.8	149.0	1.2	1	126	<5	79	<1	<5	220
			VA02184	149.0	151.0	2.0	1	80	<5	54	<1	<5	270
			VA02185	151.0	152.0	1.0	1	68	<5	52	<1	<5	650
			VA02186	152.0	153.0	1.0	1	92	<5	46	<1	8	530
			VA01261	153.0	159.0	6.0	n/a	120	n/a	24	n/a	n/a	1510
			VA02187	156.5	157.5	1.0	4	28	<5	258	<1	15	1300
			VA02188	157.5	158.0	.5	2	28	<5	188	<1	6	1300
			VA02189	158.0	159.0	1.0	2	44	7	339	<1	<5	1300
			VA01262	159.0	171.6	12.6	n/a	110	n/a	21	n/a	n/a	1130
			VA02190	159.0	160.0	1.0	2	60	13	79	<1	<5	1200
			VA02191	160.0	161.0	1.0	2	20	12	56	<1	<5	1500
			VA02192	161.0	162.0	1.0	2	24	18	56	<1	<5	1200

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-68 | Page Number 8

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		quartz, epidote and calcite.											
		Foliations :.											
		148.6 : 68 degrees to core axis.											
		152.9 : 60 degrees to core axis.											
		158.3 : 59 degrees to core axis.											
		163.1 : 57 degrees to core axis.											
		167.3 : 67 degrees to core axis.											
		171.3 : 65 degrees to core axis.											
		Bedding :.											
		154.4 : 66 degrees to core axis.											
		161.6 : 66 degrees to core axis.											
		164.8 : 60 degrees to core axis.											
171.6	214.9	FELDSPAR PORPHYRITIC GABBRO											
		171.6 174.9 Fine-grained chilled margin phase with approximately 10 to 12 %, 1 to 4 mm, feldspars and trace ilmenite with approximately 2 % fine-grained leucoxene.	VA01263	171.6	184.0	12.4	n/a	454	n/a	97	n/a	n/a	83
			VA02193	183.4	183.8	.4	1	400	<5	104	<1	15	60
			VA01264	185.0	214.9	29.9	n/a	343	n/a	93	n/a	n/a	158
		174.9 178.7 Medium grained with 30 % feldspars and approximately 3 to 5 %, 2 mm, ilmenite grains.											
		178.7 184.2 Fine-grained to medium grained with trace disseminated chalcopyrite throughout. There are numerous fracture controlled chlorite and quartz veinlet. From 183.5 to 183.7 there is approximately 1 % chalcopyrite in coarse silicified zone.											
		184.2 214.9 Coarse grained with 5 to 12 %, average 7 %, 2 to 5 mm, ilmenite grains. Feldspar to chloritized mafic crystal ratio is variable from 1.5 to 1 to 1 to 2. There are trace chalcopyrite specks locally. There are numerous chlorite, calcite and quartz veinlets. There is local 10 cm zones of strong chloritization and strong epidotization.											
		End of hole : 705 feet (214.9 m) on Saturday June 18, 1988 at 12:30 p.m.											
		Total lost core: 7.2 m; % Recovery = 96.6 %.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00825	15.00	15.50	57.10	16.60	4.99	1.32	3.08	3.52	7.14	0.28	0.26	0.26	5.39	99.94	838.	37.	8.
VA00826	28.00	28.50	57.40	16.60	5.32	1.39	3.30	3.35	6.62	0.32	0.29	0.21	5.54	100.34	930.	35.	9.
VA00827	42.50	43.00	53.00	16.80	6.87	1.47	2.77	3.26	7.72	0.40	0.34	0.28	7.08	99.99	961.	33.	10.
VA00828	53.50	54.00	60.50	16.20	5.03	1.40	2.92	2.45	5.75	0.24	0.21	0.19	5.39	100.28	916.	33.	8.
VA00829	57.00	57.30	72.60	12.80	3.21	1.22	2.47	1.77	2.22	0.19	0.08	0.07	3.70	100.33	1030.	34.	6.
VA00830	67.00	67.30	71.80	12.40	4.75	1.02	2.30	1.08	1.66	0.20	0.33	0.05	4.62	100.21	635.	23.	7.
VA00831	79.00	79.20	44.30	17.10	13.80	2.62	1.46	0.94	11.00	0.76	0.34	0.18	7.16	99.66	306.	19.	15.
VA00832	87.00	87.30	46.50	18.20	7.44	5.87	3.62	0.55	11.40	0.87	0.37	0.19	4.39	99.40	282.	37.	11.
VA00833	94.00	94.30	47.60	18.70	7.72	1.66	3.84	3.28	9.21	1.09	0.39	0.18	6.16	99.83	590.	30.	12.
VA00834	109.30	109.50	44.40	18.30	7.96	3.85	3.50	0.84	12.90	1.09	0.35	0.23	6.31	99.73	387.	29.	11.
VA00835	113.70	114.00	44.00	17.90	10.40	2.67	3.00	1.53	11.00	0.86	0.36	0.22	8.16	100.10	398.	24.	13.
VA00836	122.50	123.00	42.50	16.20	12.00	2.65	1.68	1.48	12.40	1.08	0.36	0.26	9.54	100.15	307.	23.	14.
VA00837	135.00	135.30	65.40	15.00	4.72	1.75	3.05	1.47	3.30	0.31	0.09	0.08	4.93	100.10	960.	29.	8.
VA00838	144.60	144.80	72.50	14.00	1.99	0.46	6.22	1.67	1.38	0.21	0.05	0.03	2.00	100.51	621.	21.	8.
VA00839	148.70	148.90	51.60	18.50	9.31	3.92	3.28	0.21	8.29	0.69	0.25	0.13	3.93	100.11	153.	25.	13.
VA00840	160.60	160.80	72.60	14.90	3.17	0.92	2.53	2.28	1.62	0.28	0.07	0.05	1.62	100.04	1480.	36.	6.
VA00841	169.70	169.90	72.90	13.00	2.97	1.79	3.21	1.11	2.75	0.24	0.07	0.10	1.54	99.68	761.	32.	6.
VA00842	186.00	186.40	48.80	13.90	10.00	4.46	1.83	0.31	15.20	2.47	0.23	0.24	2.31	99.75	105.	29.	12.
VA00843	212.50	213.50	47.60	11.30	7.42	3.65	2.56	0.41	19.80	3.83	0.30	0.27	2.31	99.45	225.	29.	10.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01248	4.20	29.00	58.10	16.50	4.58	1.42	3.21	3.40	6.53	0.32			5.23	99.29	831.	38.	8.
VA01249	29.00	54.80	56.50	16.60	5.50	1.45	2.92	3.18	6.96	0.32			5.85	99.28	821.	35.	8.
VA01250	54.80	69.50	67.90	14.40	4.26	1.53	2.28	1.68	2.83	0.30			4.70	99.88	882.	33.	7.
VA01251	74.00	78.00	39.20	13.40	17.10	3.62	2.26	1.27	7.43	0.69			14.50	99.47	341.	20.	19.
VA01252	78.00	83.00	46.00	17.80	9.59	4.76	2.22	0.85	11.60	0.84			5.62	99.28	384.	32.	12.
VA01253	83.00	96.00	46.20	18.00	7.56	4.77	3.69	1.27	11.00	0.88			5.77	99.14	400.	35.	11.
VA01254	97.00	106.00	47.80	19.00	5.77	2.26	2.91	4.00	10.40	1.11			5.77	99.02	357.	42.	9.
VA01255	107.00	118.00	43.80	17.80	8.22	4.90	2.09	1.50	12.20	0.91			7.85	99.27	465.	38.	10.
VA01256	124.00	127.00	69.70	15.10	1.29	1.78	4.59	1.23	3.44	0.39			2.23	99.75	704.	34.	6.
VA01257	129.60	134.00	45.20	17.00	9.96	2.49	2.13	0.85	10.90	1.27			9.77	99.57	773.	22.	12.
VA01258	134.00	139.00	59.20	15.90	6.35	1.86	1.85	2.04	5.47	0.37			6.08	99.12	844.	32.	8.
VA01259	143.50	146.30	73.10	14.30	1.48	0.62	5.00	2.19	1.37	0.19			1.85	100.10	790.	30.	6.
VA01260	147.80	153.00	51.00	18.20	10.40	3.65	2.67	0.65	7.87	0.61			4.70	99.75	280.	25.	13.
VA01261	153.00	159.00	72.00	15.30	2.28	0.84	1.25	3.29	1.48	0.29			2.54	99.27	1510.	54.	4.
VA01262	159.00	171.60	70.70	14.90	3.44	1.36	3.34	1.80	2.11	0.29			1.70	99.64	1130.	32.	7.
VA01263	171.60	184.00	47.60	13.40	10.10	4.97	2.18	0.18	15.00	2.53			3.23	99.19	83.	30.	12.
VA01264	185.00	214.90	48.70	13.10	9.46	4.52	2.20	0.39	15.30	2.68			3.31	99.66	158.	30.	12.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02146	48.00	49.00	830.0	14.0	108.0	<0.5	<5.0	10.0	12.0	5.0	<5.0	<1.0	3.0	1860.0	11.	3.	4.
VA02147	49.00	50.00	840.0	12.0	101.0	<0.5	<5.0	14.0	10.0	5.0	<5.0	<1.0	3.0	1480.0	11.	3.	4.
VA02148	50.00	51.80	950.0	13.0	90.0	<0.5	<5.0	12.0	10.0	6.0	<5.0	<1.0	3.0	1610.0	13.	3.	4.
VA02149	54.80	56.10	860.0	16.0	49.0	<0.5	<5.0	18.0	15.0	<5.0	<5.0	<1.0	5.0	410.0	25.	1.	2.
VA02150	56.10	56.60	870.0	64.0	104.0	<0.5	<5.0	26.0	16.0	5.0	16.0	<1.0	3.0	1280.0	38.	3.	5.
VA02151	56.60	58.00	1100.0	8.0	48.0	<0.5	<5.0	6.0	10.0	<5.0	<5.0	<1.0	3.0	440.0	14.	1.	2.
VA02152	58.00	59.00	940.0	16.0	47.0	<0.5	<5.0	6.0	8.0	<5.0	5.0	<1.0	4.0	530.0	25.	1.	3.
VA02153	59.00	60.30	800.0	52.0	36.0	<0.5	<5.0	4.0	8.0	<5.0	5.0	<1.0	4.0	460.0	59.	1.	2.
VA02154	60.30	60.80	940.0	53.0	73.0	<0.5	<5.0	22.0	20.0	5.0	23.0	<1.0	5.0	1810.0	42.	3.	6.
VA02155	60.80	61.70	920.0	24.0	52.0	<0.5	<5.0	10.0	9.0	6.0	22.0	<1.0	5.0	640.0	32.	1.	3.
VA02156	61.70	62.40	780.0	104.0	78.0	<0.5	<5.0	16.0	14.0	9.0	13.0	<1.0	5.0	1300.0	57.	3.	5.
VA02157	62.40	64.00	840.0	6.0	36.0	<0.5	<5.0	4.0	6.0	8.0	<5.0	<1.0	18.0	280.0	14.	1.	2.
VA02158	69.50	71.00	680.0	72.0	77.0	<0.5	<5.0	12.0	20.0	<5.0	<5.0	<1.0	3.0	590.0	48.	2.	5.
VA02159	71.00	72.00	720.0	104.0	76.0	<0.5	6.0	12.0	18.0	<5.0	<5.0	<1.0	3.0	480.0	58.	2.	4.
VA02160	72.00	73.00	680.0	72.0	88.0	<0.5	5.0	14.0	26.0	<5.0	<5.0	<1.0	4.0	630.0	45.	2.	5.
VA02161	73.00	74.00	460.0	108.0	83.0	<0.5	6.0	28.0	30.0	<5.0	<5.0	<1.0	4.0	1290.0	57.	2.	4.
VA02162	74.00	75.00	580.0	106.0	78.0	<0.5	5.0	20.0	22.0	<5.0	<5.0	<1.0	3.0	740.0	58.	0.	4.
VA02163	100.00	100.90	240.0	6.0	130.0	<0.5	31.0	16.0	10.0	<5.0	<5.0	<1.0	3.0	1040.0	4.	1.	6.
VA02164	100.90	102.00	420.0	20.0	131.0	<0.5	19.0	10.0	12.0	<5.0	<5.0	<1.0	2.0	470.0	13.	1.	5.
VA02165	102.00	103.00	480.0	10.0	128.0	<0.5	<5.0	10.0	14.0	<5.0	<5.0	<1.0	2.0	380.0	7.	1.	5.
VA02166	103.00	104.00	510.0	4.0	144.0	<0.5	6.0	10.0	12.0	<5.0	<5.0	<1.0	2.0	540.0	3.	1.	5.
VA02167	104.00	105.00	210.0	6.0	130.0	<0.5	12.0	20.0	13.0	<5.0	<5.0	<1.0	2.0	1120.0	4.	1.	5.
VA02168	105.00	106.00	480.0	2.0	150.0	<0.5	8.0	10.0	14.0	<5.0	<5.0	<1.0	2.0	550.0	1.	1.	6.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02169	106.00	106.70	600.0	4.0	143.0	<0.5	5.0	10.0	10.0	<5.0	<5.0	<1.0	2.0	480.0	3.	1.	5.
VA02170	106.70	108.00	560.0	62.0	153.0	<0.5	10.0	28.0	20.0	<5.0	<5.0	<1.0	3.0	1020.0	29.	1.	6.
VA02171	127.40	129.60	1100.0	15.0	86.0	<0.5	<5.0	4.0	10.0	5.0	<5.0	<1.0	3.0	455.0	15.	0.	3.
VA02172	129.60	131.00	1000.0	56.0	100.0	<0.5	5.0	30.0	14.0	<5.0	27.0	<1.0	4.0	1080.0	36.	1.	6.
VA02173	131.00	132.00	850.0	42.0	107.0	<0.5	8.0	28.0	10.0	5.0	28.0	<1.0	3.0	1420.0	28.	1.	7.
VA02174	132.00	133.00	900.0	36.0	104.0	<0.5	<5.0	24.0	12.0	<5.0	25.0	<1.0	3.0	1600.0	26.	1.	7.
VA02175	133.00	134.00	940.0	38.0	96.0	<0.5	25.0	30.0	10.0	<5.0	36.0	<1.0	4.0	1510.0	28.	1.	7.
VA02176	134.00	135.00	1200.0	34.0	109.0	<0.5	5.0	14.0	16.0	5.0	29.0	<1.0	4.0	970.0	24.	3.	4.
VA02177	135.00	136.00	1100.0	8.0	45.0	<0.5	<5.0	2.0	9.0	<5.0	<5.0	<1.0	2.0	420.0	15.	1.	2.
VA02178	136.00	137.00	1000.0	6.0	43.0	<0.5	<5.0	<1.0	8.0	<5.0	<5.0	<1.0	2.0	420.0	12.	1.	2.
VA02179	143.50	145.00	710.0	2.0	14.0	<0.5	15.0	<1.0	4.0	<5.0	<5.0	<1.0	2.0	140.0	13.	1.	1.
VA02180	145.00	146.30	720.0	36.0	25.0	<0.5	5.0	<1.0	4.0	<5.0	<5.0	<1.0	2.0	230.0	59.	1.	1.
VA02181	146.30	146.60	600.0	1400.0	22.0	1.5	53.0	32.0	20.0	<5.0	5.0	<1.0	3.0	260.0	98.	10.	3.
VA02182	146.60	147.80	520.0	118.0	87.0	<0.5	15.0	28.0	32.0	<5.0	7.0	<1.0	3.0	830.0	58.	5.	5.
VA02183	147.80	149.00	220.0	126.0	79.0	<0.5	<5.0	26.0	24.0	<5.0	10.0	<1.0	3.0	700.0	61.	1.	4.
VA02184	149.00	151.00	270.0	80.0	54.0	<0.5	<5.0	24.0	34.0	<5.0	33.0	<1.0	2.0	580.0	60.	1.	3.
VA02185	151.00	152.00	650.0	68.0	52.0	<0.5	<5.0	24.0	30.0	<5.0	29.0	<1.0	2.0	520.0	57.	1.	4.
VA02186	152.00	153.00	530.0	92.0	46.0	<0.5	8.0	20.0	30.0	<5.0	47.0	<1.0	2.0	550.0	67.	1.	3.
VA02187	156.50	157.50	1300.0	28.0	258.0	<0.5	15.0	8.0	6.0	<5.0	6.0	1.0	2.0	145.0	10.	4.	1.
VA02188	157.50	158.00	1300.0	28.0	188.0	<0.5	6.0	8.0	8.0	<5.0	7.0	<1.0	2.0	210.0	13.	2.	1.
VA02189	158.00	159.00	1300.0	44.0	339.0	<0.5	<5.0	4.0	4.0	7.0	6.0	2.0	2.0	160.0	11.	2.	1.
VA02190	159.00	160.00	1200.0	60.0	79.0	<0.5	<5.0	2.0	6.0	13.0	10.0	<1.0	1.0	160.0	43.	2.	1.
VA02191	160.00	161.00	1500.0	20.0	56.0	<0.5	<5.0	4.0	6.0	12.0	47.0	<1.0	2.0	210.0	26.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02192	161.00	162.00	1200.0	24.0	56.0	<0.5	<5.0	12.0	8.0	18.0	<5.0	<1.0	1.0	290.0	30.	2.	1.
VA02193	183.40	183.80	60.0	400.0	104.0	<0.5	15.0	30.0	28.0	<5.0	17.0	<1.0	2.0	800.0	79.	1.	6.

Summary Log: DDH CH88-69
Location: 25+00 W, 2+20 N; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 23, 1988
Core logged by: J. Pattison

0.0	7.3	Overburden
7.3	63.9	Mafic tuff
63.9	76.0	Gabbro
76.0	88.6	Weakly chloritized felsic tuff
88.6	97.6	Gabbro
97.6	102.7	Weakly chloritized felsic tuff
102.7	148.9	Chlorite schist
148.9	153.7	Intermediate tuff (quartz-sericite-chlorite schist)
153.7	162.4	Quartz-Sericite Schist with several argillite bands 1 to 40 cm thick and 3-5 % disseminated pyrite.
162.4	164.3	Gabbro
164.3	173.8	Felsic quartz eye tuff with 1-4 % disseminated pyrite.
173.8	179.9	Gabbro
179.9	193.0	Felsic quartz eye tuff with 1-3 % disseminated pyrite.
193.0	210.6	Chlorite schist
210.6	220.8	Felsic quartz eye tuff, nil sulphides.
220.8	247.8	Mafic to intermediate tuffaceous sediments
247.8	249.2	Felsic quartz eye tuff
249.2	254.7	Mafic tuff
254.7	286.7	Weakly chloritized felsic tuff Locally up to 5 % disseminated and fracture controlled pyrite.
286.7	315.2	Quartz-feldspar porphyritic felsic flow
315.2	331.0	Weakly chloritic felsic quartz eye tuff
331.0	337.5	Mafic tuff
337.5	340.7	Black argillite
340.7	347.3	Mafic tuff
347.3	350.7	Weakly chloritic felsic tuff
350.7	419.5	Mafic volcanics
419.5	423.4	Weakly chloritic felsic quartz eye tuff

E.O.H. @ 423.4 m

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-69 | Page Number 1

Hole Location: 25+00 W 2+20 N

NTS: 92B13 UTM:
Azimuth: 180 Elevation: 905 m
Dip: -50 Length: 423.4 m

Started: 17-June-88
Completed: 23-June-88

Claim No. Holyoak 2
Section No.: 25+00 W

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ (thin wall)

Purpose:

DIP TESTS

Length	Azi-muth	Dip	Length	Azi-muth	Dip
12.20	178.0	-50.5	367.30	192.0	-51.0
91.40	183.0	-52.0	423.40	194.0	-50.0
182.90	187.0	-53.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	7.3	OVERBURDEN											
7.3	53.6	MAFIC TUFF Medium green, weakly to moderately carbonatized mafic tuff. Locally rock takes on a dark grey tint due to moderate carbonatization. In many places the tuff is finely banded (bedded ?) parallel to foliation. Occasional rounded, deep red, hematitic clasts < 4 mm in diameter. Lower contact is sharp at 50 degrees to core axis.	VA02902	7.3	37.0	29.7	n/a	29	n/a	76	n/a	n/a	365
			VA08493	34.0	35.0	1.0	0	69	<5	94	<1	<5	160
			VA02903	37.0	63.9	26.9	n/a	51	n/a	78	n/a	n/a	205
		STRUCTURE:. Foliation is wavey throughout. 7.3-22.9 M blocky, highly fractured core, many fault gouges at 30-40 degrees to core axis. 4.2 m of lost core. At 11.1 m foliation is at 45 degrees to core axis. At 11.7 m 1.5 cm fault gouge at 60 degrees to core axis. At 28.8 m foliation is at 60 degrees to core axis. 41.4-41.5 M fault gouge at 30 degrees to core axis. At 45.7 m foliation is at 30 degrees to core axis.											
		ALTERATION:. 7.3 53.6 WEAK FRACTURE CONTROLLED CARBONATIZATION and WEAK PERVASIVE CARBONATIZATION. Locally weak hematite alteration associated with carbonate alteration.											
		SULPHIDES:. 34.0-35.0 m 2 % disseminated pyrite.											
		13.0 17.0 2-5% < 5 mm cherty green to grey clasts.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-69

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		27.1 27.3 Barren quartz-carbonate vein at 60-70 degrees to core axis.											
		40.0 42.0 2-5% < 10 mm cherty clasts and quartzz eyes.											
53.6	55.0	WEAKLY CHLORITIC FELSIC TUFF Massive light green, felsic tuff with 1-2% disseminated pyrite. Well foliated at 55 degrees to core axis. Lower contact is sharp and appears to be unconformable at 55 degrees to core axis. Carbonate-epidote alteration patch 15 cm in diameter at the lower contact.	VA08492	53.6	55.0	1.4	0	15	<5	52	<1	<5	390
		53.6 55.0 WEAK PERVASIVE CHLORITIZATION.											
55.0	63.9	MAFIC TUFF As 7.3 to 53.6 m.											
		STRUCTURE:. At 58.6 m foliation is at 35 degrees to core axis.											
		ALTERATION:. 55.0 61.9 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 61.9 63.5 STRONG PERVASIVE SERICITIZATION. 63.5 63.9 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
63.9	76.0	MAFIC INTRUSIVE Massive fine to medium-grained gabbro or possibly a mafic flow, with trace very finely disseminated ilmenite. Gabbro has a bleached, altered appearance. Weak to moderate fracture controlled hematization below 72.5 m. Below 70 m becomes fine-grained and there is moderate patchy epidote+calcite alteration. Lower contact is at 55 degrees to core axis.											
		STRUCTURE:. 74.4-74.8 M fault. Broken rubbly core, not possible to measure the orientation.											
76.0	88.6	WEAKLY CHLORITIC FELSIC TUFF Light grey-green weakly chloritic quartz-sericite schist. In less schistose areas the rock is composed of 10 % < 1 mm feldspar crystals in a very fine, siliceous, sericitic matrix. Lower contact is at 50 degrees to core axis.	VA02904 VA08495	76.0 87.0	88.6 88.6	12.6 1.6	n/a 0	13 41	n/a <5	59 46	n/a <1	n/a <5	1090 1000
		STRUCTURE:.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 76.5 m bedding is at 30 degrees to core axis. 76.8-77.4 M blocky, highly fractured core. 0.2 m of lost core. 78.2-78.3 M minor fault at 40 degrees to core axis. At 84.9 m 5 mm fault gouge at 40 degrees to core axis. At 85.1 m 1.0 cm fault gouge at 50 degrees to core axis. 87.4-88.0 M chlorite-carbonate rich shear zone at 50 strong degrees to core axis. ALTERATION:. 76.0 88.5 WEAK PERVASIVE CHLORITIZATION , MODERATE PERVASIVE SERICITIZATION and WEAK PERVASIVE CARBONATIZATION. 77.4 77.7 Finely bedded (<4 mm) cherty felsic ash tuff. SULPHIDES:. 87.0-88.6 M several pyrite stringers < 3 mm thick parallel to foliation.											
88.6	97.6	MAFIC INTRUSIVE Pale green moderately carbonatized mafic dyke. Medium-grained with 1 % finely disseminated ilmenite between 89.1 and 96.3 m. Fine-grained and moderately to strongly carbonatized chill margins for 0.5 m from the upper and lower contacts. Lower contact is at 40 degrees to core axis.											
97.6	102.7	WEAKLY CHLORITIC FELSIC TUFF Light green weakly chloritic quartz-sericite schist. Medium brown tint over the first 0.3 m due to moderate biotite alteration. 2 % 2-4 mm clear quartz eyes below 101.0 m. Broken core at the lower contact. STRUCTURE:. At 98.1 m foliation is at 50 degrees to core axis. ALTERATION:. 97.6 102.7 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION. SULPHIDES:. At 99.1 m 1.0 cm wide carbonate-pyrite-sphalerite band at 50 degrees to core axis. 99.5 100.2 M moderately carbonatized mafic to intermediate tuff with 2 % disseminated. Pyrite. Upper contact is at 40 degrees to core axis and lower contact is at 60 degrees to core axis.	VA02905	97.6	102.7	5.1	n/a	40	n/a	57	n/a	n/a	1350
			VA08494	98.0	99.0	1.0	1	28	5	260	<1	<5	1000
			VA08496	99.0	99.5	.5	1	71	16	2600	<1	13	960
			VA08497	99.5	100.2	.7	2	45	8	130	<1	5	720
			VA08498	100.2	101.2	1.0	1	57	<5	60	<1	<5	1400

