APPENDIX 4 : PART 1

DRILL LOGS FOR HOLES CH88-23, CH88-38 TO CH88-58

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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH87-23

From (m)	To (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

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From (m)	To (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

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HOLE No: CH87-23

From (m)	To (m)	DESCRIPTION
298.3	330.8	FELSIC QUARTZ EYE TUFF
330.8	449.5	MAFIC INTRUSIVE
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.

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

From (m)	To (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											

From (m)	To (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 VA01590 VA01591 VA01592	503.0 506.4 509.0 521.1	520.0 508.1 510.5 521.6	17.0 1.7 1.5 .5	n/a n/a n/a n/a	106 441 295 403	n/a <5 <5 <5	22 25 12 21	n/a <1 <1 1	n/a 40 80 56	1620 1300 1000 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 VA01594	522.3 523.4	523.4 524.5	1.1 1.1	n/a n/a	71 130	<5 <5	9 433	<1 <1	49 20	940 610
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----------
		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.
		End of hole 1866 feet, Friday April 22, 1988 at 1:30 p.m.

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

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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00567	487.90	488.00	10.0	122.0	113.0	45.0	178.0	27.0	214.0	130.0	31.0	PMA	?	DCP
VA00568	494.10	494.20	58.0	138.0	1560.0	<10.0	112.0	<10.0	32.0	33.0	<10.0	TFAF	?	DBP
VA00569	501.20	501.30	26.0	239.0	486.0	16.0	106.0	13.0	<10.0	<10.0	<10.0	TFAF	?	AA
VA00570	514.00	514.10	71.0	86.0	1760.0	13.0	107.0	19.0	38.0	<10.0	<10.0	TFAF	?	DBP
VA00571	522.00	522.10	31.0	214.0	581.0	<10.0	103.0	30.0	36.0	<10.0	<10.0	TFAF	?	AA
VA00572	548.00	548.10	30.0	191.0	57.0	<10.0	<10.0	18.0	89.0	41.0	88.0	VMB	PCS	AA
VA00573	563.20	563.30	28.0	270.0	220.0	34.0	76.0	<10.0	73.0	99.0	<10.0	TIA	?	AA
VA00574	566.00	566.10	40.0	279.0	1200.0	38.0	45.0	11.0	75.0	85.0	15.0	TIA	PMS	AA

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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01033	480.70	487.00			1380.0				23.0	392.0	<10.0	TFAF	?	DCP
VA01034	503.00	520.00			1620.0				106.0	22.0	12.0	TFAF	?	DCP
VA01035	524.50	527.00			115.0				107.0	53.0	52.0	TMC	PCS	DCP
VA01036	527.00	535.00			239.0				159.0	67.0	80.0	VMA	PCS	A
VA01037	546.00	553.00			304.0				188.0	69.0	84.0	VMB	PCS	A
VA01038	553.00	568.00			759.0				188.0	98.0	26.0	TIA	?	A

Hole No. CH88-23 ALTERATION SAMPLES

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
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.

Hole No. CH88-23

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
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

Purpose: To test PEM anomaly downdip of Chem87-34

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

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

From (m)	To (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
		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.
86.5	99.6	WEAKLY CHLORITIC FELSIC TUFF

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01005	82.0	97.0	15.0	n/a	11	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)
		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	102.0	138.0	36.0	n/a	62	n/a	17	n/a	n/a	974
			VA01501	110.1	111.4	1.3	1	87	<5	15	<1	10	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

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DIAMOND DRILL LOG

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From (m)	To (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	251.5	264.0	12.5	n/a	118	n/a	83	n/a	n/a	452
			VA01509	252.0	252.5	.5	3	263	<5	61	<1	15	1210
			VA01510	264.4	264.9	.5	1	2428	<5	253	1	30	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. 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.	VA01011	270.0	280.0	10.0	n/a	126	n/a	87	n/a	n/a	376

From (m)	To (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.											

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DIAMOND DRILL LOG

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From (m)	To (m)	----------DESCRIPTION----------
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

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
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 VA01018 VA01528	395.0 410.0 434.7	409.0 430.0 435.1	14.0 20.0 .4	n/a n/a 2	115 78 98	n/a n/a 6	57 59 80	n/a n/a <1	n/a n/a 20	712 1140 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.

Hole No. CH88-38 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
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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA00501	5.30	5.40	62.0	213.0	1120.0	19.0	123.0	19.0	27.0	44.0	<10.0	TF		A
VA00502	7.10	7.20	64.0	296.0	1080.0	10.0	80.0	<10.0	72.0	82.0	15.0	TM		A
VA00503	14.90	15.00	48.0	214.0	412.0	26.0	<10.0	<10.0	42.0	82.0	35.0	TM		A
VA00504	21.30	21.40	42.0	242.0	685.0	14.0	86.0	<10.0	<10.0	35.0	<10.0	TF		A
VA00505	31.70	31.80	35.0	180.0	749.0	33.0	94.0	28.0	<10.0	13.0	<10.0	TF		A
VA00506	47.30	47.40	30.0	102.0	939.0	16.0	57.0	19.0	24.0	<10.0	<10.0	TF		A
VA00507	60.30	60.90	72.0	194.0	3160.0	19.0	79.0	<10.0	<10.0	<10.0	<10.0	TF		A
VA00508	69.60	69.70	<10.0	421.0	64.0	32.0	145.0	28.0	241.0	81.0	66.0	VM		A
VA00509	80.40	80.50	16.0	933.0	83.0	20.0	15.0	19.0	77.0	95.0	29.0	VM		A
VA00510	85.60	85.70	42.0	169.0	1020.0	17.0	85.0	<10.0	12.0	<10.0	<10.0	TF		A
VA00511	100.00	100.20	18.0	391.0	135.0	13.0	16.0	<10.0	16.0	26.0	18.0	TM		A
VA00512	105.30	105.50	34.0	168.0	994.0	16.0	114.0	15.0	<10.0	<10.0	<10.0	TF		A
VA00513	113.30	113.40	65.0	165.0	1590.0	28.0	161.0	<10.0	<10.0	<10.0	<10.0	VF		A
VA00514	122.60	122.70	38.0	266.0	1620.0	18.0	124.0	21.0	<10.0	<10.0	<10.0	VF		A
VA00515	130.40	130.50	22.0	115.0	847.0	33.0	117.0	<10.0	17.0	14.0	<10.0	VF		A
VA00516	144.10	144.20	15.0	219.0	100.0	19.0	80.0	19.0	176.0	77.0	77.0	PMA		A
VA00517	170.10	170.30	<10.0	335.0	286.0	15.0	27.0	21.0	63.0	154.0	18.0	VM		DBP
VA00518	179.80	180.00	<10.0	301.0	332.0	21.0	39.0	<10.0	98.0	70.0	12.0	VM		DBP
VA00519	189.30	189.40	29.0	380.0	344.0	15.0	28.0	<10.0	130.0	80.0	20.0	VM		DBP
VA00520	202.90	203.00	34.0	400.0	689.0	36.0	22.0	10.0	61.0	68.0	27.0	VM		DBP
VA00521	209.50	209.60	25.0	237.0	1390.0	12.0	82.0	18.0	20.0	<10.0	<10.0	VF		DBP
VA00522	217.90	218.00	20.0	466.0	180.0	13.0	27.0	15.0	108.0	82.0	19.0	VM		DBP

Hole No. CH88-38 WHOLE ROCKS SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00523	229.90	230.00	18.0	302.0	231.0	15.0	30.0	<10.0	76.0	66.0	17.0	VM		DBP
VA00524	238.70	238.90	34.0	223.0	503.0	27.0	30.0	21.0	64.0	68.0	<10.0	TI		A
VA00525	251.40	251.50	48.0	204.0	804.0	19.0	46.0	12.0	16.0	75.0	15.0	TF		A
VA00526	258.20	258.30	50.0	170.0	591.0	15.0	47.0	<10.0	20.0	96.0	22.0	TF		A
VA00527	266.50	266.60	21.0	271.0	<10.0	<10.0	76.0	15.0	281.0	98.0	55.0	PMA		A
VA00528	271.10	271.20	40.0	375.0	414.0	22.0	<10.0	20.0	33.0	77.0	30.0	TM		A
VA00529	283.80	283.90	38.0	210.0	911.0	<10.0	86.0	<10.0	18.0	24.0	<10.0	TFAQ		A
VA00530	296.20	296.30	39.0	224.0	579.0	17.0	22.0	17.0	133.0	61.0	24.0	TMA		A
VA00531	308.20	308.30	32.0	193.0	415.0	12.0	29.0	<10.0	22.0	67.0	23.0	TMA		A
VA00532	321.50	321.60	30.0	411.0	1630.0	21.0	54.0	17.0	55.0	46.0	94.0	TIA	PBS	DCP
VA00533	328.50	328.60	11.0	279.0	521.0	<10.0	26.0	16.0	50.0	38.0	98.0	TIA	ECM	DBP
VA00534	334.20	334.30	80.0	100.0	2510.0	<10.0	113.0	<10.0	22.0	<10.0	12.0	TFAQ	?	DBP
VA00535	340.60	340.70	65.0	94.0	1480.0	<10.0	95.0	14.0	19.0	13.0	<10.0	TFAQ	?	DBP
VA00536	354.30	354.40	56.0	47.0	1830.0	12.0	101.0	21.0	39.0	171.0	<10.0	TFAQ	?	DCP
VA00537	382.90	383.00	39.0	108.0	2580.0	27.0	82.0	13.0	137.0	42.0	<10.0	TFA	?	A
VA00538	437.20	437.30	<10.0	293.0	4790.0	17.0	45.0	<10.0	35.0	188.0	91.0	PMB	?	A

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	100.29	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	299.00	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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA01001	7.50	17.20	48.0	368.0	342.0	18.0	55.0	38.0	19.0	62.0	71.0	TM	?	DBP
VA01002	17.30	28.00	46.0	212.0	1140.0	28.0	123.0	19.0	17.0	24.0	<10.0	TF	?	A
VA01003	33.00	44.50	54.0	151.0	988.0	32.0	114.0	<10.0	11.0	14.0	<10.0	TF	?	A
VA01004	45.00	65.00	42.0	239.0	1160.0	<10.0	95.0	12.0	<10.0	<10.0	<10.0	TF	?	A
VA01005	82.00	97.00	46.0	220.0	1030.0	19.0	82.0	17.0	11.0	<10.0	<10.0	TF	?	A
VA01006	102.00	138.00	40.0	254.0	974.0	20.0	93.0	<10.0	62.0	17.0	<10.0	VF	?	A
VA01007	162.00	182.00	18.0	408.0	574.0	20.0	22.0	10.0	94.0	97.0	18.0	VM	?	DCP
VA01008	185.00	205.00	18.0	473.0	335.0	23.0	41.0	<10.0	113.0	48.0	30.0	VM	?	DCP
VA01009	212.50	234.00	12.0	412.0	193.0	16.0	12.0	13.0	110.0	59.0	18.0	VM	?	DCP
VA01010	251.50	264.00	30.0	201.0	452.0	15.0	36.0	20.0	118.0	83.0	14.0	TF	?	DBP
VA01011	270.00	280.00	32.0	366.0	376.0	14.0	25.0	16.0	126.0	87.0	55.0	TM	?	DBP
VA01012	282.00	288.00	46.0	118.0	1230.0	23.0	94.0	17.0	34.0	22.0	<10.0	TF	?	A
VA01013	290.00	314.00	39.0	279.0	512.0	<10.0	23.0	<10.0	40.0	82.0	29.0	TM	?	DBP
VA01014	320.00	330.00	14.0	289.0	766.0	22.0	51.0	17.0	86.0	50.0	107.0	TI	?	DCP
VA01015	333.00	343.00	63.0	184.0	1800.0	26.0	119.0	17.0	25.0	54.0	11.0	TFAQ	?	DBP
VA01016	347.00	358.00	86.0	77.0	2000.0	<10.0	108.0	<10.0	66.0	92.0	<10.0	TFAQ	?	DCP
VA01017	395.00	409.00	29.0	321.0	712.0	<10.0	17.0	14.0	115.0	57.0	51.0	TM	?	A
VA01018	410.00	430.00	44.0	228.0	1140.0	27.0	33.0	16.0	78.0	59.0	31.0	TM	?	A

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
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)	CUZN	ETS	FE
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	24.	2.	1.
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	9.	5.	2.
VA01526	392.40	393.40	1840.0	65.0	380.0	1.2	85.0	13.0	24.0	142.0	17.0	2.0	1.0	1197.0	19.	4.	2.
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	21.	3.	2.
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	55.	2.	5.

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	17.4	34.6	17.2	n/a	<10	n/a	<10	n/a	n/a	1440
			VA03251	32.1	33.1	1.0	1	49	<5	27	<1	10	1270
			VA03252	33.1	33.5	.4	5	187	<5	50	<1	25	2630
			VA03253	33.5	34.5	1.0	1	51	<5	54	<1	10	2120

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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											

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From (m)	To (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.	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
		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.											

From (m)	To (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

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From (m)	To (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	VA02761	163.1	167.0	3.9	n/a	34	n/a	58	n/a	n/a	826
		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.	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
		Lower contact is at 40 degrees to core axis.	VA03286	166.0	166.5	.5	1	42	<5	107	<1	75	1630
		STRUCTURE:.	VA03287	166.5	167.5	1.0	1	279	<5	68	<1	70	1800
		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	VA02762	167.0	174.4	7.4	n/a	280	n/a	76	n/a	n/a	974
		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											

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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-J9 | 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:.											
		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	VA03288	223.4	224.4	1.0	1	16	<5	38	<1	60	470
		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.	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
		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.											

