

BRITISH COLUMBIA NTS 82M/4W
Rea Gold Option
1983 Typed Drill Logs RG-1 to RG-15

822867

#420

CORPORATION FALCONBRIDGE COPPER

X METRIC UNITS
IMPERIAL UNITS

DRILL HOLE RECORD

HOLE NUMBER RG-15	GRID Main	FIELD COORDS	LAT. 103+00	DEP. 1+40NE	ELEV. 1386.28	COLLAR BRNG. 225	COLLAR DIP -49°	HOLE SIZE NQ	FINAL DEPTH 98.5m
PROJECT 212	CLAIM #	SURVEY COORDS				DATE STARTED: Dec. 13/83 DATE COMPLETED: Dec. 15/83	CONTRACTOR Longyear CORE STORAGE: CASING 2464,		
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY

ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH (m)	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
30	-44°								
60									
90	-46°								

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
24.6 - 30.5	Felsic Tuff to fine Lapilli Tuff	Lt. Grey	Fine	Uniform fine grained light grey felsic tuff - fine lapilli up to 1mm, quartz phenocrysts rare. Weakly foliated @ 28.3 - 10cm talc rich gouge.	70-80°	<5% talc matrix	5% disseminated pyrite, few pyritic laminae.	Casing to 24.4m Green Chloritic volcanic @ 24.4-24.6 - boulder? C.R. 100% unless noted otherwise. VERY BAD GROUND THROUGH-OUT 24.7-26.2 75% C.R. 26.2-28.7 50% C.R. 28.7-29.9 85% C.R.
30.5 - 45.0	Felsic Lapilli Tuff	Lt. Grey - Yellow	Medium - Coarse	Siliceous irregular to ovoid fragments and bands, minor talc rich matrix of probable tuffaceous origin.	60-80°	5-10% talc rich matrix.	10% disseminated pyrite and pyritic matrix to frags. 30% pyritic bands @ 40.5, 43.3, 41.6.	30.8-32.3 90% C.R. 34.4-36.0 85% C.R. 37.5-40.8 25% C.R. 42.1-43.0 30% C.R. 44.2-45.7 75% C.R. 45.7-47.4 40% C.R. 47.4-48.2 65% C.R.
45.0- 47.6	Talc rich Felsic Tuff and Graphitic Chert	Yellow Grey	Fine	Fine siliceous bands and talc rich bands. Minor siliceous breccia fragments and talc rich matrix. 45.0-45.3, 45.7-45.8 Black graphitic chert breccia. Brecciated appearance - matrix infilling is quartz and sulphides.	70-80°	Talc rich bands and matrix 30-40%.	Few pyritic bands and disseminated pyrite 5-10%. Matrix infilling quartz plus 20% pyrite, traces of arsenopyrite, chalcopyrite, galena.	45.7-47.4 40% C.R. 47.4-48.2 65% C.R.
47.6- 58.5	Graphitic Chert	Black	Fine	Finely banded black chert, regular to contorted and transposed banding. 51.5-52.0 Quartz vein sub-parallel to C.A. Minor py. 52.5-52.7 Quartz veining and silica flooding.			<5% pyrite in quartz veinlets in cleavage and in bedding. 56.7 Traces chalcopyrite and galena in quartz veinlets.	48.2-50.6 10% C.R. Ground Core. NB. Rods dropped 1m to 50.6m 50.6-51.2 30% C.R. 52.1-53.6 80% C.R. Ground core @ 52.1 56.7-58.5 85% C.R.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
58.5-65.3	Talc rich Felsic Tuff	Yellow-Grey	Fine	Finely banded siliceous and talc rich bands. Contorted, transposed irregular banding. Incipient quartz-pyrite stockwork throughout. Minor graphitic chert interbands @ 60.4-61.3, 61.9-62.0 Graphitic chert band.		50-60% talc alteration of probable tuffaceous material.	2-3% pyrite in fine fractures and quartz veinlets. 1-3cm quartz veins w. 10% pyrite, trace Cu Fe S ₂ @ 58.6, 59.3, 62.6, 63.7, 64.1m.	58.5-59.4 65% C.R. talc gouge @ 58.6 59.4-60.4 90% C.R. ground core @ 59.7 60.4-61.6 85% C.R. 63.4-65.2 80% C.R. ground core + gouge @ 63.4 and 65.2.
65.3-65.8	Gouge			Talc and graphite rich gouge and badly broken core. 65.7 1cm brecciated semi massive sulphide band.	50° contact		65.7 1cm brecciated semi massive sulphide band - pyritic, traces aspy and cpy?	
65.8-68.7	Mafic Volcaniclastic	Dark Grey	Fine-Medium	Fine mafic tuff to lapilli tuff. Weakly foliated @ White spots up to 1mm (baritic?) In-situ brecciation locally.	70-80°	Talc and chlorite alteration.	Pyritic fragments and matrix to fragments 10-15% overall.	65.2-68.3 100% C.R. Graphite talc rich gouge 65.3-65.8
68.7-70.2	Mixed Graphitic Argillite and Quartz Veins	Black & White		68.7-68.75 Gouge 68.75-70.2 Broken and brecciated graphitic argillite and broken irregular quartz veins.		Quartz veins.	5-10% pyrite disseminations and lamellae in argillite.	
70.2-79.0	Argillite and Epiclastic Sandstone	Dk Grey	Fine	Thinly bedded graphitic argillite and fine sandstone. Scours indicate tops downhole.		Unaltered.	Blotchy and disseminated pyrite <1%.	70.1-71.2 65% C.R. 71.2-73.5 85% C.R. 78.0-79.2 45% C.R. Badly broken core.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
79.0-98.5	Epiclastic Sandstone to Conglomerate	Grey	Fine-Coarse Sand	Crudely bedded sandstone - sub angular to subrounded blue quartz eyes, argillite, chert, felsic clasts in finer sandstone matrix.	70-90°	Unaltered. 95.0-96.0 Bleached, lt greenish grey, cut by quartz veins, minor talc rich matrix.	Dissem and clots of pyrite 1% overall.	79.2-82.0 90% C.R. Broken core @ 79.7, 80.5 82.0-84.1 65% C.R. 82.9-83.2 Gouge 84.1-85.3 40% C.R. 85.0-85.3 Gouge 85.3-87.2 90% C.R.