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-69

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		100.3 100.5 Mafic tuff as 99.5 to 100.2 m.											
102.7	148.9	CHLORITE SCHIST Medium green chlorite schist speckled with white calcite spots up to 5 mm in diameter. In places the calcite spots are eye shaped and may be amygdales. In some cases (e.g. Between 107.4 and 108.0 m and below 139.0 m) spots contain weakly manetic, deep red jasper. Many irregular carbonate+/-quartz veins. Streaks of a fine-grained, dark grey, purplish argillaceous material (?) occur above 120.0 m and below 128.0 m. Locally up to 5 % dark green to black chlorite spots (altered pyroxene crystals?) < 5 mm in diameter smeared along foliation planes. Lower contact is a 0.5 cm thick fault gouge at 80 degrees to core axis. STRUCTURE:. At 105.7 m foliation is at 40 degrees to core axis. At 121.5 m foliation is at 40 degrees to core axis. At 131.3 m foliation is at 35 degrees to core axis. At 141.3 m foliation is at 40 degrees to core axis. At 145.5 m bedding is at 40 degrees to core axis. ALTERATION:. 102.7 148.9 MODERATE SPOTTY CARBONATIZATION , MODERATE FRACTURE CONTROLLED CARBONATIZATION and locally MODERATE PERVASIVE CARBONATIZATION. SULPHIDES:. 104.0-107.0 m 2 % disseminated pyrite. 130.0 131.0 Several quartz eyes up to 5 mm in diameter. 131.0 131.8 Rock has a finely banded (bedded ?) appearance. Banding is at 30 degrees to core axis.	VA02906	102.7	132.0	29.3	n/a	10	n/a	73	n/a	n/a	166
			VA08499	104.0	105.0	1.0	2	30	9	92	<1	23	450
			VA08500	105.0	106.0	1.0	2	26	7	84	<1	12	360
			VA08501	106.0	107.0	1.0	2	41	<5	80	<1	<5	210
			VA08502	107.0	108.0	1.0	1	23	<5	74	<1	<5	260
			VA02907	132.0	148.9	16.9	n/a	62	n/a	64	n/a	n/a	282
148.9	153.7	INTERMEDIATE TUFF Grey-green, moderately carbonatized quartz-sericite-chlorite schist with streaks of apple green mariposite. Overall, the schist is intermediate in composition although there are several intervals < 0.2 m long which may be felsic. Rock has a crushed, tectonized appearance throughout. Fault at 35 degrees to core axis at the lower contact. STRUCTURE:. At 150.5 m foliation is at 45 degrees to core axis. 153.3-153.7 M crushed fault zone 35 degrees to core axis.	VA02908	148.9	153.7	4.8	n/a	64	n/a	79	n/a	n/a	559
			VA08503	149.0	150.0	1.0	1	44	9	64	<1	8	520
			VA08504	152.7	153.7	1.0	1	42	6	56	<1	<5	210

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-69 | Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ALTERATION:.											
		148.9 153.7 WEAK PERVASIVE CARBONATIZATION , WEAK FRACTURE CONTROLLED CARBONATIZATION. Weak mariposite alteration over the first 0.5 m and weak pervasive epidotization below 151.9 m.											
		149.3 149.6 Irregular quartz-carbonate vein. Moderate hematite and mariposite alteration along the vein margins.											
153.7	162.4	FELSIC QUARTZ EYE TUFF											
		Light grey, crushed quartz-sericite schist with several bands of black, crushed argillite 1.0 to 40 cm wide. Rock has a mylonitic texture which gives it a fragmental appearance. Locally, up to 5 %, 3-5 mm quartz eyes. Lower contact is sharp at 70 degrees to core axis.	VA08505	153.7	154.7	1.0	5	75	34	180	<1	54	640
			VA02909	153.7	173.8	20.1	n/a	30	n/a	34	n/a	n/a	2070
			VA08506	154.7	155.7	1.0	5	12	10	230	<1	16	950
			VA08507	155.7	157.0	1.3	5	77	168	346	<1	10	1800
			VA08508	157.0	158.0	1.0	4	12	6	86	<1	8	1100
			VA08509	158.0	159.0	1.0	4	16	5	12	<1	14	1700
			VA08510	159.0	160.0	1.0	4	9	5	12	<1	5	1700
			VA08511	160.0	161.0	1.0	4	15	5	36	<1	13	1600
			VA08512	161.0	162.4	1.4	4	8	9	20	<1	13	1600
		STRUCTURE:.											
		156.6-157.1 M fault gouge at 55-60 degrees to core axis.											
		At 157.8 m foliation is at 45 degrees to core axis.											
		At 161.0 m foliation is at 60 degrees to core axis.											
		ALTERATION:.											
		153.7 162.4 MODERATE PERVASIVE SERICITIZATION to STRONG PERVASIVE SERICITIZATION. Wispy light brown sericite (?) between 157.2 and 159.0 m.											
		SULPHIDES:.											
		153.7-157.0 m 4-5% disseminated pyrite.											
		157.0-162.4 m 3-4% pyrite concentrated in bands < 3 mm thick parallel to foliation.											
		154.1 154.6 Medium brown, clay-rich zone.											
		154.4 154.6 Black, finely bedded cherty black argillite. Bedding runs parallel to the core axis.											
		156.1 888.8 1.0 cm band of cherty black argillite at 35 degrees to core axis.											
		156.3 888.8 1.0 cm band of black cherty argillite.											
		156.6 157.0 Black, argillaceous fault gouge at 55-60 degrees to core axis.											
		157.1 157.6 Several pale olive green carbonate-epidote rich bands < 5.0 cm wide parallel to foliation.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-69 Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
162.4	164.3	MAFIC INTRUSIVE Medium green, fine-grained weakly foliated mafic dyke. Weak fracture controlled carbonatization and hematization. Foliation is at 50 degrees to core axis. Fault gouge, 10 cm thick at 65-75 degrees to core axis at the lower contact.											
164.3	173.8	FELSIC QUARTZ EYE TUFF Light grey quartz-sericite schist with 3-5 %, 2-4 mm clear quartz eyes. Lower contact is sharp at 40 degrees to core axis. STRUCTURE:. 164.3-164.4 M fault gouge at 65-75 degrees to core axis. ALTERATION:. 164.3 173.8 MODERATE PERVASIVE SERICITIZATION. 167.6 167.7 Pale olive green strongly epidotized and carbonatized band at 60 degrees to core axis with a few specks of mariposite. SULPHIDES:. 164.3-169.0 m 1-2% disseminated pyrite. 169.0-170.0 m 4 % disseminated pyrite. 170.0-173.8 m 1-2% disseminated pyrite.	VA08513	164.3	165.0	.7	2	29	8	52	<1	7	3500
			VA08514	165.0	166.0	1.0	2	12	5	52	<1	<5	2500
			VA08515	166.0	167.0	1.0	2	12	7	48	<1	<5	2100
			VA08516	167.0	168.0	1.0	2	22	6	40	<1	<5	2400
			VA08517	168.0	169.0	1.0	2	7	7	46	<1	<5	1800
			VA08518	169.0	170.0	1.0	4	16	10	44	<1	20	1600
			VA08519	170.0	171.0	1.0	2	24	8	42	<1	5	1900
			VA08520	171.0	172.0	1.0	2	7	9	68	<1	10	1500
			VA08521	172.0	173.0	1.0	2	15	10	46	<1	<5	3500
			VA08522	173.0	173.8	.8	2	20	14	62	<1	7	2500
173.8	179.9	MAFIC INTRUSIVE As 162.4 to 164.3 m. Occasional quartz grain 2-4 mm in diameter suggesting that this may be a massive mafic flow or tuff (check whole rock sample). Lower contact is sharp at 55-60 degrees to core axis.											
179.9	193.0	FELSIC QUARTZ EYE TUFF As 164.3 to 173.8 m except locally very weakly chloritic. Several fine-grained carbonatized mafic dykes <0.2 m thick that are identical to the unit above. Becomes cherty and is intercalated with mafic tuffaceous material for 1.3 m from the lower contact. Lower contact is at 40 degrees to core axis. STRUCTURE:. At 181.8 m foliation is at 60 degrees to core axis. At 181.9 m 2.0 cm fault gouge at 70 degrees to core axis. At 183.1 m 1.0 cm fault gouge at 65 degrees to core axis. At 191.5 m foliation is at 50 degrees to core axis. ALTERATION:. 179.9 185.2 MODERATE PERVASIVE SERICITIZATION.	VA02910	179.9	193.0	13.1	n/a	36	n/a	43	n/a	n/a	997
			VA08523	179.9	181.0	1.1	3	17	20	70	<1	10	1900
			VA08524	181.0	182.0	1.0	3	16	12	46	<1	11	1300
			VA08525	182.0	183.0	1.0	3	19	11	44	<1	19	1400
			VA08526	183.0	184.0	1.0	3	15	11	74	<1	14	1300
			VA08527	184.0	185.0	1.0	3	14	11	54	<1	17	1300
			VA08528	185.0	186.0	1.0	2	15	9	60	<1	<5	830
			VA08529	186.0	187.0	1.0	2	9	7	48	<1	<5	950
			VA08530	187.0	188.0	1.0	2	12	5	28	<1	<5	950
			VA08531	188.0	189.0	1.0	2	10	7	32	<1	<5	1000
			VA08532	189.0	190.0	1.0	2	9	8	60	<1	<5	710
			VA08533	190.0	191.0	1.0	2	5	5	44	<1	<5	830
			VA08534	191.0	192.0	1.0	2	10	6	36	<1	8	890
			VA08535	192.0	193.0	1.0	2	34	12	64	<1	21	720

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		185.2 187.0 WEAK SPOTTY CHLORITIZATION. Chlorite occurs in discrete < 2 mm spots and comprises < 2 % of the rock.											
		SULPHIDES:. 179.9-185.0 m 2-3% disseminated pyrite and in < 3 mm bands/stringers parallel to foliation. 185.0-193.0 m 1-2% pyrite as above.											
		185.8 185.9 Fine-grained carbonatized mafic dyke or massive volcanic at 70 degrees to core axis. As 162.4 to 164.3 m.											
		189.2 189.4 Fine-grained carbonatized mafic dyke or massive volcanic at 40 degrees to core axis.											
193.0	210.6	CHLORITE SCHIST As 102.7 to 148.9 m. Lower contact is at 60 degrees to core axis.	VA02911 VA08536	193.0 193.0	210.6 194.0	17.6 1.0	n/a 1	81 30	n/a 6	86 132	n/a <1	n/a 6	273 580
		STRUCUTRE:. At 195.5 m foliation is at 50 degrees to core axis.											
		ALTERATION:. 193.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION and locally weak thermal biotite alteration. Locally weak fracture controlled hematite.											
		210.1 210.2 Quartz-sericite schist band at 55 degrees to core axis.											
210.6	220.8	FELSIC QUARTZ EYE TUFF As 164.3 to 173.8 m. Becomes weakly to moderately chloritic below 212.7 m. Lower contact is at 60 degrees to core axis.	VA02912	210.6	220.8	10.2	n/a	21	n/a	33	n/a	n/a	1230
		STRUCTURE:. At 212.0 m foliation is at 43 degrees to core axis. At 219.0 m foliation is at 57 degrees to core axis.											
		ALTERATION:. 210.6 212.7 MODERATE PERVASIVE SERICITIZATION. 212.7 220.8 WEAK PERVASIVE CHLORITIZATION and MODERATE PERVASIVE SERICITIZATION.											
		213.7 215.0 Moderately chloritic, may be intermediate in composition.											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
220.8	231.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Dirty, grey-green, schistose, mafic to intermediate tuffaceous sediments. Locally, up to 5 % 1-3 mm quartz grains and subangular, cherty clasts and dark green-brown chlorite+biotite altered fragments stretched >10:1 parallel to foliation. Fault at 50 degrees to core axis at the lower contact. STRUCTURE:. At 223.3 m foliation is at 35 degrees to core axis. 231.6-232.0 M crushed fault zone at 50 degrees to core axis ALTERATION:. 220.8 231.0 WEAK FRACTURE CONTROLLED CARBONATIZATION and MODERATE PERVASIVE CHLORITIZATION and a wispy light brown alteration mineral is common.	VA02913	220.8	231.0	10.2	n/a	65	n/a	85	n/a	n/a	403
231.0	235.2	WEAKLY CHLORITIC FELSIC TUFF Light green-grey weakly to moderately pervasively chloritized felsic tuff. Lower contact is at 40 degrees to core axis. STRUCTURE:. At 234.5 m foliation is at 50 degrees to core axis. ALTERATION:. 231.0 235.2 WEAK PERVASIVE CHLORITIZATION. ALTERATION:. 232.0-235.2 m 3-4% disseminated pyrite.	VA08537	231.0	232.0	1.0	1	6	<5	32	<1	8	480
			VA02914	231.0	235.2	4.2	n/a	31	n/a	41	n/a	n/a	608
			VA08538	232.0	233.0	1.0	4	36	5	74	<1	<5	480
			VA08539	233.0	234.0	1.0	4	6	5	32	<1	16	600
			VA08540	234.0	235.2	1.2	4	19	<5	24	<1	27	570
235.2	247.8	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Similiar to 220.8 to 231.0 m. Approximately 5 %, 0.5 to 3.0 cm long, 0.2 cm wide chloritic fragments stretched parallel to foliation. Bands/beds up to 0.1 m thick parallel to foliation contain up to 8 %, 2-4 mm quartz eyes (2 % quartz eyes overall). Lower contact is at 45 degrees to core axis. STRUCTURE:. At 237.7 m foliation is at 40 degrees to core axis. ALTERATION:. 235.2 247.8 WEAK FRACTURE CONTROLLED CARBONATIZATION. 237.9 238.2 Medium green, fine-grained mafic dyke at. 238.9 240.3 Rock is felsic in composition and moderately sericitic.	VA02915	235.2	254.7	19.5	n/a	76	n/a	70	n/a	n/a	518

From (m)	To (m)	DESCRIPTION
247.8	249.2	FELSIC QUARTZ EYE TUFF Light grey, well foliated, sericitic felsic tuff with 5-10%, 2-5 mm round quartz eyes. Trace disseminated pyrite. Lower contact is at 45 degrees to core axis. STRUCTURE:. At 248.0 m foliation is at 40 degrees to core axis.
249.2	254.7	MAFIC TUFF Medium green, chloritic mafic tuff. Quite massive over the first 0.7 m and it may be a flow. Below 250.2 m it has a bedded appearance. The beds are 0.5 to 10 cm thick and are parallel to foliation. Lower contact is at 55 degrees to core axis. SRUCTURE:. At 250.6 m bedding is at 55 degrees to core axis. ALTERATION:. 249.2 252.2 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 252.1 254.4 Very massive dark green chloritic section. The presence of up to 5 %, < 2 mm quartz grains indicates that it is tuffaceous.
254.7	273.4	WEAKLY CHLORITIC FELSIC TUFF Light green-grey weakly to moderately chloritic and moderately sericitic well foliated coarse (1-2 mm grain-size) felsic tuff chlorite is pervasive and also occurs as discrete wisps < 2 mm thick and 1.0 cm long which may be altered fragments. Lower contact is at 50 degrees to core axis. STRUCTURE:. At 255.4 m foliation is at 40 degrees to core axis. At 269.0 m foliation is at 35 degrees to core axis. ALTERATION:. 254.7 271.0 WEAK PERVASIVE CHLORITIZATION , MODERATE PERVASIVE SERICITIZATION and locally WEAK PERVASIVE CARBONATIZATION. SULPHIDES:. 254.7-256.0 m 2% disseminated pyrite. 261.0-265.0 m 2 % pyrite concentrated in hairline fractures parallel to foliation. 266.0-267.0 m 4-5% disseminated and fracture controlled

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA02916	254.7	273.4	18.7	n/a	<10	n/a	57	n/a	n/a	559
VA08547	254.7	256.0	1.3	2	7	11	55	<1	19	530
VA08541	261.0	262.0	1.0	2	3	13	70	<1	5	590
VA08542	262.0	263.0	1.0	2	4	29	100	<1	12	610
VA08543	263.0	264.0	1.0	2	5	38	80	<1	22	490
VA08544	264.0	265.0	1.0	2	7	19	78	<1	21	590
VA08545	265.0	266.0	1.0	2	3	14	72	<1	11	560
VA08546	266.0	267.0	1.0	5	4	23	52	1	22	660
VA08548	267.0	268.0	1.0	2	3	31	82	1	18	650
VA08549	268.0	269.0	1.0	2	2	13	64	1	30	770
VA08550	269.0	270.0	1.0	2	3	6	82	<1	19	730
VA08551	270.0	271.0	1.0	2	5	7	66	<1	23	740
VA08552	271.0	272.0	1.0	1	5	5	56	<1	8	1000

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		pyrite. 267.0-271.0 m 1-2% disseminated pyrite.											
273.4	278.9	MAFIC FLOW Dark green, massive, moderately carbonatized, chloritic mafic flow. 1 Mm flakes of a light brown, soft alteration mineral is disseminated throughout. Lower contact is at 60 degrees to core axis. ALTERATION:. 273.4 278.9 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	VA02917	273.4	278.9	5.5	n/a	140	n/a	105	n/a	n/a	68
278.9	286.7	CHLORITIC FELSIC QUARTZ EYE TUFF Light green-grey weakly chloritic and moderately sericitic felsic tuff with 2-3%, 2-4 mm quartz eyes. No quartz eyes and strongly altered (sericite+lightbrown clay alteration mineral) above 280.0 m. Lower contact is placed where feldspars become conspicuous. STRUCTURE:. 279.8-280.3 M crushed fault zone at 55 degrees to core axis At 282.4 m bedding is at 65 degrees to core axis. 284.2-284.7 M fault gouge at 60-70 degrees to core axis. ALTERATION:. 278.9 286.7 WEAK PERVASIVE CHLORITIZATION. SULPHIDES:. 284.7-285.0 m 8 % fracture controlled pyrite. 285.0-286.7 m 3-4% pyrite in < 3 mm stringers parallel to foliation. 281.9 282.0 Dark green chloritic mafic tuff bed at 60 degrees to core axis.	VA02918	278.9	291.3	12.4	n/a	20	n/a	35	n/a	n/a	1380
			VA08553	284.7	285.0	.3	8	7	9	24	<1	<5	850
			VA08554	285.0	286.0	1.0	4	7	<5	34	<1	<5	1300
			VA08555	286.0	286.7	.7	4	4	<5	32	<1	<5	1200
286.7	291.3	QUARTZ-FELDSPAR PORPHYRITIC FLOW Comprised of 3-5 % round quartz eyes up to 5 mm in diameter and 5 %, 1 to 5 mm white feldspar crystals in a massive light green, weakly chloritic, siliceous matrix. 4.0 Cm of finely bedded (<0.5 cm) felsic tuff at the lower contact. Lower contact is a slip or erosional contact at 60 degrees to core axis. STRUCTURE:. 286.9-287.2 M crushed fault zone at 40 degrees to core axis 288.9-289.0 M crushed fault zone at 50 degrees to core axis At 289.8 m foliation is at 40 degrees to core axis. At 291.2 m 0.5 cm fault gouge at 60 degrees to core axis.	VA08556	286.7	288.0	1.3	1	6	<5	28	<1	8	1600
			VA08557	288.0	289.0	1.0	1	2	<5	24	<1	6	2700
			VA08558	289.0	290.0	1.0	1	2	<5	25	<1	<5	1300
			VA08559	290.0	291.0	1.0	1	6	<5	28	<1	11	1200

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ALTERATION:. 286.7 291.3 WEAK PERVASIVE CHLORITIZATION. SULPHIDES:. 289.0-291.0 M trace to 1 % disseminated pyrite. Rock has a reddish hue, possibly due to very finely disseminated sphalerite.											
291.3	293.6	MAFIC FLOW As 273.4 to 278.9 m. Lower contact is at 55 degrees to core axis. ALTERATION:. 291.3 293.6 WEAK FRACTURE CONTROLLED CARBONATIZATION. Weak fracture controlled hematite alteration near the lower contact.											
293.6	315.2	QUARTZ-FELDSPAR PORPHYRITIC FLOW As 286.7 to 291.3 m. Quite massive, foliation is not well developed. STRUCTURE:. At 309.8 m 2.0 cm fault gouge at 75 degrees to core axis. At 314.0 m foliation is at 50 degrees to core axis. ALTERATION:. 293.6 315.2 WEAK PERVASIVE CHLORITIZATION. SULPHIDES:. 293.6-298.0 M trace disseminated pyrite. Core has a spotty reddish appearance possibly due to finely disseminated sphalerite or weak hematite alteration centred on quarz phenocrysts. 307.0 307.5 Barren quartz vein with moderate fracture controlled chlorite at 50 degrees to core axis. 310.2 310.4 Dark green carbonatized mafic flow or dyke at 70 degrees to core axis.	VA02919	293.6	315.2	21.6	n/a	14	n/a	36	n/a	n/a	1320
			VA08560	293.6	295.0	1.4	1	3	<5	30	<1	<5	1100
			VA08561	295.0	296.0	1.0	1	3	<5	22	<1	<5	960
			VA08562	296.0	297.0	1.0	1	3	<5	24	<1	<5	1100
			VA08563	297.0	298.0	1.0	1	3	<5	20	<1	<5	1100
315.2	331.0	CHLORITIC FELSIC QUARTZ EYE TUFF Similiar to unit above but much fewer feldspar crystals <2 mm long (1%) and more quartz eyes. Angular to subrounded quartz eyes 2-5 mm in diameter comprise 5-10% of the rock. Quite massive but hazy, lighter grey patches and bands up to 4 cm thick may represent felsic lapilli. Nil to trace disseminated pyrite. Quartz flooding obscures the lower contact.	VA02920	315.2	331.0	15.8	n/a	<10	n/a	21	n/a	n/a	1290

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		STRUCTURE:. At 323.6 m foliation is at 45 degrees to core axis. At 325.0 m fault gouge at 60 degrees to core axis. ALTERATION:. 315.2 331.0 WEAK PERVASIVE CHLORITIZATION. 320.6 321.1 Moderately chloritic zone, intermediate in composition. 321.1 321.8 Dark green, chloritic weakly carbonatized mafic tuff. Upper and lower contacts are gradational.												
331.0	336.6	MAFIC TUFF Massive, coarse, mafic-intermediate tuff, comprised of 5 %, 1-2 mm light grey subrounded clasts (most of which appear to be quartz) and up to 10 %, <1 mm white feldspar crystals in a dark green, chloritic, fine-grained mafic to intermediate matrix. Bleached and quartz-carbonate flooded for 0.7 m from the upper contact. Lower contact is at 30 degrees to core axis. ALTERATION:. 331.0 336.6 WEAK FRACTURE CONTROLLED CARBONATIZATION and MODERATE PERVASIVE CHLORITIZATION. 335.3 335.6 Mafic porphyritic (?). Black chlorite (replacing pyroxene) is smeared along foliation planes.	VA02921 VA08564	331.0 336.0	336.6 337.5	5.6 1.5	n/a 3	30 107	n/a 177	98 128	n/a <1	n/a 6	571 1700
336.6	337.5	FELSIC TUFF Light to dark grey felsic ash tuff. Moderately sericitic over first 0.4 m but becomes progresively more argillaceous and carbonatized below 337.0 m. 3 % fracture controlled pyrite. Lower contact is gradational.											
337.5	340.7	BLACK ARGILLITE Crushed moderately graphitic, black argillite. Moderate fracture controlled quartz-carbonate alteration. 3 % pyrite associated with quartz-carbonate alteration. Intercalated with felsic tuff over the last 0.7 m. Lower contact is at 30 degrees to core axis. STRUCTURE:. At 337.6 m bedding is at 45 degrees to core axis. 338.3-339.9 M FAULT ZONE at 5-15 degrees to core axis.	VA08565 VA08566 VA08567	337.5 338.6 340.0	338.6 340.0 340.7	1.1 1.4 .7	3 3 0	88 81 163	110 75 300	324 324 800	1 <1 1	19 12 18	1700 1100 1400

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Blocky, highly fractured core. 0.5 m of lost core.											
340.7	347.3	MAFIC TUFF Varies from a massive coarse mafic tuff +/- feldspar crystals to a fine dacitic tuff, although it is generally basaltic to andesitic in composition. Lower contact is at 50 degrees to core axis. STRUCTURE:. At 342.3 m foliation is at 50 degrees to core axis. ALTERATION:. 340.7 WEAK FRACTURE CONTROLLED CARBONATIZATION to MODERATE FRACTURE CONTROLLED CARBONATIZATION. Local weak hematite alteration where rock becomes feldspar porphyritic. 344.7 888.8 Splotches of purple carbonate up to 0.5 cm in diameter.	VA02922	340.7	347.3	6.6	n/a	27	n/a	74	n/a	n/a	721
347.3	350.7	WEAKLY CHLORITIC FELSIC TUFF Light grey-green, fine dacitic to rhyolitic tuff. Generally quite massive but locally finely bedded. 2-3% Pyrite concentrated in hairline fratures roughly parallel to foliation. 10.0 cm quartz vein at 40-60 degrees to core axis at the lower contact. STRUCTURE:. At 347.9 m bedding is at 50 degrees to core axis. At 350.3 m foliation is at 50 degrees to core axis. 347.6 348.1 Finely bedded (0.5 cm) section.	VA02923 VA08568 VA08569 VA08570 VA08571	347.3 347.6 348.0 349.0 350.0	350.7 348.0 349.0 350.0 350.7	3.4 .4 1.0 1.0 .7	n/a 3 3 3 3	62 34 29 71 23	n/a 8 9 7 9	85 90 116 78 48	n/a <1 <1 <1 <1	n/a <5 <5 <5 6	1510 800 1100 1200 1100
350.7	353.2	MAFIC TUFF Pale to dark green massive moderately carbonatized, fine mafic tuff. Varies from andesitic in composition above 352.0 m to basaltic below this depth. The lower contact is sharp at 20 degrees to core axis.	VA02924	350.7	369.0	18.3	n/a	53	n/a	69	n/a	n/a	442
353.2	365.5	FELDSPAR PORPHYRITIC MAFIC FLOW Very massive medium green mafic rock with 20-30%, 1-3 mm olive green, epidotized, subhedral feldspars. Similiar in appearance to gabbro but no ilmenite recognized: check whole rock samples. . ALTERATION:. 353.2 365.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION , WEAK PERVASIVE CARBONATIZATION and locally weak fracture controlled hematization.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
365.5	369.0	MAFIC TUFF Medium green moderately carbonatized and chloritized mafic tuff. Locally mafic (<2 %) porphyritic, pyroxene crystals have been altered chlorite and are smeared out along foliation planes. Nil to trace disseminated pyrite. Lower contact is at 40 degrees to core axis. STRUCTURE:. At 368.0 m bedding is at 40 degrees to core axis. ALTERATION:. 365.2 369.0 MODERATE FRACTURE CONTROLLED CARBONATIZATION and WEAK PERVASIVE CARBONATIZATION.											
369.0	371.9	WEAKLY CHLORITIC FELSIC TUFF Grey-green fine weakly chloritic felsic tuff. Locally quite cherty and finely bedded. Up to 2 % <2 mm clear quartz eyes. Lower contact is at 40 degrees to core axis. STRUCTURE:. At 369.3 m bedding is at 40 degrees to core axis. At 370.0 m bedding is at 40 degrees to core axis. ALTERATION:. 369.0 370.5 WEAK PERVASIVE CHLORITIZATION and WEAK FRACTURE CONTROLLED CARBONATIZATION. SULPHIDES:. 370.0-370.5 m 4 % fracture controlled pyrite. 370.5 371.2 Moderately carbonatized mafic tuff intercalated with a couple of beds of felsic quartz eye tuff <2.0 cm thick.	VA08572	370.0	370.5	.5	4	43	13	70	<1	6	1200
371.9	419.5	MAFIC TUFF Medium green, moderately carbonatized mafic tuff (chlorite schist) with up to 3 % < 5 mm wispy chlorite smeared along foliation planes (altered pyroxenes ?). Occasional light grey to green fine-grained intermediate to felsic bands parallel to foliation. Up to Locally, up to 3 % < 3 mm chlorite wisps up to 1.0 cm long which are either chloritized fiamme or pyroxene crystals. Lower contact is at 30 degrees to core axis. STRUCTURE:. At 376.4 m foliation is at 20 degrees to core axis. At 379.2 m foliation is at 35 degrees to core axis.	VA02925	371.9	400.0	28.1	n/a	35	n/a	74	n/a	n/a	832
			VA08573	373.6	374.6	1.0	1	55	<5	64	<1	6	910
			VA08574	374.6	375.6	1.0	4	85	6	88	<1	6	510
			VA08575	375.6	376.4	.8	4	101	5	68	<1	<5	890
			VA08576	376.4	377.4	1.0	1	59	5	88	<1	5	680
			VA02926	400.0	419.5	19.5	n/a	28	n/a	75	n/a	n/a	663