From (m)	To (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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02251	12.20	12.40	36.0	133.0	1130.0	<10.0	97.0	<10.0	24.0	<10.0	<10.0	TFAQFY	PSW	A
VA02252	25.40	26.00	35.0	203.0	1130.0	32.0	125.0	17.0	24.0	<10.0	<10.0	TFBFY	PSW	AA
VA02253	48.00	48.30	59.0	153.0	1780.0	30.0	147.0	<10.0	<10.0	114.0	<10.0	TFBFY	PHW	AA
VA02254	85.10	85.40	61.0	54.0	1690.0	25.0	152.0	18.0	<10.0	29.0	<10.0	TFAF	PHW	DBP
VA02255	95.40	95.60	25.0	144.0	987.0	38.0	121.0	<10.0	12.0	11.0	<10.0	TFBFY	SEW	AA
VA02256	122.30	122.40	36.0	154.0	2340.0	24.0	122.0	11.0	31.0	35.0	15.0	TFAFY	PSW	AA
VA02257	123.60	123.80	24.0	160.0	639.0	19.0	31.0	21.0	83.0	167.0	29.0	TMAM	PHW	AA
VA02258	126.80	126.90	12.0	190.0	381.0	26.0	33.0	<10.0	351.0	118.0	26.0	TMA	PHW	AA
VA02259	132.90	133.20	42.0	359.0	2980.0	17.0	98.0	15.0	38.0	19.0	16.0	TFBFY	PSW	AA
VA02260	140.50	140.60	42.0	228.0	1410.0	31.0	105.0	<10.0	<10.0	24.0	<10.0	TFAI	PSM	AA
VA02261	150.90	151.30	49.0	369.0	1140.0	32.0	31.0	<10.0	62.0	67.0	53.0	TMAM	PHW	AA
VA02262	159.10	159.20	58.0	321.0	1670.0	19.0	48.0	<10.0	442.0	58.0	37.0	TMAM	PHW	AA
VA02263	164.50	165.00	37.0	144.0	1380.0	22.0	94.0	11.0	34.0	54.0	<10.0	TFAI	PHW	DBP
VA02264	171.70	171.90	11.0	263.0	438.0	21.0	19.0	26.0	12.0	110.0	19.0	TMAFM	SEW	AA
VA02265	180.50	180.70	34.0	214.0	1020.0	<10.0	83.0	<10.0	52.0	34.0	16.0	TFAFQY	PHW	AA
VA02266	193.60	193.90	37.0	280.0	758.0	15.0	26.0	12.0	129.0	79.0	27.0	TMAM	PHW	AA
VA02267	210.60	211.00	26.0	174.0	67.0	14.0	71.0	20.0	153.0	73.0	66.0	PMAM	FCW	AA
VA02268	221.20	221.40	20.0	188.0	322.0	43.0	149.0	33.0	323.0	99.0	198.0	PMAM	FCW	AA
VA02269	231.60	231.80	61.0	17.0	3410.0	<10.0	73.0	12.0	50.0	28.0	<10.0	TFBT	PSS	DCP
VA02270	240.10	240.20	85.0	23.0	1320.0	<10.0	89.0	12.0	55.0	131.0	239.0	TFBT	PSS	DCP

Hole No. CH88-39 WHOLE ROCKS 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
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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02751	5.90	17.40	54.0	128.0	1220.0	26.0	104.0	17.0	<10.0	<10.0	<10.0			
VA02752	17.40	34.60	31.0	144.0	1440.0	24.0	126.0	18.0	<10.0	<10.0	<10.0			
VA02753	46.90	52.70	49.0	189.0	2050.0	26.0	124.0	19.0	21.0	102.0	<10.0			
VA02754	80.80	84.20	30.0	79.0	1300.0	39.0	129.0	<10.0	16.0	118.0	<10.0			
VA02755	84.20	102.00	47.0	152.0	1140.0	20.0	114.0	11.0	44.0	30.0	14.0			
VA02756	117.10	122.50	38.0	233.0	1080.0	22.0	91.0	13.0	32.0	81.0	22.0	TFAFY	PHW	AA
VA02757	122.50	127.60	20.0	179.0	477.0	<10.0	34.0	21.0	115.0	141.0	31.0	TMBM	SEW	AA
VA02758	127.60	139.30	46.0	272.0	3120.0	33.0	97.0	16.0	<10.0	29.0	11.0	TFBFY	PHW	AA
VA02759	139.30	147.40	48.0	250.0	1330.0	15.0	79.0	<10.0	44.0	15.0	14.0	TFAT	PSM	DCP
VA02760	147.40	160.60	60.0	352.0	1210.0	<10.0	64.0	<10.0	84.0	44.0	23.0	TMAFY	SEW	DBO
VA02761	163.10	167.00	37.0	213.0	826.0	13.0	93.0	<10.0	34.0	58.0	<10.0	TFAFY	PSW	DBP
VA02762	167.00	174.40	29.0	223.0	974.0	23.0	30.0	12.0	280.0	76.0	28.0	TMAFM	SEW	AA
VA02763	174.40	188.00	34.0	319.0	1040.0	19.0	79.0	14.0	58.0	46.0	14.0	TFA	PHW	AA
VA02764	188.00	210.00	44.0	308.0	1290.0	18.0	57.0	19.0	164.0	172.0	21.0	TMAM	?	AA
VA02765	223.40	255.30	68.0	21.0	2030.0	15.0	94.0	25.0	119.0	444.0	30.0	TFBT	PSS	DCP
VA02766	255.30	280.00	44.0	228.0	848.0	16.0	16.0	17.0	198.0	64.0	69.0	TMAT	PHW	AA
VA02767	280.00	300.70	59.0	210.0	1679.0	<10.0	28.0	21.0	85.0	59.0	45.0	TMAT	PHW	AA

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.

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
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	371.0	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	EIS	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	1239.0	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

Purpose: To test western extent of PEM anomaly

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

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.											

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From (m)	To (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

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From (m)	To (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

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From (m)	To (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
		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 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.
156.4	173.1	FELSIC TUFF 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.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01025	135.0	155.6	20.6	n/a	93	n/a	131	n/a	n/a	351
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

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

From (m)	To (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.											

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From (m)	To (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

From (m)	To (m)	DESCRIPTION
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 %.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
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	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
	249.5 252.0	MODERATE PERVASIVE SERICITIZATION.											
		Foliation : 45 to 55 degrees to core axis locally.											
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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00539	9.10	9.20	59.0	191.0	1350.0	<10.0	98.0	19.0	28.0	16.0	<10.0	TFAQ	PHM	DBP
VA00540	15.80	15.90	44.0	173.0	825.0	13.0	76.0	11.0	38.0	16.0	<10.0	TMA	PCS	A
VA00541	25.40	25.50	46.0	147.0	1160.0	23.0	110.0	14.0	<10.0	15.0	<10.0	TFAQ	?	A
VA00542	29.30	29.40	52.0	172.0	1130.0	31.0	103.0	18.0	<10.0	<10.0	<10.0	TFAQ	?	A
VA00543	38.50	38.60	45.0	224.0	1020.0	17.0	102.0	11.0	24.0	<10.0	<10.0	TFBQ	?	A
VA00544	39.90	40.00	16.0	375.0	329.0	18.0	24.0	15.0	246.0	46.0	38.0	PM	?	A
VA00545	48.20	48.30	31.0	273.0	761.0	25.0	118.0	21.0	19.0	16.0	<10.0	TFBF	PHW	A
VA00546	76.40	76.50	26.0	110.0	1120.0	25.0	127.0	15.0	12.0	29.0	16.0	VFBF	?	DBP
VA00547	81.40	81.50	34.0	99.0	1300.0	26.0	105.0	<10.0	42.0	22.0	<10.0	TFAQ	?	A
VA00548	94.70	94.80	26.0	183.0	912.0	21.0	118.0	<10.0	20.0	25.0	<10.0	VFBF	?	A
VA00549	107.30	107.40	29.0	195.0	1410.0	33.0	145.0	<10.0	41.0	30.0	<10.0	VFBF	?	A
VA00550	119.10	119.20	56.0	348.0	2130.0	14.0	105.0	<10.0	30.0	54.0	18.0	TF	?	A
VA00552	121.60	121.70	46.0	206.0	1860.0	29.0	88.0	16.0	34.0	21.0	<10.0	TFA	?	DDD
VA00551	127.10	127.20	<10.0	210.0	198.0	<10.0	35.0	<10.0	131.0	107.0	18.0	TMAF	?	A
VA00553	139.10	139.20	18.0	244.0	251.0	21.0	25.0	<10.0	114.0	126.0	27.0	TFA	EHS	A
VA00554	149.90	150.00	26.0	164.0	387.0	20.0	34.0	18.0	164.0	133.0	26.0	TMAF	?	A
VA00555	164.60	164.70	41.0	396.0	852.0	19.0	34.0	<10.0	382.0	102.0	28.0	TFA	EHS	A
VA00556	174.20	174.30	17.0	104.0	146.0	22.0	88.0	24.0	217.0	101.0	69.0	Q	?	A
VA00557	174.70	174.80	<10.0	326.0	90.0	14.0	88.0	28.0	217.0	76.0	67.0	PMAF	?	A
VA00558	181.30	181.40	52.0	436.0	1410.0	25.0	96.0	10.0	38.0	51.0	11.0	TFAF	?	A
VA00559	183.90	184.00	22.0	269.0	211.0	15.0	16.0	19.0	172.0	107.0	15.0	TMBF	?	A
VA00560	247.80	247.90	30.0	484.0	93.0	<10.0	<10.0	<10.0	161.0	476.0	233.0	PM	?	A

Hole No. CH88-40 WHOLE ROCKS SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00561	266.40	266.50	13.0	348.0	574.0	<10.0	<10.0	18.0	39.0	61.0	33.0	IMA	?	A

Hole No. CH88-40 WHOLE ROCKS SAMPLES

Page No.

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.

Hole No. CH88-40 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA01019	23.00	36.30	47.0	180.0	1170.0	26.0	105.0	16.0	15.0	18.0	<10.0	TFAQ		A
VA01020	69.20	79.00			1300.0				36.0	79.0	10.0	VFBF		DCP
VA01021	79.00	87.50			1610.0				33.0	29.0	12.0	TFAD		DBP
VA01022	88.00	95.00			1080.0				31.0	26.0	11.0	VFBF		A
VA01023	101.50	111.60			740.0				78.0	20.0	<10.0	VFBF		A
VA01024	112.00	126.00			1630.0				21.0	28.0	13.0	TF		A
VA01025	135.00	155.60			351.0				93.0	131.0	16.0	TMCF		A
VA01026	156.40	170.00			1350.0				394.0	83.0	29.0	TFA		DBP
VA01027	182.80	191.80			496.0				520.0	99.0	31.0	TMBF		A
VA01028	191.80	199.30			1170.0				63.0	33.0	12.0	TFAD		A
VA01029	210.00	230.00			1670.0				211.0	472.0	13.0	TFAQ		DCP
VA01030	230.00	245.00			3240.0				232.0	754.0	<10.0	TFAQ		DCP
VA01031	263.00	281.00			359.0				156.0	52.0	51.0	TM		A

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.

Hole No. CH88-40

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

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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
.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.

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)
		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											

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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.												

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)

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

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From (m)	To (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
			VA03350	108.0	108.7	.7	4	633	118	507	3	104	5340
			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
			VA03355	113.3	114.3	1.0	1	28	12	64	<1	9	1290
			VA03356	128.0	128.5	.5	3	17	10	290	1	37	950
			VA03357	129.8	130.8	1.0	3	19	10	58	<1	15	1070
			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
			VA03359	132.0	133.0	1.0	3	88	7	67	1	24	1140
			VA03360	133.0	134.0	1.0	2	16	8	37	<1	5	1150
			VA03361	134.0	135.0	1.0	2	14	9	47	<1	<5	1050
			VA03362	135.0	136.0	1.0	2	14	9	80	1	7	1070
			VA03363	136.0	136.0	.0	2	14	6	51	<1	29	1220
			VA03364	137.0	138.0	1.0	1	19	9	56	1	25	1090
			VA03365	140.0	141.0	1.0	2	17	<5	88	1	26	1090
			VA03366	141.0	142.0	1.0	2	18	6	130	<1	26	1210
			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
			VA03369	144.0	145.0	1.0	2	21	9	58	1	40	1010
		STRUCTURE:. 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. At 107.6 m 0.5 cm fault gouge at 60 degrees to core axis. 108.7 - 109.3 m FAULT ZONE at 50-60 degrees to core axis. At 110.1 m bedding is at 70 degrees to core axis. At 111.6 m FAULT ZONE at 50 degrees to core axis. 0.4 m of lost core. At 112.8 m 1.0 cm fault gouge at 70 degrees to core axis. 117.4-118.0 m 10.0 cm FAULT ZONE at 50 degrees to core axis At 120.5 m foliation is at 47 degrees to core axis. Bedding is at 40 degrees to core axis at 120.9 m. 5.0 Cm fault gouge at 75 degrees to core axis at 129.8 m. At 103.0 m 10 cm fault at 40 degrees to core axis. Foliation is at 65 degrees to core axis at 134.2 m. Foliation is at 66 degrees to core axis at 140.6 m. FAULT ZONE at 55 degrees to core axis between 141.0 and 141.3 m. Bedding is at 50 degrees to core axis at 147.9 m.												

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 | Page Number 6

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.											

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-41 Page Number 8

From (m)	To (m)	DESCRIPTION
		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.

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)
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.	VA03389	268.0	269.0	1.0	2	13	<5	30	<1	14	1000
			VA03390	269.0	270.3	1.3	2	19	6	36	<1	10	960
			VA03391	270.3	271.4	1.1	2	10	<5	20	<1	25	1000
		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.											