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
591	24.5	26.0			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.012												
592	26.0	27.0			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.004												
593	27.0	29.0			2.0/ 0.8	<0.01	0.01	<0.01	0.7	0.1	0.008												
594	29.0	30.5			1.5	0.01	0.01	<0.01	0.7	<0.1	0.012												
595	30.5	31.5			1.0	<0.01	0.01	<0.01	0.7	<0.1	0.014												
596	31.5	32.5			1.0	<0.01	0.01	<0.01	0.7	<0.1	0.014												
597	32.5	33.5			1.0	<0.01	0.01	<0.01	0.7	<0.1	0.013												
598	33.5	34.5			1.0	<0.01	0.01	<0.01	0.7	<0.1	0.013												
599	34.5	35.5			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.010												
600	35.5	36.5			1.0	<0.01	<0.01	<0.01	0.3	<0.1	0.008												
601	36.5	37.5			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.006												
602	37.5	40.8			3.3/ 0.9	<0.01	0.01	<0.01	0.7	<0.1	0.011												
603	40.8	42.1			1.3	0.01	0.01	<0.01	1.0	<0.1	0.007												
604	42.1	43.6			1.5/ 1.0	0.01	0.01	<0.01	1.4	<0.1	0.018												
605	43.6	45.0			1.4	<0.01	0.01	<0.01	2.4	0.1	0.016												
606	45.0	45.3			0.3	0.16	0.82	0.59	6.8	0.4	0.282	←											
607	45.3	45.7			0.4	<0.01	0.02	0.01	1.0	0.1	0.061												
608	45.7	47.6			1.9/ 0.9	<0.01	0.01	<0.01	1.4	<0.1	0.021												
609	47.6	51.2			3.6/ 0.6	<0.01	0.02	<0.01	0.7	<0.1	0.091	0.09											
610	51.2	52.0			0.8	<0.01	0.02	<0.01	1.7	<0.1	0.011	0.04											

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
611	52.0	53.0			1.0	0.10	0.34	<0.01	2.0	0.1	0.204	0.09											
612	53.0	54.5			1.5	<0.01	0.03	0.22	0.7	0.1	0.034	0.11											
613	54.5	56.0			1.5	<0.01	0.02	<0.01	0.7	0.1	0.034	0.13											
614	56.0	57.0			1.0	0.03	0.09	0.07	0.7	0.1	0.085	0.08											
615	57.0	58.5			1.5	<0.01	0.07	0.02	0.7	0.1	0.069	0.08											
616	58.5	59.5			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.007	0.18											
617	59.5	60.5			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.006	0.12											
618	60.5	61.5			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.005	0.08											
619	61.5	62.5			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.005	0.11											
620	62.5	63.4			0.9	<0.01	0.01	<0.01	0.3	<0.1	0.004	0.11											
621	63.4	64.3			0.9	<0.01	0.01	<0.01	0.3	<0.1	0.004	0.11											
622	64.3	65.3			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.004	0.09											
623	65.3	65.8			0.5	<0.01	0.01	<0.01	0.3	<0.1	0.004	0.16											
624	65.8	66.8			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.004	0.19											
625	66.8	67.8			1.0	<0.01	0.10	<0.01	0.7	0.1	0.005	0.23											
626	67.8	68.7			0.9	<0.01	0.02	<0.01	0.7	<0.1	0.004	0.20											
627	68.7	70.1			1.4	<0.01	0.03	<0.01	0.7	<0.1	0.011	0.13											
628	70.1	71.2			1.1	<0.01	0.01	<0.01	1.0	<0.1	0.011												
629	71.2	72.7			1.5	<0.01	0.01	<0.01	1.0	<0.1	0.008												