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		At 386.4 m foliation is at 40 degrees to core axis. At 397.1 m foliation is at 40 degrees to core axis. At 402.2 m 2.0 cm fault gouge at 35 degrees to core axis. 406.3-409.0 m 0.2 m of lost core for no apparent reason. At 409.5 m foliation is at 40 degrees to core axis. 417.1-417.3 M fault gouge at 20-40 degrees to core axis. ALTERATION:. 371.9 419.5 MODERATE FRACTURE CONTROLLED CARBONATIZATION and WEAK PERVASIVE CARBONATIZATION. Weak to moderate fracture controlled hematization below 407.0 m. . SULPHIDES:. 374.6-376.4 m 3 % pyrrhotite, 1 % pyrite and trace chalcopyrite. Sulphides occur in microfractures and as disseminations. 378.5 379.5 Several clasts of light grey fine-grained felsic volcanics up 1.0 cm wide and 4.0 cm long stretched parallel to foliation. 379.7 382.3 Tuff is intermediate (ie andesitic to dacitic in composition). 386.6 387.3 MAFIC TUFF BRECCIA. As 353.2 to 365.5 m. Moderate fracture controlled hematitization. May be a gabbro. Upper and lower contacts are gradational . 399.1 399.3 Irregular barren quartz-carbonate vein with fracture controlled chlorite at 35-45 degrees to core axis.											
419.5	423.4	CHLORITIC FELSIC QUARTZ EYE TUFF Light grey-green, coarse, felsic tuff with up to 15 %, 2-6 mm quartz eyes and locally 5 % feldspar crystals up to 4 mm in diameter and up to 5 % angular, light brown cherty clasts up to 10 mm in diameter. Locally trace disseminated pyrite. Rock has a very slight red tint in places which may be due to very finely disseminated sphalerite.	VA08577	422.0	423.4	1.4	1	3	<5	28	<1	7	1100

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02477	31.90	32.20	50.60	16.90	7.62	1.86	3.09	1.14	9.45	0.80	0.21	0.20	8.39	100.26	305.	22.	11.
VA02478	38.10	38.50	54.80	18.10	3.93	2.61	3.00	1.03	9.84	0.77	0.26	0.16	5.62	100.12	285.	34.	7.
VA02479	54.00	54.50	65.40	16.10	3.52	1.63	4.10	0.72	2.76	0.56	0.14	0.07	4.16	99.16	399.	24.	8.
VA02480	67.70	68.00	47.40	14.90	12.50	6.98	1.87	0.06	10.70	1.27	0.11	0.17	4.08	100.04	52.	33.	14.
VA02481	82.10	82.30	64.80	14.40	3.61	1.65	1.02	2.19	4.25	0.41	0.13	0.14	5.77	98.37	1280.	45.	5.
VA02482	94.70	95.00	47.00	14.70	12.00	7.87	2.24	0.05	11.10	1.31	0.12	0.18	3.23	99.80	44.	36.	14.
VA02483	101.20	101.50	72.40	13.90	1.66	1.25	0.43	2.66	2.53	0.29	0.07	0.07	3.47	98.73	1930.	65.	2.
VA02484	113.00	113.30	41.20	16.20	9.13	6.17	2.07	0.61	10.20	0.89	0.11	0.17	13.70	100.45	224.	38.	11.
VA02485	131.00	132.00	41.10	14.80	10.20	5.39	1.84	0.95	9.78	0.71	0.12	0.14	15.20	100.23	234.	34.	12.
VA02486	160.30	160.70	74.00	13.70	0.33	0.50	0.21	3.10	2.65	0.31	0.10	<0.01	3.39	98.29	1840.	87.	1.
VA02487	175.40	176.00	50.30	17.60	6.89	4.20	3.41	0.80	8.90	0.73	0.19	0.19	6.47	99.68	466.	33.	10.
VA02488	187.50	187.80	67.00	13.70	4.05	1.54	0.27	2.99	2.05	0.26	0.06	0.14	6.47	98.53	907.	51.	4.
VA02489	201.00	201.90	43.80	17.50	9.42	3.39	1.30	1.38	10.00	0.80	0.14	0.16	12.40	100.29	296.	31.	11.
VA02490	216.70	217.00	74.00	11.80	1.19	0.58	1.01	1.83	1.61	0.20	0.06	0.04	6.62	98.94	969.	52.	2.
VA02491	224.00	224.30	50.60	14.60	7.66	3.20	1.51	1.38	7.70	0.66	0.17	0.18	12.90	100.56	413.	33.	9.
VA02492	234.10	234.30	61.50	14.20	5.38	2.05	1.81	1.29	3.70	0.43	0.16	0.13	8.39	99.04	606.	32.	7.
VA02493	241.00	241.70	51.10	15.40	7.26	3.15	1.59	1.38	7.65	0.67	0.21	0.22	10.80	99.43	501.	34.	9.
VA02494	248.30	248.80	74.90	12.70	1.72	0.82	1.61	1.27	2.15	0.17	0.04	0.08	3.39	98.85	701.	39.	3.
VA02495	253.30	254.00	51.20	17.20	6.92	4.15	3.24	1.05	8.09	0.64	0.16	0.17	7.16	99.98	550.	34.	10.
VA02496	259.00	259.40	63.40	14.80	3.59	1.85	2.64	1.67	5.17	0.44	0.16	0.13	5.39	99.24	569.	36.	6.
VA02497	277.30	277.50	43.10	11.50	9.93	7.20	0.66	0.03	13.20	1.63	0.14	0.23	12.20	99.82	37.	41.	11.
VA02498	288.50	288.80	74.20	13.20	1.31	2.11	2.29	1.12	1.36	0.18	0.05	0.04	3.08	98.94	1130.	47.	4.
VA02499	300.70	301.00	74.70	12.70	1.34	2.00	2.08	2.24	1.46	0.16	0.04	0.05	2.08	98.85	1290.	55.	3.

Hole No. CH88-69 WHOLE ROCK SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CA0	%MG0	%NA20	%K20	%FE203	%TIO2	%P205	%MN0	%LOI	SUM	BA	AI	NACA
VA02501	322.00	322.90	74.90	11.50	2.41	0.90	3.01	1.94	1.71	0.19	0.05	0.05	2.62	99.28	1270.	34.	5.
VA02500	322.90	323.60	69.00	14.80	2.16	1.31	3.59	2.64	2.14	0.24	0.06	0.05	3.00	98.99	1470.	41.	6.
VA02502	352.10	352.50	49.00	14.40	9.36	2.69	4.34	0.52	9.98	0.69	0.45	0.21	8.23	99.87	213.	19.	14.
VA02503	356.60	357.00	42.90	16.20	12.20	5.05	1.48	0.75	12.00	0.84	0.30	0.21	7.39	99.32	325.	30.	14.
VA02504	369.40	369.60	64.80	14.80	3.95	0.98	4.43	2.18	3.78	0.25	0.17	0.10	4.00	99.44	1190.	27.	8.
VA02505	388.00	388.70	60.50	16.30	4.19	1.18	3.41	2.64	6.04	0.25	0.22	0.21	4.77	99.71	835.	33.	8.
VA02506	409.10	409.50	61.50	15.40	2.33	2.74	2.43	0.63	9.18	0.52	0.23	0.13	4.16	99.25	575.	41.	5.
VA02507	421.30	421.70	74.30	12.50	1.54	1.76	2.25	1.54	1.55	0.16	0.17	0.04	2.47	98.28	794.	47.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02902	7.30	37.00	53.20	16.90	6.78	2.12	2.26	1.43	8.55	0.74			7.62	99.60	365.	28.	9.
VA02903	37.00	63.90	50.90	16.40	7.00	3.06	2.30	0.96	10.50	0.94			7.47	99.53	205.	30.	9.
VA02904	76.00	88.60	66.00	14.50	4.48	1.67	1.48	1.78	3.83	0.41			5.85	100.00	1090.	37.	6.
VA02905	97.60	102.70	68.40	14.30	3.85	1.51	0.54	2.64	3.10	0.37			4.93	99.64	1350.	49.	4.
VA02906	102.70	132.00	40.80	14.80	12.20	4.45	1.32	0.82	10.10	0.82			14.10	99.41	166.	28.	14.
VA02907	132.00	148.90	44.70	15.40	9.86	3.89	1.85	0.98	10.30	0.86			11.60	99.44	282.	29.	12.
VA02908	148.90	153.70	48.00	10.90	11.40	4.93	0.73	1.21	6.61	0.38			15.70	99.86	559.	34.	12.
VA02909	153.70	173.80	76.20	12.50	1.15	0.63	0.07	2.82	1.93	0.24			2.85	98.39	2070.	74.	1.
VA02910	179.90	193.00	68.10	12.40	4.16	1.42	0.23	2.57	4.04	0.30			4.54	97.76	997.	48.	4.
VA02911	193.00	210.60	43.80	15.40	11.60	3.44	1.10	1.28	9.21	0.72			13.60	100.15	273.	27.	13.
VA02912	210.60	220.80	72.30	12.50	2.53	1.05	1.00	1.97	2.51	0.20			4.23	98.29	1230.	46.	4.
VA02913	220.80	231.00	46.90	15.30	8.11	3.58	1.41	1.24	9.67	0.77			12.80	99.78	403.	34.	10.
VA02914	231.00	235.20	61.00	15.10	5.17	2.07	1.82	1.30	3.98	0.45			8.54	99.43	608.	33.	7.
VA02915	235.20	254.70	47.30	15.60	8.14	3.74	1.44	1.38	9.11	0.80			12.50	100.01	518.	35.	10.
VA02916	254.70	273.40	60.80	14.50	4.83	1.99	2.35	1.87	4.78	0.43			6.23	97.78	559.	35.	7.
VA02917	273.40	278.90	44.30	11.90	9.84	6.59	0.90	0.06	13.30	1.67			11.40	99.96	68.	38.	11.
VA02918	278.90	291.30	71.90	13.20	2.40	1.81	1.89	1.61	1.99	0.25			3.70	98.75	1380.	44.	4.
VA02919	293.60	315.20	71.60	14.10	1.46	1.78	2.82	2.63	1.81	0.18			2.62	99.00	1320.	51.	4.
VA02920	315.20	331.00	72.70	12.60	2.09	0.99	2.89	2.44	1.61	0.21			2.85	98.38	1290.	41.	5.
VA02921	331.00	336.60	54.20	16.50	4.49	3.52	5.05	1.19	7.85	0.74			5.62	99.16	571.	33.	10.
VA02922	340.70	347.30	50.90	16.20	7.73	3.49	2.93	1.12	9.39	0.76			5.93	98.45	721.	30.	11.
VA02923	347.30	350.70	55.10	17.10	4.06	3.78	1.12	3.78	7.47	0.77			5.16	98.34	1510.	59.	5.
VA02924	350.70	369.00	44.20	16.80	9.51	4.80	2.16	1.23	11.40	0.84			7.39	98.33	443.	34.	12.

Hole No. CH88-69 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02925	371.90	400.00	52.20	17.00	6.20	2.76	2.59	2.05	8.71	0.73			7.08	99.32	832.	35.	9.
VA02926	400.00	419.50	56.60	16.00	5.46	2.09	2.97	1.79	7.39	0.54			6.00	98.84	663.	32.	8.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08493	34.00	35.00	160.0	69.0	94.0	<0.5	<5.0	24.0	16.0	<5.0	<5.0	<1.0	4.0	1190.0	42.	0.	6.
VA08492	53.60	55.00	390.0	15.0	52.0	<0.5	<5.0	11.0	12.0	<5.0	8.0	<1.0	4.0	360.0	22.	0.	2.
VA08495	87.00	88.60	1000.0	41.0	46.0	<0.5	<5.0	8.0	4.0	<5.0	<5.0	<1.0	7.0	700.0	47.	0.	3.
VA08494	98.00	99.00	1000.0	28.0	260.0	<0.5	<5.0	8.0	8.0	5.0	7.0	1.0	3.0	570.0	10.	1.	3.
VA08496	99.00	99.50	960.0	71.0	2600.0	<0.5	13.0	8.0	12.0	16.0	8.0	11.0	5.0	880.0	3.	1.	3.
VA08497	99.50	100.20	720.0	45.0	130.0	<0.5	5.0	38.0	100.0	8.0	29.0	<1.0	4.0	1350.0	26.	2.	7.
VA08498	100.20	101.20	1400.0	57.0	60.0	<0.5	<5.0	18.0	22.0	<5.0	17.0	<1.0	4.0	650.0	49.	1.	3.
VA08499	104.00	105.00	450.0	30.0	92.0	<0.5	23.0	33.0	16.0	9.0	12.0	<1.0	5.0	1200.0	25.	2.	5.
VA08500	105.00	106.00	360.0	26.0	84.0	<0.5	12.0	28.0	16.0	7.0	<5.0	<1.0	5.0	1020.0	24.	2.	5.
VA08501	106.00	107.00	210.0	41.0	80.0	<0.5	<5.0	27.0	14.0	<5.0	<5.0	<1.0	5.0	1180.0	34.	2.	5.
VA08502	107.00	108.00	260.0	23.0	74.0	<0.5	<5.0	24.0	10.0	<5.0	<5.0	<1.0	3.0	900.0	24.	1.	5.
VA08503	149.00	150.00	520.0	44.0	64.0	<0.5	8.0	20.0	56.0	9.0	27.0	<1.0	8.0	1800.0	41.	1.	4.
VA08504	152.70	153.70	210.0	42.0	56.0	<0.5	<5.0	28.0	60.0	6.0	8.0	<1.0	5.0	1080.0	43.	1.	4.
VA08505	153.70	154.70	640.0	75.0	180.0	<0.5	54.0	32.0	20.0	34.0	96.0	<1.0	5.0	1280.0	29.	5.	6.
VA08506	154.70	155.70	950.0	12.0	230.0	<0.5	16.0	4.0	4.0	10.0	24.0	1.0	5.0	160.0	5.	5.	1.
VA08507	155.70	157.00	1800.0	77.0	346.0	<0.5	10.0	11.0	12.0	168.0	32.0	2.0	5.0	390.0	18.	5.	3.
VA08508	157.00	158.00	1100.0	12.0	86.0	<0.5	8.0	8.0	10.0	6.0	6.0	<1.0	5.0	580.0	12.	4.	2.
VA08509	158.00	159.00	1700.0	16.0	12.0	<0.5	14.0	5.0	5.0	5.0	10.0	<1.0	2.0	30.0	57.	4.	2.
VA08510	159.00	160.00	1700.0	9.0	12.0	<0.5	5.0	5.0	16.0	5.0	6.0	<1.0	2.0	10.0	43.	4.	1.
VA08511	160.00	161.00	1600.0	15.0	36.0	<0.5	13.0	8.0	54.0	5.0	20.0	<1.0	2.0	100.0	29.	4.	2.
VA08512	161.00	162.40	1600.0	8.0	20.0	<0.5	13.0	4.0	5.0	9.0	11.0	<1.0	4.0	120.0	29.	4.	1.
VA08513	164.30	165.00	3500.0	29.0	52.0	<0.5	7.0	2.0	4.0	8.0	7.0	<1.0	4.0	400.0	36.	2.	1.
VA08514	165.00	166.00	2500.0	12.0	52.0	<0.5	<5.0	2.0	4.0	5.0	6.0	<1.0	3.0	420.0	19.	2.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08515	166.00	167.00	2100.0	12.0	48.0	<0.5	<5.0	3.0	4.0	7.0	7.0	<1.0	3.0	550.0	20.	2.	1.
VA08516	167.00	168.00	2400.0	22.0	40.0	<0.5	<5.0	6.0	7.0	6.0	<5.0	<1.0	3.0	630.0	35.	2.	1.
VA08517	168.00	169.00	1800.0	7.0	46.0	<0.5	<5.0	4.0	5.0	7.0	5.0	<1.0	2.0	590.0	13.	2.	1.
VA08518	169.00	170.00	1600.0	16.0	44.0	<0.5	20.0	3.0	4.0	10.0	10.0	<1.0	6.0	520.0	27.	4.	2.
VA08519	170.00	171.00	1900.0	24.0	42.0	<0.5	5.0	4.0	4.0	8.0	5.0	<1.0	4.0	510.0	36.	2.	1.
VA08520	171.00	172.00	1500.0	7.0	68.0	<0.5	10.0	5.0	5.0	9.0	8.0	<1.0	4.0	750.0	9.	2.	2.
VA08521	172.00	173.00	3500.0	15.0	46.0	<0.5	<5.0	4.0	8.0	10.0	9.0	<1.0	5.0	720.0	25.	2.	2.
VA08522	173.00	173.80	2500.0	20.0	62.0	<0.5	7.0	5.0	6.0	14.0	9.0	<1.0	4.0	340.0	24.	2.	2.
VA08523	179.90	181.00	1900.0	17.0	70.0	<0.5	10.0	3.0	4.0	20.0	9.0	<1.0	3.0	520.0	20.	3.	1.
VA08524	181.00	182.00	1300.0	16.0	46.0	<0.5	11.0	3.0	4.0	12.0	19.0	<1.0	1.0	510.0	26.	3.	2.
VA08525	182.00	183.00	1400.0	19.0	44.0	<0.5	19.0	3.0	4.0	11.0	19.0	<1.0	4.0	420.0	30.	3.	2.
VA08526	183.00	184.00	1300.0	15.0	74.0	<0.5	14.0	3.0	4.0	11.0	19.0	<1.0	4.0	640.0	17.	3.	2.
VA08527	184.00	185.00	1300.0	14.0	54.0	<0.5	17.0	3.0	3.0	11.0	15.0	<1.0	5.0	780.0	21.	3.	2.
VA08528	185.00	186.00	830.0	15.0	60.0	<0.5	<5.0	5.0	4.0	9.0	<5.0	<1.0	4.0	770.0	20.	2.	2.
VA08529	186.00	187.00	950.0	9.0	48.0	<0.5	<5.0	2.0	4.0	7.0	<5.0	<1.0	4.0	500.0	16.	2.	1.
VA08530	187.00	188.00	950.0	12.0	28.0	<0.5	<5.0	2.0	4.0	5.0	<5.0	<1.0	3.0	680.0	30.	2.	1.
VA08531	188.00	189.00	1000.0	10.0	32.0	<0.5	<5.0	4.0	4.0	7.0	6.0	<1.0	6.0	650.0	24.	2.	1.
VA08532	189.00	190.00	710.0	9.0	60.0	<0.5	<5.0	4.0	4.0	8.0	<5.0	<1.0	8.0	770.0	13.	2.	2.
VA08533	190.00	191.00	830.0	5.0	44.0	<0.5	<5.0	2.0	4.0	5.0	<5.0	<1.0	8.0	680.0	10.	2.	1.
VA08534	191.00	192.00	890.0	10.0	36.0	<0.5	8.0	4.0	4.0	6.0	7.0	<1.0	5.0	780.0	22.	2.	2.
VA08535	192.00	193.00	720.0	34.0	64.0	<0.5	21.0	13.0	13.0	12.0	32.0	<1.0	6.0	840.0	35.	2.	3.
VA08536	193.00	194.00	580.0	30.0	132.0	<0.5	6.0	24.0	26.0	6.0	11.0	<1.0	5.0	1050.0	19.	1.	6.
VA08537	231.00	232.00	480.0	6.0	32.0	<0.5	8.0	5.0	4.0	<5.0	11.0	<1.0	5.0	640.0	16.	1.	3.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08538	232.00	233.00	480.0	36.0	74.0	<0.5	<5.0	12.0	12.0	5.0	7.0	<1.0	5.0	1060.0	33.	4.	4.
VA08539	233.00	234.00	600.0	6.0	32.0	<0.5	16.0	6.0	4.0	5.0	9.0	<1.0	5.0	660.0	16.	4.	3.
VA08540	234.00	235.20	570.0	19.0	24.0	<0.5	27.0	9.0	4.0	<5.0	12.0	<1.0	4.0	700.0	44.	4.	3.
VA08547	254.70	256.00	530.0	7.0	55.0	<0.5	19.0	5.0	4.0	11.0	8.0	<1.0	5.0	800.0	11.	2.	3.
VA08541	261.00	262.00	590.0	3.0	70.0	<0.5	5.0	6.0	4.0	13.0	10.0	<1.0	5.0	800.0	4.	2.	3.
VA08542	262.00	263.00	610.0	4.0	100.0	<0.5	12.0	5.0	4.0	29.0	135.0	<1.0	4.0	1070.0	4.	2.	3.
VA08543	263.00	264.00	490.0	5.0	80.0	<0.5	22.0	6.0	4.0	38.0	95.0	<1.0	4.0	1100.0	6.	2.	3.
VA08544	264.00	265.00	590.0	7.0	78.0	<0.5	21.0	6.0	3.0	19.0	28.0	<1.0	5.0	660.0	8.	2.	3.
VA08545	265.00	266.00	560.0	3.0	72.0	<0.5	11.0	6.0	4.0	14.0	50.0	<1.0	4.0	810.0	4.	2.	3.
VA08546	266.00	267.00	660.0	4.0	52.0	0.6	22.0	6.0	8.0	23.0	77.0	<1.0	4.0	930.0	7.	5.	3.
VA08548	267.00	268.00	650.0	3.0	82.0	0.7	18.0	5.0	5.0	31.0	49.0	<1.0	5.0	880.0	4.	2.	3.
VA08549	268.00	269.00	770.0	2.0	64.0	0.7	30.0	5.0	4.0	13.0	150.0	<1.0	5.0	930.0	3.	2.	2.
VA08550	269.00	270.00	730.0	3.0	82.0	<0.5	19.0	5.0	4.0	6.0	105.0	<1.0	4.0	900.0	4.	2.	3.
VA08551	270.00	271.00	740.0	5.0	66.0	<0.5	23.0	5.0	4.0	7.0	55.0	<1.0	8.0	910.0	7.	2.	3.
VA08552	271.00	272.00	1000.0	5.0	56.0	<0.5	8.0	5.0	4.0	5.0	10.0	<1.0	4.0	720.0	8.	1.	3.
VA08553	284.70	285.00	850.0	7.0	24.0	<0.5	<5.0	4.0	6.0	9.0	6.0	<1.0	5.0	270.0	23.	8.	5.
VA08554	285.00	286.00	1300.0	7.0	34.0	<0.5	<5.0	4.0	4.0	<5.0	<5.0	<1.0	3.0	250.0	17.	4.	2.
VA08555	286.00	286.70	1200.0	4.0	32.0	<0.5	<5.0	4.0	4.0	<5.0	<5.0	<1.0	5.0	230.0	11.	4.	1.
VA08556	286.70	288.00	1600.0	6.0	28.0	<0.5	8.0	2.0	3.0	<5.0	<5.0	<1.0	3.0	270.0	18.	1.	1.
VA08557	288.00	289.00	2700.0	2.0	24.0	<0.5	6.0	2.0	4.0	<5.0	<5.0	<1.0	3.0	280.0	8.	1.	1.
VA08558	289.00	290.00	1300.0	2.0	25.0	<0.5	<5.0	3.0	4.0	<5.0	<5.0	<1.0	2.0	250.0	7.	1.	1.
VA08559	290.00	291.00	1200.0	6.0	28.0	<0.5	11.0	2.0	3.0	<5.0	<5.0	<1.0	4.0	270.0	18.	1.	1.
VA08560	293.60	295.00	1100.0	3.0	30.0	<0.5	<5.0	3.0	3.0	<5.0	<5.0	<1.0	5.0	370.0	9.	1.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08561	295.00	296.00	960.0	3.0	22.0	<0.5	<5.0	1.0	3.0	<5.0	<5.0	<1.0	4.0	320.0	12.	1.	1.
VA08562	296.00	297.00	1100.0	3.0	24.0	<0.5	<5.0	1.0	3.0	<5.0	<5.0	<1.0	3.0	310.0	11.	1.	1.
VA08563	297.00	298.00	1100.0	3.0	20.0	<0.5	<5.0	2.0	2.0	<5.0	<5.0	<1.0	2.0	240.0	13.	1.	1.
VA08564	336.00	337.50	1700.0	107.0	128.0	<0.5	6.0	12.0	23.0	177.0	50.0	2.0	5.0	540.0	46.	3.	3.
VA08565	337.50	338.60	1700.0	88.0	324.0	0.7	19.0	8.0	30.0	110.0	40.0	5.0	5.0	560.0	21.	3.	5.
VA08566	338.60	340.00	1100.0	81.0	324.0	<0.5	12.0	10.0	36.0	75.0	89.0	4.0	7.0	520.0	20.	3.	5.
VA08567	340.00	340.70	1400.0	163.0	800.0	0.8	18.0	16.0	58.0	300.0	80.0	16.0	8.0	560.0	17.	3.	5.
VA08568	347.60	348.00	800.0	34.0	90.0	<0.5	<5.0	18.0	10.0	8.0	18.0	<1.0	3.0	850.0	27.	3.	4.
VA08569	348.00	349.00	1100.0	29.0	116.0	<0.5	<5.0	10.0	14.0	9.0	10.0	<1.0	6.0	610.0	20.	3.	4.
VA08570	349.00	350.00	1200.0	71.0	78.0	<0.5	<5.0	12.0	16.0	7.0	96.0	<1.0	4.0	430.0	48.	3.	4.
VA08571	350.00	350.70	1100.0	23.0	48.0	<0.5	6.0	8.0	12.0	9.0	29.0	<1.0	13.0	380.0	32.	3.	3.
VA08572	370.00	370.50	1200.0	43.0	70.0	<0.5	6.0	12.0	9.0	13.0	66.0	<1.0	6.0	580.0	38.	4.	2.
VA08573	373.60	374.60	910.0	55.0	64.0	<0.5	6.0	18.0	30.0	<5.0	50.0	<1.0	4.0	1180.0	46.	1.	4.
VA08574	374.60	375.60	510.0	85.0	88.0	<0.5	6.0	30.0	86.0	6.0	40.0	<1.0	4.0	1150.0	49.	4.	6.
VA08575	375.60	376.40	890.0	101.0	68.0	<0.5	<5.0	26.0	44.0	5.0	76.0	<1.0	4.0	1020.0	60.	4.	5.
VA08576	376.40	377.40	680.0	59.0	88.0	<0.5	5.0	32.0	73.0	5.0	40.0	<1.0	5.0	1320.0	40.	1.	6.
VA08577	422.00	423.40	1100.0	3.0	28.0	<0.5	7.0	2.0	4.0	<5.0	<5.0	<1.0	2.0	400.0	10.	1.	1.