From (m)	To (m)	DESCRIPTION
		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.
		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

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

From (m)	To (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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	ALT	MIN
VA02271	11.00	11.40	28.0	333.0	130.0	25.0	89.0	21.0	250.0	79.0	45.0			
VA02272	56.80	57.00	88.0	<10.0	2200.0	19.0	109.0	15.0	59.0	<10.0	<10.0	IFAT	PSM	A
VA02273	66.50	66.70	52.0	333.0	1210.0	<10.0	112.0	<10.0	50.0	<10.0	<10.0	IFAT	PHW	A
VA02274	73.60	73.80	58.0	172.0	2010.0	<10.0	95.0	18.0	48.0	11.0	<10.0	IFAFQY	PSM	A
VA02275	92.60	93.00	58.0	74.0	927.0	<10.0	115.0	14.0	27.0	53.0	<10.0	IFAFQY	PSM	DBP
VA02277	99.20	99.60	10.0	226.0	139.0	11.0	77.0	24.0	158.0	91.0	77.0	PMAT	PHW	A
VA02276	106.20	106.40	62.0	52.0	1290.0	25.0	104.0	<10.0	67.0	135.0	14.0	PMAT	PHW	A
VA02278	126.40	126.70	48.0	157.0	1070.0	31.0	105.0	<10.0	56.0	65.0	<10.0	IFAT	PHW	DBP
VA02279	144.50	144.90	54.0	41.0	1020.0	40.0	126.0	13.0	53.0	66.0	<10.0	IFAT	PHW	DCP
VA02280	171.30	171.60	46.0	85.0	987.0	37.0	121.0	12.0	75.0	40.0	<10.0	IFBT	PHW	DPP
VA02281	184.20	184.60	59.0	70.0	1150.0	38.0	109.0	<10.0	60.0	73.0	10.0	IFBT	PHW	DBP
VA02282	192.60	192.80	42.0	88.0	987.0	38.0	117.0	13.0	56.0	54.0	<10.0	D	T	P
VA02283	202.00	202.20	74.0	55.0	1290.0	<10.0	85.0	12.0	38.0	33.0	<10.0	IFBQT	PHW	DCP
VA02284	219.40	219.70	48.0	52.0	1040.0	19.0	104.0	11.0	30.0	32.0	<10.0	IFBQT	PPW	DBP
VA02285	231.80	232.00	50.0	31.0	929.0	13.0	98.0	<10.0	29.0	53.0	<10.0	IFBT	PHW	DPP
VA02286	255.00	255.20	62.0	94.0	1150.0	17.0	105.0	19.0	21.0	18.0	<10.0	IFBT	PHW	DPP
VA02287	260.00	260.20	42.0	97.0	917.0	21.0	85.0	13.0	68.0	30.0	14.0	IFBQT	PHW	A
VA02288	274.60	274.80	19.0	171.0	140.0	33.0	46.0	15.0	91.0	76.0	16.0	IMAT	PCW	A
VA02289	295.60	295.80	26.0	127.0	379.0	18.0	40.0	<10.0	52.0	59.0	21.0	IMAT	PCW	A
VA02290	310.80	311.00	40.0	295.0	871.0	18.0	89.0	28.0	25.0	44.0	17.0	IMAT	PCM	A
VA02291	333.00	333.20	29.0	402.0	718.0	22.0	82.0	<10.0	35.0	207.0	20.0	IMAT	PHS	A

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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02768	55.60	75.00			1700.0				346.0	21.0	13.0	TFAT	PHW	DBP
VA02769	75.00	98.90			1190.0				49.0	49.0	<10.0	TFAFQY	PHW	DBP
VA02770	101.80	131.00			1460.0				72.0	81.0	<10.0	TFAT	?	DBP
VA02771	131.00	163.90			1180.0				104.0	38.0	<10.0	TFAT	?	DBP
VA02772	165.00	188.00			1200.0				42.0	54.0	<10.0	TFBT	PHW	DBP
VA02773	188.00	210.50			1310.0				44.0	177.0	<10.0	TFBT	PHW	DBP
VA02774	210.50	226.20			1190.0				87.0	48.0	<10.0	TFAQY	PHW	DBP
VA02775	226.20	257.80			1020.0				54.0	40.0	<10.0	TFBT	PHW	DBP
VA02776	257.80	272.00			1340.0				77.0	11.0	<10.0	TFBT	PHM	DBP
VA02777	272.00	295.00			245.0				68.0	67.0	19.0	TMAT	FCM	A
VA02778	295.00	320.00			307.0				76.0	70.0	75.0	0	FCM	A
VA02779	320.00	346.30			754.0				80.0	150.0	83.0	TMAT	FCM	A

Hole No. CH88-41 ALTERATION SAMPLES

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
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	2.0	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	EIS	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	EIS	EE
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.											

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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											

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DIAMOND DRILL LOG

HOLE No: ch88-42 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)
		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%.											

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
VA00562	14.10	14.20	73.70	13.90	1.85	1.02	2.17	3.65	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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00562	14.10	14.20	56.0	110.0	1380.0	25.0	91.0	<10.0	49.0	12.0	<10.0	TFA0	?	A
VA00563	32.40	32.50	38.0	237.0	2880.0	15.0	89.0	<10.0	28.0	<10.0	<10.0	TFA0	?	A
VA00564	38.00	38.10	30.0	89.0	598.0	17.0	92.0	11.0	12.0	<10.0	<10.0	TFA0	?	A
VA00565	81.00	81.10	68.0	82.0	218.0	68.0	232.0	44.0	51.0	156.0	<10.0	SA	?	DBP
VA00566	99.50	99.60	13.0	104.0	493.0	152.0	535.0	62.0	33.0	60.0	<10.0	TFA	?	A

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
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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01032	29.00	40.00			1890.0				49.0	24.0	17.0	IFAQ		A

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
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

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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											

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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)
		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.											

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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)
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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-43

From (m)	To (m)	DESCRIPTION
		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.

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)
	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.											

From (m)	To (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

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From (m)	To (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.											

From (m)	To (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.											
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.	VA03399	219.8	220.8	1.0	1	121	<5	78	<1	29	60
		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.											

From (m)	To (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 VA03400 VA03401	220.8 220.8 221.8	222.5 221.8 222.5	1.7 1.0 .7	n/a 5 5	158 108 123	n/a <5 <5	74 59 57	n/a <1 <1	n/a 37 50	337 380 370
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. 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.	VA02790 VA03402 VA03403 VA03404	222.5 222.5 225.0 225.9	232.1 223.5 225.9 227.0	9.6 1.0 .9 1.1	n/a 1 1 1	121 120 114 89	n/a <5 <5 <5	76 116 77 108	n/a <1 <1 <1	n/a 8 11 10	196 300 620 510
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 VA03405	232.1 237.0	269.8 237.5	37.7 .5	n/a 1	30 44	n/a <5	27 107	n/a <1	n/a 13	1040 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.											

From (m)	To (m)	DESCRIPTION
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. 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.

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

From (m)	To (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

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

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From (m)	To (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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	ALT	MIN
VA02271	11.00	11.40	28.0	223.0	130.0	25.0	83.0	21.0	250.0	79.0	45.0			
VA02272	56.80	57.00	88.0	<10.0	2200.0	19.0	109.0	15.0	59.0	<10.0	<10.0	TFAT	PSM	A
VA02273	66.50	66.70	52.0	232.0	1310.0	<10.0	112.0	<10.0	50.0	<10.0	<10.0	TFAT	PHW	A
VA02274	73.60	73.80	58.0	177.0	2010.0	<10.0	95.0	18.0	48.0	11.0	<10.0	TFAFQY	PSM	A
VA02275	92.60	93.00	58.0	74.0	927.0	<10.0	115.0	14.0	27.0	53.0	<10.0	TFAFQY	PSM	DBP
VA02277	99.20	99.40	13.0	224.0	139.0	11.0	77.0	24.0	155.0	91.0	77.0	PMAT	PHW	A
VA02276	106.20	106.40	63.0	52.0	1290.0	25.0	104.0	<10.0	67.0	135.0	14.0	PMAT	PHW	A
VA02278	126.40	126.70	49.0	137.0	1070.0	31.0	105.0	<10.0	50.0	65.0	<10.0	TFAT	PHW	DBP
VA02279	144.50	144.90	54.0	41.0	1020.0	40.0	126.0	13.0	52.0	56.0	<10.0	TFAT	PHW	DCP
VA02280	171.30	171.60	46.0	55.0	887.0	37.0	121.0	12.0	75.0	40.0	<10.0	TFBT	PHW	DBP
VA02281	184.20	184.60	69.0	70.0	1150.0	28.0	109.0	<10.0	60.0	72.0	<10.0	TFBT	PHW	DBP
VA02282	192.60	192.80	42.0	88.0	987.0	38.0	117.0	13.0	55.0	54.0	<10.0	0	?	A
VA02283	202.00	202.30	74.0	58.0	1290.0	<10.0	85.0	13.0	36.0	23.0	<10.0	TFBQT	PHW	DCP
VA02284	219.40	219.70	49.0	82.0	1040.0	19.0	104.0	11.0	30.0	32.0	<10.0	TFBQT	PHW	DBP
VA02285	231.80	232.00	57.0	81.0	829.0	12.0	98.0	<10.0	39.0	53.0	<10.0	TFBT	PHW	DBP
VA02286	255.00	255.20	62.0	84.0	1130.0	17.0	105.0	19.0	21.0	18.0	<10.0	TFBT	PHW	DBP
VA02287	260.00	260.30	42.0	97.0	917.0	21.0	85.0	13.0	63.0	30.0	14.0	TFBQT	PHM	A
VA02288	274.60	274.80	19.0	175.0	280.0	33.0	46.0	15.0	31.0	76.0	16.0	TMAT	PCM	A
VA02289	295.60	295.80	26.0	177.0	279.0	18.0	40.0	<10.0	52.0	59.0	21.0	TMAT	PCW	A
VA02290	310.80	311.00	40.0	235.0	371.0	18.0	89.0	28.0	25.0	44.0	17.0	TMAT	PCM	A
VA02291	323.00	323.20	29.0	403.0	718.0	23.0	32.0	<10.0	38.0	207.0	20.0	TMAT	PHS	A

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	ALT	MIN
VA02292	18.20	18.40	60.0	87.0	1430.0	25.0	116.0	<10.0	<10.0	18.0	11.0	TFPT	SHW	DCP
VA02293	50.70	50.80	24.0	149.0	230.0	13.0	41.0	25.0	88.0	88.0	41.0	TMAT	FCM	AA
VA02294	67.10	67.90	24.0	259.0	211.0	16.0	38.0	17.0	33.0	57.0	17.0	TMAT	FCM	AA
VA02295	88.10	88.40	62.0	294.0	1210.0	<10.0	83.0	<10.0	17.0	159.0	12.0	TFAQY	PHW	AA
VA02296	103.00	103.40	67.0	245.0	1170.0	<10.0	101.0	16.0	34.0	38.0	<10.0	TFAQY	PHW	AA
VA02297	116.30	116.60	60.0	137.0	1010.0	<10.0	67.0	<10.0	40.0	43.0	<10.0	TFBQY	PHW	DBP
VA02298	142.30	142.60	82.0	273.0	320.0	25.0	40.0	14.0	62.0	152.0	25.0	TMAT	?	AA
VA02299	149.00	149.30	107.0	145.0	663.0	<10.0	29.0	15.0	198.0	143.0	42.0	TMAT	?	AA
VA02300	159.40	159.70	98.0	101.0	1820.0	23.0	144.0	<10.0	63.0	37.0	18.0	TMAT	?	AA
VA02301	172.40	172.50	17.0	194.0	159.0	15.0	19.0	19.0	188.0	121.0	66.0	TMAT	?	AA
VA02302	180.60	180.70	60.0	100.0	1420.0	<10.0	72.0	14.0	36.0	11.0	<10.0	TFAQY	PHW	AA
VA02303	216.40	216.70	20.0	240.0	92.0	<10.0	12.0	<10.0	52.0	36.0	137.0	TMAT	PCS	AA
VA02304	236.00	236.40	74.0	151.0	1250.0	23.0	89.0	<10.0	51.0	30.0	<10.0	TFAQ	PHW	AA
VA02305	254.00	254.20	63.0	194.0	796.0	14.0	91.0	19.0	22.0	25.0	<10.0	TFAQ	PHW	AA
VA02306	300.00	300.30	77.0	52.0	1720.0	20.0	99.0	<10.0	42.0	38.0	<10.0	TFB	PHW	AA
VA02307	314.00	314.30	43.0	136.0	863.0	<10.0	54.0	<10.0	29.0	21.0	<10.0	TFB	PHW	AA
VA02308	322.20	322.70	56.0	154.0	1210.0	14.0	89.0	16.0	18.0	57.0	<10.0	TFBFQY	PHW	AA
VA02309	337.00	337.40	59.0	134.0	1130.0	<10.0	111.0	19.0	19.0	28.0	<10.0	TFBFQY	PHW	AA
VA02310	347.60	347.90	61.0	141.0	1190.0	<10.0	94.0	12.0	30.0	133.0	<10.0	TFA	PHW	DBP
VA02311	361.50	361.90	47.0	147.0	1370.0	14.0	71.0	10.0	<10.0	32.0	<10.0	TFAQT	PHW	DCP
VA02312	375.00	375.40	49.0	277.0	1070.0	<10.0	88.0	17.0	17.0	75.0	<10.0	TFBQT	PHW	DBP