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba						
6646D	26	29	61.2		.663	2.64	.612	4.33	7.21		.584		31	65	-1	-0.1	1150					6.65	
6647	60	63	46.2		4.73	2.90	.740	5.88	7.75		1.42		14	176	38	0.3	2060					9.90	
6648	66	68.7	66.3		.410	2.06	.508	4.05	7.87		.734		15	76	11	0.1	1050					6.35	

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

METRIC UNITS X
IMPERIAL UNITS

HOLE NUMBER RG-14	GRID	FIELD COORDS	LAT. 102+100 NW	DEP. 1+37.5	ELEV. 1404.84	COLLAR BRNG. 225°	COLLAR DIP -50°	HOLE SIZE NO	FINAL DEPTH 128.3
PROJECT 212	CLAIM #	SURVEY COORDS.				DATE STARTED: Dec 11, 1983 DATE COMPLETED: Dec 12, 1983	CONTRACTOR: Longyear CORE STORAGE CASING: 24.4		
PURPOSE Note: Subcropping bedrock probably encountered @ 7.0 m but unable to core until 24.4.								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY

ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
30	-49°								
61	-49°								
91	-49°								
122	-49°								

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
24.4 - 50.7	Schistose Felsic Lapilli Tuff	Med Grey to Grey Green	Fine	Strongly schistose with intervals throughout of schist turning to clay/schist gouge zones. @ 27.7: Zemclay gouge @ 34.8: 1cm X Z schist gouges From 35.9 to 36. clay schist gouge At 42.0, 42.1 and 42.3 schist gouge 1-2 cm wide. Patchy talc rich areas start appearing @ 45.0 increasing with depth	80°-85° 80° 80° 60° upper contact 80°	strongly altered to an assemblage of talc-sericite and chlorite, this alteration facies is visually darker (chl?) than the talc rich alteration facies, rare qtz + kspar (?) veinlet.	strong sulphides throughout predominately as blotches and downout lamella in schistosity, rare (20% of total sulphide) as stringers sulphides species: all pyrite sulphide content: 20-30% py	90% Lost core to 30.4. 30.4 to 50.7: 100% core recov.
50.7 - 51.9	Graphitic Chert	Black to dk grey	aphanitic	Badly broken, black chert, typical	-----	Silicified	10% blotchy py	Core recov. @ 25%
51.9 - 54.5	Quartz Vein	Bull	Coarse	Predominately massive bull quartz broken talcose rich section to 52.0. At 53.3: broken graphitic chert over 10 cm. Lower contact sharp	----- 40°	-----	1-2% py	90% core recov.
54.5 - 56.5	Talc Schist	Tan	Fine	70% talc with light grey chert throughout, evident banding in chert strongly contorted and disrupted. Strong schist weakly veined with 10% qtz + py stockwork, stockwork stands out well in contrast to tan talc schist host.	80°	Strong talc	10% py	100% core recov.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
56.5 - 59.8	Mixed talc, chert and argillite	variable	Fine	Strongly schistose, 50% talc-rich sections with intervals to 0.5 m of mixed talc schist, chert and argillite, banding where evident is strongly contorted and disrupted. Lower contact gradational.	80°	Talc-rich	10% patchy pyrite	
59.8 - 60.0	Chert breccia	Dk grey	Fine	Clast supported breccia, lapilli sized clasts, in part, in situ in nature in a dk grey siliceous host. Lower contact sharp.	85°	Silicified?	5% fine diss py	
60.0 - 60.5	Talc schist	Tan	Fine	Talc rich with 20% grey chert as probable disrupted bands.	85°	Talc rich	10% diss. py	
60.5 - 60.8	Mixed chert, argillite & sulphides	Tan & dk grey	Fine	60% disrupted chert bands in argillite-sulphide host, @ 60.7: 1cm band of massive sulphide displaying soft sed features. Lower contact gradational	85°-90°	Talcose	20%	
60.8 - 61.4	Mixed Talc schist, chert and argillite	Tan and dk grey	Fine	70% talc schist with clasts and disrupted bands. Wispy argillite with pyrite. Lower contact sharp	85°	Talc rich	10% py	
61.4 - 61.9	Fault gouge (Mafic Tuff)	Light Grey	Fine	Broken and schistose mafic tuff.	85°	Talcose	@% diss. Py	
61.9 - 84.1	Mafic Tuff	Med to Light Grey	Fine	Mafic tuff, uniform textured, massive, insitu brecciated throughout with interfrag black cherty argillite, grading from 10 to 20% with depth, broken and moderately		Bleached from 74.2 to 76.9: talc/per clasts 80°	Overall @ 2% py from 74.2 to 76.9: 20% py	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
61.9 - 84.1				<p>cont'd from page 3</p> <p>schistose increasing intensity with depth.</p> <p>from 74.2 to 76.9: 50% mixed fine lapilli tuff and coarse mafic clasts, fine lapilli contain clasts altered to talc/sericite.</p> <p>from 76.9 to 77.7: <u>Fault zone</u> with well developed gouge, irregular qtz veining and 30% graphitic schist and gouge. Lower contact broken</p>				
84.1 - 86.5	Argillite	black & light grey	Fine	<p>Well bedded argillite, individual beds to 1cm.</p> <p>Lower contact gradational</p>	30° upper contact fairly sharp 85°-90°	-----	1% Py	
86.5 - 93.3	Epiclastic Sandstone	Med Grey	Fine to Med	<p>Fairly massive and uniformed textured throughout, individual beds to 1 m thick.</p>	90°	Rare bleached section	1% Py	
93.3 - 97.1	Argillite and Epiclastic Sandstone	Med to Light Grey	Fine	<p>80% bedded argillite. 20% fine grained sst to 0.5 m thick.</p> <p>Lower contact gradational</p>	85-90		1% Py	
97.1 - 128.3	Epiclastic Sandstone	Med Grey	Fine to Coarse	<p>Predominately sst with 10% argillite as beds to 0.5 m, sst beds to 1 m thick coarse grading to fine up and down hole.</p>				
128.3				END OF HOLE				