Summary Log: DDH CH88-70
Location: 25+00 W, 0+04 S; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 25, 1988
Core Logged By: D.P. Money

0.0	- 4.1	Casing.
4.1	- 82.7	Mafic ash to locally lapilli tuffs with minor sediments.
82.7	- 110.9	Thin intercalated felsic, intermediate and mafic crystal tuff beds.
110.9	- 125.0	Mafic ash tuffs with rare cherty beds.
125.0	- 127.9	Gabbro dyke.
127.9	- 176.3	Mafic ash tuff with local chert beds from 127.9 to 129.0 m.
176.3	- 180.4	Chloritic felsic crystal tuff.
180.4	- 192.6	Mafic tuff with minor intercalated cherty sediments.
192.6	- 199.4	Fault gouge.
199.4	- 210.1	Mafic feldspar phyric flow.
210.1	- 213.0	Quartz - sericite schist with 10 % fine grained sulphides.
213.0	- 236.1	Mafic ash tuff.
236.1	- 238.0	Fault breccia.
238.0	- 247.0	Chloritic felsic ash tuff.
247.0	- 257.2	Mafic crystal lapilli tuff.
257.2	- 279.8	Chloritic felsic to intermediate crystal tuff with about 3 to 5 % sulphides, pyrite - pyrrhotite - sphalerite - (chalcopyrite), from 267.0 to 279.8 m.
279.8	- 292.5	Mafic lapilli tuff.
292.5	- 306.1	Weakly chloritic felsic tuff.
306.1	- 348.7	Andesitic to mafic crystal lapilli tuff.
348.7	- 377.3	Felsic ash tuff with 1 to 2 % fracture controlled pyrite.
377.3	- 395.7	Gabbro.
395.7	- 403.1	Felsic crystal tuff to cherty tuffite.
403.1		End of hole.

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-70 | Page Number 1

Hole Location: 25+00 W 0+04 S

NTS: 092B/13 UTM:
Azimuth: 180 Elevation: 901 m
Dip: -50 Length: 403.1 m

Started: June 18, 1988
Completed: June 25, 1988

Claim No. Holyoak 2
Section No.: Section 25+00 West, Holyoak Claim Group

Logged By: D.P. Money
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg and X-Ray Assay

Core Size: NQ

Purpose: To develop a stratigraphic section.

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
14.00	176.0	-50.0	273.10	186.0	-46.0
90.50	179.0	-50.0	366.70	189.0	-45.5
203.30	182.0	-48.0			

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	4.1	OVERBURDEN No chit to mark start of coring.											
4.1	12.4	MAFIC LAPILLI TUFF Medium green chloritic tuff with 15 % light green lapilli, elongate and up to 2 cm. There is moderate fracture controlled carbonatization and trace disseminated up to 2 mm pyrite cubes. Minor fracture controlled quartz veinlets occur. There is up to 5 %, 1 to 2 mm, feldspars. Oxidized to 11.9 m. Alteration :. 4.1 12.4 MODERATE FRACTURE CONTROLLED CARBONATIZATION. Lost core :. 5.9 7.3 : 0.4 m. 7.3 8.7 : 0.3 m. 10.1 10.7 : 0.2 m. Foliations :. 4.5 : 64 degrees to core axis. 9.0 : 45 degrees to core axis. 10.7 : 37 degrees to core axis. 12.1 : 45 degrees to core axis.	VA01265	4.1	12.4	8.3	n/a	174	n/a	49	n/a	n/a	600
12.4	13.4	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Mafic tuff with approximately 20 % argillite component, minor brown chert beds and a jasper clast at 12.5. There is approximately 3 % banded pyrite parallel to foliation. Foliation and bedding average 45 degrees to core axis.	VA02194	12.4	13.4	1.0	3	32	6	63	<1	<5	730

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-70 Page Number 2

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
13.4	16.9	MAFIC LAPILLI TUFF As from 4.1 to 12.4, with minor quartz - chlorite veins. Alteration :. 13.4 16.9 MODERATE FRACTURE CONTROLLED CARBONATIZATION. Foliations :. 16.6 : 47 degrees to core axis. Lost core :. 14.8 16.5 : 0.6 m.	VA01266	13.4	16.9	3.5	n/a	159	n/a	46	n/a	n/a	628
16.9	17.0	CHERTY SEDIMENTS (BLACK ARGILLITE AND SILTSTONE WITH MINOR GREYWACKE) Purple cherty sediment with 5 % fracture controlled pyrite. Bedding at approximately 55 degrees to core axis.											
17.0	30.8	MAFIC TUFF Variable mafic ash to crystal tuffs. 17.0 19.7 MODERATE FRACTURE CONTROLLED CARBONATIZATION in fine-grained chlorite schist with numerous quartz - chlorite veins and trace pyrite. 19.7 21.4 Tuff with on average 5 %, 1 mm, feldspars and trace to 5 %, 1 to 2 mm, light green lapilli. 21.4 21.9 Medium green massive with strong fracture controlled carbonatization and weak fracture controlled hematite. 21.9 27.0 Strong veining of quartz and calcite in mafic tuff with 2 to 3 %, 1 to 2 mm, mafic crystals. 27.0 30.8 Very fine-grained, no crystals, weak fracture controlled carbonatization, trace pyrite, locally contorted. Possibly weak chert component Foliations :. 18.6 : 46 degrees to core axis. 20.2 : 41 degrees to core axis. 29.0 : 47 degrees to core axis. Blocky, highly fractured core :. 20.7 to 21.5. 23.4 to 25.6. 26.1 to 28.1. Lost core :. 17.1 18.3 : 0.2 m, probably at fault gouge at 18.2. 18.3 19.2 : 0.2 m. 23.8 25.6 : 1.2 m. 25.6 27.4 : 0.6 m. 27.4 28.3 : 0.5 m. 29.6 31.4 : 0.9 m.	VA01267	17.0	29.0	12.0	n/a	147	n/a	40	n/a	n/a	900
30.8	46.6	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Fine-grained mafic brown to green mafic ash tuffs with dark brown argillaceous zone from 32.8 to 39.9. There are	VA02195 VA01268	30.8 31.0	33.0 46.0	2.2 15.0	2 n/a	42 159	6 n/a	122 86	<1 n/a	7 n/a	860 856

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-70 Page Number 3

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		numerous thin chert and cherty beds throughout. There is 2 % fracture controlled pyrite, mostly parallel to the foliation, which is strong producing blocky, highly fractured core from 34.1 to 44.8. There is moderate to strong fracture controlled carbonatization.	VA02196	33.0	35.4	2.4	2	55	9	218	<1	<5	910
			VA02197	35.4	37.0	1.6	2	50	9	179	<1	<5	1200
			VA02198	37.0	39.3	2.3	2	52	29	130	<1	<5	1100
			VA02199	39.3	40.8	1.5	2	40	6	80	<1	<5	920
			VA02200	40.8	42.5	1.7	2	40	6	75	<1	<5	870
			VA02201	42.5	44.0	1.5	2	36	5	99	<1	<5	710
			VA02202	44.0	45.0	1.0	2	40	7	69	<1	<5	980
			VA02203	45.0	46.6	1.6	2	36	<5	81	<1	<5	1700
		Alteration :.											
		30.8 46.6 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
		Foliations :.											
		31.2 : 53 degrees to core axis.											
		33.0 : 47 degrees to core axis.											
		38.2 : 44 degrees to core axis.											
		42.1 : 54 degrees to core axis.											
		45.0 : 53 degrees to core axis.											
		Bedding :.											
		42.3 : 48 degrees to core axis.											
		43.6 : 44 degrees to core axis.											
		Lost core :.											
		34.1 35.4 : 0.8 m.											
		35.4 36.6 : 0.6 m.											
		36.6 38.1 : 0.4 m.											
		38.1 39.3 : 0.7 m.											
		39.3 40.8 : 0.5 m.											
		40.8 41.8 : 0.4 m.											
46.6	46.9	FAULT ZONE											
		20 Cm of green fault gouge at approximately 70 degrees to core axis.											
		Lost core : 0.2 m from 46.0 to 46.9.											
46.9	82.7	MAFIC TUFF											
		Medium to dark green mafic to andesitic tuff with on average 0.5 to 1 %, 2 mm, quartz eyes, and 5 % fine-grained feldspars. There are minor local calcite veinlets parallel to and cross-cutting foliation, locally with epidote or hematite. There are approximately 2 %, 1 to 15 cm, white quartz - pink calcite - chlorite veins. Locally there are 3 % 3 mm long flattened dark chlorite wisps parallel to foliation. There is weak fracture controlled carbonatization. Trace pyrite occurs as up to 2 mm cubes and in fracture controlled calcite veinlets. Is locally contorted with minor fault gouge at 54.4, 60.6 and 78.9, probably parallel to foliation. Lower contact is gradational over approximately 50 cm.	VA01269	48.0	65.0	17.0	n/a	132	n/a	67	n/a	n/a	986
			VA01270	65.0	82.0	17.0	n/a	134	n/a	70	n/a	n/a	991
		Foliations :.											
		47.7 : 53 degrees to core axis.											
		49.6 : 46 degrees to core axis.											
		52.0 : 47 degrees to core axis.											
		59.2 : 42 degrees to core axis.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		62.0 : 46 degrees to core axis. 68.3 : 47 degrees to core axis. 72.6 : 46 degrees to core axis. 76.7 : 48 degrees to core axis. 82.1 : 53 degrees to core axis. Lost core :. 46.9 47.5 : 0.3 m. 47.5 49.7 : 0.4 m. 53.6 54.6 : 0.2 m. 54.6 56.1 : 0.3 m. 63.7 64.9 : 0.2 m. Alteration :. 46.9 82.7 WEAK FRACTURE CONTROLLED CARBONATIZATION.											
82.7	90.2	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Locally weakly chloritic with moderate fracture controlled sericitization. There are on average 15 % crystals, up to 1.5 mm, quartz eyes and feldspar grains, ratio variable from 1 quartz to 1 feldspar to 1 quartz to 4 feldspar. Locally contorted with 3 % white quartz veins. Trace disseminated pyrite and 3 % fracture controlled pyrite from 85.3 to 85.7. Alteration :. 82.7 90.2 MODERATE SPOTTY SERICITIZATION. Foliations :. 83.6 : 45 degrees to core axis. 85.1 : 52 degrees to core axis. 88.7 : 78 degrees to core axis.	VA01271	82.7	90.2	7.5	n/a	137	n/a	72	n/a	n/a	1150
			VA02204	84.0	85.0	1.0	1	4	6	34	<1	<5	1100
			VA02205	85.0	86.0	1.0	3	38	14	67	<1	33	1100
			VA02206	86.0	87.0	1.0	0	20	<5	80	<1	31	1000
90.2	95.4	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF Weakly contorted chlorite - sericite with 7 to 10 % fracture controlled calcite parallel to the sericite and chlorite layers. There is approximately 10 %, < 1 to 2 mm, quartz eyes and approximately 5 %, 1 mm, feldspars. There is minor calcite in the pressure shadows. Trace local hematite. Minor local fault slips parallel to foliation. There are trace mafic crystals above the lower contact. Foliations :. 91.0 : 46 degrees to core axis. 92.4 : 68 degrees to core axis. 94.0 : 61 degrees to core axis.	VA01272	90.2	95.4	5.2	n/a	136	n/a	37	n/a	n/a	655
95.4	100.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Weakly chloritic contorted felsic tuff with 3 %, 2 to 5 mm, quartz eyes and trace to 2 %, 3 to 4 mm, feldspars. There is weak to moderate pale yellow fracture controlled sericitization. Approximately 1 % quartz - chlorite veins	VA01273	95.4	100.3	4.9	n/a	120	n/a	22	n/a	n/a	915

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		occur. There is trace to nil disseminated pyrite. There is weak to moderate fracture controlled carbonatization, mostly as calcite veinlets. Foliation trends at roughly 50 degrees to core axis. Alteration :. 95.4 100.3 WEAK PERVASIVE CHLORITIZATION. 95.4 100.3 MODERATE FRACTURE CONTROLLED SERICITIZATION. 95.4 100.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
100.3	101.1	INTERMEDIATE QUARTZ EYE TUFF Andesitic to mafic tuff with approximately 10 %, up to 2 mm, quartz eyes and strong fracture controlled calcite veinlets. There are 0.5 % greater than 1 cm pyrite cubes. Foliation averages approximately 45 degrees to core axis. 100.3 101.1 STRONG FRACTURE CONTROLLED CARBONATIZATION.	VA02207	100.3	101.1	.8	0	38	5	75	<1	45	1000
101.1	103.3	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Slightly silicified version of 95.4 to 100.3. Foliation at 47 degrees to core axis. 101.1 103.3 WEAK FRACTURE CONTROLLED CARBONATIZATION. 101.1 103.3 MODERATE FRACTURE CONTROLLED SERICITIZATION. 101.1 103.3 WEAK PERVASIVE SILICIFICATION.											
103.3	103.8	CHLORITE SCHIST Black to dark green magnetic chlorite schist with foliation at 57 degrees to core axis and weak local fracture controlled calcite veinlets.											
103.8	104.5	FAULT ZONE Fault gouge and strongly contorted and sheared chloritic felsic tuff as from 95.4 to 100.3. Fault slips at 56 degrees to core axis and not parallel to foliation.											
104.5	106.7	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Lower contact location uncertain due to lost core. Variably carbonatized, contorted and chloritic felsic tuff with trace chert lapilli and minor fracture controlled quartz and calcite veinlets. Foliation is variable. Lost core :. 105.5 107.6 : 0.5 m.	VA01274	104.5	106.7	2.2	n/a	134	n/a	35	n/a	n/a	944
106.7	109.5	INTERMEDIATE QUARTZ EYE TUFF Similiar to 90.2 to 95.4 with 1 to 2 % quartz eyes in contorted green chlorite, yellow sericite and white	VA01275	106.7	109.5	2.8	n/a	144	n/a	54	n/a	n/a	764

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		calcite.											
109.5	110.9	FELSIC QUARTZ EYE TUFF Light grey to weakly yellow sericitic tuff with 10 to 15 %, < 1 mm, quartz eyes. Foliation averages 50 degrees to core axis. There is trace disseminated fine-grained pyrite grains.	VA01276	109.5	110.9	1.4	n/a	116	n/a	<10	n/a	n/a	990
110.9	121.3	MAFIC TUFF Medium to dark green mafic tuff with approximately 10 % fracture controlled calcite and trace to 0.5 % associated pyrite. There are trace grey angular quartz clasts, < 5 mm. There is strong fracture controlled sericitization and carbonatization over the first 50 cm of the unit. Is weakly contorted. Alteration :. 110.9 121.3 STRONG FRACTURE CONTROLLED CARBONATIZATION. 110.9 111.4 STRONG FRACTURE CONTROLLED SERICITIZATION. Foliations :. 113.2 : 54 degrees to core axis. 114.8 : 53 degrees to core axis. 117.4 : 63 degrees to core axis. 119.1 : 60 degrees to core axis. 120.9 : 71 degrees to core axis. Lost core :. 120.0 120.4 : 0.2 m.	VA01277	112.0	121.3	9.3	n/a	137	n/a	64	n/a	n/a	774
121.3	125.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Fine-grained dark green mafic tuffs with minor cherty and epidote beds. Blocky core with minor fracture controlled hematite. Locally weakly contorted. Foliation and bedding average approximately 50 degrees to core axis. Lost core :. 121.0 121.9 : 0.3 m. 122.8 124.1 : 0.3 m.											
125.0	127.9	FELDSPAR PORPHYRITIC GABBRO Medium green massive mafic rock, probably gabbro dyke. There is 10 to 20 % fine-grained epidotized feldspars. Local quartz - chlorite veins occurs along fractures parallel to the core axis. There is moderate local fracture controlled hematite. Lost core :. 125.0 125.9 : 0.3 m.											
127.9	129.0	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-70 Page Number 7

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		Mafic tuff with 50 % beds of green cherty material and epidote beds. Bedding averages approximately 55 degrees to core axis. Weak fracture controlled hematite occurs.											
129.0	131.6	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Medium to dark green variably epidotized mafic tuff with on average 20 %, 1 to 2 mm, epidotized feldspars. There is weak local fracture controlled hematite.											
131.6	157.9	MAFIC TUFF Medium green to black dark chloritic mafic tuff with moderate fracture controlled carbonatization and 1 to 2 % white and pink 3 mm to 1.5 cm calcite veins, locally with quartz, that cross-cut and that are parallel to foliation. Trace quartz grains, up to 3 mm, occur locally. Is locally blocky, highly fractured core with minor fault gouge at 134.7, 146.9 and 151.3. There is trace chalcopyrite in a calcite veinlet at 152.5 and 1 to 2 % fracture controlled pyrite from 143.3 to 144.2. Trace to nil disseminated pyrite, including cubes up to 3.5 mm, occur locally. There may be up to 15 % very fine-grained mafic crystals in the matrix. Is locally weakly magnetic. Minor fracture controlled hematite occurs very locally. Foliations :. 134.9 : 64 degrees to core axis. 138.7 : 66 degrees to core axis. 141.4 : 66 degrees to core axis. 147.2 : 64 degrees to core axis. 150.1 : 54 degrees to core axis. 152.4 : 51 degrees to core axis. 153.8 to 157.9 : weakly to strongly contorted with trend at 55 to 65 degrees to core axis. Lost core :. 132.0 134.3 : 0.3 m. 134.3 136.1 : 0.2 m. 142.3 143.3 : 0.3 m. 151.0 152.3 : 0.3 m. 153.7 155.3 : 0.2 m. Alteration :. 131.6 159.9 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 147.8 149.1 WEAK FRACTURE CONTROLLED SILICIFICATION. 153.8 153.9 STRONG FRACTURE CONTROLLED SERICITIZATION , strong yellow sericite.	VA01278	132.0	157.0	25.0	n/a	138	n/a	78	n/a	n/a	591
			VA02208	143.3	144.2	.9	2	20	<5	93	<1	29	630
			VA02209	152.3	152.8	.5	1	126	5	93	<1	14	390
157.9	158.0	FAULT ZONE 9 Cm of fault gouge at 64 degrees to core axis.											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
158.0	159.9	MAFIC TUFF As from 131.6 to 157.9. Lost core :. 157.3 159.9 : 0.8 m.											
159.9	163.8	CHLORITIC BLACK LAPILLI MAFIC TUFF Mafic to andesitic locally weakly sericitic tuff with approximately 20 %, 3 to 8 mm, black lapilli. Is variably contorted and locally is similiar to 158.0 to 159.9. There is moderate fracture controlled white calcite veinlets, with minor pink calcite. Is blocky, highly fractured core from 162.8 to lower contact with 2 % jasper lapilli or veins. Foliation averages 55 degrees to core axis. Is very locally magnetic. Lost core :. 159.9 163.2 : 0.6 m. 163.2 165.8 : 0.4 m. Alteration :. 159.9 163.8 MODERATE FRACTURE CONTROLLED CARBONATIZATION.											
163.8	176.3	MAFIC TUFF Possibly weakly pervasively silicified mafic tuff, black to green, with moderate fracture controlled carbonatization and trace disseminated pyrite and quartz eyes. There are from 169.9 to 170.4 and from 173.7 to 174.0 minor beds of sericitic quartz eye tuff. May have minor argillaceous component. Lower contact at minor fault slip parallel to foliation. Foliations :. 165.7 : 60 degrees to core axis. 166.8 : 62 degrees to core axis. 172.2 : 57 degrees to core axis. Alteration :. 163.8 176.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION.	VA01279	164.0	176.0	12.0	n/a	123	n/a	43	n/a	n/a	961
176.3	180.4	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Contorted tuff with 15 %, 2 to 4 mm, feldspars and trace to 10 %, 1 mm, quartz eyes. There is minor carbonatized mafic from 177.4 to 178.0. Minor fault gouge occurs at 178.9 and 179.9 with 0.2 m of lost core at 178.9. There is trace fracture controlled pyrite parallel to foliation. There is trace to nil fracture controlled carbonatization. 176.3 180.4 WEAK PERVASIVE CHLORITIZATION.											
180.4	192.6	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS Contorted mafic tuff to sediments with minor light green chert beds. Minor epidote and jasper grains occur	VA01280	181.0	192.0	11.0	n/a	11	n/a	75	n/a	n/a	1050

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		locally. There are numerous kink bands. Similiar to CHLORITIC BLACK LAPILLI MAFIC TUFF locally. There is weak fracture controlled hematite from 187.8 to 192.0. There is weak fracture controlled carbonatization. Minor quartz and epidote veins occur locally. At 184.0 there is minor fault gouge at blocky, highly fractured core. Foliation is variable and averages approximately 60 degrees to core axis. Trace to nil disseminated pyrite occurs. Alteration :. 180.4 192.6 WEAK FRACTURE CONTROLLED CARBONATIZATION. Lost core :. 182.6 183.8 : 0.5 m.											
192.6	199.4	FAULT ZONE											
		192.6 194.7 Chloritic felsic with approximately 20 %, 2 to 3 mm, feldspars, minor chert lapilli and trace disseminated pyrite. Possibly a fault breccia.	VA02210	192.6	193.6	1.0	n/a	20	5	49	<1	8	880
			VA02211	193.6	194.7	1.1	n/a	14	<5	47	<1	12	700
			VA02212	194.9	196.0	1.1	n/a	8	<5	44	<1	242	940
			VA02213	196.0	196.4	.4	n/a	20	14	100	<1	9	870
		194.7 194.9 Grey fault gouge.	VA02214	196.4	197.4	1.0	n/a	10	6	94	<1	24	740
		194.9 195.7 Chloritic felsic as before.	VA02215	197.4	198.4	1.0	n/a	18	6	93	<1	60	700
		195.7 195.8 Contorted mafic.	VA02216	198.4	199.4	1.0	n/a	22	6	87	<1	25	730
		195.8 195.9 Chloritic felsic.											
		195.9 196.0 Contorted mafic.											
		196.0 196.4 Dark grey clay with minor mafic tuff.											
		196.4 199.0 Light green to grey weakly carbonatized sheared tuff with local fault breccia with calcite and quartz clasts.											
		199.0 199.3 Contorted cherty mafic.											
		199.3 199.4 Black fault gouge to clay.											
		Fine-grained pyrite occurs in the fault gouge and from 196.4 to 199.0 as (?) %.											
		Foliations and orientations :. 194.2 : 43 degrees to core axis. 196.8 : 30 degrees to core axis, locally 0 to 40.											
199.4	210.1	FELDSPAR PORPHYRITIC MAFIC FLOW											
		Mafic flow or tuff, massive light green, with 20 to 30 %, 1 to 2 mm, epidotized feldspar grains and 3 to 5 % epidote - calcite clots or altered clasts. There is approximately 1 % fracture controlled quartz - calcite - chlorite veinlets. From 199.4 to 205.0 there is 1 to 3 %, average approximately 2 %, fracture controlled pyrite.	VA02217	199.4	201.0	1.6	2	76	7	275	<1	<5	930
			VA01281	200.0	210.0	10.0	n/a	26	n/a	71	n/a	n/a	975
			VA02218	201.0	202.5	1.5	3	124	8	99	<1	41	1100
			VA02219	202.5	204.0	1.5	3	64	14	367	<1	31	1100
			VA02220	204.0	205.0	1.0	1	36	8	107	<1	<5	2000
			VA02221	205.0	207.0	2.0	1	24	<5	68	<1	13	1100
210.1	213.0	FELSIC QUARTZ EYE TUFF											
		Very contorted and moderately carbonatized sericitic felsic with approximately 10 % fine-grained sulphides. Minor fault gouge occurs.	VA02222	210.1	211.0	.9	10	52	18	46	2	67	1500
			VA02223	211.0	212.0	1.0	10	76	6	115	1	9	840
			VA02224	212.0	213.0	1.0	10	140	14	173	1	17	900

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-70

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
213.0	218.2	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Strongly altered mafic tuff with approximately 25 %, 1 mm, epidotized feldspar grains and from 213.4 to 214.0 there are 50 to 70 %, up to 2 cm, epidotized lapilli. Is massive with trace fracture controlled and disseminated pyrite. Alteration :. 213.0 218.2 STRONG SPOTTY EPIDOTIZATION. 213.0 218.2 MODERATE FRACTURE CONTROLLED CARBONATIZATION , hairline fractures with calcite and minor up to 2 mm calcite veinlets. 217.5 218.2 STRONG FRACTURE CONTROLLED SILICIFICATION , quartz flooded with 50 % strongly siliceous adjacent to fractures. 213.0 218.2 WEAK SPOTTY CHLORITIZATION , minor fracture controlled chlorite with trace associated pyrite.	VA01282	213.0	218.2	5.2	n/a	143	n/a	1070	n/a	n/a	191
218.2	218.5	FAULT ZONE Chloritic fault gouge with strong sulphides at upper contact and lower contact, average approximately 15 % pyrite. Orientation averages 60 degrees to core axis.	VA02225	218.2	218.5	.3	15	48	11	327	<1	6	1900
218.5	230.3	MAFIC TUFF Chlorite - biotite - calcite - (sericite) schist. Very strongly carbonatized tuff, probably mafic. Contorted with foliation from 0 to 45 degrees to core axis locally. From 224.0 to 225.0 is biotite rich with 3 to 5 % disseminated pyrite. Calcite clasts in fault breccia with moderate very fine-grained sulphides in matrix from 228.2 to 230.3. 218.5 230.3 STRONG FRACTURE CONTROLLED CARBONATIZATION.	VA01283	219.0	230.0	11.0	n/a	115	n/a	66	n/a	n/a	482
			VA02226	224.0	225.0	1.0	4	90	<5	104	1	233	660
			VA02227	228.2	229.2	1.0	7	72	5	88	<1	<5	610
			VA02228	229.2	230.3	1.1	7	58	5	66	<1	<5	700
230.3	236.1	FELDSPAR PORPHYRITIC MAFIC ASH TUFF Mafic tuff with on average 3 to 7 %, 1 to 5 mm, epidotized feldspars in weakly to moderately brecciated matrix with weak to moderate fracture controlled silicification and 3 % quartz - chlorite veins. There is trace fracture controlled pyrite. Weak carbonatization is fracture controlled and associated with epidotization. Massive with no foliation. Alteration :. 230.3 236.1 MODERATE FRACTURE CONTROLLED SILICIFICATION. 230.3 236.1 MODERATE SPOTTY EPIDOTIZATION.	VA01284	230.3	236.1	5.8	n/a	23	n/a	65	n/a	n/a	1480
236.1	238.0	FAULT BRECCIA Breccia and contorted chloritic felsic to andesitic tuff	VA02229	236.1	237.0	.9	20	41	7	56	<1	<5	820