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	3.40	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	3.58	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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02780	15.70	45.30			1040.0				48.0	<10.0	<10.0	TFAT	PHW	AA
VA02781	45.30	65.00			249.0				159.0	63.0	31.0	TMAT	PHM	DBP
VA02782	65.00	85.50			337.0				113.0	64.0	47.0	TMAT	ECM	DBP
VA02783	85.50	115.00			1120.0				30.0	53.0	<10.0	TFAQY	PHW	DBP
VA02784	115.00	135.90			907.0				51.0	34.0	14.0	TFAQY	PHW	DBP
VA02785	135.90	162.90			180.0				155.0	85.0	105.0	TMBT	ECM	AA
VA02786	162.90	173.50			334.0				116.0	93.0	86.0	TMBT	ECM	AA
VA02787	173.50	196.00			936.0				33.0	54.0	<10.0	TFBQ	PHW	AA
VA02788	196.00	220.80			263.0				122.0	56.0	90.0	TMBT	PCS	DBP
VA02789	220.80	222.50			337.0				158.0	74.0	226.0	TIAT	PEM	DDP
VA02790	222.50	232.10			196.0				121.0	76.0	168.0	TMAT	PCM	DBP
VA02791	232.10	269.80			1040.0				30.0	27.0	<10.0	TFAQ	PHW	AA
VA02792	291.80	321.00			988.0				60.0	30.0	10.0			
VA02793	321.00	351.00			1040.0				17.0	73.0	<10.0			
VA02794	351.00	371.00			1040.0				30.0	57.0	<10.0			
VA02795	371.00	391.40			963.0				20.0	59.0	<10.0			

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
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	24.0	<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	29.0	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	33.0	<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
.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

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
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	67.0	68.0	1.0	1	118	<5	103	<1	<5	830
			VA03433	68.0	69.0	1.0	1	101	5	103	<1	<5	1200
			VA03434	69.0	70.0	1.0	1	87	8	83	1	14	1800
			VA03435	70.0	71.0	1.0	1	132	<5	104	1	<5	2300
			VA03436	71.0	72.0	1.0	1	76	18	72	<1	<5	1800
			VA03437	72.0	72.5	.5	1	125	116	92	1	194	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

From (m)	To (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	132.1	137.2	5.1	n/a	76	n/a	82	n/a	n/a	418
			VA03447	132.1	133.1	1.0	0	90	<5	68	1	7	1300
			VA03448	136.2	137.2	1.0	0	91	<5	60	1	<5	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	137.2	138.2	1.0	4	59	12	105	1	<5	4000
			VA03450	138.2	139.3	1.1	4	40	13	100	1	<5	6600
			VA03451	139.3	140.4	1.1	4	33	11	85	1	7	3500
			VA03452	140.4	141.4	1.0	4	22	8	87	1	12	2800
			VA03453	141.4	142.4	1.0	4	33	10	140	1	<5	2400
142.4	144.0	WEAKLY CHLORITIC FELSIC TUFF											

PROPERTY: Chemainus JV

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)
		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
		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
		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.	VA03471	162.3	162.8	.5	5	19	<5	69	<1	144	4100
		1.7 m of lost core.	VA03472	162.8	163.8	1.0	5	21	7	71	1	<5	2700
		155.1-159.1 M FAULT ZONE at 20-45 degrees to core axis.	VA03473	163.8	164.8	1.0	5	20	5	77	1	<5	3000
		2.0 m of lost core. Moderately to strongly graphitic.	VA03474	164.8	165.8	1.0	5	20	<5	71	1	<5	2400
		At 161.5 m bedding is at 50 degrees to core axis.	VA03475	165.8	166.8	1.0	5	29	7	96	1	<5	3800
		162.3-162.8 M FAULT ZONE at 60 degrees to core axis. Rock is very broken and blocky over entire interval.	VA03476	166.8	167.8	1.0	5	18	6	86	1	<5	3000

From (m)	To (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. 169.6-172.5 M FAULT ZONE at 20-40 degrees to core axis. Moderately graphitic. 0.6 m of lost core. At 174.0 m bedding is at 15 degrees to core axis. ALTERATION:. 150.3 176.2 WEAK FRACTURE CONTROLLED CARBONATIZATION. 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.	VA03477	167.8	168.8	1.0	5	17	5	65	1	7	2400
			VA03478	168.8	170.4	1.6	5	37	7	114	1	5	3100
			VA03479	170.4	172.5	2.1	5	34	10	101	1	<5	2200
			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
			VA03482	174.5	175.5	1.0	5	24	8	101	1	6	3200
			VA03483	175.5	176.2	.7	5	20	9	53	1	13	2600
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. 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.	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
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

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
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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02313	28.30	28.70	13.0	281.0	104.0	23.0	52.0	22.0	199.0	127.0	120.0	PMAFM	?	AA
VA02314	32.10	32.30	28.0	522.0	75.0	15.0	<10.0	12.0	231.0	89.0	43.0	VMAM	PHW	AA
VA02315	54.40	54.70	22.0	273.0	226.0	26.0	<10.0	13.0	18.0	89.0	39.0	VMAM	PSW	AA
VA02316	62.70	63.00	48.0	317.0	1020.0	<10.0	<10.0	21.0	92.0	76.0	105.0	TMAT	?	AA
VA02317	73.00	73.50	38.0	200.0	341.0	12.0	91.0	32.0	199.0	126.0	99.0	PMAFM	?	AA
VA02318	101.40	101.60	34.0	129.0	463.0	31.0	60.0	<10.0	151.0	149.0	135.0	TMAM	PHW	FBP

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
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	19.60	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	9.98	6.91	2.13	1.37	11.60	1.98			3.47	97.24	2430.	41.	12.

Hole No. CH88-44 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02796	30.30	57.70			121.0				148.0	59.0	35.0	VMAM	SEW	A
VA02797	57.70	72.50			1290.0				85.0	120.0	59.0	IMAT	?	EBP
VA02798	92.80	110.10			1080.0				34.0	66.0	32.0	IMAT	?	EBP
VA02799	127.70	132.10			4750.0				23.0	80.0	22.0	IFAB	?	A
VA02800	132.10	137.20			418.0				76.0	82.0	65.0	IMAT	ECW	A
VA02801	142.40	144.00			99.0				52.0	125.0	252.0	IFAM	PHW	A
VA02802	144.00	149.10			2430.0				57.0	148.0	131.0	IMAT	PMM	A

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	ETS	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

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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)
		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.											

From (m)	To (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

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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
		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.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA01051	225.0	240.0	15.0	n/a	29	n/a	71	n/a	n/a	681
VA01052	240.0	250.0	10.0	n/a	25	n/a	99	n/a	n/a	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.											

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From (m)	To (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

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	374.5	376.0	1.5	2	65	28	108	1	22	1800
			VA01648	376.0	378.0	2.0	2	96	20	2734	1	18	2400
			VA01649	378.0	380.0	2.0	2	170	<5	3200	1	19	2900
			VA01650	380.0	382.3	2.3	2	93	7	397	<1	14	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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00575	9.10	9.20	67.0	196.0	943.0	<10.0	87.0	17.0	30.0	30.0	11.0	TFAD	?	AA
VA00576	22.70	22.80	31.0	495.0	444.0	28.0	18.0	<10.0	<10.0	135.0	154.0	TMA	PCS	DBP
VA00577	28.30	28.40	50.0	168.0	1070.0	11.0	96.0	14.0	24.0	13.0	<10.0	TFAD	?	DBP
VA00578	41.40	41.50	38.0	240.0	1350.0	<10.0	92.0	<10.0	43.0	23.0	<10.0	TFAD	?	AA
VA00579	53.60	53.70	52.0	223.0	1010.0	<10.0	95.0	<10.0	<10.0	<10.0	<10.0	TFAD	?	AA
VA00580	59.10	59.20	33.0	180.0	876.0	27.0	73.0	11.0	30.0	19.0	<10.0	TFAD	?	DBP
VA00581	68.30	68.40	51.0	205.0	698.0	28.0	104.0	22.0	60.0	139.0	19.0	TMA	PCS	DBP
VA00582	75.70	75.80	55.0	130.0	945.0	<10.0	94.0	<10.0	31.0	<10.0	<10.0	TFAD	?	AA
VA00583	86.50	86.60	60.0	445.0	1120.0	14.0	73.0	<10.0	15.0	19.0	<10.0	TFAD	?	AA
VA00584	97.00	97.10	15.0	181.0	82.0	<10.0	<10.0	<10.0	203.0	80.0	67.0	TMA	PCS	DBP
VA00585	103.40	103.50	49.0	199.0	873.0	23.0	95.0	15.0	33.0	34.0	<10.0	TFAD	?	AA
VA00586	111.20	111.30	39.0	494.0	641.0	19.0	72.0	12.0	20.0	18.0	<10.0	TFAD	?	AA
VA00587	122.10	122.20	42.0	189.0	941.0	35.0	78.0	<10.0	43.0	23.0	13.0	TFAD	?	AA
VA00588	132.10	132.20	61.0	244.0	1070.0	14.0	101.0	<10.0	<10.0	21.0	<10.0	TFAD	?	AA
VA00589	141.20	141.30	56.0	287.0	1060.0	35.0	97.0	18.0	12.0	14.0	<10.0	TFAD	?	AA
VA00590	150.90	151.00	67.0	119.0	1280.0	11.0	111.0	14.0	19.0	<10.0	<10.0	TFAD	?	AA
VA00591	157.10	157.20	36.0	130.0	648.0	31.0	70.0	19.0	28.0	41.0	<10.0	TIAD	PCM	AA
VA00592	171.10	171.20	31.0	198.0	720.0	11.0	68.0	21.0	22.0	72.0	<10.0	TIAD	PCW	AA
VA00593	174.10	174.20	43.0	147.0	665.0	20.0	76.0	<10.0	65.0	112.0	10.0	TFAD	?	DBP
VA00594	185.40	185.50	56.0	98.0	879.0	<10.0	99.0	10.0	18.0	43.0	<10.0	TFAD	?	DBP
VA00595	194.20	194.30	34.0	142.0	954.0	17.0	109.0	19.0	25.0	45.0	<10.0	TFAD	?	DBP
VA00596	212.60	212.70	53.0	242.0	656.0	<10.0	90.0	15.0	21.0	109.0	<10.0	TFAD	?	DBP

Hole No. CH88-45 WHOLE ROCKS SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00597	218.90	219.00	85.0	153.0	1020.0	36.0	68.0	11.0	36.0	399.0	12.0	IMA	PCS	DBP
VA00598	228.60	228.70	37.0	200.0	490.0	20.0	118.0	17.0	20.0	124.0	<10.0	VFAD	?	DBP
VA00599	232.30	232.40	49.0	193.0	848.0	23.0	120.0	<10.0	20.0	77.0	<10.0	VFAD	?	DBP
VA00600	249.80	249.90	77.0	66.0	1040.0	24.0	92.0	<10.0	21.0	94.0	<10.0	VFAD	?	DBP
VA00601	261.50	261.60	46.0	28.0	1020.0	42.0	98.0	<10.0	22.0	73.0	<10.0	TFAD	?	DBP
VA00602	269.70	269.80	57.0	55.0	810.0	<10.0	31.0	<10.0	56.0	305.0	35.0	TMA	PCS	DBP
VA00603	274.90	275.00	36.0	194.0	1980.0	<10.0	75.0	13.0	16.0	65.0	<10.0	TMC	PCS	DCP
VA00604	283.70	283.80	23.0	232.0	1280.0	16.0	30.0	14.0	26.0	189.0	33.0	TMC	PCS	DCP
VA00605	298.90	299.00	56.0	245.0	500.0	26.0	160.0	39.0	35.0	155.0	105.0	TMA	PCS	AA
VA00606	304.40	304.50	57.0	132.0	750.0	26.0	157.0	19.0	19.0	84.0	<10.0	TFAD	PHS	AA
VA00607	316.90	317.00	53.0	221.0	1210.0	42.0	170.0	21.0	20.0	72.0	<10.0	TFAD	PHS	AA
VA00608	321.00	321.00	34.0	254.0	635.0	17.0	112.0	18.0	26.0	33.0	<10.0	PFAD	FQW	AA
VA00609	329.10	329.20	42.0	198.0	893.0	20.0	133.0	<10.0	12.0	61.0	<10.0	TFAD	?	AA
VA00610	340.60	340.70	75.0	184.0	1150.0	39.0	180.0	15.0	68.0	73.0	12.0	TIA	?	AA
VA00611	348.20	348.30	<10.0	202.0	126.0	29.0	105.0	21.0	76.0	135.0	113.0	PMA	PCM	AA
VA00612	352.00	352.10	48.0	142.0	1380.0	18.0	104.0	16.0	41.0	93.0	<10.0	TFA	FQM	DBP
VA00613	366.60	366.70	15.0	254.0	89.0	34.0	139.0	28.0	46.0	118.0	22.0	TMA	?	DBP
VA00614	370.80	370.90	39.0	240.0	1670.0	12.0	93.0	10.0	71.0	86.0	<10.0	TFA	?	DCP
VA00615	381.10	381.20	60.0	89.0	2750.0	14.0	92.0	19.0	44.0	71.0	<10.0	TFAQ	?	DBP

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	2.37	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.