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% AS	% T ₂ O ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	/	
			Cu	Zn																		
0556	24.4	25.9			1.2/ 1.5	<0.01	0.01	<0.01	0.7	0.1	0.011											
0557	25.9	27.4			1.5	<0.01	0.01	<0.01	0.7	0.1	0.009											
0558	27.4	28.9			1.5	<0.01	0.02	<0.01	0.7	<0.1	0.012											
0559	28.9	30.4			1.3/ 1.5	<0.01	0.01	<0.01	5.1	<0.1	0.008											
0560	30.4	31.9			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.012											
0561	31.9	33.4			1.1/ 1.5	<0.01	0.01	<0.01	1.0	0.2	0.021											
0562	33.4	35.9			2.5	<0.01	0.01	<0.01	0.7	0.2	0.016											
0563	35.9	37.4			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.032											
0564	37.4	38.9			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.031											
0565	38.9	40.4			1.5	<0.01	0.01	<0.01	1.4	<0.1	0.012											
0566	40.4	41.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.056											
0567	41.9	43.4			1.5	<0.01	0.01	<0.01	0.7	0.1	0.011											
0568	43.4	44.9			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.012											
0569	44.9	46.4			1.5	<0.01	0.01	<0.01	0.7	0.1	0.021											
0570	46.4	47.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.021											
0571	47.9	48.9			1.0																	
0572	48.9	49.9			1.0	0.01	0.02	<0.01	2.4	<0.1	0.031											
0573	49.9	50.7			0.8	<0.01	0.02	0.01	1.0	<0.1	0.034											
0574	50.7	51.9			0.4/ 1.2																	
0575	51.9	53.2			1.2/ 1.3	<0.01	0.04	<0.01	1.0	<0.1	0.011											

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
0576	53.2	54.5			1.1/ 1.3	<0.01	0.01	<0.01	0.7	0.1	0.032												
0577	54.5	55.5			1.0	<0.01	0.01	<0.01	1.0	<0.1	0.006												
0578	55.5	56.5			1.0	<0.01	<0.01	<0.01	0.86	<0.1	0.005	0.17											
0579	56.5	57.5			1.0	<0.01	0.01	<0.01	1.18	<0.1	0.010	0.13											
0580	57.5	58.5			1.0	0.05	<0.01	<0.01	1.14	<0.1	0.007	0.08											
0581	58.5	59.8			1.3	<0.01	<0.01	<0.01	1.06	<0.1	0.005	0.09											
0582	59.8	60.0			0.2	<0.01	<0.01	<0.01	1.32	<0.1	0.003	0.04											
0583	60.0	60.5			0.5	<0.01	0.01	<0.01	1.12	<0.1	0.004	0.08											
0584	60.5	60.8			0.3	<0.01	0.01	<0.01	1.12	<0.1	0.005	0.09											
0585	60.8	61.4			0.6	<0.01	0.01	<0.01	0.3	<0.1	0.003	0.06											
0586	61.4	61.9			0.5	<0.01	<0.01	<0.01	1.14	<0.1	0.002	0.01											
0587	61.9	63.4			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.001												
0588	63.4	64.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.002	0.05											
0589	74.2	75.7			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.001												
0590	75.7	76.9			1.2	<0.01	0.01	<0.01	0.3	<0.1	0.003												