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		with 15 %, up to 16 cm zones of sulphides mud. Slip trend at approximately 30 degrees to core axis.	VA02230	237.0	238.0	1.0	10	47	<5	64	<1	<5	810
238.0	247.0	WEAKLY CHLORITIC FELSIC TUFF Fine-grained siliceous green tuff, probably felsic with all crystals < 1 mm, feldspars and quartz occur. There are trace lapilli, which are mafic with approximately 25 % feldspars, lapilli up to 2 cm. Minor quartz, calcite and epidote veinlets occur. There is trace fracture controlled pyrite. Foliation averages approximately 40 degrees to core axis.	VA01285	238.0	247.0	9.0	n/a	25	n/a	62	n/a	n/a	799
247.0	257.2	FELDSPAR PORPHYRITIC MAFIC LAPILLI TUFF Mafic tuff with gradual transition to lower felsic tuff. Is epidote spotted with on average 15 to 20 % epidote as altered feldspars and lapilli. There are approximately 5 % mafic lapilli. There is trace to 2 % quartz - chlorite fracture controlled veinlets and weak to moderate fracture controlled carbonatization associated with the epidote spots. There is trace to nil fracture controlled pyrite. Is massive with weak foliation at approximately 45 degrees to core axis. Alteration :. 247.0 257.2 STRONG SPOTTY EPIDOTIZATION.	VA01286	247.0	257.0	10.0	n/a	<10	n/a	60	n/a	n/a	805
257.2	267.0	FELSIC QUARTZ FELDSPAR CRYSTAL LAPILLI TUFF Light to medium grey felsic or very strongly silicified mafic tuff with 25 %, 0.5 to 2 cm epidote lapilli from 257.2 to 262.8. From 261.0 to 261.5 there are pink zoisite lapilli. There is on average 7 %, 1 to 2 mm, quartz eyes and 10 % epidotized feldspar grains. There is trace to 1 % fracture controlled pyrite. From 258.8 to 259.6 is fine-grained and sheared with 2 to 3 % fracture controlled pyrite, orientation is at 43 degrees to core axis. Alteration :. 257.2 267.0 STRONG SPOTTY EPIDOTIZATION.	VA01287	257.5	267.0	9.5	n/a	25	n/a	339	n/a	n/a	1070
			VA02231	258.8	259.6	.8	3	67	24	320	<1	<5	1600
267.0	272.0	INTERMEDIATE QUARTZ EYE TUFF Dark grey to medium green intermediate to felsic tuff, probably andesitic to dacitic, with approximately 15 %, 1 mm, quartz grains and 5 % epidote - calcite spots or lapilli, up to 3 cm. Possibly silicified. Minor fracture controlled quartz veinlets occur. Massive with no foliation. Mineral :. 267.0 267.5 3 to 5 % fracture controlled pyrite and 1 to 2 % fracture controlled pyrrhotite as (?)	VA02232	267.0	267.5	.5	6	178	13	64	<1	<5	770
			VA01288	267.0	272.0	5.0	n/a	114	n/a	166	n/a	n/a	1130
			VA02233	267.5	268.5	1.0	2	102	6	54	<1	<5	970
			VA02234	268.5	269.5	1.0	2	58	6	72	<1	<5	960
			VA02235	269.5	270.5	1.0	2	33	<5	132	<1	<5	930
			VA02236	270.5	271.5	1.0	2	54	<5	172	<1	<5	1400
			VA02237	271.5	272.0	.5	7	311	5	76	<1	<5	1400

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		stringers.											
		267.5 271.5 1 to 2 % disseminated and fracture controlled fine-grained pyrite.											
		271.5 272.0 5 % fracture controlled pyrite and 1 to 2 % fracture controlled pyrrhotite, some associated with fracture controlled quartz veins.											
272.0	275.7	CHLORITIC FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF											
		Variably chloritic felsic tuff with on average 10 to 12 %, 1 to 4 mm, feldspars and 5 %, 2 to 4 mm, quartz eyes. There is weak to moderate fracture controlled silicification and chloritization.	VA02238	272.0	273.3	1.3	7	94	9	12	<1	334	2100
			VA02239	273.3	274.0	.7	3	46	21	1200	<1	7	710
			VA02240	274.0	275.0	1.0	5	177	13	4000	<1	<5	840
			VA02241	275.0	275.7	.7	5	124	8	440	<1	<5	1000
		272.0 275.7 WEAK SPOTTY CHLORITIZATION.											
		272.0 273.3 Medium grey sericitic with 7 to 10 % quartz eyes and 3 to 5 % disseminated pyrite and 1 to 2 % fracture controlled pyrrhotite.											
		273.3 275.7 Approximately 3 to 5 % sulphides as 1 to 3 % pyrrhotite, 1 % pyrite, 1 to 2 % sphalerite and trace chalcopyrite in fractures in epidotized tuff with 15 to 20 % epidotized feldspars and 3 to 5 % quartz eyes. Sphalerite is red to brown.											
275.7	276.3	MAFIC TUFF											
		Sheared mafic tuff and quartz veins with 2 to 3 % pyrrhotite.	VA02242	275.7	276.3	.6	3	294	7	220	<1	<5	1300
276.3	279.8	CHLORITIC FELSIC QUARTZ EYE TUFF											
		Weakly chloritic felsic tuff with approximately 3 %, 1 to 3 mm, quartz eyes and 1 to 2 % fracture controlled pyrite and trace fracture controlled sphalerite. There is weak local fracture controlled carbonatization.	VA02243	276.3	277.5	1.2	3	85	56	150	<1	<5	2100
			VA02244	277.5	278.7	1.2	3	164	75	160	<1	11	2200
			VA02245	278.7	279.8	1.1	3	195	13	44	<1	<5	1900
		276.3 279.8 WEAK PERVASIVE CHLORITIZATION.											
		Foliations :.											
		277.0 : 48 degrees to core axis.											
		278.5 : 28 degrees to core axis.											
		279.3 : 28 degrees to core axis.											
279.8	292.5	MAFIC LAPILLI TUFF											
		Lower contact uncertain due to lost core.	VA02246	279.8	281.3	1.5	0	44	<5	210	<1	<5	1200
		Medium green crystal lapilli tuff with on average 20 to 35 %, 0.5 to 3 cm, epidotized lapilli, 3 to 5 %, 1 to 2 mm, mafic crystals and 7 to 12 %, 1 to 2 mm, strongly epidotized feldspars. Core is locally very blocky, highly fractured core from 284.5 to 292.5. There is weak local fracture controlled calcite associated with the	VA01289	280.0	292.0	12.0	n/a	19	n/a	101	n/a	n/a	1150

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		epidotization. There is trace pyrite clots locally in the epidotization lapilli with strongly pyrite near lower contact. Is massive with no foliation. Alteration :. 279.8 292.5 STRONG SPOTTY EPIDOTIZATION.											
292.5	306.1	WEAKLY CHLORITIC FELSIC TUFF Weakly chloritic felsic tuff with on average 20 %, 1 to 2 mm, epidotized feldspars and 5 to 7 %, 1 to 2 mm, quartz eyes. There is trace to moderate fracture controlled carbonatization and epidotization. Calcite occurs in the pressure shadows around crystals. Trace is trace disseminated pyrite. Is blocky, highly fractured core from 300.5 to 306.1. 292.5 306.1 WEAK PERVASIVE CHLORITIZATION. Foliations :. 293.4 : 26 degrees to core axis. 295.6 : 26 degrees to core axis. 298.3 : 24 degrees to core axis. 302.0 : 23 degrees to core axis. Lost core :. 291.2 293.2 : 0.4 m. 294.7 297.8 : 0.2 m. 301.8 303.6 : 1.0 m. 303.6 304.8 : 0.3 m. 304.8 306.0 : 0.2 m.	VA01290	293.0	306.1	13.1	n/a	18	n/a	230	n/a	n/a	986
306.1	348.7	INTERMEDIATE QUARTZ EYE LAPILLI TUFF Andesitic to mafic crystal lapilli tuff. Medium green to brown in colour. Brown due to local biotite alteration. Lapilli vary from trace to 50 %, average 15 to 20 %. Lapilli are 0.5 up to 4 cm in size and consist of epidote, calcite and chlorite and are commonly zoned. Matrix hosts up to 10 %, 1 mm, quartz eyes and trace to 3 %, 1 mm, epidotized feldspars. There are numerous fracture controlled epidote and quartz veinlets, which comprise 1 to 1.5 % of the unit. There is 3 % fracture controlled pyrite and pyrrhotite from 310.0 to 310.5 and trace pyrite elsewhere in epidotized lapilli cores, fracture controlled and disseminated. Alteration :. 306.1 348.7 MODERATE SPOTTY EPIDOTIZATION. 316.0 330.0 MODERATE PERVASIVE BIOTIZATION. 306.1 316.0 WEAK PERVASIVE BIOTIZATION. 330.0 348.7 WEAK PERVASIVE BIOTIZATION. Foliations :. 308.0 : 45 degrees to core axis. 311.4 : 48 degrees to core axis. 316.8 : 35 degrees to core axis. 311.2 : 32 degrees to core axis.	VA01291 VA02247 VA01292	307.0 310.0 327.0	327.0 310.5 348.0	20.0 .5 21.0	n/a 3 n/a	39 72 18	n/a <5 n/a	71 88 69	n/a <1 n/a	n/a <5 n/a	1530 1500 1230

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		322.1 : 38 degrees to core axis. 327.2 : 32 degrees to core axis. From 330 to end of unit is blocky with negligible foliation											
348.7	377.3	FELSIC TUFF Massive fine-grained bleached light grey to medium green to brown rock. Biotite is variable fracture controlled to pervasive weak to strong. Biotite increases downhole, possible reaction to gabbro. Matrix hosts approximately 10 % quartz and 10 to 15 % feldspar grains, all < 1 mm. There are numerous fractures, which host epidote, calcite, and pyrite. Pyrite is weakly brown and fine-grained, which indicates possible occurence of pyrrhotite and / or sphalerite. Fractures cross-cut foliation and have no dominant orientation. Trace mafic and epidotized lapilli occur, they are up to 1.5 cm and are very rounded. From 367.3 to 367.5 there is brecciation. There is minor fault gouge at 376.3. Quartz - chlorite veins occur at 363.0 to 363.3 and 363.5 to 363.6, which have 1 % associated pyrite clots. From 371.3 to 376.4 there is strong biotite, possible more mafic content. Is siliceous and blocky, highly fractured core from 376.4 to the lower contact. Fracture controlled sulphides average 1.5 % and locally are variable from 1 to 2 % over short intervals. There may be weak to moderate fracture controlled silicification. Lost core :. 354.0 356.0 : 0.7 m, ground core, chit was probably mislocated. 369.1 370.6 : 0.5 m. 370.6 373.7 : 0.5 m. 375.2 376.4 : 0.3 m. 376.4 377.3 : 0.2 m, blocky, highly fractured core. Foliations :. Usually massive with jagged fractures, good schistosity locally :. 348.8 : 45 degrees to core axis. 354.2 : 38 degrees to core axis. 356.4 : 51 degrees to core axis. 360.8 : 34 degrees to core axis. 371.4 : 46 degrees to core axis. 374.8 : 37 degrees to core axis. Alteration :. 348.7 377.3 Few. 348.7 377.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION. 371.3 376.4 MODERATE PERVASIVE BIOTIZATION.	VA02248	348.7	350.0	1.3	2	80	6	60	<1	<5	1300
			VA01293	349.0	371.3	22.3	n/a	52	n/a	49	n/a	n/a	1490
			VA02249	350.0	352.0	2.0	2	70	<5	56	<1	<5	1200
			VA02250	352.0	354.0	2.0	2	71	<5	66	<1	<5	1300
			VA08751	354.0	356.0	2.0	2	58	<5	50	<1	<5	1400
			VA08752	356.0	358.0	2.0	2	80	<5	50	<1	<5	1400
			VA08753	358.0	360.0	2.0	2	83	<5	40	<1	<5	1800
			VA08754	360.0	362.0	2.0	2	26	<5	48	<1	<5	1900
			VA08755	362.0	364.0	2.0	2	82	<5	52	<1	<5	1400
			VA08756	364.0	366.0	2.0	2	64	<5	58	<1	<5	1300
			VA08757	366.0	368.0	2.0	2	87	10	56	<1	<5	1400
			VA08758	368.0	370.0	2.0	2	125	29	60	<1	17	1500
			VA08759	370.0	371.3	1.3	2	49	40	60	<1	<5	1200
			VA01294	371.3	377.3	6.0	n/a	21	n/a	59	n/a	n/a	1020
			VA08760	371.3	373.3	2.0	2	40	<5	72	<1	<5	1400
			VA08761	373.3	375.3	2.0	2	19	<5	78	<1	<5	1200
			VA08762	375.3	377.3	2.0	2	61	<5	76	<1	<5	1200
377.3	395.7	FELDSPAR PORPHYRITIC GABBRO 377.3 379.5 Fine-grained sheared gabbro with strong	VA01295	377.3	395.7	18.4	n/a	171	n/a	82	n/a	n/a	109

From (m)	To (m)	DESCRIPTION
		foliation at 50 degrees to core axis. There are approximately 5 % quartz - chlorite and epidote veins and veinlets. There is moderate fracture controlled carbonatization and trace pyrite cubes. Trace to 5 %, 1 to 3 mm, epidotized feldspars occur.
379.5	394.7	Fine-grained with on average 5 %, 2 to 5 mm, epidotized feldspar clusters. There is very minor local strong pervasive epidotization. There are approximately 3 % calcite and quartz veinlets with minor chlorite. There is trace pyrite and no chalcopyrite. At 388.7 there are minor fault slips at 57 degrees to core axis. Trace brown sphene occurs in the fine-grained medium green groundmass. There is strong fracture controlled hematite associated with calcite veinlets from 386.6 to 386.9.
394.7	395.7	Fine-grained and sheared at 50 degrees to core axis with minor calcite veinlets.
395.7	403.1	FELSIC QUARTZ-FELDSPAR CRYSTAL TUFF Light grey to medium brownish grey siliceous, but very schistose felsic tuff with 3 to 5 %, 2 to 9 mm, quartz eyes and up to 15 %, < 1 mm, feldspars. There is moderate biotite from the upper contact to 396.5, probably alteration due to gabbro emplacement. Weak local biotite also occurs. There is weak to moderate fracture controlled carbonatization as micro-fractures that react with HCl and up to 1 cm calcite veins. Carbonatization cross-cuts foliation and is parallel to foliation. There are minor sulphides associated with fracture controlled carbonatization. There is 3 to 5 mm of pyrite at 397.45 with trace chalcopyrite and (?) sphalerite. At 402.0 there is trace red to brown sphalerite as a 1 to 3 mm zone in a fracture controlled calcite veinlet. At 402.3 there is a 1.5 to 2 cm quartz - calcite - chlorite veinlet with two 1 to 3 mm sphalerite and one 1 to 2 mm pyrite zone. There is nil disseminated sulphides. Foliation is weakly contorted. At 402.5 there is 1 to 2 mm of fault gouge parallel to foliation and the tuff below is similiar to a cherty tuffite with bedding or possibly a strong cleavage. Foliations :. 397.1 : 51 degrees to core axis. 398.7 : 39 degrees to core axis. 399.6 : 42 degrees to core axis. 401.0 : 42 degrees to core axis. 402.2 : 26 degrees to core axis. 402.8 : 36 degrees to core axis. Bedding :.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01296	395.7	403.1	7.4	n/a	26	n/a	50	n/a	n/a	2400
VA08763	396.2	397.2	1.0	0	3	<5	18	<1	<5	2000
VA08764	397.2	397.7	.5	0	8	<5	28	<1	5	2100
VA08765	397.7	398.6	.9	0	5	<5	34	<1	5	2300
VA08766	400.4	401.4	1.0	0	3	<5	36	<1	<5	2600
VA08767	401.4	402.4	1.0	0	56	<5	3000	<1	37	2700
VA08768	402.4	402.9	.5	0	7	<5	94	<1	<5	2500

PROPERTY: Chemainus J.V.

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-70

From (m)	To (m)	----------DESCRIPTION----------	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		402.9 : 29 degrees to core axis.											
		End of hole: 1322.5 feet (403.1 m) on Saturday June 25, 1988 at 8:30 a.m.											
		Total lost core : 19.4 m; % Recovery = 95.2 %.											

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA00844	33.50	34.00	51.60	17.30	3.10	4.12	4.81	3.69	8.83	0.71	0.39	0.19	3.54	98.28	896.	50.	8.
VA00845	68.10	62.20	53.00	17.30	6.82	2.00	2.93	2.90	8.28	0.51	0.51	0.25	5.31	99.81	1010.	33.	10.
VA00846	71.10	71.50	55.90	17.30	5.56	2.15	4.73	1.75	7.64	0.53	0.51	0.19	3.70	99.96	895.	27.	10.
VA00847	79.20	79.60	54.60	15.30	6.80	1.86	2.21	2.74	7.94	0.80	0.32	0.18	7.39	100.14	793.	34.	9.
VA00848	83.50	84.30	72.00	12.50	4.06	0.62	0.77	3.33	1.22	0.18	0.04	0.09	4.70	99.51	1250.	45.	5.
VA00849	91.00	91.50	45.00	14.70	11.20	3.24	0.90	2.95	8.40	0.73	0.19	0.20	12.90	100.41	532.	34.	12.
VA00850	98.70	99.00	71.90	13.10	2.90	1.01	1.74	2.71	1.86	0.21	0.05	0.06	4.00	99.54	1080.	45.	5.
VA00851	115.00	116.00	49.50	17.50	5.72	3.64	2.54	2.71	10.20	0.92	0.44	0.24	6.31	99.72	688.	43.	8.
VA00852	127.00	127.50	46.60	14.10	11.00	6.58	1.70	0.18	13.60	1.76	0.16	0.21	3.70	99.59	138.	35.	13.
VA00853	131.20	131.60	60.20	17.10	3.62	1.75	4.64	2.81	6.50	0.29	0.26	0.18	2.08	99.43	1400.	36.	8.
VA00854	137.50	138.00	47.10	16.40	7.43	3.20	2.83	2.27	11.10	0.90	0.42	0.23	8.00	99.88	638.	35.	10.
VA00855	148.30	148.50	46.70	16.60	8.00	2.85	3.09	2.03	10.60	0.88	0.43	0.25	8.23	99.66	567.	31.	11.
VA00856	155.60	156.10	47.90	17.80	6.69	2.91	1.99	2.95	10.20	0.70	0.55	0.24	7.93	99.86	687.	40.	9.
VA00857	162.00	163.00	53.80	17.10	4.97	2.59	2.35	3.00	8.49	0.68	0.42	0.18	6.31	99.89	751.	43.	7.
VA00858	179.20	179.60	72.70	13.30	1.75	1.93	2.63	1.29	2.08	0.20	0.05	0.05	3.23	99.21	777.	42.	4.
VA00859	207.00	208.00	57.00	15.50	7.98	1.85	3.50	1.63	6.55	0.42	0.32	0.19	4.08	99.02	927.	23.	11.
VA00860	215.50	216.00	52.90	15.50	8.23	4.29	3.01	0.22	8.67	0.77	0.16	0.36	5.08	99.19	139.	29.	11.
VA00861	221.00	221.40	30.70	10.40	24.30	4.77	1.19	0.75	6.53	0.49	0.14	0.26	21.20	100.73	129.	18.	25.
VA00862	232.00	232.50	55.10	15.70	7.34	2.44	2.76	2.41	7.66	0.48	0.36	0.21	4.93	99.39	960.	32.	10.
VA00863	243.10	243.60	54.10	16.70	6.58	2.86	3.21	2.44	7.46	0.49	0.38	0.20	4.54	98.96	842.	35.	10.
VA00864	255.00	256.00	56.70	16.70	6.33	1.80	3.17	2.63	6.96	0.42	0.34	0.20	3.39	98.64	1110.	32.	10.
VA00865	261.00	262.00	62.00	13.70	6.82	2.91	2.31	1.07	5.60	0.38	0.08	0.27	3.39	98.53	644.	30.	9.
VA00866	283.00	284.00	58.00	16.80	6.59	1.44	3.54	2.90	6.58	0.42	0.33	0.20	2.23	99.03	1040.	30.	10.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA00867	294.50	295.00	60.10	13.30	9.63	1.98	3.16	0.97	4.40	0.38	0.08	0.30	5.23	99.53	550.	19.	13.
VA00868	311.50	312.00	56.10	16.80	7.17	1.82	3.19	2.30	6.66	0.44	0.34	0.23	3.47	98.52	1130.	28.	10.
VA00869	319.60	320.00	55.10	16.80	6.75	2.07	2.74	2.69	7.71	0.46	0.35	0.23	3.62	98.52	1500.	33.	9.
VA00870	329.00	329.50	53.80	16.70	7.21	2.39	3.17	2.67	7.29	0.45	0.35	0.24	4.54	98.81	1320.	33.	10.
VA00871	337.00	337.50	55.80	16.90	6.54	2.49	3.17	2.76	7.21	0.45	0.35	0.18	2.70	98.55	1420.	35.	10.
VA00872	351.50	352.00	56.50	17.20	6.12	2.17	2.79	2.76	7.28	0.46	0.37	0.17	2.31	98.13	1410.	36.	9.
VA00873	367.20	367.70	54.40	16.30	7.51	2.48	3.29	1.91	7.12	0.42	0.33	0.17	4.23	98.16	1130.	29.	11.
VA00874	396.00	396.20	71.30	12.80	1.61	1.68	0.20	4.06	1.58	0.22	0.06	0.04	4.39	97.94	2160.	76.	2.
VA00875	398.60	398.90	74.80	12.10	1.48	1.21	0.13	3.84	1.30	0.23	0.06	0.03	2.70	97.88	2390.	76.	2.
VA00876	402.90	403.10	73.50	14.00	0.49	1.13	0.08	4.56	1.66	0.29	0.08	0.03	2.31	98.13	2960.	91.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA01265	4.10	12.40	46.40	17.80	6.81	5.87	1.33	2.26	11.60	0.91			6.23	99.21	600.	50.	8.
VA01266	13.40	16.90	43.50	18.70	6.84	6.55	0.87	2.83	11.90	0.94			6.70	98.83	628.	55.	8.
VA01267	17.00	29.00	46.40	16.30	8.17	5.30	2.47	2.17	10.20	0.80			7.31	99.12	900.	41.	11.
VA01268	31.00	46.00	52.20	17.00	4.48	4.08	3.73	3.86	8.73	0.76			4.77	99.61	856.	49.	8.
VA01269	48.00	65.00	52.70	18.00	6.35	2.58	2.67	2.82	8.54	0.60			4.85	99.11	986.	37.	9.
VA01270	65.00	82.00	53.70	17.50	5.67	2.45	3.56	2.30	8.66	0.60			4.62	99.06	991.	34.	9.
VA01271	82.70	90.20	68.10	13.70	3.47	1.15	0.92	3.23	3.86	0.34			4.16	98.93	1150.	50.	4.
VA01272	90.20	95.40	52.50	14.40	9.33	2.30	0.89	2.82	6.82	0.55			9.62	99.23	655.	33.	10.
VA01273	95.40	100.30	64.20	13.40	5.46	1.82	1.33	2.74	3.71	0.31			6.77	99.74	915.	40.	7.
VA01274	104.50	106.70	59.00	15.10	6.72	1.78	1.29	2.82	5.36	0.55			7.23	99.85	944.	36.	8.
VA01275	106.70	109.50	46.40	15.20	11.00	2.98	1.23	2.38	8.76	0.71			11.20	99.86	764.	30.	12.
VA01276	109.50	110.90	69.70	12.90	5.20	0.49	1.11	3.14	1.46	0.18			5.31	99.49	990.	37.	6.
VA01277	112.00	121.30	49.20	16.30	7.73	3.11	2.53	2.75	8.60	0.68			8.39	99.29	774.	36.	10.
VA01278	132.00	157.00	48.00	17.20	6.95	3.05	3.02	2.33	10.60	0.87			7.39	99.41	591.	35.	10.
VA01279	164.00	176.00	56.80	17.10	4.93	1.56	3.27	3.53	6.57	0.42			5.39	99.57	961.	38.	8.
VA01280	181.00	192.00	60.00	16.40	4.38	1.18	4.75	2.28	5.75	0.27			3.77	98.78	1050.	27.	9.
VA01281	200.00	210.00	56.40	17.10	6.72	2.12	3.24	1.88	7.27	0.45			3.16	98.34	975.	29.	10.
VA01282	213.00	218.20	53.00	14.50	7.62	3.93	3.07	0.41	9.57	0.62			5.08	97.80	191.	29.	11.
VA01283	219.00	230.00	42.00	13.80	15.00	3.46	1.70	1.88	6.88	0.55			13.20	98.47	482.	24.	17.
VA01284	230.30	236.10	54.70	16.40	6.80	2.22	3.36	3.02	7.02	0.44			4.23	98.19	1480.	34.	10.
VA01285	238.00	247.00	54.00	16.50	6.98	2.77	3.10	2.39	7.55	0.47			4.85	98.61	799.	34.	10.
VA01286	247.00	257.00	54.20	16.40	8.31	2.44	2.89	2.00	7.95	0.46			4.39	99.04	805.	28.	11.
VA01287	257.50	267.00	60.20	14.50	7.62	2.38	1.34	2.40	5.59	0.38			4.47	98.88	1070.	35.	9.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%MNO	%LOI	SUM	BA	AI	NACA
VA01288	267.00	272.00	54.10	18.10	5.02	2.20	2.38	3.50	8.26	0.47			3.31	97.34	1130.	44.	7.
VA01289	280.00	292.00	57.90	16.80	6.33	1.69	3.75	2.77	6.84	0.42			2.16	98.66	1150.	31.	10.
VA01290	293.00	306.10	55.00	14.90	9.39	2.93	2.85	1.65	5.93	0.42			5.85	98.92	986.	27.	12.
VA01291	307.00	327.00	57.00	16.60	6.06	2.01	3.16	2.71	6.58	0.43			3.77	98.32	1530.	34.	9.
VA01292	327.00	348.00	55.10	16.80	7.28	2.52	2.99	2.68	7.55	0.46			3.16	98.54	1230.	34.	10.
VA01293	349.00	371.30	57.10	16.80	6.44	2.34	2.96	2.45	6.46	0.44			3.16	98.15	1490.	34.	9.
VA01294	371.30	377.30	56.40	16.50	6.10	2.64	3.82	2.03	6.98	0.45			3.23	98.15	1020.	32.	10.
VA01295	377.30	395.70	46.90	14.20	11.00	5.67	2.07	0.26	12.30	1.82			4.77	98.99	109.	31.	13.
VA01296	395.70	403.10	73.70	12.60	1.46	1.28	<0.01	4.11	1.82	0.24			2.93	98.14	2400.	79.	1.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02194	12.40	13.40	730.0	32.0	63.0	<0.5	<5.0	16.0	10.0	6.0	<5.0	<1.0	3.0	370.0	34.	3.	4.
VA02195	30.80	33.00	860.0	42.0	122.0	<0.5	7.0	18.0	20.0	6.0	18.0	1.0	6.0	700.0	26.	2.	5.
VA02196	33.00	35.40	910.0	55.0	218.0	<0.5	<5.0	16.0	18.0	9.0	16.0	3.0	5.0	900.0	20.	2.	5.
VA02197	35.40	37.00	1200.0	50.0	179.0	<0.5	<5.0	16.0	18.0	9.0	18.0	2.0	3.0	1000.0	22.	2.	5.
VA02198	37.00	39.30	1100.0	52.0	130.0	<0.5	<5.0	18.0	16.0	29.0	14.0	2.0	5.0	1000.0	29.	2.	5.
VA02199	39.30	40.80	920.0	40.0	80.0	<0.5	<5.0	18.0	12.0	6.0	16.0	<1.0	3.0	1100.0	33.	2.	6.
VA02200	40.80	42.50	870.0	40.0	75.0	<0.5	<5.0	16.0	10.0	6.0	7.0	<1.0	4.0	900.0	35.	2.	5.
VA02201	42.50	44.00	710.0	36.0	99.0	<0.5	<5.0	20.0	14.0	5.0	5.0	<1.0	4.0	1000.0	27.	2.	6.
VA02202	44.00	45.00	980.0	40.0	69.0	<0.5	<5.0	20.0	10.0	7.0	10.0	<1.0	3.0	1020.0	37.	2.	5.
VA02203	45.00	46.60	1700.0	36.0	81.0	<0.5	<5.0	18.0	12.0	<5.0	86.0	<1.0	4.0	1000.0	31.	2.	5.
VA02204	84.00	85.00	1100.0	4.0	34.0	<0.5	<5.0	2.0	2.0	6.0	<5.0	<1.0	2.0	420.0	11.	1.	1.
VA02205	85.00	86.00	1100.0	38.0	67.0	<0.5	33.0	6.0	16.0	14.0	8.0	<1.0	5.0	580.0	36.	3.	2.
VA02206	86.00	87.00	1000.0	20.0	80.0	<0.5	31.0	10.0	12.0	<5.0	12.0	<1.0	3.0	1060.0	20.	0.	4.
VA02207	100.30	101.10	1000.0	38.0	75.0	<0.5	45.0	24.0	17.0	5.0	<5.0	<1.0	4.0	1100.0	34.	0.	4.
VA02208	143.30	144.20	630.0	20.0	93.0	<0.5	29.0	24.0	6.0	<5.0	<5.0	<1.0	3.0	1200.0	18.	2.	6.
VA02209	152.30	152.80	390.0	126.0	93.0	<0.5	14.0	18.0	4.0	5.0	<5.0	<1.0	3.0	2000.0	58.	1.	6.
VA02210	192.60	193.60	880.0	20.0	49.0	<0.5	8.0	6.0	6.0	5.0	<5.0	<1.0	2.0	480.0	29.	1.	2.
VA02211	193.60	194.70	700.0	14.0	47.0	<0.5	12.0	6.0	6.0	<5.0	<5.0	<1.0	2.0	320.0	23.	1.	2.
VA02212	194.90	196.00	940.0	8.0	44.0	<0.5	242.0	6.0	4.0	<5.0	<5.0	<1.0	1.0	520.0	15.	1.	3.
VA02213	196.00	196.40	870.0	20.0	100.0	<0.5	9.0	20.0	8.0	14.0	17.0	<1.0	3.0	1230.0	17.	1.	6.
VA02214	196.40	197.40	740.0	10.0	94.0	<0.5	24.0	16.0	4.0	6.0	10.0	<1.0	3.0	1240.0	10.	1.	5.
VA02215	197.40	198.40	700.0	18.0	93.0	<0.5	60.0	14.0	17.0	6.0	34.0	<1.0	4.0	900.0	16.	1.	4.
VA02216	198.40	199.40	730.0	22.0	87.0	<0.5	25.0	14.0	10.0	6.0	76.0	<1.0	3.0	1000.0	20.	1.	4.