Hole No. CH88-45 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01039	5.10	14.20			903.0				41.0	95.0	22.0	TFAD	?	AA
VA01040	15.00	35.00			997.0				24.0	16.0	<10.0	TFAD	?	DBP
VA01041	35.00	55.00			1160.0				27.0	34.0	11.0	TFAD	?	DBP
VA01042	60.00	63.00			1360.0				31.0	16.0	<10.0	TFAD	?	DBP
VA01043	65.00	85.00			992.0				<10.0	<10.0	<10.0	TFAD	?	AA
VA01044	85.00	105.00			1290.0				22.0	30.0	<10.0	TFAD	?	AA
VA01045	105.00	125.00			1030.0				15.0	27.0	<10.0	TFAD	?	AA
VA01046	125.00	150.00			1190.0				30.0	29.0	<10.0	TFAD	?	AA
VA01047	160.00	170.00			702.0				34.0	59.0	<10.0	TIAD	PCW	AA
VA01048	180.40	185.60			825.0				14.0	46.0	<10.0	TFAD	?	AA
VA01049	187.00	196.00			734.0				17.0	47.0	<10.0	TFAD	?	DBP
VA01050	205.00	215.00			886.0				44.0	310.0	<10.0	TFAD	?	AA
VA01051	225.00	240.00			681.0				29.0	71.0	<10.0	TFAD	?	DBP
VA01052	240.00	250.00			993.0				25.0	99.0	<10.0	TFAD	?	DBP
VA01053	255.00	265.00			939.0				33.0	90.0	<10.0	TFAD	?	DBP
VA01054	272.00	287.00			850.0				20.0	98.0	11.0	TMC	PCS	DCP
VA01055	300.00	309.60			663.0				40.0	72.0	<10.0	TFAD	PHS	AA
VA01056	309.60	313.20			986.0				16.0	54.0	<10.0	TFAD	?	AA
VA01057	314.00	338.00			966.0				25.0	66.0	<10.0	TFAD	?	AA
VA01058	350.50	358.80			1930.0				78.0	323.0	<10.0	TFA	FQM	DBP
VA01059	370.00	382.00			2290.0				129.0	507.0	<10.0	TFA	?	DCP

Hole No. CH88-45 ALTERATION SAMPLES

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
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.	3.
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	EIS	FE
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

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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

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DIAMOND DRILL LOG

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From (m)	To (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	VA02806	91.5	109.3	17.8	n/a	25	n/a	33	n/a	n/a	1560
		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.	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

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From (m)	To (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											

From (m)	To (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

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From (m)	To (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:.											

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FALCONBRIDGE LIMITED
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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)
		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.	VA02811	208.2	219.2	11.0	n/a	83	n/a	112	n/a	n/a	863
		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.											
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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02319	34.60	34.90	96.0	68.0	1750.0	11.0	113.0	10.0	17.0	66.0	<10.0	TFBT	SHW	A
VA02320	47.00	47.20	69.0	151.0	1050.0	<10.0	105.0	19.0	13.0	49.0	10.0	TFBT	SHM	A
VA02321	57.10	57.50	83.0	72.0	1120.0	<10.0	92.0	<10.0	37.0	42.0	<10.0	TFBT	PSM	DCP
VA02322	71.20	71.50	53.0	162.0	1190.0	<10.0	115.0	<10.0	62.0	72.0	<10.0	TFBT	PSM	DDP
VA02323	86.60	86.70	44.0	391.0	1730.0	<10.0	114.0	17.0	50.0	37.0	<10.0	TFBT	PSM	DCP
VA02324	96.30	96.60	32.0	313.0	1220.0	16.0	88.0	16.0	43.0	28.0	<10.0	TFAFY	PSW	DCP
VA02325	118.40	118.70	65.0	128.0	4720.0	<10.0	90.0	<10.0	515.0	1210.0	<10.0	TFBT	PSW	DCP
VA02326	123.20	123.50	14.0	234.0	148.0	14.0	<10.0	15.0	105.0	82.0	412.0	VMAM	PHW	A
VA02327	143.80	144.50	<10.0	118.0	153.0	34.0	90.0	15.0	137.0	119.0	105.0	TMAM	PHM	A
VA02328	157.30	157.50	29.0	207.0	434.0	26.0	19.0	28.0	57.0	108.0	37.0	TMAM	PHW	A
VA02329	168.30	168.60	15.0	345.0	169.0	23.0	<10.0	11.0	143.0	75.0	52.0	TMAM	ECW	A
VA02330	178.00	178.30	26.0	165.0	120.0	13.0	<10.0	<10.0	105.0	70.0	73.0	VMAM	PEW	A
VA02331	187.00	187.30	<10.0	293.0	130.0	15.0	<10.0	<10.0	106.0	76.0	54.0	VMAM	PEW	A
VA02332	200.70	200.90	16.0	410.0	99.0	19.0	<10.0	12.0	139.0	82.0	52.0	VMAM	PHW	A
VA02333	211.80	212.00	24.0	302.0	539.0	13.0	<10.0	13.0	76.0	113.0	51.0	TMAT	PHW	A
VA02334	225.00	225.40	10.0	278.0	443.0	38.0	25.0	17.0	117.0	95.0	49.0	TMAT	PHW	A
VA02335	246.10	246.30	21.0	196.0	511.0	20.0	57.0	<10.0	87.0	201.0	43.0	TMAT	ECW	A

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
VA02803	33.20	54.90	66.60	14.30	3.15	1.77	1.84	3.87	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	3.13	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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02803	33.20	54.90			1210.0				46.0	60.0	<10.0	TFBT	SHM	DBP
VA02804	54.90	74.90			1720.0				45.0	55.0	<10.0	TFBT	PSM	DCP
VA02805	74.90	91.50			2020.0				60.0	47.0	<10.0	TFBT	PSM	DDP
VA02806	91.50	109.30			1560.0				25.0	33.0	<10.0	TFBFY	PSW	DCP
VA02807	113.10	122.50			2540.0				387.0	886.0	19.0	TFBT	PSS	DDP
VA02808	122.50	139.60			225.0				88.0	126.0	396.0	VMAM	PHW	A
VA02809	139.60	168.90			223.0				97.0	63.0	29.0	TMAM	SEM	DBP
VA02810	168.90	208.20			218.0				58.0	69.0	57.0	VMAM	SEW	DBP
VA02811	208.20	219.20			883.0				83.0	112.0	29.0	TMAT	PHW	DBP
VA02812	219.20	239.00			799.0				107.0	137.0	66.0	TMABT	?	FBP
VA02813	239.00	253.10			1370.0				88.0	112.0	53.0	TMABT	?	FBP

Hole No. CH88-46 ALTERATION SAMPLES

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
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.

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
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	PE
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	26.0	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.

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	139.0	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

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-47 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)
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

From (m)	To (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.	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
		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.											
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.	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
		STRUCTURE:.	VA03621	199.5	200.5	1.0	3	31	8	116	1	7	1800
		At 193.7 m bedding is at 67 degrees to core axis.	VA03622	200.5	201.5	1.0	3	32	8	114	1	64	2900
		At 194.0 m 0.5 cm graphitic fault gouge at 30 degrees to core axis.	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
		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.											
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

From (m)	To (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.											

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

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From (m)	To (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	215.2	216.2	1.0	3	27	7	79	<1	<5	3300
			VA03631	216.2	217.2	1.0	3	40	7	86	1	<5	2000
			VA03632	217.2	218.2	1.0	3	54	9	105	1	<5	1600
			VA03633	218.2	219.2	1.0	3	141	41	247	1	9	2200
			VA03634	219.2	220.2	1.0	3	53	8	105	1	<5	2300
			VA03635	220.2	221.2	1.0	3	37	6	75	1	<5	2000
			VA03636	221.2	222.0	.8	3	36	<5	84	<1	<5	1500
			VA03637	222.0	223.0	1.0	3	46	8	81	1	<5	2100
			VA03638	223.0	224.0	1.0	3	40	6	85	1	<5	2200
			VA03639	224.0	225.0	1.0	3	46	7	91	1	5	1500
			VA03640	225.0	226.0	1.0	3	48	7	152	1	<5	1300
			VA03641	226.0	227.0	1.0	3	41	7	111	1	<5	1200
			VA03642	227.0	228.0	1.0	3	32	7	93	1	<5	1400
			VA03643	228.0	229.0	1.0	3	26	<5	93	<1	<5	1200
			VA03644	229.0	230.0	1.0	3	40	7	71	1	<5	1900
			VA03645	230.0	231.0	1.0	3	23	<5	92	<1	<5	1400
			VA03646	231.0	232.0	1.0	3	38	9	90	1	<5	720
			VA03647	232.0	234.0	2.0	3	33	5	92	1	<5	1900
			VA03648	234.0	236.4	2.4	3	17	7	70	<1	<5	3300
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

From (m)	To (m)	----------DESCRIPTION----------
		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.
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.

Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)
VA02822	264.0	278.0	14.0	n/a	19	n/a	128	n/a	n/a	2950

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

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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02336	15.70	15.90	<10.0	716.0	53.0	24.0	59.0	26.0	135.0	103.0	96.0	PMAT	PHW	A
VA02337	23.70	24.00	<10.0	293.0	208.0	18.0	18.0	<10.0	51.0	101.0	41.0	VMAT	PHW	A
VA02338	53.20	53.50	16.0	358.0	435.0	14.0	28.0	<10.0	35.0	101.0	38.0	VMAM	PEW	A
VA02339	64.00	64.50	10.0	347.0	93.0	<10.0	<10.0	18.0	75.0	78.0	48.0	VMAMW	PEW	A
VA02340	74.00	74.50	31.0	232.0	183.0	12.0	13.0	<10.0	53.0	96.0	47.0	VMAM	SEM	A
VA02341	86.40	86.90	19.0	173.0	149.0	41.0	87.0	11.0	26.0	51.0	15.0	TIAM	?	A
VA02342	94.50	95.00	28.0	386.0	805.0	<10.0	<10.0	11.0	101.0	177.0	40.0	TIBM	?	A
VA02343	111.00	111.30	36.0	202.0	1150.0	12.0	46.0	19.0	98.0	63.0	56.0	TIAM	PMM	A
VA02344	160.50	161.00	21.0	224.0	686.0	10.0	35.0	18.0	75.0	164.0	133.0	TMBW	?	A
VA02345	208.00	208.20	22.0	129.0	178.0	20.0	84.0	13.0	29.0	67.0	20.0	TFBM	PHW	FPP
VA02346	210.70	211.20	22.0	498.0	1940.0	19.0	92.0	72.0	21.0	101.0	185.0	VMBMW	PHW	A
VA02347	256.00	256.40	93.0	106.0	2710.0	42.0	169.0	23.0	15.0	108.0	11.0	TFAM	PSW	A
VA02348	266.00	266.40	77.0	206.0	2770.0	75.0	176.0	<10.0	19.0	95.0	<10.0	TFAM	PSW	A
VA02349	273.10	273.30	23.0	393.0	675.0	32.0	58.0	17.0	27.0	106.0	<10.0	TFBL	PSW	A
VA02350	277.00	277.40	57.0	200.0	3210.0	66.0	188.0	18.0	22.0	129.0	11.0	TFAM	PSW	A
VA02351	287.70	288.00	63.0	355.0	1970.0	47.0	165.0	<10.0	28.0	139.0	<10.0	TFBLM	PSW	A

Hole No. CH88-47 WHOLE ROCKS 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
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	3.00	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.

Hole No. CH88-47 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02814	17.30	27.70			109.0				128.0	62.0	36.0	TMAT	PHW	A
VA02815	50.50	62.50			170.0				103.0	67.0	27.0	VMAM	?	A
VA02816	62.50	79.90			182.0				41.0	87.0	44.0	VMAMW	SEW	A
VA02817	79.90	100.00			218.0				68.0	84.0	45.0	TMAB	?	EBP
VA02818	100.00	122.90			1720.0				64.0	93.0	43.0	TMAB	?	EBP
VA02819	154.80	170.80			1350.0				106.0	102.0	43.0	TMAB	?	EBP
VA02820	188.00	193.50			3130.0				115.0	74.0	28.0	TFAB	?	DCP
VA02821	247.10	260.00			2510.0				13.0	99.0	10.0	TFAB	?	DBP
VA02822	264.00	278.00			2950.0				19.0	128.0	<10.0	TFAM	?	A
VA02823	278.00	294.40			1760.0				24.0	131.0	11.0	TFALM	?	A

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
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	330.0	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.

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
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

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

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

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

From (m)	To (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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-48

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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-48

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	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01060	50.10	60.00			1700.0				201.0	82.0	<10.0	TFCD	?	A
VA00616	51.00	51.10	64.0	108.0	1690.0	19.0	107.0	17.0	26.0	68.0	<10.0	TFCD	?	A
VA00617	56.60	56.70	78.0	38.0	1680.0	15.0	101.0	15.0	304.0	35.0	<10.0	TFCD	?	BCP
VA01061	60.00	70.00			2260.0				70.0	50.0	<10.0	TFCD	?	A
VA00618	66.70	66.80	75.0	107.0	2280.0	<10.0	113.0	17.0	177.0	52.0	<10.0	TFCD	PQW	DBP
VA00619	80.00	80.10	79.0	50.0	3690.0	21.0	138.0	<10.0	89.0	64.0	<10.0	TFCD	?	DBP
VA00620	103.60	103.70	39.0	62.0	2180.0	<10.0	64.0	11.0	432.0	30.0	<10.0	TFCD	?	BCP
VA00621	111.50	111.60	19.0	113.0	225.0	29.0	97.0	17.0	225.0	124.0	106.0	PMA	?	A
VA00622	116.40	116.50	29.0	213.0	663.0	<10.0	18.0	17.0	<10.0	91.0	39.0	TMAF	?	A
VA00623	127.60	127.70	47.0	190.0	1360.0	24.0	41.0	11.0	192.0	45.0	25.0	TMAF	?	A
VA00624	130.00	130.10	10.0	287.0	83.0	11.0	11.0	<10.0	<10.0	57.0	168.0	PMB	?	A
VA00625	146.30	146.40	15.0	391.0	271.0	14.0	<10.0	<10.0	127.0	39.0	79.0	VMA	?	A
VA00626	162.20	162.30	46.0	298.0	1140.0	32.0	60.0	12.0	133.0	82.0	30.0	TIA	?	A
VA00627	175.80	175.90	28.0	395.0	507.0	<10.0	25.0	23.0	96.0	42.0	45.0	TIA	?	A
VA00628	184.80	184.90	<10.0	453.0	179.0	19.0	<10.0	16.0	113.0	21.0	56.0	VMA	?	A
VA00629	200.90	201.00	24.0	170.0	103.0	<10.0	<10.0	21.0	172.0	43.0	105.0	TMA	?	A

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
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	0.38	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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01062	70.00	80.00			1850.0				52.0	42.0	<10.0	TFCD	?	A
VA01063	80.00	89.00			3700.0				166.0	190.0	<10.0	TFCD	?	A
VA01064	103.00	109.00			3510.0				366.0	134.0	<10.0	TFCD	?	A
VA01065	114.00	128.00			509.0				140.0	33.0	46.0	TMAD	?	BBP
VA01066	140.00	150.00			464.0				227.0	41.0	53.0	VMA	?	A
VA01067	155.00	175.00			628.0				72.0	68.0	28.0	TIA	?	A
VA01068	180.00	195.00			341.0				16.0	36.0	52.0	VMA	?	A
VA01069	197.90	202.90			150.0				163.0	29.0	60.0	TMA	?	A
VA01070	205.00	225.00			734.0				108.0	62.0	63.0	TMA	?	A
VA01071	225.00	240.00			772.0				128.0	65.0	45.0	TMA	?	A
VA01072	240.00	256.30			716.0				155.0	39.0	55.0	TMA	?	A

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
.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.