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER RG - 13	GRID Main	FIELD COORDS	LAT 101 NW	DEP 1+03 NE	ELEV 1447.44	COLLAR BRNG Az225	COLLAR DIP -50	HOLE SIZE NQ	FINAL DEPTH 93.3M	
PROJECT 212	CLAIM #	SURVEY COORDS				DATE STARTED: Dec 8, 1983 DATE COMPLETED: Dec 10, 1983	CONTRACTOR Longyear CORE STORAGE. CASING 14.0 m			
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP	
30	-49°									
61	-48°									
91	-48°									

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
14.0 - 22.0	Felsic Lapilli Tuff	Light Yellow Grey	Fine-Med	Siliceous fragments elongate ovoid fragments in ~10% talc-sericite matrix fragments <1-5 mm	70-80	Minor talc and sericite in matrix	Fine disseminated pyrite and clots of pyrite up to 5mm 5-10% pyrite overall	14.0-17.1 50% C.R. core lost @ 14.0-15.9 - ground core. 17.1-19.5 85% C.R.
22.0 - 26.2	Sulphide rich Felsic Breccia	Dk Grey	Med.	Siliceous fragments angular irregular shapes <1-3cm. Fine felsic fragmental matrix - minor sericite. <10% matrix. Quartz veinlets -brecciated (and boudined)		Very siliceous	20-30% pyrite in matrix to felsic fragments and some pyrite rich fragments.	22.3-24.1 90% C.R. 24.1-26.2 10% C.R.
26.2 - 27.1	Talc rich Felsic Tuff to lapilli tuff	Yellow-Grey	Fine-Med	Talc schist matrix - few quartz phenocrysts, brecciated quartz veins, angular elongate siliceous fragments <1cm.	60-70	60% talc matrix. Strongly schistose.	10-15% very fine disseminated pyrite.	26.2-27.1 60% C.R.
27.1 - 27.3	Semi-Massive Sulphide		Fine-Med	27.1-27.15 Black chert. 27.15-27.2 Felsic fragmental - angular white siliceous frags 27.2-27.3 Semi massive sulphide.		Siliceous	27.2-27.3 50-60% coarse pyrite in dark matrix	27.1-28.3 95% C.R.
27.3 - 27.6	Fault Gouge			10 cm core lost quartz, talc. sulphide rich.	60			
27.6 - 29.7	Mafic tuff to breccia	Light Purplish Grey	Fine - Med	Mafic tuff in situ breccia and ghost fragments 28.4-29.2 Quartz vein sub-parallel to C.A.		Talc bearing bleached	Disseminated clots of pyrite and incipient pyritic fractures 5% py overall	100% C.R.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
29.7 - 80.5	Mafic Tuff	Purplish Grey	Fine	Uniform textured fine mafic tuff, some ghost fragments and in-situ brx with black cherty argillite infillings. White mottled spots and infillings of feldspar and quartz 1-3 mm, Fine lapilli. 51.9-60.7 Mafic volcanoclastic angular irregular fragments up to 1 cm in talc chlorite matrix - minor cherty argillite beds and argillite frags in volcanoclastic gradational into main breccia mafic tuff unit.	60-80	Talcose and bleached talc rich sections @ 72.8, 74.1-74.8 talc bearing	Black argillite infillings on fractures are sulphide rich. Also disseminated clots and incipient pyritic fractures. 2-3% py overall. 1cm massive py bands, veins @ 31.5, 32, 34.7 <2% pyrite	100% C.R. 54.3-55.5 60% C.R.
80.5 - 93.3	Epiclastic Sandstone	Grey	Fine-Med	Quartz rich epiclastic sandstone, subangular to rounded clasts stretched clasts, blue quartz eyes, chert clasts, siltstone clasts Argillite beds up to 1m thick, more commonly 10 cm. Graded bedding shows tops downhole 83.5-85.4 Talc rich section of argillite and sandstone, cut by quartz veins.	70-80	Unaltered Talc rich sandstone matrix	Traces pyrite 1% Fine disseminated pyrite	100% C.R. 82.3 - 84.1 85% C.R.
93.3				- END OF HOLE -				