Hole No. CH88-70

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02217	199.40	201.00	930.0	76.0	275.0	<0.5	<5.0	12.0	4.0	7.0	10.0	1.0	3.0	1000.0	22.	2.	3.
VA02218	201.00	202.50	1100.0	124.0	99.0	<0.5	41.0	12.0	4.0	8.0	14.0	<1.0	2.0	725.0	56.	3.	4.
VA02219	202.50	204.00	1100.0	64.0	367.0	<0.5	31.0	12.0	4.0	14.0	9.0	1.0	3.0	910.0	15.	3.	4.
VA02220	204.00	205.00	2000.0	36.0	107.0	<0.5	<5.0	14.0	4.0	8.0	8.0	<1.0	2.0	1000.0	25.	1.	3.
VA02221	205.00	207.00	1100.0	24.0	68.0	<0.5	13.0	12.0	4.0	<5.0	<5.0	<1.0	3.0	850.0	26.	1.	3.
VA02222	210.10	211.00	1500.0	52.0	46.0	1.8	67.0	16.0	20.0	18.0	130.0	<1.0	5.0	880.0	53.	10.	4.
VA02223	211.00	212.00	840.0	76.0	115.0	0.6	9.0	36.0	49.0	6.0	120.0	<1.0	3.0	2700.0	40.	10.	6.
VA02224	212.00	213.00	900.0	140.0	173.0	1.3	17.0	36.0	40.0	14.0	105.0	<1.0	4.0	1900.0	45.	10.	6.
VA02225	218.20	218.50	1900.0	48.0	327.0	<0.5	6.0	20.0	16.0	11.0	40.0	1.0	4.0	1140.0	13.	15.	5.
VA02226	224.00	225.00	660.0	90.0	104.0	0.7	233.0	36.0	50.0	<5.0	8.0	<1.0	4.0	2100.0	46.	4.	5.
VA02227	228.20	229.20	610.0	72.0	88.0	<0.5	<5.0	25.0	22.0	5.0	6.0	<1.0	5.0	1450.0	45.	7.	4.
VA02228	229.20	230.30	700.0	58.0	66.0	<0.5	<5.0	25.0	20.0	5.0	12.0	<1.0	6.0	1100.0	47.	7.	4.
VA02229	236.10	237.00	820.0	41.0	56.0	<0.5	<5.0	19.0	20.0	7.0	16.0	<1.0	4.0	910.0	42.	20.	3.
VA02230	237.00	238.00	810.0	47.0	64.0	<0.5	<5.0	18.0	13.0	<5.0	7.0	<1.0	4.0	1100.0	42.	10.	4.
VA02231	258.80	259.60	1600.0	67.0	320.0	<0.5	<5.0	29.0	26.0	24.0	20.0	1.0	3.0	1140.0	17.	3.	3.
VA02232	267.00	267.50	770.0	178.0	64.0	<0.5	<5.0	18.0	4.0	13.0	9.0	<1.0	2.0	950.0	74.	6.	5.
VA02233	267.50	268.50	970.0	102.0	54.0	<0.5	<5.0	14.0	4.0	6.0	11.0	<1.0	2.0	840.0	65.	2.	4.
VA02234	268.50	269.50	960.0	58.0	72.0	<0.5	<5.0	12.0	6.0	6.0	8.0	<1.0	4.0	860.0	45.	2.	3.
VA02235	269.50	270.50	930.0	33.0	132.0	<0.5	<5.0	12.0	4.0	<5.0	7.0	<1.0	3.0	840.0	20.	2.	3.
VA02236	270.50	271.50	1400.0	54.0	172.0	<0.5	<5.0	12.0	5.0	<5.0	10.0	<1.0	3.0	980.0	24.	2.	3.
VA02237	271.50	272.00	1400.0	311.0	76.0	<0.5	<5.0	27.0	6.0	5.0	36.0	<1.0	3.0	960.0	80.	7.	5.
VA02238	272.00	273.30	2100.0	94.0	12.0	<0.5	334.0	20.0	20.0	9.0	54.0	<1.0	4.0	100.0	89.	7.	3.
VA02239	273.30	274.00	710.0	46.0	1200.0	<0.5	7.0	8.0	12.0	21.0	<5.0	5.0	5.0	2800.0	4.	3.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA02240	274.00	275.00	840.0	177.0	4000.0	<0.5	<5.0	11.0	12.0	13.0	<5.0	18.0	4.0	2600.0	4.	5.	3.
VA02241	275.00	275.70	1000.0	124.0	440.0	<0.5	<5.0	16.0	12.0	8.0	5.0	2.0	3.0	1220.0	22.	5.	3.
VA02242	275.70	276.30	1300.0	294.0	220.0	<0.5	<5.0	27.0	20.0	7.0	6.0	<1.0	5.0	1680.0	57.	3.	4.
VA02243	276.30	277.50	2100.0	85.0	150.0	<0.5	<5.0	15.0	16.0	56.0	8.0	<1.0	4.0	1240.0	36.	3.	3.
VA02244	277.50	278.70	2200.0	164.0	160.0	<0.5	11.0	24.0	20.0	75.0	15.0	<1.0	2.0	560.0	51.	3.	3.
VA02245	278.70	279.80	1900.0	195.0	44.0	<0.5	<5.0	32.0	20.0	13.0	<5.0	<1.0	3.0	640.0	82.	3.	3.
VA02246	279.80	281.30	1200.0	44.0	210.0	<0.5	<5.0	12.0	4.0	<5.0	<5.0	<1.0	3.0	1000.0	17.	0.	3.
VA02247	310.00	310.50	1500.0	72.0	88.0	<0.5	<5.0	28.0	20.0	<5.0	14.0	<1.0	3.0	1360.0	45.	3.	4.
VA02248	348.70	350.00	1300.0	80.0	60.0	<0.5	<5.0	14.0	4.0	6.0	<5.0	<1.0	4.0	820.0	57.	2.	3.
VA02249	350.00	352.00	1200.0	70.0	56.0	<0.5	<5.0	16.0	5.0	<5.0	<5.0	<1.0	5.0	820.0	56.	2.	4.
VA02250	352.00	354.00	1300.0	71.0	66.0	<0.5	<5.0	14.0	5.0	<5.0	<5.0	<1.0	5.0	1100.0	52.	2.	4.
VA08751	354.00	356.00	1400.0	58.0	50.0	<0.5	<5.0	14.0	4.0	<5.0	<5.0	<1.0	3.0	820.0	54.	2.	3.
VA08752	356.00	358.00	1400.0	80.0	50.0	<0.5	<5.0	13.0	4.0	<5.0	<5.0	<1.0	3.0	830.0	62.	2.	3.
VA08753	358.00	360.00	1800.0	83.0	40.0	<0.5	<5.0	12.0	3.0	<5.0	<5.0	<1.0	2.0	620.0	67.	2.	3.
VA08754	360.00	362.00	1900.0	26.0	48.0	<0.5	<5.0	10.0	5.0	<5.0	<5.0	<1.0	2.0	820.0	35.	2.	2.
VA08755	362.00	364.00	1400.0	82.0	52.0	<0.5	<5.0	15.0	5.0	<5.0	<5.0	<1.0	3.0	820.0	61.	2.	3.
VA08756	364.00	366.00	1300.0	64.0	58.0	<0.5	<5.0	14.0	5.0	<5.0	<5.0	<1.0	3.0	920.0	52.	2.	3.
VA08757	366.00	368.00	1400.0	87.0	56.0	<0.5	<5.0	13.0	5.0	10.0	5.0	<1.0	3.0	840.0	61.	2.	3.
VA08758	368.00	370.00	1500.0	125.0	60.0	<0.5	17.0	14.0	5.0	29.0	5.0	<1.0	3.0	790.0	68.	2.	4.
VA08759	370.00	371.30	1200.0	49.0	60.0	<0.5	<5.0	11.0	5.0	40.0	5.0	<1.0	3.0	900.0	45.	2.	3.
VA08760	371.30	373.30	1400.0	40.0	72.0	<0.5	<5.0	14.0	6.0	<5.0	9.0	<1.0	3.0	900.0	36.	2.	4.
VA08761	373.30	375.30	1200.0	19.0	78.0	<0.5	<5.0	12.0	6.0	<5.0	5.0	<1.0	3.0	840.0	20.	2.	4.
VA08762	375.30	377.30	1200.0	61.0	76.0	<0.5	<5.0	14.0	28.0	<5.0	<5.0	<1.0	3.0	820.0	45.	2.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08763	396.20	397.20	2000.0	3.0	18.0	<0.5	<5.0	2.0	3.0	<5.0	<5.0	<1.0	6.0	280.0	14.	0.	1.
VA08764	397.20	397.70	2100.0	8.0	28.0	<0.5	5.0	1.0	3.0	<5.0	<5.0	<1.0	4.0	220.0	22.	0.	1.
VA08765	397.70	398.60	2300.0	5.0	34.0	<0.5	5.0	2.0	3.0	<5.0	<5.0	<1.0	3.0	380.0	13.	0.	1.
VA08766	400.40	401.40	2600.0	3.0	36.0	<0.5	<5.0	2.0	2.0	<5.0	5.0	<1.0	5.0	220.0	8.	0.	1.
VA08767	401.40	402.40	2700.0	56.0	3000.0	<0.5	37.0	3.0	4.0	<5.0	190.0	15.0	8.0	300.0	2.	0.	2.
VA08768	402.40	402.90	2500.0	7.0	94.0	<0.5	<5.0	2.0	1.0	<5.0	7.0	<1.0	6.0	100.0	7.	0.	0.

Summary Log: DDH CH88-71
Location: 25+00 W, 2+25 S; Holyoak 2 Claim
Azimuth: 180, Dip: -50
Hole Completed: June 26, 1988
Core logged by: J. Pattison

0.0	- 12.8	Overburden
12.8	- 72.4	Mafic tuff
72.4	- 82.2	Intermediate tuff
82.2	- 90.1	Mafic tuff
90.1	- 115.0	Intermediate quartz-feldspar crystal tuff 3-5 % disseminated pyrite
115.0	- 117.4	Felsic quartz-feldspar crystal tuff
117.4	- 184.7	Intermediate quartz-feldspar crystal lapilli tuff 2-5 % disseminated pyrite. Traces of chalcopyrite sometimes occur within the pyrite grains. There are several bands of semi-massive to massive magnetite less than 0.1 m thick.
184.7	- 254.8	Mafic tuff

E.O.H. @ 254.8 m

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-71 | Page Number 1

Hole Location: 25+00 W 2+25 S

NTS: 92B13 UTM:
Azimuth: 180 Elevation: 881 m
Dip: -50 Length: 254.8 m

Started: 23-June-88
Completed: 26-June-88

Purpose: To test IP anomaly

Claim No. Holyoak 2
Section No.: 25+00 W

Logged By: J. Pattison
Drilling Co.: Burwash Enterprises
Assayed By: Bondar-Clegg & XRAL

Core Size: NQ (thin wall)

DIP TESTS

Length	Azimuth	Dip	Length	Azimuth	Dip
19.80	178.0	-50.5	183.80	186.0	-49.5
93.00	181.0	-51.0	251.50	188.0	-50.0

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
.0	12.8	OVERBURDEN											
12.8	72.4	MAFIC TUFF											
		Medium green locally feldspar porphyritic tuff. Up to 20	VA02927	12.8	42.0	29.2	n/a	62	n/a	80	n/a	n/a	708
		%, 2-3 mm epidotized feldspars in a fine-grained chloritic	VA08578	20.0	21.0	1.0	4	82	<5	100	<1	<5	310
		matrix (similiar in appearance to gabbro but no ilmenite	VA08579	21.0	22.0	1.0	4	63	<5	68	<1	<5	710
		). Trace to 2 % disseminated magnetite except between 18.0	VA08580	22.0	23.0	1.0	1	41	<5	160	<1	<5	1100
		and 22.0 m. Bedding not recognizable. Locally up to 3 %	VA08581	27.0	28.0	1.0	4	203	<5	128	<1	<5	280
		hazy dark green, angular, chloritic fragments up to 10 mm	VA08582	28.0	29.0	1.0	4	55	<5	110	<1	<5	220
		in diameter. Basaltic to andesitic in composition. Quite	VA08583	29.0	30.0	1.0	1	58	<5	136	<1	<5	280
		massive, foliation not well developed. Lower contact is	VA08584	30.0	31.0	1.0	1	20	<5	100	<1	<5	720
		gradational over 0.1 m.	VA08585	31.0	32.0	1.0	1	110	<5	92	<1	<5	870
			VA08586	32.0	33.0	1.0	1	106	<5	104	<1	<5	510
		STRUCTURE:.	VA08587	33.0	34.0	1.0	1	154	<5	76	<1	<5	460
		12.8-13.2 M blocky, highly fractured core.	VA08588	34.0	35.0	1.0	1	100	<5	96	<1	<5	110
		At 20.1 m minor slip at 40 degrees to core axis.	VA08589	35.0	36.0	1.0	4	103	<5	82	<1	<5	100
		At 21.5 m 3 mm fault gouge at 60 degrees to core axis.	VA08590	36.0	37.0	1.0	4	77	5	72	<1	<5	190
		40.5-40.8 M fault at 40 degrees to core axis. Blocky,	VA08591	37.0	38.0	1.0	1	85	<5	84	<1	<5	1000
		highly fractured core.	VA08592	38.0	39.0	1.0	1	53	<5	72	<1	<5	820
		41.3-41.9 M blocky, highly fractured core.	VA08593	39.0	40.0	1.0	1	52	<5	62	<1	<5	980
		57.3-58.7 M blocky, highly fractured core. 0.2 m of lost	VA08594	40.0	41.0	1.0	1	51	<5	72	<1	<5	1100
		core.	VA08595	41.0	42.0	1.0	1	51	<5	71	<1	6	860
		71.8-72.3 M blocky, highly fractured core.	VA02928	42.0	72.4	30.4	n/a	47	n/a	44	n/a	n/a	742
			VA08596	42.0	43.0	1.0	1	53	<5	74	<1	16	1000
		ALTERATION:.	VA08597	43.0	44.0	1.0	2	34	<5	82	1	<5	950
		12.8 29.0 WEAK FRACTURE CONTROLLED CARBONATIZATION and	VA08598	44.0	45.0	1.0	2	54	<5	73	<1	<5	770
		WEAK SPOTTY EPIDOTIZATION.	VA08599	45.0	46.0	1.0	2	49	<5	65	<1	5	710
		29.0 37.4 MODERATE PERVASIVE EPIDOTIZATION and MODERATE	VA08600	46.0	47.0	1.0	2	91	<5	60	<1	6	760
		PERVASIVE CARBONATIZATION. Rock has a pale	VA08601	47.0	48.0	1.0	2	106	<5	47	<1	9	930
		green, bleached appearance.	VA08602	48.0	49.0	1.0	2	87	<5	47	<1	<5	930
		37.4 49.3 MODERATE FRACTURE CONTROLLED CARBONATIZATION and	VA08603	49.0	50.0	1.0	2	82	<5	47	<1	9	1000

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-71 Page Number 2

From (m)	To (m)	DESCRIPTION
		WEAK PERVASIVE EPIDOTIZATION.
49.3	55.8	MODERATE SPOTTY EPIDOTIZATION , MODERATE SPOTTY CARBONATIZATION and locally weak to moderate pervasive silicification. Rock takes on a light grey, bleached colour.
55.8	72.4	MODERATE FRACTURE CONTROLLED SILICIFICATION , WEAK FRACTURE CONTROLLED CARBONATIZATION and WEAK SPOTTY CARBONATIZATION.
		MINERALIZATION:.
		21.0-22.0 m 4 % very finely disseminated pyrite and trace pyrrhotite.
		27.0-29.0 m 4 % disseminated pyrite in a bleached zone due to moderate quartz-carbonate veining. Moderate spotty epidote alteration.
		29.0-34.0 m 3-5% magnetite in bands parallel to foliation up to 1.0 cm thick and patches up to 3.0 cm in diameter. Tr-1% disseminated pyrite and possibly some sphalerite with the magnetite.
		34.0-35.0 m 1 % finely disseminated pyrite.
		35.0-37.0 m 3-4% disseminated pyrite.
		37.0-42.2 M trace to 1 % disseminated pyrite.
		42.2-42.8 M trace chalcopyrite and pyrite hosted by quartz+carbonate+chlorite filled fractures.
		42.8-44.0 m 1-2 % disseminated pyrite.
		44.0-64.0 m 2 % disseminated pyrite.
		64.0-72.4 m 3-4% disseminated pyrite.
18.0	22.0	Possible feldspar porphyritic flow. 15-20%, 1-3 mm epidotized feldspars and no magnetite.
32.9	888.8	1.0 cm band of massive purplish magnetite at 50 degrees to core axis.
41.0	43.1	Massive, medium-grained mafic flow or intrusion (?). Comprised of 20 % pale, green-grey sauseritized anhedral 2-4 mm feldspars. Upper contact is sharp at 30 degrees to core axis. Lower contact is gradational over 0.1 m.
42.2	42.8	Many fracture controlled irregular quartz+carbonate+chlorite veins which host trace to 1 % chalcopyrite.
43.1	50.0	5-10 %, 2-5 mm angular light grey cherty fragments, chloritic mafic fragments and quartz grains.
72.4	76.4	INTERMEDIATE TUFF
		Medium grey-green chlorite+sericite+quartz schist

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA08604	50.0	51.0	1.0	2	53	<5	34	<1	7	1200
VA08605	51.0	52.0	1.0	2	58	<5	39	<1	7	1200
VA08606	52.0	53.0	1.0	2	220	<5	44	<1	<5	790
VA08607	53.0	54.0	1.0	2	45	<5	68	<1	<5	1100
VA08608	54.0	55.0	1.0	2	28	<5	71	<1	<5	850
VA08609	55.0	56.0	1.0	2	85	5	50	<1	10	810
VA08610	56.0	57.0	1.0	2	81	<5	80	<1	7	910
VA08611	57.0	58.0	1.0	2	165	<5	82	<1	8	850
VA08612	58.0	59.0	1.0	2	56	<5	42	<1	11	14000
VA08613	59.0	60.0	1.0	2	19	<5	58	<1	5	1000
VA08614	60.0	61.0	1.0	2	14	<5	58	<1	7	540
VA08615	61.0	62.0	1.0	2	26	5	51	<1	6	570
VA08616	62.0	63.0	1.0	2	59	<5	72	<1	7	710
VA08617	63.0	64.0	1.0	2	113	<5	65	<1	9	740
VA08618	64.0	65.0	1.0	4	66	<5	59	<1	7	1100
VA08619	65.0	66.0	1.0	4	47	<5	63	<1	7	950
VA08620	66.0	67.0	1.0	4	52	<5	67	<1	14	1100
VA08621	67.0	68.0	1.0	4	15	<5	65	<1	16	810
VA08622	68.0	69.0	1.0	4	73	<5	52	<1	15	540
VA08623	69.0	70.0	1.0	4	99	<5	64	<1	9	940
VA08624	70.0	71.0	1.0	4	52	<5	55	<1	17	630
VA08625	71.0	72.4	1.4	4	8	<5	34	<1	15	500
VA02929	72.4	82.2	9.8	n/a	18	n/a	34	n/a	n/a	887

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		(andesitic to dacitic in composition). Broken core at the lower contact.	VA08626	72.4	73.0	.6	5	10	<5	36	<1	14	810
			VA08627	73.0	74.0	1.0	5	35	<5	38	<1	6	970
			VA08628	74.0	75.0	1.0	5	16	<5	35	<1	10	960
		STRUCTURE:.	VA08629	75.0	76.0	1.0	5	10	<5	36	<1	12	1100
		Foliation runs almost parallel to the core axis.	VA08630	76.0	76.6	.6	5	32	<5	68	<1	9	730
		ALTERATION:.											
		72.4 76.6 WEAK PERVASIVE EPIDOTIZATION.											
		SULPHIDES:.											
		72.4-76.6 m 4-5% disseminated pyrite.											
76.4	77.7	MAFIC INTRUSIVE											
		Dark green, massive, fine-grained chloritic mafic dyke. Nil sulphides. Lower contact is sharp and crosscutting at 70 degrees to core axis.											
77.7	82.2	INTERMEDIATE TUFF											
		As 72.4 to 76.6 m. May be just a silicified equivalent of the mafic tuff. Lower contact is gradational.	VA08631	77.7	79.0	1.3	5	30	<5	28	<1	7	950
			VA08632	79.0	80.0	1.0	5	21	<5	38	<1	14	710
			VA08633	80.0	81.0	1.0	5	29	<5	39	<1	7	610
		STRUCTURE:.	VA08634	81.0	82.2	1.2	5	14	<5	49	<1	17	820
		At 81.0 m foliation is at 20 degrees to core axis.											
		ALTERATION:.											
		77.7 82.2 WEAK PERVASIVE EPIDOTIZATION.											
		SULPHIDES:.											
		77.7-82.2 M.											
82.2	90.1	MAFIC TUFF											
		Massive, medium-grained chloritic mafic tuff. Dominantly basaltic but ranges into andesitic compositions.	VA02930	82.2	90.1	7.9	n/a	52	n/a	46	n/a	n/a	888
			VA08635	82.2	83.2	1.0	2	144	<5	57	<1	10	330
		Foliation is not well developed.	VA08636	83.2	84.0	.8	2	21	<5	44	<1	19	420
			VA08637	84.0	85.0	1.0	2	41	<5	64	<1	11	610
		ALTERATION:.	VA08638	85.0	86.0	1.0	2	112	<5	56	<1	8	600
		83.2 90.1 WEAK SPOTTY EPIDOTIZATION and locally weak fracture controlled hematization.	VA08639	86.0	87.0	1.0	2	24	<5	82	<1	15	200
			VA08640	87.0	88.0	1.0	2	45	<5	61	<1	12	2500
			VA08641	88.0	89.0	1.0	2	24	<5	71	<1	8	330
		SULPHIDES:.	VA08642	89.0	90.1	1.1	2	88	<5	83	<1	9	480
		82.3 2.0 % very finely disseminated pyrite.											
90.1	115.0	INTERMEDIATE QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF											
		Mottled, medium grey-green to dark green, moderately sercitic, chloritic and weakly epidotized and carbonatized tuff. Dominantly intermediate-felsic based on silica content but some more altered intervals range into mafic	VA02931	90.1	120.0	29.9	n/a	53	n/a	47	n/a	n/a	701
			VA08643	90.1	91.0	.9	5	91	<5	56	<1	15	940
			VA08644	91.0	92.0	1.0	5	78	<5	39	<1	13	1000
			VA08645	92.0	93.0	1.0	5	23	5	41	<1	16	660