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

From (m)	To (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.											

From (m)	To (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 VA01078 VA01731	85.0 105.0 119.8	105.0 125.0 120.8	20.0 20.0 1.0	n/a n/a 2	95 59 68	n/a n/a <5	19 37 92	n/a n/a 1	n/a n/a 14	163 257 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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-49 Page Number 7

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

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DIAMOND DRILL LOG

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From (m)	To (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
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	%AL2O3	%CAO	%MGO	%NA2O	%K2O	%FE2O3	%TIO2	%P2O5	%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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00630	33.10	33.20	41.0	236.0	1120.0	16.0	95.0	23.0	10.0	<10.0	<10.0	TFBD	PHW	DBP
VA00631	33.40	33.50	70.0	131.0	2200.0	32.0	96.0	<10.0	<10.0	<10.0	<10.0	TFBD	PHS	DBP
VA00632	71.00	71.10	16.0	162.0	122.0	<10.0	<10.0	17.0	<10.0	50.0	158.0	PMB	?	A
VA00633	79.30	79.40	20.0	375.0	503.0	<10.0	<10.0	14.0	167.0	28.0	32.0	TMB	?	A
VA00634	93.50	93.60	19.0	342.0	163.0	<10.0	<10.0	<10.0	178.0	30.0	62.0	VMB	EHM	A
VA00635	108.10	108.20	<10.0	298.0	65.0	23.0	<10.0	13.0	55.0	29.0	77.0	VMB	EHM	A
VA00636	126.30	126.40	20.0	651.0	161.0	13.0	<10.0	<10.0	<10.0	<10.0	46.0	VMB	PEW	A
VA00637	138.90	139.00	13.0	178.0	201.0	<10.0	<10.0	10.0	283.0	50.0	94.0	TMB	?	A
VA00638	163.10	163.20	14.0	406.0	404.0	<10.0	<10.0	19.0	217.0	73.0	42.0	TMA	?	A
VA00639	207.10	207.20	10.0	291.0	264.0	<10.0	<10.0	<10.0	237.0	25.0	58.0	PMA	?	A

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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01073	5.20	21.00			1360.0				34.0	<10.0	<10.0	TFBD	PSM	DCP
VA01074	21.00	33.00			1600.0				<10.0	<10.0	<10.0	TFBD	PSW	DBP
VA01075	43.00	46.00			1530.0				99.0	<10.0	11.0	TFAD	?	DCP
VA01076	68.00	84.00			481.0				141.0	34.0	42.0	IMB	?	A
VA01077	85.00	105.00			163.0				95.0	19.0	68.0	VMB	FHM	A
VA01078	105.00	125.00			257.0				59.0	37.0	65.0	VMB	FHM	A
VA01079	127.00	137.00			634.0				268.0	35.0	49.0	IMB	?	A
VA01080	140.20	160.20			622.0				177.0	59.0	57.0	TIA	?	A
VA01081	161.00	167.00			312.0				150.0	54.0	41.0	IMA	?	A
VA01082	205.50	209.10			349.0				199.0	37.0	66.0	PMB	?	A
VA01083	210.00	218.00			1470.0				165.0	45.0	73.0	IMA	?	EBP

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	FE
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.	>10.
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.	7.
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.	>10.
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.	>10.
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.	50.	>10.
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.	50.	>10.
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.	8.	5.
VA01726	59.70	60.10	19000.0	14300.0	13200.0	35.7	1714.3	10.0	10.0	874.0	71.0	56.0	20.0	53.0	54.	17.	5.
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.	8.	6.
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.	8.	6.
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.	3.	3.
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.	3.	2.
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.	2.	6.
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.	1.	6.
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.	1.	5.
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.	1.	5.
VA01735	153.90	154.60	820.0	135.0	83.0	0.8	<5.0	37.0	29.0	<5.0	<5.0	5.0	1.0	1167.0	62.	1.	6.
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.	1.	5.
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.	1.	6.
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.	2.	6.
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.	1.	4.
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	1335.0	27.	2.	4.
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.	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
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	ETS	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

From (m)	To (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											

From (m)	To (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. 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.	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
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. 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.	VA03665	55.0	56.0	1.0	2	68	<5	100	<1	6	790

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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)

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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)

From (m)	To (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. Locally up to 5 % <3 mm quartz eyes. Quartz eyes sometimes occur within the chloritic lapilli. Lower contact is placed where chloritic lapilli become rare	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
			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
			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
			VA03683	126.0	127.0	1.0	4	18	21	45	<1	<5	1100
			VA03684	127.0	128.0	1.0	4	18	20	44	<1	<5	940
		STRUCTURE:. At 106.1 m foliation is at 20 degrees to core axis. 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

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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

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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:.											

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-50

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	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%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.

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02352	12.70	13.00	33.0	131.0	592.0	14.0	22.0	<10.0	231.0	137.0	18.0	TFAT	PHW	DBP
VA02353	34.00	34.40	40.0	202.0	2500.0	15.0	74.0	<10.0	<10.0	<10.0	<10.0	TFAT	PSM	ECP
VA02354	97.00	97.30	69.0	81.0	1830.0	<10.0	99.0	11.0	<10.0	<10.0	<10.0	TFAT	PSM	DCP
VA02355	167.10	170.20	71.0	30.0	2110.0	27.0	113.0	14.0	18.0	<10.0	<10.0	TFBT	SHW	DCP
VA02356	116.30	116.60	74.0	102.0	1780.0	17.0	129.0	<10.0	65.0	56.0	<10.0	TFBT	SHM	DBP
VA02357	127.20	127.40	49.0	105.0	1050.0	17.0	107.0	<10.0	<10.0	37.0	11.0	TFBT	SHW	DBP
VA02358	139.00	139.20	42.0	253.0	1380.0	<10.0	92.0	<10.0	<10.0	<10.0	<10.0	TFAQY	PSM	DBP
VA02359	147.00	147.30	27.0	370.0	630.0	<10.0	98.0	14.0	<10.0	13.0	<10.0	TFAM	PSW	DBP
VA02360	160.10	160.30	37.0	261.0	1440.0	20.0	110.0	<10.0	42.0	17.0	<10.0	TFAT	PSM	DCP
VA02361	176.40	176.60	64.0	178.0	3160.0	28.0	88.0	10.0	13.0	<10.0	10.0	TFBT	PSM	DCP
VA02362	185.30	185.50	58.0	55.0	1850.0	<10.0	121.0	20.0	76.0	628.0	<10.0	TFBT	PSS	DBP
VA02363	197.20	197.50	<10.0	393.0	966.0	14.0	94.0	<10.0	12.0	<10.0	<10.0	TFAFMY	PSW	DBP
VA02364	211.10	211.50	44.0	224.0	1920.0	<10.0	109.0	12.0	59.0	<10.0	<10.0	TFBT	PSM	DCP
VA02365	229.90	230.10	73.0	348.0	6930.0	30.0	130.0	<10.0	61.0	<10.0	<10.0	TFBT	PSW	DCP
VA02366	254.00	254.50	17.0	181.0	285.0	22.0	65.0	27.0	157.0	50.0	123.0	PMAFM	SEW	DCB
VA02367	260.70	261.00	14.0	198.0	255.0	17.0	<10.0	<10.0	18.0	39.0	37.0	PMAMT	FCW	A
VA02368	270.10	270.40	<10.0	446.0	185.0	16.0	<10.0	<10.0	171.0	27.0	28.0	PMAM	PEW	ECP
VA02369	279.00	279.20	18.0	249.0	135.0	<10.0	<10.0	12.0	224.0	37.0	59.0	PMAM	PEW	A
VA02370	282.00	282.20	56.0	299.0	1430.0	45.0	123.0	16.0	49.0	81.0	<10.0	TMABT	PMW	ECP
VA02371	291.10	291.40	<10.0	305.0	106.0	<10.0	<10.0	14.0	109.0	28.0	73.0	PMB	SEW	A

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.

Hole No. CH88-50 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02824	12.70	29.30			661.0				121.0	32.0	<10.0	TFBT	PHW	DBP
VA02825	31.60	39.10			2080.0				18.0	14.0	<10.0	TFAT	PSM	FCP
VA02826	43.90	50.00			1980.0				27.0	12.0	12.0	TFAT	PHW	FCP
VA02827	95.40	104.00			1410.0				17.0	<10.0	<10.0	TFAT	PHW	DCP
VA02828	104.00	129.00			1610.0				20.0	16.0	21.0	TFAT	SHW	DCP
VA02829	129.00	139.70			1430.0				31.0	<10.0	<10.0	TFAQY	PHW	DCP
VA02830	139.70	147.00			1420.0				<10.0	<10.0	<10.0	TFAT	PHW	DCP
VA02831	147.00	177.00			2460.0				46.0	<10.0	<10.0	TFBT	PSM	DCP
VA02832	177.00	194.40			3720.0				146.0	629.0	<10.0	TFBT	PSM	DCP
VA02833	194.40	200.50			1160.0				20.0	<10.0	<10.0	TFAFY	PSW	DCP
VA02834	200.50	218.30			3590.0				43.0	<10.0	<10.0	TFBT	PSM	DCP
VA02835	223.40	234.80			4660.0				935.0	200.0	<10.0	TFBT	?	DCS

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.

Hole No. CH88-50

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
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	39.	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	EE
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.

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(MINOR ELEMENTS)

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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	194.00	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.

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

From (m)	To (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. Bedding :. 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	57.3	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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-51 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)
		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.	VA01086 VA01782 VA01087	65.0 79.2 80.0	80.0 79.7 100.0	15.0 .5 20.0	n/a 0 n/a	<10 16 <10	n/a 37 n/a	107 135 131	n/a <1 n/a	n/a <5 n/a	2010 1400 1440
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 down hole, (to the south), based on fining direction.											

From (m)	To (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	11o.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

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)
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.	VA01090	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
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 %.	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	2.36	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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00640	46.90	47.00	93.0	565.0	2710.0	36.0	128.0	19.0	<10.0	22.0	<10.0	TFAD	?	A
VA00641	53.70	53.80	78.0	822.0	3180.0	48.0	120.0	<10.0	<10.0	38.0	<10.0	TFAD	?	A
VA00642	63.40	63.50	92.0	877.0	2400.0	61.0	145.0	14.0	12.0	175.0	<10.0	TFAD	PHW	FBP
VA00643	79.10	79.20	58.0	751.0	1760.0	24.0	106.0	<10.0	<10.0	70.0	<10.0	TFAD	PHW	FBP
VA00644	92.10	92.20	45.0	591.0	1180.0	62.0	129.0	16.0	<10.0	43.0	<10.0	TFAD	PHW	FBP
VA00645	139.10	139.20	20.0	226.0	50.0	17.0	43.0	20.0	<10.0	<10.0	26.0	TMA	FCS	FCP

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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA01084	44.40	50.00			4930.0				13.0	33.0	13.0	TFAD	?	DBP
VA01085	51.80	55.80			4960.0				<10.0	38.0	<10.0	TFBD	?	A
VA01086	65.00	80.00			3010.0				<10.0	107.0	<10.0	TFAD	PHW	FBP
VA01087	80.00	100.00			1440.0				<10.0	131.0	<10.0	TFAD	PHW	FBP
VA01088	105.00	115.00			1620.0				<10.0	49.0	<10.0	TFA	?	A
VA01089	120.00	130.00			2570.0				<10.0	<10.0	<10.0	TFA	?	A
VA01090	136.20	147.60			150.0				<10.0	11.0	41.0	TMA	FCS	FCP

Hole No. CH88-51 ALTERATION SAMPLES

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
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	10.0	30.0	20.0	n/a	12	n/a	17	n/a	n/a	5900
			VA01804	14.5	15.5	1.0	1	58	6	49	<1	<5	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	Sample No.	From (m)	To (m)	Width (m)	Total Sulphides	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Au (ppb)	Ba (ppm)

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.

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
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

From (m)	To (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
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

From (m)	To (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
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
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
		Bedding :.	VA01856	195.5	197.0	1.5	3	30	10	113	<1	<5	1700
		188.5 : 52 degrees to core axis.	VA01857	197.0	198.5	1.5	3	40	8	88	<1	<5	2200
		192.8 : 60 degrees to core axis.	VA01858	198.5	200.0	1.5	3	44	10	96	<1	<5	3000
		195.0 : 48 degrees to core axis.	VA01859	200.0	201.5	1.5	3	37	7	90	<1	<5	2600
		200.6 : 61 degrees to core axis.	VA01860	201.5	203.3	1.8	3	48	10	105	1	<5	2700
		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 %.											