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD 533	14.0	16.0			2.0/0.4	<0.01	0.01	<0.01	1.7	0.1	0.011												
534	16.0	17.1			1.1	<0.01	0.02	<0.01	1.4	0.1	0.007												
535	17.1	18.0			0.9/0.5	<0.01	0.02	<0.01	1.4	<0.1	0.008												
536	18.0	19.0			1.0	<0.01	0.03	<0.01	0.7	0.1	0.008												
537	19.0	20.0			1.0	0.01	0.03	<0.01	0.7	<0.1	0.012												
538	20.0	21.0			1.0	0.01	0.02	<0.01	1.0	<0.1	0.012												
539	21.0	22.0			1.0	0.01	0.01	<0.01	1.4	0.1	0.017												
540	22.0	22.5			0.5	<0.01	0.06	0.01	0.94	<0.1	0.088												
541	22.5	23.0			0.5	0.01	0.03	0.07	0.78	<0.1	0.023												
542	23.0	23.5			0.5	<0.01	0.01	<0.01	0.90	0.1	0.015												
543	23.5	24.0			0.5	<0.01	0.01	<0.01	0.50	0.12	0.012												
544	24.0	26.2			2.2/.4	0.01	0.02	0.01	0.74	0.12	0.026	0.13											
545	26.2	27.1			0.9	<0.01	0.01	<0.01	0.42	<0.1	0.007	0.09											
546	27.1	27.3			0.2	0.02	0.09	0.01	1.00	0.12	0.013	0.05											
547	27.3	27.6			0.3	<0.01	0.03	<0.01	1.30	<0.1	0.009	0.15											
548	27.6	28.6			1.0	<0.01	0.01	<0.01	0.90	<0.1	0.007	0.09											
549	28.6	29.6			1.0	<0.01	0.01	<0.01	1.06	<0.1	0.012	0.07											
550	29.6	31.1			1.5	<0.01	0.01	<0.01	0.7	0.1	0.009												
551	31.1	32.5			1.4	<0.01	0.01	<0.01	0.7	<0.1	0.006												
552	32.5	33.6			1.1	<0.01	0.01	<0.01	0.3	<0.1	0.006												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% AS	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD 553	33.6	35.1			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.003												
554	35.1	36.6			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.009												
555	36.6	38.1			1.5	<0.01	0.02	<0.01	0.3	<0.1	0.002												

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba						
6640	16.0	19.0	48.6		4.20	5.26	3.90	.877	10.2		1.32		67	330	-1	0.1	180					11.0	
6641	46.0	49.0	48.3		5.16	2.52	2.95	3.01	5.22		1.37		18	131	16	0.1	1210					10.1	
6642	76.0	79.0	60.1		6.35	1.56	1.58	3.41	4.48		.500		7	38	3	-0.1	1470					9.15	

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DRILL HOLE RECORD

METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER RG-12	GRID MAIN	FIELD COORDS	LAT 98 + 50 NW	DEP 1 + 09 NE	ELEV. 1526.98	COLLAR BRNG. 225	COLLAR DIP -50	HOLE SIZE NQ	FINAL DEPTH 146.9 m	
PROJECT 212	CLAIM #	SURVEY COORDS.				DATE STARTED: Dec. 6 DATE COMPLETED: Dec. 7	CONTRACTOR: LONGYEAR CORE STORAGE: CASING 6.4 m			
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP	
30m	46°									
61m	43°									
91m	44°									
146.9m	45°									

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
6.4-20.1	Felsic Lapilli Tuff	Lt-Med Grey	Fine	Uniform textured siliceous rock. 10% quartz phenocrysts 20-30% white lapilli up to 1mm. Weak foliations @: Very little matrix	80-90	Minor chloritic	< 5% spotty disseminated pyrite	100% C.R.
20.1-42.8	Talc rich Felsic Lapilli	Yellow Grey	Fine to Med	Siliceous bands and indistinct fragments separated by talc rich lamellae and bands. Weak schistosity	80-90	20-40 talc rich matrix (+ sericite?)	10-15% pyrite rich laminae, bands and disseminations, few py-rich fragments 29.1-32.6 5% disseminated pyrite	20.1-23.0 90% C.R.
42.8-79.4	Felsic Lapilli Tuff to Lapillistone	Lt Grey-Yellow	Fine to Coarse	Medium to coarse siliceous fragments in talc-sericite matrix, quartz, phenocrysts 43.2-43.6 coarsely broken felsic lapillistone - very little matrix 57.4-58.2 Gouge sulphide rich with coarse siliceous rock fragments. No core loss 66.9-70.4 Cut by quartz veins every 10-20 cm. 1-2% fine pyrite in quartz veins. More talc Probably more tuffaceous 71.5 Fine kink shear @	80-90 60-80 50-60	< 10% talc-sericite matrix Very siliceous fragments sericite + talc gouge more talc-rich section	5-10% disseminated pyrite 45.8-50.8 10-2-% disseminated pyrite and pyrite rich laminae, pyrite rich fragments 53.6 pyrite 10-15% 15-20% pyrite in rock frags and gouge 10-15% pyrite overall with 1-2% pyrite in quartz veins. Trace cp in qtz vein @ 79.0	100% C.R. 100% C.R. 90% C.R. 61.9-63.6 70% C.R. 63.6-64.9 55% C.R. 64.9-65.8 100% C.R. 80% C.R. 74.9-77.4