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		compositions.	VA08646	93.0	94.0	1.0	5	53	<5	49	<1	14	1000
		Trace to 5 % 2-4 mm quartz eyes and locally, up to 5 % 1-3	VA08647	94.0	95.0	1.0	3	160	<5	42	<1	11	720
		mm feldspar crystals most of which are epidotized.	VA08648	95.0	96.0	1.0	3	343	<5	54	<1	18	630
		Locally up to 10 % altered (occasional rare clast with	VA08649	96.0	97.0	1.0	3	53	<5	33	<1	10	860
		well defined reaction rim), lapilli-sized clasts of felsic	VA08650	97.0	98.0	1.0	3	46	<5	32	<1	8	1000
		material +/- feldspar crystals.	VA08651	98.0	99.0	1.0	3	115	<5	55	<1	14	1100
			VA08652	99.0	100.0	1.0	3	62	<5	45	<1	24	1200
		STRUCTURE:.	VA08653	100.0	101.0	1.0	3	52	6	47	<1	18	920
		Core is broken and blocky throughout and foliation is not	VA08654	101.0	102.0	1.0	3	16	<5	64	<1	19	2000
		well developed.	VA08655	102.0	103.0	1.0	3	128	<5	53	<1	28	1500
		At 90.4 m foliation is at 27 degrees to core axis.	VA08656	103.0	104.0	1.0	5	26	6	50	<1	50	850
		At 91.0 m 1.0 cm fault gouge at 30-35 degrees to core axis.	VA08657	104.0	105.0	1.0	5	83	<5	60	<1	43	1700
		At 96.8 m foliation is at 17 degrees to core axis.	VA08658	105.0	106.0	1.0	3	273	<5	66	<1	28	1400
		At 99.1 m slip at 35 degrees to core axis.	VA08659	106.0	107.0	1.0	3	83	<5	56	<1	17	1200
		101.8-102.4 M blocky, highly fractured core. 0.1 m of lost	VA08660	107.0	108.0	1.0	3	34	6	60	<1	33	710
		core.	VA08661	108.0	109.0	1.0	3	5	22	72	<1	33	630
			VA08662	109.0	110.0	1.0	3	11	10	63	<1	21	670
		ALTERATION:.	VA08663	110.0	111.0	1.0	3	73	<5	90	<1	17	620
		90.1 115.0 WEAK SPOTTY EPIDOTIZATION , WEAK PERVASIVE	VA08664	111.0	112.0	1.0	3	164	<5	106	<1	17	760
		CHLORITIZATION and MODERATE PERVASIVE	VA08665	112.0	113.0	1.0	3	56	5	60	<1	13	1400
		SERICITIZATION. Streaky,dark green to black	VA08666	113.0	114.0	1.0	3	134	<5	98	<1	22	610
		chlorite is associated with the disseminated	VA08667	114.0	115.0	1.0	3	192	<5	69	<1	20	410
		pyrite. Weak patchy fine, thermal biotite											
		alteration below 97.0 m.											
		SULPHIDES:.											
		90.1-94.0 m 5 % disseminated pyrite.											
		94.0-103.0 m 3 % disseminated pyrite associated with dark											
		green to black chlorite alteration. Pyrite usually occurs											
		in euhedral to subhedral grains up to 3 mm in diameter.											
		103.0-105.0 m 5 % disseminated pyrite as above.											
		105.0-115.0 m 3 % disseminated pyrite as above and as											
		aggregates to 1.0 cm in diameter.											
		90.7 888.8 5.0 cm thick band of chlorite schist at.											
		101.2 101.6 Fracture controlled quartz veins and pods up											
		to 2 cm thick comprise 50% of the rock.											
		Strong chlorite and epidote alteration											
		associated with the quartz veining.											
		114.3 888.8 2X5 cm clast of massive quartz porphyritic											
		flow/tuff.											
115.0	117.4	INTERMEDIATE QUARTZ FELDSPAR CRYSTAL TUFF											
		Composed of 15-20 %, 2-5 mm, rounded, clear quartz eyes	VA08668	115.0	116.0	1.0	3	11	<5	31	<1	22	1200
		and 15-20%, 1-3 mm feldspar crystals in a massive, very	VA08669	116.0	117.4	1.4	3	8	7	17	<1	13	1900
		siliceous, very fine-grained, weakly sericitic, felsic											
		matrix. Broken core at the lower contact.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-71 | Page Number 5

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		ALTERATION:.											
		115.0 117.4 WEAK PERVASIVE SERICITIZATION.											
		SULPHIDES:.											
		115.0-117.4 m 2-3% disseminated pyrite.											
117.4	184.7	INTERMEDIATE QUARTZ-FELDSPAR CRYSTAL LAPILLI TUFF											
		As 90.1 to 115.0 m. Up to 20 % (average 10%) unsorted, subangular to rounded, light to dark grey, fine-grained felsic to intermediate lapilli-sized clasts. Dark green fine mafic ash beds up to 0.3 m thick are common. Lower contact placed where quartz eyes disappear.	VA08670	117.4	119.0	1.6	3	143	<5	80	<1	12	1100
			VA08671	119.0	120.0	1.0	3	34	<5	81	<1	20	410
			VA08672	120.0	121.0	1.0	3	7	<5	77	<1	13	250
			VA02932	120.0	150.0	30.0	n/a	53	n/a	76	n/a	n/a	579
			VA08673	121.0	122.0	1.0	3	35	<5	91	<1	13	670
			VA08674	122.0	123.0	1.0	3	65	<5	59	<1	13	960
			VA08675	123.0	124.0	1.0	3	117	<5	97	<1	12	960
			VA08676	124.0	125.0	1.0	3	185	<5	112	<1	14	890
			VA08677	125.0	126.0	1.0	3	56	9	100	<1	10	840
			VA08678	126.0	127.0	1.0	3	113	8	80	<1	18	1100
			VA08679	127.0	128.0	1.0	3	114	<5	99	<1	27	810
			VA08680	128.0	129.0	1.0	3	45	<5	57	<1	11	910
			VA08681	129.0	130.0	1.0	3	44	24	86	<1	15	1100
			VA08682	130.0	131.0	1.0	3	75	27	107	<1	17	730
			VA08683	131.0	132.0	1.0	3	142	<5	141	<1	11	720
			VA08684	132.0	133.0	1.0	3	114	<5	102	<1	10	760
			VA08685	133.0	134.0	1.0	3	117	<5	109	<1	12	580
			VA08686	134.0	135.0	1.0	3	140	<5	104	<1	18	660
			VA08687	135.0	136.0	1.0	4	280	<5	107	<1	10	110
			VA08688	136.0	137.0	1.0	5	52	<5	104	<1	7	380
			VA08689	137.0	138.0	1.0	3	23	<5	101	<1	10	730
			VA08690	138.0	139.0	1.0	3	568	8	145	1	13	600
			VA08691	139.0	140.0	1.0	3	394	54	104	1	13	860
			VA08692	140.0	141.0	1.0	3	462	69	115	1	11	510
			VA08693	141.0	142.0	1.0	3	175	5	114	<1	6	680
			VA08694	142.0	143.0	1.0	3	105	5	132	<1	6	130
			VA08695	143.0	144.0	1.0	3	20	8	108	<1	9	160
			VA08696	144.0	145.0	1.0	3	18	<5	87	<1	8	540
			VA08697	145.0	146.0	1.0	3	12	<5	85	<1	<5	560
			VA08698	146.0	147.0	1.0	3	13	<5	57	<1	8	820
			VA08699	147.0	148.0	1.0	3	8	<5	58	<1	10	920
			VA08700	148.0	149.0	1.0	3	12	<5	80	<1	9	1100
			VA08701	149.0	150.0	1.0	3	199	<5	80	<1	8	980
			VA08702	150.0	151.0	1.0	3	239	<5	78	<1	5	940
			VA02933	150.0	184.7	34.7	n/a	42	n/a	65	n/a	n/a	931
			VA08703	151.0	152.0	1.0	3	54	<5	63	<1	6	790
			VA08704	152.0	153.0	1.0	3	15	<5	50	<1	8	660
			VA08705	153.0	154.0	1.0	3	14	<5	66	<1	9	980
			VA08706	154.0	155.0	1.0	3	120	<5	191	<1	10	790
			VA08707	155.0	156.0	1.0	5	223	5	340	<1	13	110
			VA08708	156.0	157.0	1.0	5	87	<5	353	<1	9	140
			VA08709	157.0	158.0	1.0	5	113	<5	244	<1	12	40
			VA08710	158.0	159.0	1.0	2	46	<5	74	<1	20	1800
		ALTERATION:.											
		117.4 155.0 WEAK SPOTTY EPIDOTIZATION and WEAK PERVASIVE CHLORITIZATION.											
		155.0 157.8 MODERATE PERVASIVE CARBONATIZATION and STRONG PERVASIVE CHLORITIZATION.											
		157.8 166.3 WEAK SPOTTY EPIDOTIZATION and WEAK PERVASIVE CHLORITIZATION.											
		166.3 167.3 STRONG PERVASIVE CHLORITIZATION and MODERATE PERVASIVE CARBONATIZATION.											
		167.3 184.7 WEAK SPOTTY EPIDOTIZATION and MODERATE PERVASIVE CHLORITIZATION.											
		SULPHIDES:.											
		117.4-135.0 m 2-3% disseminated pyrite. Locally trace chalcopyrite intergrown with the pyrite.											
		135.0-136.0 m 3-4% pyrite associated with patchy chlorite+carbonate alteration.											
		136.0-137.0 m 5 % coarsely disseminated pyrite and trace chalcopyrite.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-71 | Page Number 6

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
		137.0-155.0 m 3 % disseminated pyrite and trace chalcopyrite.	VA08711	159.0	160.0	1.0	2	63	16	46	<1	37	1500
		155.0-157.8 m 4-5% disseminated pyrite as euhedral to subhedral grains up to 4 mm in diameter associated with strong pervasive chlorite and carbonate alteration. Also, locally massive, fracture controlled (?) bands of massive magnetite up to 2.0 cm thick. 8 % magnetite overall.	VA08712	160.0	161.0	1.0	2	18	21	45	<1	14	1400
			VA08713	161.0	162.0	1.0	2	17	22	40	<1	15	1100
			VA08714	162.0	163.0	1.0	2	4	24	40	<1	13	1600
			VA08715	163.0	164.0	1.0	2	26	20	34	<1	6	1300
			VA08716	164.0	165.0	1.0	2	143	21	54	<1	8	960
			VA08717	165.0	166.3	1.3	2	99	18	47	<1	8	1200
		157.8-166.3 m 2 % disseminated and fracture controlled pyrite associated with dark green to black chlorite.	VA08718	166.3	167.3	1.0	2	98	5	46	<1	14	1000
			VA08719	167.3	168.0	.7	3	89	<5	29	<1	16	1400
		166.3-167.3 m 8 % fracture controlled pyrite and trace chalcopyrite concentrated in two carbonatized bands of massive magnetite 10 and 5 cm thick (true thickness) roughly parallel to foliation at 5-20 degrees to core axis. 20 % magnetite overall.	VA08720	168.0	169.0	1.0	3	231	<5	23	<1	12	1200
			VA08721	169.0	170.0	1.0	3	90	6	23	<1	10	1400
			VA08722	170.0	171.0	1.0	3	10	11	49	<1	14	770
			VA08723	171.0	172.0	1.0	3	4	<5	61	<1	12	610
			VA08724	172.0	173.0	1.0	3	2	<5	42	<1	7	1900
		167.3 184.7 M 1-2% disseminated pyrite.	VA08725	173.0	174.0	1.0	3	3	5	43	<1	23	2300
			VA08726	174.0	175.0	1.0	3	19	11	47	<1	13	900
		124.2 126.6 Rock is mafic in composition, < 2 % quartz eyes	VA08727	175.0	176.0	1.0	3	4	6	40	<1	13	1200
			VA08728	176.0	177.0	1.0	2	3	18	31	<1	<5	1400
		136.8 144.1 Strongly chloritic zone, mafic in composition and quartz eyes are very rare.	VA08729	177.0	178.0	1.0	2	518	14	91	<1	12	930
			VA08730	178.0	179.0	1.0	2	361	<5	104	<1	11	840
			VA08731	179.0	180.0	1.0	2	267	<5	86	<1	7	520
		167.3 172.2 Tuff breccia. 40 % light grey, fine-grained siliceous rounded clasts up to 5 cm long oriented parallel to foliation, 15 % epidotized clasts up to 2.0 cm in diameter and 5 % quartz eyes up to 4 mm in diameter.	VA08732	180.0	181.0	1.0	2	231	<5	74	<1	11	550
			VA08733	181.0	182.0	1.0	2	49	<5	74	<1	8	160
			VA08734	182.0	183.0	1.0	2	82	5	87	<1	7	440
			VA08735	183.0	184.0	1.0	2	198	5	65	<1	9	880
			VA08736	184.0	184.7	.7	2	126	<5	75	<1	5	780
184.7	254.8	MAFIC TUFF											
		Massive, coarse (grain size = 2 mm) epidote spotted medium green ANDESITIC tuff. Epidote spots comprise 10-25 % of the rock and are generally < 3 mm in diameter and most represent altered feldspar crystals and aggregates but some (<5%) may be altered lapilli. Up to 2 % light grey, fine-grained, lapilli-sized felsic clasts oriented parallel to foliation. .	VA02934	184.7	210.0	25.3	n/a	145	n/a	67	n/a	n/a	180
			VA08737	184.7	186.0	1.3	2	21	5	98	<1	7	140
			VA08738	186.0	187.0	1.0	2	245	<5	99	<1	9	280
			VA08739	187.0	188.0	1.0	2	132	<5	88	<1	11	150
			VA08740	188.0	189.0	1.0	2	145	5	92	<1	9	520
			VA08741	189.0	190.0	1.0	2	158	15	88	<1	10	320
			VA08742	190.0	191.0	1.0	2	133	<5	86	<1	5	830
			VA08743	191.0	192.0	1.0	2	93	<5	79	<1	8	210
			VA08744	192.0	193.0	1.0	2	125	5	79	<1	<5	140
			VA08745	193.0	194.0	1.0	2	189	5	113	<1	<5	710
			VA08746	194.0	195.0	1.0	2	65	<5	96	<1	8	120
			VA08747	195.0	196.0	1.0	2	211	7	71	<1	<5	730
			VA08748	196.0	197.0	1.0	2	179	12	74	<1	7	130
			VA08749	197.0	198.0	1.0	2	172	20	79	<1	<5	150
			VA08750	198.0	199.0	1.0	2	255	39	78	<1	<5	<20
			VA09001	199.0	200.0	1.0	2	135	25	78	<1	<5	<20
			VA09002	200.0	201.0	1.0	1	166	14	87	<1	<5	50
			VA02935	210.0	230.0	20.0	n/a	116	n/a	87	n/a	n/a	316
			VA02936	230.0	254.8	24.8	n/a	102	n/a	116	n/a	n/a	544
		STRUCTURE:.											
		Very massive, bedding not observed and foliation is not well developed. Where foliation is pronounced it is at < 20 degrees to core axis.											
		At 204.9 m 3.0 cm fault gouge at 25 degrees to core axis.											
		203.2-205.4 M blocky, highly fractured core.											
		At 204.0 m minor slip nearly parallel to the core axis.											
		215.0-217.3 M foliation is kinked and contorted.											
		222.3-224.2 M foliation is kinked and contorted.											
		221.8-223.1 M slip runs parallel to the core axis.											
		At 223.7 m minor slip at 45 degrees to core axis.											
		227.0-228.0 M foliation is kinked and contorted.											
		At 236.0 m fault or irregular erosional surface at 60 degrees to core axis. Rock on the uphole side has a breciated, contorted appearance while the rock on the											

From (m)	To (m)	DESCRIPTION	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)

downhole side is massive.
237.5-239.4 M blocky, highly fractured core.
At 238.6 m 3 mm fault gouge at 15 degrees to core axis.
At 243.1 m bedding is at 15 degrees to core axis.
At 243.3 m 2.0 cm fault gouge at 40 degrees to core axis.
At 245.0 m foliation is at 8 degrees to core axis.
246.8-247.8 M foliation is kinked and contorted.
At 248.1 m 6.0 cm fault gouge at 30 degrees to core axis.
248.1-254.8 M blocky, highly fractured core.
At 249.4 m 5.0 cm fault gouge at 40 degrees to core axis.

ALTERATION:.
183.8 254.8 MODERATE SPOTTY EPIDOTIZATION and WEAK PERVASIVE CARBONATIZATION. Moderate fracture controlled chlorite alteration between 192.0 and 194.0 m.

SULPHIDES:.
183.8-200.0 m 2 % disseminated pyrite mostly as cubes < 2 mm in diameter.
200.0-254.8 M trace to 1 % disseminated and very rarely, trace very finely disseminated chalcopyrite.

228.0 230.5 10 % light grey-green, fine-grained intermediate to felsic fragments 10.0 cm long and 1.0 cm wide stretched parallel to foliation at <10 degrees to core axis.