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
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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00646	35.30	35.40	27.0	291.0	294.0	<10.0	70.0	30.0	249.0	66.0	99.0	IMA	ECM	A
VA00647	54.60	54.70	<10.0	254.0	407.0	16.0	89.0	11.0	270.0	61.0	107.0	PMA	?	A
VA00648	95.80	95.90	41.0	634.0	1920.0	13.0	42.0	16.0	144.0	64.0	84.0	D	PCS	A
VA00649	124.30	124.40	26.0	335.0	1440.0	21.0	80.0	41.0	<10.0	79.0	210.0	PMB	ECM	A
VA00650	135.80	135.90	20.0	460.0	1880.0	18.0	78.0	41.0	70.0	38.0	259.0	PMB	ECM	A
VA00651	141.20	141.30	33.0	258.0	1900.0	<10.0	84.0	48.0	1100.0	88.0	171.0	PMA	ECM	A
VA00652	148.20	148.30	32.0	388.0	2140.0	18.0	76.0	55.0	98.0	64.0	406.0	PMC	ECM	A
VA00653	172.50	172.60	21.0	231.0	807.0	<10.0	90.0	37.0	19.0	51.0	367.0	PMB	ECW	A
VA00654	183.80	183.90	26.0	171.0	1550.0	12.0	96.0	62.0	97.0	98.0	425.0	PMA	?	A

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	3670.	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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01091	10.00	30.00			5900.0				12.0	17.0	32.0	TFA	?	A
VA01092	30.50	43.00			349.0				197.0	41.0	95.0	PMA	?	A
VA01093	123.00	129.00			2670.0				<10.0	47.0	213.0	PMB	FCM	A
VA01094	132.00	151.00			2820.0				<10.0	43.0	246.0	PMB	FCM	A
VA01095	167.00	171.00			4830.0				53.0	45.0	34.0	TMA	PCW	FCP
VA01096	171.30	177.30			549.0				15.0	60.0	492.0	PMB	FCW	A
VA01097	181.90	185.90			1630.0				33.0	84.0	386.0	PMA	?	A

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
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	ETS	FE
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.	2.	2.
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.	2.	3.
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.	4.	3.
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.	4.	3.
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.	3.	3.
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.	2.	3.
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.	7.	4.
VA01834	153.00	154.50	2000.0	25.0	122.0	<0.5	<5.0	3.0	22.0	8.0	13.0	<1.0	3.0	571.0	17.	7.	2.
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.	7.	2.
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.	7.	3.
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.	7.	3.
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.	7.	3.
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	361.0	21.	7.	3.
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.	7.	2.
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.	7.	3.
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.	7.	3.
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.	1.	6.
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.	1.	5.
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.	1.	6.
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.	2.	2.
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.	2.	5.
VA01848	180.50	181.90	970.0	25.0	138.0	<0.5	39.0	5.0	25.0	5.0	<5.0	<1.0	3.0	466.0	16.	2.	2.
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.	3.	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
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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-53 | Page Number 1

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											

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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

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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

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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	125.8	126.8	1.0	1	12	10	55	<1	7	3800
			VA03823	127.5	128.5	1.0	1	2	12	42	<1	<5	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.	VA03824	128.5	129.0	.5	2	35	12	53	<1	<5	3600
			VA03825	129.0	130.0	1.0	2	31	58	290	<1	38	3300
		STRUCTURE:.											
		At 128.8 m bedding is at 43 degrees to core axis.											
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. .	VA03826	130.0	131.0	1.0	1	2	<5	88	<1	38	3000
			VA03827	131.0	132.0	1.0	1	2	<5	58	<1	<5	3000
		STRUCUTRE:.											
		At 130.7 m bedding is at 32 degrees to core axis.											
		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	133.0	163.0	30.0	n/a	<10	n/a	166	n/a	n/a	2090
			VA02838	163.0	193.0	30.0	n/a	<10	n/a	66	n/a	n/a	2370
			VA03828	168.0	169.0	1.0	2	26	<5	100	<1	<5	1700

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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	223.0	247.1	24.1	n/a	<10	n/a	150	n/a	n/a	1370

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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	247.1	248.0	.9	4	16	<5	72	<1	<5	290
			VA03835	248.0	249.0	1.0	4	27	<5	106	1	<5	250
			VA03836	249.0	250.0	1.0	4	27	<5	79	<1	<5	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

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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

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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02372	18.60	18.90	23.0	256.0	1300.0	16.0	17.0	25.0	265.0	80.0	44.0	VMAM	SEW	A
VA02373	29.50	29.80	38.0	307.0	1190.0	14.0	<10.0	<10.0	142.0	31.0	36.0	VMAM	?	DCP
VA02374	134.30	134.70	48.0	244.0	1270.0	28.0	90.0	17.0	<10.0	248.0	<10.0	TFAM	EQW	A
VA02375	147.70	148.10	54.0	444.0	2130.0	53.0	109.0	23.0	17.0	141.0	<10.0	TFAM	?	A
VA02376	159.00	159.40	32.0	571.0	531.0	43.0	102.0	16.0	<10.0	550.0	<10.0	TFAM	?	A
VA02377	170.40	170.70	74.0	280.0	2630.0	46.0	132.0	14.0	<10.0	65.0	<10.0	TFAM	?	A
VA02378	182.40	182.70	82.0	218.0	3310.0	40.0	135.0	24.0	<10.0	58.0	<10.0	TFAM	?	A
VA02379	191.00	191.50	51.0	309.0	2400.0	69.0	137.0	24.0	<10.0	47.0	<10.0	TFAM	?	DBP
VA02380	202.00	202.60	66.0	329.0	2870.0	47.0	138.0	<10.0	<10.0	52.0	<10.0	TFAM	?	DBP
VA02381	215.00	215.40	54.0	405.0	2120.0	44.0	101.0	22.0	<10.0	47.0	11.0	TFAM	?	A
VA02382	228.00	228.40	76.0	217.0	2440.0	58.0	158.0	<10.0	<10.0	71.0	<10.0	TFAM	?	A
VA02383	243.00	243.40	57.0	164.0	2920.0	43.0	170.0	21.0	<10.0	109.0	<10.0	TFAM	?	A
VA02384	249.50	249.70	11.0	416.0	101.0	50.0	271.0	69.0	27.0	52.0	<10.0	TMAL	?	DCP

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
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.

Hole No. CH88-53 ALTERED SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02836	15.10	37.10			1160.0				172.0	93.0	55.0	VMAM	?	DBP
VA02837	133.00	163.00			2090.0				<10.0	166.0	<10.0	TFAM	?	A
VA02838	163.00	193.00			2370.0				<10.0	66.0	<10.0	TFAM	?	A
VA02839	193.00	223.00			1000.0				16.0	324.0	<10.0	TFAM	?	A
VA02840	223.00	247.10			1370.0				<10.0	150.0	<10.0	TFAM	?	A

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	3.0	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	FE
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	2000.0	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

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

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

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

From (m)	To (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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-54

From (m)	To (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.	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
		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.											
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

From (m)	To (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.											

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-54 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)
266.8	291.7	MAFIC TO INTERMEDIATE TUFFACEOUS SEDIMENTS											
		Brown to green andesitic to mafic crystal to ash tuffs with cherty argillite and green to white cherts. Variable crystal content in tuff, averages 5 %, feldspars, hornblende and minor quartz eyes. Is approximately 30 % sediments, equal chert and argillite. Thermal biotite is strong locally and dominantly absent. There is up to 2 % fracture controlled pyrite in the sediments. Sediment beds vary from < 1 cm to approximately 50 cm.	VA01114	267.0	291.7	24.7	n/a	127	n/a	50	n/a	n/a	1390
			VA01876	279.0	280.0	1.0	1	132	<5	162	<1	8	360
			VA01877	280.0	281.0	1.0	2	90	5	130	<1	5	740
			VA01878	281.0	282.0	1.0	2	102	32	173	1	5	2100
			VA01879	282.0	283.0	1.0	1	100	24	123	<1	<5	2100
			VA01880	288.6	289.1	.5	0	119	13	95	<1	<5	1000
			VA01881	290.0	291.7	1.7	1	70	13	107	<1	<5	1400
		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
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	161.20	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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA00655	23.40	23.50	23.0	439.0	460.0	<10.0	21.0	13.0	126.0	93.0	37.0	MMAT	PCM	A
VA00656	24.60	24.70	47.0	180.0	1290.0	39.0	86.0	<10.0	28.0	13.0	<10.0	TIAD	?	A
VA00657	26.20	26.30	61.0	45.0	1100.0	<10.0	98.0	<10.0	16.0	14.0	<10.0	TFAD	?	A
VA00658	37.90	38.00	34.0	183.0	821.0	38.0	100.0	19.0	<10.0	<10.0	<10.0	TFAD	PHW	A
VA00659	48.90	49.00	<10.0	179.0	130.0	<10.0	12.0	28.0	16.0	48.0	15.0	TIAD	PCM	DBP
VA00660	61.00	61.10	19.0	264.0	352.0	28.0	111.0	<10.0	<10.0	<10.0	<10.0	VFAF	?	A
VA00661	79.50	79.60	15.0	124.0	83.0	22.0	77.0	20.0	245.0	71.0	90.0	PMA	ECW	A
VA00662	100.90	101.00	58.0	108.0	1300.0	<10.0	86.0	11.0	<10.0	12.0	<10.0	VFAQ	?	A
VA00663	161.20	161.40	29.0	482.0	153.0	71.0	22.0	11.0	1060.0	1390.0	58.0	TMA	?	A
VA00664	168.30	168.40	22.0	225.0	101.0	17.0	15.0	13.0	414.0	984.0	122.0	TMA	?	A
VA00665	179.00	179.10	<10.0	354.0	79.0	<10.0	27.0	<10.0	546.0	351.0	128.0	TMA	?	A
VA00666	186.90	187.00	15.0	158.0	283.0	11.0	17.0	16.0	296.0	65.0	53.0	TMA	?	DBP
VA00667	195.80	195.90	<10.0	318.0	919.0	<10.0	<10.0	15.0	192.0	101.0	37.0	TMA	?	A
VA00668	242.00	242.10	<10.0	327.0	938.0	<10.0	<10.0	<10.0	<10.0	69.0	48.0	TMA	?	A
VA00669	257.60	257.70	<10.0	197.0	639.0	23.0	49.0	33.0	248.0	51.0	88.0	PMA	ECW	A
VA00670	266.30	266.40	<10.0	259.0	960.0	30.0	65.0	16.0	36.0	50.0	24.0	TFAQ	?	A

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MAJOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	%SIO2	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TI02	%P205	%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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	CODES MIN
VA01098	20.20	23.90			506.0				109.0	88.0	28.0	MMAT	FCM	A
VA01099	24.70	42.50			1100.0				<10.0	<10.0	<10.0	TFAD	PHW	A
VA01100	42.50	47.20			828.0				48.0	76.0	19.0	MMAT	FCW	DBP
VA01101	47.20	55.50			256.0				89.0	40.0	35.0	TIAD	PCM	DBP
VA01102	56.60	68.50			655.0				11.0	<10.0	<10.0	VFAD	?	DBP
VA01103	68.50	99.10			140.0				225.0	55.0	104.0	PMA	FCW	A
VA01104	99.10	104.50			1360.0				<10.0	<10.0	<10.0	VFAQ	?	A
VA01105	108.00	115.60			733.0				977.0	1050.0	57.0	SAI	FCW	A
VA01106	152.50	165.00			391.0				988.0	2050.0	100.0	IMA	?	DBP
VA01107	165.00	180.00			339.0				331.0	129.0	73.0	IMA	?	DBP
VA01108	180.00	194.90			406.0				231.0	56.0	43.0	IMA	?	DBP
VA01109	200.00	230.00			1550.0				224.0	58.0	43.0	TIA	?	DBP
VA01110	235.30	244.30			736.0				122.0	46.0	46.0	IMA	?	A
VA01111	244.30	250.00			717.0				172.0	21.0	92.0	TFAQ	?	FBP
VA01112	250.00	257.00			1730.0				86.0	76.0	70.0	TIA	?	A
VA01113	258.60	261.60			431.0				215.0	46.0	50.0	IMA	FX	FBP
VA01114	267.00	291.70			1390.0				127.0	50.0	59.0	IMA	?	A

Hole No. CH88-54 ALTERATION SAMPLES

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.	VA03854	71.9	72.9	1.0	1	155	<5	61	<1	40	60
		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.											
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.

Hole No. CH88-55 WHOLE ROCK SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02385	50.20	50.40	26.0	217.0	187.0	11.0	62.0	35.0	215.0	60.0	96.0	PMAEM	?	A
VA02386	65.60	65.80	22.0	139.0	438.0	36.0	254.0	40.0	248.0	131.0	21.0	PMCM	ECM	A

Hole No. CH88-55 WHOLE ROCKS SAMPLES

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	39.0	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	30.0	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 concentrate 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

From (m)	To (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

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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)

From (m)	To (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

From (m)	To (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											

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From (m)	To (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.	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
		Sulphides :.	VA01910	298.2	298.8	.6	4	51	21	90	<1	5	1400
		284.0 285.7 0.5 to 1 % fine-grained disseminated pyrite.	VA01911	302.7	304.0	1.3	2	80	20	49	<1	<5	2000
		285.7 286.2 5 to 7 % pyrite as bands of 1 to 3 mm cubes in the matrix around siliceous grey lapilli.	VA01912	304.0	305.5	1.5	2	101	13	149	<1	28	1400
		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.	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
		287.7 289.1 Minor FAULT BRECCIA with 0.5 to 1 % disseminated fine-grained pyrite and pyrite clots, up to 5 mm.	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
		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											

From (m)	To (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											

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

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

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From (m)	To (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
		Sulphides :.	VA01935	359.2	359.7	.5	20	59	<5	20	<1	18	1000
		355.0 357.2 2 to 3 % pyrite with trace mariposite at 355.2.	VA01936	359.7	360.5	.8	15	148	<5	25	<1	17	1000
		357.2 360.5 15 to 20 %, < 1 to 3 mm, pyrite with minor chalcopyrite in quartz vein or lapilli at 358.0.	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
		360.5 362.3 3 to 5 % pyrite, banded or encapsulating lapilli.	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
		362.3 370.8 Trace to 2 %, disseminated and banded, averages 1 %.	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
		Foliations :.	VA01943	369.5	370.8	1.3	1	69	7	115	<1	7	2500
		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
		Sulphidess and alteration :.	VA01951	381.2	382.7	1.5	2	108	<5	70	<1	9	2800
		372.2 384.2 1 to 2 % disseminated very fine-grained pyrite with trace banded or stringer pyrite in crystal rich schistose tuff.	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
		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	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

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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

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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)
		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.	VA01998	485.3	486.8	1.5	1	80	29	230	<1	27	200
		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 %.											