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
79.4-83.7	Felsic Tuff	Lt green	Fine	Fine grained, light green siliceous rock. Fine white spots to 1mm-probable lapilli		Minor chlorite and sericite	5% disseminated pyrite	
83.7-89.4	Felsic Lapilli Tuff to Lapillistone	Lt Grey	Fine to Med	Fine grained massive felsic rock, coarsely broken, in-situ breccia and minor lapilli tuff 83.7-84.6		Extremely siliceous rock. 86.0-87-7 Fractures @ 10-20 cm density with 30% bright green mica, quartz veins	< 5% pyrite in fractures and disseminations. 86.6-87.7 trace chalcopyrite in quartz veins. 5-1-% pyrite in fractures	100% C.R.
89.4-95.5	Mixed chert and talc-rich Tuff			Fine banded graphitic chert. Contorted and transposed banding, also coarsely broken cherty breccia 89.8-90.3 Massive fine grained felsic rock. 5% pyrite disseminated 90.3-92.9 Thinly banded talc rich siliceous tuff-aceous rock, minor graphitic chert interbands cut by 2-3 cm quartz veins. 92.9-95.5 Graphitic chert with 5-10 cm quartz veins (silica flood?) throughout.	80-90	Talc-rich tuff Silicification	89.4-89.8 5-10% pyrite disseminations and fracture fill. 5% clotty disseminated pyrite. 5% pyrite disseminated. <5% pyrite	70% C.R. 92.7-94.8 95% C.R. 96.3-98.8
95.5-97.7	Felsic tuff to Lap tuff	Light Greenish Grey	Fine	Fine grained siliceous rock, coarsely broken 95.5-96.3 96.3-97.7 Talc rich matrix to irregular fragments of mixed quartz and <u>barite</u> . baritic rims to fragments.			<5% pyrite in fractures and disseminations. 96.3-97.7 5-10% pyrite in talc matrix and in siliceous-baritic fragments.	

RG-12

HOLE NO

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
97.7 - 100.3	Mixed graphitic chert and Tuff	Greenish Yellow to black	Fine	Finely banded graphitic chert and talc rich siliceous tuff. 98.8-99.5 Cut by 2-10cm quartz veins	80-90	Talc rich tuffaceous bands	10-15% pyrite laminae along banding.	95% C.R. 98.8-100.3 70% C.R. 100.3-102.4 98.4-98.8 Broken core and gouge 98.9-99.0 Talc rich gouge 99.8-100.3 Broken core and gouge.
100.3 - 101.1	Massive Sulphides ?			100.3-101.1 Only 20cm ground core in box. Quartz and massive Sulphide			Fine grained massive pyrite and arsenopyrite	
101.1 - 123.4	Mafic Tuff	Greenish Grey	Fine	Uniform textured greenish fine grained mafic rock. White lapilli to 1mm, ghost fragments coarsely broken (>20cm) with argillite infillings 115.0 → In situ brecciation of mafic lapilli tuff into 105cm pseudo fragments with black graphitic argillite infilling.	70-80	Chloritic	<1% disseminated pyrite	100% C.R.
123.4 - 126.1	Quartz veins and graphitic argillite breccia			Thinly banded graphitic argillite, brecciated and broken. 40% of the interval is quartz vein material barren. 50% gouge and broken core.				

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
126.1-146.9	Argillite and Epiclastic Sandstone		Fine to Medium	Thinly banded black graphitic argillite with interbands of quartz rich sandstone. Scours indicate tops downhole 137.3-138.0 and 138.5-146.9 coarser sandstone beds up to 2mm clasts -crudely graded - tops downhole.	80-90	Unaltered	<1% pyrite	100% C.R.