243.1 244.4 As 228.0 to 230.5 m.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02508	20.40	20.90	48.80	18.80	9.11	3.11	3.46	0.97	9.58	0.83	0.22	0.20	3.77	98.85	308.	25.	13.
VA02509	44.20	44.60	50.10	19.60	7.89	2.96	2.62	2.03	9.53	0.79	0.44	0.13	3.16	99.25	750.	32.	11.
VA02510	66.20	66.50	50.20	19.80	5.27	2.80	2.39	3.69	9.77	0.82	0.48	0.09	3.93	99.24	1440.	46.	8.
VA02511	81.20	81.80	52.70	19.10	3.78	2.14	6.38	2.39	7.89	0.66	0.43	0.04	4.00	99.51	995.	31.	10.
VA02512	91.50	91.90	48.20	17.40	4.40	3.50	3.28	3.59	9.97	0.85	0.31	0.05	5.31	96.86	991.	48.	8.
VA02513	97.40	97.90	64.70	14.00	4.28	1.47	2.32	2.93	5.53	0.32	0.09	0.04	2.47	98.15	1060.	40.	7.
VA02514	116.30	116.80	71.10	14.00	0.86	1.12	3.30	3.58	2.66	0.25	0.08	0.01	2.47	99.43	2180.	53.	4.
VA02515	130.10	130.40	51.70	17.90	5.07	4.06	4.28	2.18	7.31	0.63	0.19	0.14	3.62	97.08	767.	40.	9.
VA02516	146.10	146.60	49.90	15.40	7.35	3.35	2.66	2.83	8.40	0.54	0.17	0.11	3.93	94.64	698.	38.	10.
VA02517	153.50	153.90	48.80	17.90	6.75	4.88	2.97	2.25	8.65	0.74	0.43	0.13	4.08	97.58	1060.	42.	10.
VA02518	170.40	170.80	55.80	13.20	8.23	3.90	3.34	0.60	6.93	0.44	0.19	0.13	3.77	96.53	376.	28.	12.
VA02519	180.50	180.90	44.10	15.40	10.70	4.10	3.45	0.70	10.30	0.69	0.18	0.18	4.47	94.27	344.	25.	14.
VA02521	188.50	188.80	50.10	19.20	5.56	5.01	5.78	0.20	8.87	0.91	0.12	0.13	4.00	99.88	167.	31.	11.
VA02520	199.30	199.70	44.90	17.50	11.40	4.58	3.38	0.12	10.90	0.75	0.16	0.18	5.77	99.64	109.	24.	15.
VA02522	225.00	225.60	46.00	15.90	7.66	6.09	2.93	0.69	11.40	0.80	0.11	0.20	7.62	99.40	214.	39.	11.
VA02523	246.40	246.70	41.70	15.10	13.80	3.58	3.21	1.14	9.11	0.69	0.13	0.30	11.50	100.26	435.	22.	17.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%MNO	%LOI	SUM	BA	AI	NACA
VA02927	12.80	42.00	49.40	17.60	8.71	3.19	2.94	1.83	9.48	0.69			4.16	98.00	708.	30.	12.
VA02928	42.00	72.40	50.70	19.00	7.86	2.10	3.69	2.00	8.58	0.67			3.31	97.91	742.	26.	12.
VA02929	72.40	82.20	52.60	19.40	4.73	2.25	5.58	2.15	7.61	0.71			3.23	98.26	887.	30.	10.
VA02930	82.20	90.10	50.20	18.80	5.20	3.71	4.52	1.84	10.10	0.86			3.47	98.70	888.	36.	10.
VA02931	90.10	120.00	50.60	17.60	6.26	3.18	3.73	2.01	10.30	0.78			4.00	98.46	701.	34.	10.
VA02932	120.00	150.00	44.80	16.90	10.10	4.07	1.77	1.96	12.00	0.67			5.30	97.57	579.	34.	12.
VA02933	150.00	184.70	55.60	13.80	8.03	3.65	2.47	1.49	8.44	0.47			4.08	98.03	931.	33.	11.
VA02934	184.70	210.00	43.40	16.10	12.00	4.93	2.56	0.40	10.90	0.73			7.31	98.33	180.	27.	15.
VA02935	210.00	230.00	42.80	15.60	11.70	4.70	2.48	1.33	9.60	0.71			9.93	98.85	316.	30.	14.
VA02936	230.00	254.80	49.10	15.90	9.21	4.16	3.81	1.25	7.84	0.65			7.08	99.00	544.	29.	13.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08578	20.00	21.00	310.0	82.0	100.0	<0.5	<5.0	25.0	25.0	<5.0	<5.0	<1.0	3.0	830.0	45.	4.	4.
VA08579	21.00	22.00	710.0	63.0	68.0	<0.5	<5.0	24.0	16.0	<5.0	<5.0	<1.0	2.0	710.0	48.	4.	3.
VA08580	22.00	23.00	1100.0	41.0	160.0	<0.5	<5.0	13.0	6.0	<5.0	<5.0	<1.0	3.0	1080.0	20.	1.	3.
VA08581	27.00	28.00	280.0	203.0	128.0	<0.5	<5.0	40.0	28.0	<5.0	9.0	<1.0	4.0	940.0	61.	4.	3.
VA08582	28.00	29.00	220.0	55.0	110.0	<0.5	<5.0	30.0	26.0	<5.0	<5.0	<1.0	3.0	920.0	33.	4.	3.
VA08583	29.00	30.00	280.0	58.0	136.0	<0.5	<5.0	26.0	24.0	<5.0	<5.0	<1.0	2.0	950.0	30.	1.	5.
VA08584	30.00	31.00	720.0	20.0	100.0	<0.5	<5.0	20.0	18.0	<5.0	<5.0	<1.0	2.0	810.0	17.	1.	5.
VA08585	31.00	32.00	870.0	110.0	92.0	<0.5	<5.0	24.0	16.0	<5.0	5.0	<1.0	2.0	800.0	54.	1.	6.
VA08586	32.00	33.00	510.0	106.0	104.0	<0.5	<5.0	32.0	22.0	<5.0	5.0	<1.0	2.0	880.0	50.	1.	7.
VA08587	33.00	34.00	460.0	154.0	76.0	<0.5	<5.0	25.0	20.0	<5.0	<5.0	<1.0	2.0	810.0	67.	1.	4.
VA08588	34.00	35.00	110.0	100.0	96.0	<0.5	<5.0	32.0	48.0	<5.0	<5.0	<1.0	2.0	1140.0	51.	1.	5.
VA08589	35.00	36.00	100.0	103.0	82.0	<0.5	<5.0	30.0	23.0	<5.0	<5.0	<1.0	2.0	740.0	56.	4.	3.
VA08590	36.00	37.00	190.0	77.0	72.0	<0.5	<5.0	32.0	22.0	5.0	<5.0	<1.0	3.0	1030.0	52.	4.	4.
VA08591	37.00	38.00	1000.0	85.0	84.0	<0.5	<5.0	19.0	7.0	<5.0	<5.0	<1.0	2.0	720.0	50.	1.	4.
VA08592	38.00	39.00	820.0	53.0	72.0	<0.5	<5.0	26.0	4.0	<5.0	7.0	<1.0	2.0	660.0	42.	1.	4.
VA08593	39.00	40.00	980.0	52.0	62.0	<0.5	<5.0	16.0	4.0	<5.0	<5.0	<1.0	2.0	660.0	46.	1.	4.
VA08594	40.00	41.00	1100.0	51.0	72.0	<0.5	<5.0	16.0	2.0	<5.0	10.0	<1.0	3.0	660.0	41.	1.	4.
VA08595	41.00	42.00	860.0	51.0	71.0	<0.5	6.0	17.0	9.0	<5.0	6.0	<1.0	2.0	740.0	42.	1.	4.
VA08596	42.00	43.00	1000.0	53.0	74.0	<0.5	16.0	13.0	7.0	<5.0	5.0	<1.0	2.0	870.0	42.	1.	4.
VA08597	43.00	44.00	950.0	34.0	82.0	0.7	<5.0	14.0	8.0	<5.0	5.0	<1.0	2.0	680.0	29.	2.	4.
VA08598	44.00	45.00	770.0	54.0	73.0	<0.5	<5.0	15.0	9.0	<5.0	7.0	<1.0	3.0	640.0	43.	2.	4.
VA08599	45.00	46.00	710.0	49.0	65.0	<0.5	5.0	13.0	8.0	<5.0	5.0	<1.0	2.0	590.0	43.	2.	4.
VA08600	46.00	47.00	760.0	91.0	60.0	<0.5	6.0	13.0	5.0	<5.0	5.0	<1.0	2.0	570.0	60.	2.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08601	47.00	48.00	930.0	106.0	47.0	<0.5	9.0	19.0	7.0	<5.0	9.0	<1.0	2.0	420.0	69.	2.	4.
VA08602	48.00	49.00	930.0	87.0	47.0	<0.5	<5.0	15.0	6.0	<5.0	7.0	<1.0	2.0	440.0	65.	2.	3.
VA08603	49.00	50.00	1000.0	82.0	47.0	<0.5	9.0	17.0	8.0	<5.0	6.0	<1.0	2.0	400.0	64.	2.	4.
VA08604	50.00	51.00	1200.0	53.0	34.0	<0.5	7.0	17.0	6.0	<5.0	7.0	<1.0	3.0	300.0	61.	2.	3.
VA08605	51.00	52.00	1200.0	58.0	39.0	<0.5	7.0	13.0	6.0	<5.0	5.0	<1.0	2.0	400.0	60.	2.	3.
VA08606	52.00	53.00	790.0	220.0	44.0	<0.5	<5.0	13.0	5.0	<5.0	5.0	<1.0	6.0	480.0	83.	2.	3.
VA08607	53.00	54.00	1100.0	45.0	68.0	<0.5	<5.0	7.0	7.0	<5.0	<5.0	<1.0	3.0	620.0	40.	2.	3.
VA08608	54.00	55.00	850.0	28.0	71.0	<0.5	<5.0	8.0	6.0	<5.0	<5.0	<1.0	6.0	650.0	28.	2.	4.
VA08609	55.00	56.00	810.0	85.0	50.0	<0.5	10.0	28.0	5.0	5.0	8.0	<1.0	2.0	490.0	63.	2.	4.
VA08610	56.00	57.00	910.0	81.0	80.0	<0.5	7.0	15.0	7.0	<5.0	<5.0	<1.0	4.0	660.0	50.	2.	3.
VA08611	57.00	58.00	850.0	165.0	82.0	<0.5	8.0	11.0	10.0	<5.0	<5.0	<1.0	4.0	870.0	67.	2.	4.
VA08612	58.00	59.00	14000.0	56.0	42.0	<0.5	11.0	19.0	7.0	<5.0	<5.0	<1.0	4.0	500.0	57.	2.	3.
VA08613	59.00	60.00	1000.0	19.0	58.0	<0.5	5.0	17.0	8.0	<5.0	<5.0	<1.0	3.0	520.0	25.	2.	4.
VA08614	60.00	61.00	540.0	14.0	58.0	<0.5	7.0	17.0	10.0	<5.0	<5.0	<1.0	4.0	560.0	19.	2.	3.
VA08615	61.00	62.00	570.0	26.0	51.0	<0.5	6.0	17.0	7.0	5.0	<5.0	<1.0	4.0	460.0	34.	2.	3.
VA08616	62.00	63.00	710.0	59.0	72.0	<0.5	7.0	25.0	6.0	<5.0	<5.0	<1.0	3.0	660.0	45.	2.	4.
VA08617	63.00	64.00	740.0	113.0	65.0	<0.5	9.0	17.0	7.0	<5.0	5.0	<1.0	5.0	510.0	63.	2.	4.
VA08618	64.00	65.00	1100.0	66.0	59.0	<0.5	7.0	22.0	6.0	<5.0	<5.0	<1.0	2.0	430.0	53.	4.	4.
VA08619	65.00	66.00	950.0	47.0	63.0	<0.5	7.0	20.0	7.0	<5.0	<5.0	<1.0	2.0	520.0	43.	4.	4.
VA08620	66.00	67.00	1100.0	52.0	67.0	<0.5	14.0	31.0	8.0	<5.0	<5.0	<1.0	3.0	430.0	44.	4.	4.
VA08621	67.00	68.00	810.0	15.0	65.0	<0.5	16.0	24.0	7.0	<5.0	<5.0	<1.0	2.0	540.0	19.	4.	4.
VA08622	68.00	69.00	540.0	73.0	52.0	<0.5	15.0	26.0	6.0	<5.0	<5.0	<1.0	3.0	460.0	58.	4.	4.
VA08623	69.00	70.00	940.0	99.0	64.0	<0.5	9.0	16.0	9.0	<5.0	<5.0	<1.0	3.0	600.0	61.	4.	4.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08624	70.00	71.00	630.0	52.0	55.0	<0.5	17.0	19.0	7.0	<5.0	<5.0	<1.0	3.0	510.0	49.	4.	4.
VA08625	71.00	72.40	500.0	8.0	34.0	<0.5	15.0	16.0	6.0	<5.0	<5.0	<1.0	3.0	330.0	19.	4.	4.
VA08626	72.40	73.00	810.0	10.0	36.0	<0.5	14.0	13.0	6.0	<5.0	<5.0	<1.0	2.0	340.0	22.	5.	3.
VA08627	73.00	74.00	970.0	35.0	38.0	<0.5	6.0	13.0	6.0	<5.0	<5.0	<1.0	2.0	310.0	48.	5.	3.
VA08628	74.00	75.00	960.0	16.0	35.0	<0.5	10.0	12.0	6.0	<5.0	<5.0	<1.0	3.0	380.0	31.	5.	3.
VA08629	75.00	76.00	1100.0	10.0	36.0	<0.5	12.0	12.0	4.0	<5.0	<5.0	<1.0	2.0	320.0	22.	5.	3.
VA08630	76.00	76.60	730.0	32.0	68.0	<0.5	9.0	19.0	13.0	<5.0	<5.0	<1.0	4.0	660.0	32.	5.	4.
VA08631	77.70	79.00	950.0	30.0	28.0	<0.5	7.0	16.0	8.0	<5.0	<5.0	<1.0	3.0	220.0	52.	5.	4.
VA08632	79.00	80.00	710.0	21.0	38.0	<0.5	14.0	16.0	5.0	<5.0	<5.0	<1.0	5.0	290.0	36.	5.	4.
VA08633	80.00	81.00	610.0	29.0	39.0	<0.5	7.0	12.0	6.0	<5.0	<5.0	<1.0	2.0	260.0	43.	5.	4.
VA08634	81.00	82.20	820.0	14.0	49.0	<0.5	17.0	15.0	7.0	<5.0	<5.0	<1.0	2.0	260.0	22.	5.	4.
VA08635	82.20	83.20	330.0	144.0	57.0	<0.5	10.0	17.0	6.0	<5.0	<5.0	<1.0	3.0	370.0	72.	2.	5.
VA08636	83.20	84.00	420.0	21.0	44.0	<0.5	19.0	17.0	4.0	<5.0	<5.0	<1.0	2.0	300.0	32.	2.	4.
VA08637	84.00	85.00	610.0	41.0	64.0	<0.5	11.0	20.0	7.0	<5.0	<5.0	<1.0	3.0	490.0	39.	2.	6.
VA08638	85.00	86.00	600.0	112.0	56.0	<0.5	8.0	23.0	6.0	<5.0	<5.0	<1.0	3.0	510.0	67.	2.	6.
VA08639	86.00	87.00	200.0	24.0	82.0	<0.5	15.0	38.0	16.0	<5.0	<5.0	<1.0	3.0	580.0	23.	2.	8.
VA08640	87.00	88.00	2500.0	45.0	61.0	<0.5	12.0	20.0	9.0	<5.0	<5.0	<1.0	4.0	510.0	42.	2.	6.
VA08641	88.00	89.00	330.0	24.0	71.0	<0.5	8.0	26.0	8.0	<5.0	<5.0	<1.0	4.0	710.0	25.	2.	7.
VA08642	89.00	90.10	480.0	88.0	83.0	<0.5	9.0	26.0	19.0	<5.0	<5.0	<1.0	4.0	600.0	51.	2.	7.
VA08643	90.10	91.00	940.0	91.0	56.0	<0.5	15.0	24.0	20.0	<5.0	<5.0	<1.0	3.0	370.0	62.	5.	5.
VA08644	91.00	92.00	1000.0	78.0	39.0	<0.5	13.0	25.0	21.0	<5.0	<5.0	<1.0	4.0	300.0	67.	5.	5.
VA08645	92.00	93.00	660.0	23.0	41.0	<0.5	16.0	24.0	13.0	5.0	5.0	<1.0	2.0	280.0	36.	5.	6.
VA08646	93.00	94.00	1000.0	53.0	49.0	<0.5	14.0	24.0	12.0	<5.0	6.0	<1.0	5.0	310.0	52.	5.	6.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08647	94.00	95.00	720.0	160.0	42.0	<0.5	11.0	7.0	6.0	<5.0	7.0	<1.0	4.0	290.0	79.	3.	4.
VA08648	95.00	96.00	630.0	343.0	54.0	<0.5	18.0	12.0	9.0	<5.0	<5.0	<1.0	4.0	380.0	86.	3.	5.
VA08649	96.00	97.00	860.0	53.0	33.0	<0.5	10.0	20.0	14.0	<5.0	<5.0	<1.0	5.0	290.0	62.	3.	4.
VA08650	97.00	98.00	1000.0	46.0	32.0	<0.5	8.0	12.0	13.0	<5.0	8.0	<1.0	3.0	280.0	59.	3.	3.
VA08651	98.00	99.00	1100.0	115.0	55.0	<0.5	14.0	17.0	15.0	<5.0	<5.0	<1.0	4.0	410.0	68.	3.	5.
VA08652	99.00	100.00	1200.0	62.0	45.0	<0.5	24.0	13.0	10.0	<5.0	<5.0	<1.0	6.0	280.0	58.	3.	3.
VA08653	100.00	101.00	920.0	52.0	47.0	<0.5	18.0	25.0	11.0	6.0	7.0	<1.0	6.0	300.0	53.	3.	4.
VA08654	101.00	102.00	2000.0	16.0	64.0	<0.5	19.0	15.0	15.0	<5.0	5.0	<1.0	5.0	440.0	20.	3.	5.
VA08655	102.00	103.00	1500.0	128.0	53.0	<0.5	28.0	27.0	32.0	<5.0	12.0	<1.0	5.0	400.0	71.	3.	4.
VA08656	103.00	104.00	850.0	26.0	50.0	<0.5	50.0	48.0	41.0	6.0	21.0	<1.0	7.0	350.0	34.	5.	6.
VA08657	104.00	105.00	1700.0	83.0	60.0	<0.5	43.0	40.0	27.0	<5.0	18.0	<1.0	8.0	390.0	58.	5.	5.
VA08658	105.00	106.00	1400.0	273.0	66.0	<0.5	28.0	24.0	11.0	<5.0	9.0	<1.0	5.0	420.0	81.	3.	5.
VA08659	106.00	107.00	1200.0	83.0	56.0	<0.5	17.0	30.0	14.0	<5.0	12.0	<1.0	9.0	350.0	60.	3.	4.
VA08660	107.00	108.00	710.0	34.0	60.0	<0.5	33.0	31.0	21.0	6.0	23.0	<1.0	6.0	340.0	36.	3.	5.
VA08661	108.00	109.00	630.0	5.0	72.0	<0.5	33.0	33.0	19.0	22.0	41.0	<1.0	5.0	420.0	6.	3.	6.
VA08662	109.00	110.00	670.0	11.0	63.0	<0.5	21.0	28.0	20.0	10.0	16.0	<1.0	5.0	420.0	15.	3.	6.
VA08663	110.00	111.00	620.0	73.0	90.0	<0.5	17.0	29.0	18.0	<5.0	10.0	<1.0	6.0	500.0	45.	3.	5.
VA08664	111.00	112.00	760.0	164.0	106.0	<0.5	17.0	30.0	13.0	<5.0	10.0	<1.0	7.0	560.0	61.	3.	6.
VA08665	112.00	113.00	1400.0	56.0	60.0	<0.5	13.0	18.0	10.0	5.0	8.0	<1.0	6.0	410.0	48.	3.	4.
VA08666	113.00	114.00	610.0	134.0	98.0	<0.5	22.0	34.0	21.0	<5.0	10.0	<1.0	8.0	600.0	58.	3.	6.
VA08667	114.00	115.00	410.0	192.0	69.0	<0.5	20.0	25.0	14.0	<5.0	13.0	<1.0	7.0	440.0	74.	3.	5.
VA08668	115.00	116.00	1200.0	11.0	31.0	<0.5	22.0	9.0	7.0	<5.0	5.0	<1.0	5.0	170.0	26.	3.	3.
VA08669	116.00	117.40	1900.0	8.0	17.0	<0.5	13.0	10.0	7.0	7.0	<5.0	<1.0	3.0	120.0	32.	3.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08670	117.40	119.00	1100.0	143.0	80.0	<0.5	12.0	24.0	27.0	<5.0	8.0	<1.0	3.0	540.0	64.	3.	5.
VA08671	119.00	120.00	410.0	34.0	81.0	<0.5	20.0	33.0	21.0	<5.0	14.0	<1.0	4.0	550.0	30.	3.	5.
VA08672	120.00	121.00	250.0	7.0	77.0	<0.5	13.0	24.0	20.0	<5.0	8.0	<1.0	3.0	550.0	8.	3.	5.
VA08673	121.00	122.00	670.0	35.0	91.0	<0.5	13.0	28.0	34.0	<5.0	9.0	<1.0	5.0	680.0	28.	3.	6.
VA08674	122.00	123.00	960.0	65.0	59.0	<0.5	13.0	20.0	12.0	<5.0	<5.0	<1.0	5.0	520.0	52.	3.	4.
VA08675	123.00	124.00	960.0	117.0	97.0	<0.5	12.0	24.0	20.0	<5.0	7.0	<1.0	5.0	700.0	55.	3.	5.
VA08676	124.00	125.00	890.0	185.0	112.0	<0.5	14.0	21.0	26.0	<5.0	5.0	<1.0	5.0	960.0	62.	3.	6.
VA08677	125.00	126.00	840.0	56.0	100.0	<0.5	10.0	18.0	15.0	9.0	<5.0	<1.0	4.0	900.0	36.	3.	4.
VA08678	126.00	127.00	1100.0	113.0	80.0	<0.5	18.0	32.0	22.0	8.0	<5.0	<1.0	4.0	750.0	59.	3.	5.
VA08679	127.00	128.00	810.0	114.0	99.0	<0.5	27.0	22.0	12.0	<5.0	<5.0	<1.0	4.0	820.0	54.	3.	5.
VA08680	128.00	129.00	910.0	45.0	57.0	<0.5	11.0	17.0	11.0	<5.0	<5.0	<1.0	3.0	640.0	44.	3.	3.
VA08681	129.00	130.00	1100.0	44.0	86.0	<0.5	15.0	27.0	26.0	24.0	<5.0	<1.0	5.0	830.0	34.	3.	4.
VA08682	130.00	131.00	730.0	75.0	107.0	<0.5	17.0	39.0	29.0	27.0	<5.0	<1.0	4.0	940.0	41.	3.	4.
VA08683	131.00	132.00	720.0	142.0	141.0	<0.5	11.0	22.0	20.0	<5.0	<5.0	<1.0	5.0	1300.0	50.	3.	5.
VA08684	132.00	133.00	760.0	114.0	102.0	<0.5	10.0	24.0	29.0	<5.0	<5.0	<1.0	4.0	960.0	53.	3.	4.
VA08685	133.00	134.00	580.0	117.0	109.0	<0.5	12.0	29.0	26.0	<5.0	<5.0	<1.0	4.0	1100.0	52.	3.	5.
VA08686	134.00	135.00	660.0	140.0	104.0	<0.5	18.0	37.0	18.0	<5.0	<5.0	<1.0	4.0	1000.0	57.	3.	5.
VA08687	135.00	136.00	110.0	280.0	107.0	<0.5	10.0	33.0	21.0	<5.0	<5.0	<1.0	5.0	1250.0	72.	4.	5.
VA08688	136.00	137.00	380.0	52.0	104.0	<0.5	7.0	39.0	20.0	<5.0	<5.0	<1.0	4.0	1200.0	33.	5.	6.
VA08689	137.00	138.00	730.0	23.0	101.0	<0.5	10.0	40.0	26.0	<5.0	<5.0	<1.0	4.0	1040.0	19.	3.	6.
VA08690	138.00	139.00	600.0	568.0	145.0	0.6	13.0	34.0	37.0	8.0	<5.0	<1.0	5.0	1560.0	80.	3.	6.
VA08691	139.00	140.00	860.0	394.0	104.0	0.7	13.0	36.0	25.0	54.0	<5.0	<1.0	4.0	1100.0	79.	3.	5.
VA08692	140.00	141.00	510.0	462.0	115.0	0.7	11.0	35.0	25.0	69.0	<5.0	<1.0	4.0	1170.0	80.	3.	6.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08693	141.00	142.00	680.0	175.0	114.0	<0.5	6.0	38.0	32.0	5.0	<5.0	<1.0	5.0	1320.0	61.	3.	5.
VA08694	142.00	143.00	130.0	105.0	132.0	<0.5	6.0	35.0	39.0	5.0	<5.0	<1.0	4.0	1280.0	44.	3.	6.
VA08695	143.00	144.00	160.0	20.0	108.0	<0.5	9.0	50.0	31.0	8.0	<5.0	<1.0	3.0	1080.0	16.	3.	6.
VA08696	144.00	145.00	540.0	18.0	87.0	<0.5	8.0	40.0	39.0	<5.0	<5.0	<1.0	4.0	1020.0	17.	3.	5.
VA08697	145.00	146.00	560.0	12.0	85.0	<0.5	<5.0	29.0	35.0	<5.0	<5.0	<1.0	3.0	830.0	12.	3.	5.
VA08698	146.00	147.00	820.0	13.0	57.0	<0.5	8.0	30.0	20.0	<5.0	<5.0	<1.0	4.0	620.0	19.	3.	4.
VA08699	147.00	148.00	920.0	8.0	58.0	<0.5	10.0	18.0	13.0	<5.0	<5.0	<1.0	5.0	700.0	12.	3.	3.
VA08700	148.00	149.00	1100.0	12.0	80.0	<0.5	9.0	32.0	14.0	<5.0	<5.0	<1.0	4.0	700.0	13.	3.	5.
VA08701	149.00	150.00	980.0	199.0	80.0	<0.5	8.0	29.0	30.0	<5.0	6.0	<1.0	4.0	680.0	71.	3.	5.
VA08702	150.00	151.00	940.0	239.0	78.0	<0.5	5.0	23.0	18.0	<5.0	<5.0	<1.0	4.0	600.0	75.	3.	5.
VA08703	151.00	152.00	790.0	54.0	63.0	<0.5	6.0	21.0	21.0	<5.0	5.0	<1.0	4.0	520.0	46.	3.	5.
VA08704	152.00	153.00	660.0	15.0	50.0	<0.5	8.0	20.0	23.0	<5.0	<5.0	<1.0	3.0	380.0	23.	3.	4.
VA08705	153.00	154.00	980.0	14.0	66.0	<0.5	9.0	15.0	8.0	<5.0	<5.0	<1.0	4.0	500.0	18.	3.	3.
VA08706	154.00	155.00	790.0	120.0	191.0	<0.5	10.0	13.0	12.0	<5.0	<5.0	<1.0	4.0	1040.0	39.	3.	4.
VA08707	155.00	156.00	110.0	223.0	340.0	<0.5	13.0	9.0	16.0	5.0	9.0	<1.0	6.0	1880.0	40.	5.	+10.
VA08708	156.00	157.00	140.0	87.0	353.0	<0.5	9.0	4.0	13.0	<5.0	<5.0	<1.0	7.0	1820.0	20.	5.	9.
VA08709	157.00	158.00	40.0	113.0	244.0	<0.5	12.0	4.0	10.0	<5.0	<5.0	<1.0	7.0	1770.0	32.	5.	7.
VA08710	158.00	159.00	1800.0	46.0	74.0	<0.5	20.0	14.0	11.0	<5.0	<5.0	<1.0	4.0	670.0	38.	2.	3.
VA08711	159.00	160.00	1500.0	63.0	46.0	<0.5	37.0	17.0	7.0	16.0	<5.0	<1.0	4.0	360.0	58.	2.	3.
VA08712	160.00	161.00	1400.0	18.0	45.0	<0.5	14.0	9.0	7.0	21.0	<5.0	<1.0	2.0	400.0	29.	2.	3.
VA08713	161.00	162.00	1100.0	17.0	40.0	<0.5	15.0	12.0	6.0	22.0	<5.0	<1.0	5.0	380.0	30.	2.	3.
VA08714	162.00	163.00	1600.0	4.0	40.0	<0.5	13.0	10.0	10.0	24.0	5.0	<1.0	2.0	420.0	9.	2.	3.
VA08715	163.00	164.00	1300.0	26.0	34.0	<0.5	6.0	8.0	6.0	20.0	5.0	<1.0	4.0	410.0	43.	2.	2.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08716	164.00	165.00	960.0	143.0	54.0	<0.5	8.0	18.0	10.0	21.0	8.0	<1.0	3.0	540.0	73.	2.	4.
VA08717	165.00	166.30	1200.0	99.0	47.0	<0.5	8.0	22.0	10.0	18.0	5.0	<1.0	5.0	580.0	68.	2.	4.
VA08718	166.30	167.30	1000.0	98.0	46.0	<0.5	14.0	39.0	11.0	5.0	14.0	<1.0	3.0	700.0	68.	2.	+10.
VA08719	167.30	168.00	1400.0	89.0	29.0	<0.5	16.0	12.0	8.0	<5.0	<5.0	<1.0	6.0	540.0	75.	3.	4.
VA08720	168.00	169.00	1200.0	231.0	23.0	<0.5	12.0	22.0	13.0	<5.0	<5.0	<1.0	4.0	560.0	91.	3.	3.
VA08721	169.00	170.00	1400.0	90.0	23.0	<0.5	10.0	12.0	10.0	6.0	<5.0	<1.0	4.0	440.0	80.	3.	3.
VA08722	170.00	171.00	770.0	10.0	49.0	<0.5	14.0	13.0	15.0	11.0	<5.0	<1.0	4.0	600.0	17.	3.	3.
VA08723	171.00	172.00	610.0	4.0	61.0	<0.5	12.0	12.0	13.0	<5.0	<5.0	<1.0	4.0	800.0	6.	3.	3.
VA08724	172.00	173.00	1900.0	2.0	42.0	<0.5	7.0	4.0	9.0	<5.0	<5.0	<1.0	3.0	600.0	5.	3.	2.
VA08725	173.00	174.00	2300.0	3.0	43.0	<0.5	23.0	10.0	8.0	5.0	<5.0	<1.0	3.0	380.0	7.	3.	3.
VA08726	174.00	175.00	900.0	19.0	47.0	<0.5	13.0	11.0	11.0	11.0	<5.0	<1.0	5.0	420.0	29.	3.	3.
VA08727	175.00	176.00	1200.0	4.0	40.0	<0.5	13.0	13.0	9.0	6.0	<5.0	<1.0	3.0	340.0	9.	3.	2.
VA08728	176.00	177.00	1400.0	3.0	31.0	<0.5	<5.0	7.0	5.0	18.0	<5.0	<1.0	3.0	260.0	9.	2.	2.
VA08729	177.00	178.00	930.0	518.0	91.0	<0.5	12.0	24.0	18.0	14.0	10.0	<1.0	4.0	840.0	85.	2.	5.
VA08730	178.00	179.00	840.0	361.0	104.0	<0.5	11.0	54.0	20.0	<5.0	15.0	<1.0	7.0	950.0	78.	2.	6.
VA08731	179.00	180.00	520.0	267.0	86.0	<0.5	7.0	42.0	22.0	<5.0	10.0	<1.0	6.0	950.0	76.	2.	5.
VA08732	180.00	181.00	550.0	231.0	74.0	<0.5	11.0	40.0	21.0	<5.0	12.0	<1.0	6.0	940.0	76.	2.	5.
VA08733	181.00	182.00	160.0	49.0	74.0	<0.5	8.0	25.0	25.0	<5.0	13.0	<1.0	4.0	1040.0	40.	2.	5.
VA08734	182.00	183.00	440.0	82.0	87.0	<0.5	7.0	47.0	19.0	5.0	13.0	<1.0	11.0	920.0	49.	2.	5.
VA08735	183.00	184.00	880.0	198.0	65.0	<0.5	9.0	37.0	16.0	5.0	12.0	<1.0	10.0	660.0	75.	2.	4.
VA08736	184.00	184.70	780.0	126.0	75.0	<0.5	5.0	30.0	20.0	<5.0	9.0	<1.0	5.0	760.0	63.	2.	5.
VA08737	184.70	186.00	140.0	21.0	98.0	<0.5	7.0	27.0	28.0	5.0	8.0	<1.0	2.0	820.0	18.	2.	6.
VA08738	186.00	187.00	280.0	245.0	99.0	<0.5	9.0	26.0	24.0	<5.0	7.0	<1.0	3.0	880.0	71.	2.	5.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	BA (ppm)	CU (ppm)	ZN (ppm)	AG (ppm)	AU (ppb)	CO (ppm)	NI (ppm)	PB (ppm)	AS (ppm)	CD (ppm)	MO (ppm)	MN (ppm)	CUZN	ETS	FE
VA08739	187.00	188.00	150.0	132.0	88.0	<0.5	11.0	34.0	21.0	<5.0	7.0	<1.0	4.0	820.0	60.	2.	5.
VA08740	188.00	189.00	520.0	145.0	92.0	<0.5	9.0	32.0	23.0	5.0	7.0	<1.0	4.0	820.0	61.	2.	5.
VA08741	189.00	190.00	320.0	158.0	88.0	<0.5	10.0	41.0	24.0	15.0	8.0	<1.0	3.0	810.0	64.	2.	5.
VA08742	190.00	191.00	830.0	133.0	86.0	<0.5	5.0	42.0	20.0	<5.0	8.0	<1.0	4.0	900.0	61.	2.	5.
VA08743	191.00	192.00	210.0	93.0	79.0	<0.5	8.0	37.0	21.0	<5.0	9.0	<1.0	4.0	800.0	54.	2.	5.
VA08744	192.00	193.00	140.0	125.0	79.0	<0.5	<5.0	27.0	21.0	5.0	7.0	<1.0	5.0	970.0	61.	2.	4.
VA08745	193.00	194.00	710.0	189.0	113.0	<0.5	<5.0	62.0	30.0	5.0	10.0	<1.0	4.0	880.0	63.	2.	7.
VA08746	194.00	195.00	120.0	65.0	96.0	<0.5	8.0	22.0	23.0	<5.0	<5.0	<1.0	7.0	1100.0	40.	2.	6.
VA08747	195.00	196.00	730.0	211.0	71.0	<0.5	<5.0	23.0	25.0	7.0	6.0	<1.0	5.0	900.0	75.	2.	5.
VA08748	196.00	197.00	130.0	179.0	74.0	<0.5	7.0	29.0	23.0	12.0	6.0	<1.0	4.0	920.0	71.	2.	5.
VA08749	197.00	198.00	150.0	172.0	79.0	<0.5	<5.0	30.0	20.0	20.0	7.0	<1.0	6.0	1000.0	69.	2.	5.
VA08750	198.00	199.00	<20.0	255.0	78.0	<0.5	<5.0	46.0	18.0	39.0	11.0	<1.0	5.0	950.0	77.	2.	6.
VA09001	199.00	200.00	<20.0	135.0	78.0	<0.5	<5.0	15.0	20.0	25.0	<5.0	<1.0	4.0	900.0	63.	2.	5.
VA09002	200.00	201.00	50.0	166.0	87.0	<0.5	<5.0	17.0	23.0	14.0	7.0	<1.0	5.0	800.0	66.	1.	4.