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
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	%AL203	%CAO	%MGO	%NA20	%K20	%FE203	%TIO2	%P205	%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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA00671	18.80	19.00	<10.0	268.0	661.0	<10.0	93.0	11.0	17.0	50.0	<10.0	TFBD	SQS	A
VA00672	23.20	23.40	60.0	301.0	1010.0	<10.0	16.0	<10.0	261.0	110.0	22.0	MMA	FCS	A
VA00673	53.30	53.70	64.0	86.0	1000.0	<10.0	85.0	13.0	13.0	14.0	<10.0	TFAD	PHM	A
VA00674	68.10	68.20	35.0	114.0	1050.0	<10.0	105.0	12.0	<10.0	29.0	<10.0	TFAD	PQM	DBP
VA00675	72.20	72.30	59.0	36.0	983.0	27.0	115.0	<10.0	<10.0	227.0	11.0	TFAD	PHW	DBP
VA00676	76.50	76.60	75.0	37.0	1360.0	25.0	106.0	<10.0	21.0	18.0	<10.0	TFAD	?	DBP
VA00677	105.60	105.80	<10.0	188.0	125.0	17.0	35.0	<10.0	122.0	54.0	16.0	TMAE	?	A
VA00678	112.50	112.70	21.0	561.0	166.0	21.0	90.0	17.0	19.0	<10.0	<10.0	Q	?	ECP
VA00679	127.60	127.70	<10.0	258.0	435.0	24.0	65.0	<10.0	13.0	<10.0	<10.0	VFAE	?	A
VA00680	133.50	133.70	35.0	190.0	1160.0	<10.0	105.0	<10.0	11.0	<10.0	<10.0	VFAE	?	FBP
VA00681	221.50	221.60	68.0	83.0	1630.0	<10.0	103.0	<10.0	<10.0	<10.0	<10.0	TFAQ	?	Q
VA00682	230.70	230.80	78.0	53.0	1300.0	21.0	108.0	<10.0	<10.0	<10.0	<10.0	TFAQ	?	A
VA00683	297.50	297.60	54.0	150.0	1620.0	<10.0	97.0	18.0	53.0	45.0	12.0	TFA	?	DBP
VA00684	318.00	318.50	19.0	242.0	248.0	19.0	150.0	27.0	507.0	123.0	29.0	PMB	FCW	Q
VA00685	333.60	333.70	33.0	184.0	1160.0	18.0	110.0	<10.0	64.0	62.0	<10.0	TFAD	?	A
VA00686	346.50	346.60	48.0	330.0	1440.0	24.0	91.0	<10.0	12.0	11.0	<10.0	TFAD	?	DBP
VA00687	363.10	363.20	60.0	49.0	2670.0	40.0	119.0	17.0	70.0	<10.0	<10.0	TFAD	?	DCP
VA00688	375.50	375.60	65.0	36.0	3380.0	25.0	118.0	15.0	<10.0	<10.0	<10.0	TFAD	?	DCP
VA00689	387.00	387.10	51.0	146.0	6470.0	<10.0	115.0	14.0	17.0	19.0	<10.0	TFAD	?	DCP
VA00690	388.30	388.40	30.0	454.0	1130.0	<10.0	<10.0	<10.0	525.0	353.0	94.0	PM	PCS	DDP
VA00691	394.10	394.20	88.0	88.0	3390.0	21.0	136.0	<10.0	33.0	<10.0	<10.0	TFAD	?	DCP
VA00692	406.00	406.20	72.0	197.0	2370.0	<10.0	139.0	<10.0	18.0	<10.0	<10.0	TFAD	?	DCP

Hole No. CH88-56 WHOLE ROCKS SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA00693	416.00	416.10	77.0	126.0	2050.0	31.0	169.0	19.0	201.0	<10.0	<10.0	TFAD	?	DCP
VA00694	447.50	447.70	<10.0	311.0	249.0	13.0	<10.0	14.0	306.0	27.0	67.0	TMAW	FCS	A

Hole No. CH88-56 WHOLE ROCKS 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
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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA01115	15.80	23.00			684.0				<10.0	39.0	<10.0	TFBD	SQS	A
VA01116	24.00	39.00			977.0				<10.0	69.0	<10.0	TFBD	PHM	DBP
VA01117	44.00	59.00			1060.0				<10.0	23.0	<10.0	TFBD	PHM	A
VA01118	65.00	80.00			1260.0				<10.0	43.0	12.0	TFAD	?	DBP
VA01119	80.00	95.00			886.0				25.0	93.0	<10.0	TFAD	?	D
VA01120	95.40	101.00			509.0				154.0	379.0	31.0	TIAD	PCM	A
VA01121	101.00	104.50			1170.0				27.0	<10.0	<10.0	TFAD	?	DCP
VA01122	104.50	117.40			435.0				119.0	48.0	25.0	TMAE	?	A
VA01123	121.00	139.00			1070.0				<10.0	<10.0	12.0	VFAE	?	FBP
VA01124	182.80	186.60			120.0				392.0	84.0	66.0	VIAQ	FCS	DCP
VA01125	211.00	226.00			1530.0				<10.0	<10.0	<10.0	TFAQ	?	D
VA01126	226.00	234.00			1540.0				<10.0	<10.0	<10.0	TFAQ	?	A
VA01127	256.00	269.00			1770.0				<10.0	41.0	<10.0	TFA	FHW	A
VA01128	283.00	293.00			1910.0				80.0	21.0	11.0	TFB	?	DBP
VA01129	294.00	314.00			2050.0				319.0	62.0	<10.0	TFA	?	DCP
VA01130	315.00	329.00			113.0				1470.0	111.0	63.0	PMB	FCM	D
VA01131	330.00	340.00			2270.0				62.0	64.0	<10.0	TFAD	?	DBP
VA01132	340.00	355.00			1840.0				144.0	564.0	<10.0	TFAD	?	DBP
VA01133	360.00	370.00			2500.0				43.0	<10.0	<10.0	TFBD	?	DCP
VA01134	375.00	400.00			3570.0				238.0	134.0	<10.0	TFAD	?	DCP
VA01135	400.00	425.00			2670.0				579.0	109.0	<10.0	TFAD	?	DCP
VA01136	432.70	443.90			394.0				172.0	48.0	32.0	TMA	FCS	DBP

Hole No. CH88-56 ALTERATION SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA01137	443.90	454.30			390.0				229.0	46.0	59.0	TMAW	ECS	A
VA01138	454.30	485.30			642.0				393.0	58.0	59.0	TMA	ECM	FBP

Hole No. CH88-56 ALTERATION SAMPLES

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
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	33.0	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	30.0	<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.	3.
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	33.0	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	326.0	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	1960.0	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	30.0	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

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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)
		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. 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.	VA03856	25.6	26.6	1.0	1	65	7	105	<1	<5	730
			VA03857	26.6	27.1	.5	4	64	5	80	<1	7	440
			VA03858	27.1	28.1	1.0	1	42	<5	115	<1	14	<20
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. 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.	VA03859	31.5	33.0	1.5	4	227	117	420	1	29	4300
			VA03860	33.0	33.5	.5	7	137	57	335	1	70	4000
			VA03861	33.5	35.0	1.5	4	115	40	340	<1	22	2900
			VA03862	35.0	36.0	1.0	4	139	32	65	<1	14	1500
			VA03863	36.0	39.0	3.0	5	142	21	55	1	15	1500
			VA03864	39.0	40.0	1.0	3	10	<5	35	<1	<5	1200

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FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-57 | 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)
		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.											

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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
		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.
		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

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

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

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.
		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

From (m)	To (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:.	VA03919	267.0	268.0	1.0	4	35	27	106	<1	<5	1500
		At 262.8 m bedding is at 38 degrees to core axis.	VA03920	268.0	269.0	1.0	4	33	30	30	<1	<5	2200
		At 264.6 m bedding is at 25 degrees to core axis.	VA03921	269.0	270.0	1.0	4	34	23	36	<1	<5	2000
		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

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

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
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	CODES MIN
VA02387	27.30	27.80	23.0	211.0	140.0	40.0	80.0	18.0	93.0	77.0	<10.0	TIAM	PHM	DBP
VA02388	40.50	40.80	76.0	14.0	1250.0	14.0	94.0	<10.0	<10.0	13.0	<10.0	TFAT	SHW	DCP
VA02389	126.10	126.30	19.0	184.0	187.0	25.0	97.0	10.0	244.0	77.0	102.0	PMAMF	?	A
VA02390	144.00	145.00	33.0	183.0	379.0	28.0	81.0	22.0	280.0	58.0	56.0	PMAM	FCM	DBP
VA02391	161.00	161.20	<10.0	166.0	130.0	33.0	114.0	20.0	509.0	90.0	110.0	PMBMF	?	DBP
VA02392	177.80	178.20	37.0	239.0	707.0	<10.0	40.0	<10.0	222.0	40.0	122.0	PMAFM	?	A
VA02393	206.60	206.90	23.0	50.0	4880.0	<10.0	28.0	17.0	89.0	16.0	25.0	TFAM	FCW	A
VA02394	218.40	218.60	31.0	234.0	1410.0	39.0	50.0	16.0	62.0	<10.0	25.0	TFAM	?	A
VA02395	229.30	229.60	12.0	86.0	562.0	<10.0	30.0	<10.0	<10.0	15.0	12.0	TFAM	?	FBP
VA02396	262.50	262.60	49.0	107.0	2430.0	29.0	41.0	<10.0	18.0	23.0	<10.0	TFAM	?	FBP
VA02397	268.30	268.50	38.0	23.0	2250.0	21.0	29.0	14.0	14.0	<10.0	16.0	TFAM	?	FCP

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
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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02841	21.00	50.00			854.0				89.0	43.0	28.0	IFAT	PHW	DCP
VA02842	53.00	61.60			1740.0				121.0	325.0	<10.0	IFAT	PSS	DCP
VA02843	61.60	68.50			840.0				307.0	50.0	49.0	TIA	PMW	DBP
VA02844	202.20	236.10			5260.0				41.0	<10.0	20.0	IFA	?	FBP
VA02845	262.00	270.00			5170.0				38.0	85.0	18.0	IFA	FCW	FCP

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
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.

Hole No. CH88-57

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	530.0	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	32.0	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	636.0	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	38.0	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	2.0	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	30.0	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	340.0	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	35.0	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
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
.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.
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

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

PROPERTY: Chemainus JV

FALCONBRIDGE LIMITED
DIAMOND DRILL LOG

HOLE No: CH88-58 | Page Number 2

From (m)	To (m)	DESCRIPTION
		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:.

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: CH88-58 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	188.2	189.0	.8	3	1942	11	84	1	23	190
			VA03950	189.0	190.0	1.0	1	636	13	70	<1	16	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	197.9	198.9	1.0	1	231	5	63	<1	6	300
			VA03952	198.9	200.3	1.4	3	500	10	70	<1	24	70
			VA03953	200.3	201.3	1.0	1	229	15	60	<1	10	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.

Hole No. CH88-58 WHOLE ROCK SAMPLES

DIAMOND DRILL CORE LITHOGEOCHEMICAL RECORD
(MINOR ELEMENTS)

SAMPLE NUMBER	FROM	TO	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	ROCK	CODES ALT	MIN
VA02398	17.40	17.60	47.0	252.0	1700.0	30.0	141.0	<10.0	29.0	42.0	16.0	TFAM	?	A
VA02399	49.00	49.40	15.0	251.0	777.0	27.0	68.0	<10.0	245.0	56.0	99.0	PMAFM	ECW	A
VA02400	64.70	65.10	<10.0	195.0	509.0	<10.0	382.0	38.0	296.0	116.0	<10.0	PMCM	ECW	A
VA02401	86.90	87.00	<10.0	166.0	588.0	45.0	254.0	16.0	632.0	115.0	15.0	PMBM	ECW	DBC
VA02402	107.30	107.80	28.0	172.0	286.0	30.0	100.0	24.0	310.0	87.0	68.0	PMBM	ECW	DBC
VA02403	126.30	126.40	14.0	158.0	71.0	21.0	131.0	22.0	461.0	84.0	40.0	PMBM	ECW	DBC
VA02404	199.00	199.10	<10.0	105.0	236.0	<10.0	263.0	36.0	590.0	88.0	23.0	PMBM	?	DCC
VA02405	226.70	226.90	76.0	249.0	1070.0	29.0	135.0	22.0	504.0	91.0	57.0	PMBA	ECW	A
VA02406	235.00	235.60	66.0	410.0	800.0	18.0	64.0	23.0	248.0	67.0	71.0	PMAA	ECM	A

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
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	RB (ppm)	SR (ppm)	BA (ppm)	Y (ppm)	ZR (ppm)	NB (ppm)	CU (ppm)	ZN (ppm)	NI (ppm)	CODES ROCK	CODES ALT	CODES MIN
VA02846	11.20	18.50			1300.0				24.0	53.0	36.0	TFA	FCW	FBP

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	329.0	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	32.0	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.