RG-12

HOLE NO _____

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ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD 466	20.1	21.5			1.4	0.01	0.01	<0.01	0.3	<0.1	0.002												
467	21.5	23.0			1.5	0.01	0.01	<0.01	0.3	<0.1	0.005												
468	23.0	24.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.004												
469	24.5	26.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.005												
470	26.0	27.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.005												
471	27.5	29.1			1.6	<0.01	0.01	<0.01	0.3	<0.1	0.005												
472	29.1	30.7			1.6	<0.01	0.01	<0.01	0.3	<0.1	0.004												
473	30.7	32.6			1.9	<0.01	0.01	<0.01	0.7	0.1	0.002												
474	32.6	34.1			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.008												
475	34.1	35.5			1.4	<0.01	0.01	<0.01	0.3	<0.1	0.004												
476	35.5	37.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.004												
477	37.0	38.5			1.5	<0.01	0.01	<0.01	1.4	0.1	0.006												
478	38.5	40.0			1.5	<0.01	0.01	<0.01	1.0	<0.1	0.015												
479	40.0	41.5			1.5	<0.01	0.01	<0.01	1.0	<0.1	0.018												
480	41.5	42.8			1.3	<0.01	0.02	<0.01	2.0	<0.1	0.021												
481	42.8	44.3			1.5	<0.01	0.01	<0.01	1.0	<0.1	0.009												
482	44.3	45.8			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.010												
483	45.8	46.8			1.0	<0.01	0.01	<0.01	0.7	<0.1	0.010												
484	46.8	47.8			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.007												
485	47.8	48.8			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.008												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD 486	48.8	49.8			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.009												
487	49.8	50.8			1.0	<0.01	0.01	<0.01	1.0	<0.1	0.013												
488	50.8	52.3			1.5	<0.01	0.01	<0.01	2.4	<0.1	0.008												
489	52.3	53.8			1.3	<0.01	0.01	<0.01	0.3	<0.1	0.006												
490	53.6	54.6			1.0	0.01	0.01	<0.01	0.3	<0.1	0.014												
491	54.6	55.6			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.017												
492	55.6	56.6			1.0	0.01	0.03	<0.01	0.3	<0.1	0.013												
493	56.6	57.4			0.8	<0.01	0.01	<0.01	0.3	<0.1	0.009												
494	57.4	58.2			0.8	<0.01	0.01	<0.01	1.0	<0.1	0.015												
495	58.2	59.7			1.5	<0.01	0.01	<0.01	0.7	0.2	0.015												
496	59.7	61.2			1.5	<0.01	0.01	<0.01	.14	<0.1	0.009												
497	61.2	62.7			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.006												
498	62.7	64.2			1.5	<0.01	0.06	0.01	2.4	0.2	0.157												
499	64.2	65.8			1.6	0.01	0.01	<0.01	1.0	0.1	0.016												
500	65.8	67.1			1.3	0.03	0.01	<0.01	1.4	0.2	0.007												
501	67.1	68.1			1.0	<0.01	<0.01	<0.01	1.0	<0.1	0.014												
502	68.1	69.5			1.4	<0.01	0.03	0.01	1.0	<0.1	0.015												
503	69.5	70.1			0.6	<0.01	0.01	<0.01	1.0	<0.1	0.018												
504	70.1	71.4			1.3	<0.01	0.01	<0.01	2.0	<0.1	0.013												
505	71.4	72.9			1.5	<0.01	0.01	<0.01	1.0	0.1	0.012												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD 506	72.9	74.4			1.5	< 0.01	0.02	< 0.01	6.2	0.1	0.015												
507	74.4	75.9			1.5	< 0.01	0.01	< 0.01	1.4	0.2	0.016												
508	75.9	77.4			1.5	0.01	0.03	0.02	1.7	0.2	0.015												
509	77.4	78.9			1.5	< 0.01	0.01	< 0.01	2.7	< 0.1	0.033												
510	78.9	80.4			1.5	< 0.01	0.01	< 0.01	1.0	< 0.1	0.040												
511	80.4	81.9			1.5	< 0.01	0.01	< 0.01	1.0	< 0.1	0.053												
512	81.9	83.4			1.5	< 0.01	0.01	< 0.01	1.0	< 0.1	0.020												
513	83.4	84.9			1.5	< 0.01	0.02	< 0.01	1.7	0.1	0.194												
514	84.9	86.0			1.1	< 0.01	0.01	< 0.01	1.7	< 0.1	0.030												
515	86.0	86.9			0.9	< 0.01	0.01	< 0.01	1.7	0.1	0.013												
516	86.9	87.7			0.8	0.01	0.01	< 0.01	0.3	< 0.1	0.008												
517	87.7	88.6			0.9	< 0.01	0.01	< 0.01	0.3	< 0.1	0.019												
518	88.6	89.4			0.8	< 0.01	0.02	0.02	0.3	< 0.1	0.024												
519	89.4	89.8			0.4	< 0.01	0.01	< 0.01	0.3	< 0.1	0.008	0.09											
520	89.8	90.3			0.5	0.02	0.02	< 0.01	0.3	< 0.1	0.010	< 0.01											
521	90.3	91.4			1.1	< 0.01	0.01	< 0.01	0.3	< 0.1	0.005	0.05											
522	91.4	92.5			1.1	< 0.01	0.01	< 0.01	0.3	< 0.1	0.005	0.10											
523	92.5	93.5			1.0	< 0.01	0.01	< 0.01	0.3	< 0.1	0.008	0.08											
524	93.5	94.5			1.0	< 0.01	0.02	0.07	0.88	< 0.1	0.007	0.05											
525	94.5	95.5			1.0	< 0.01	0.01	< 0.01	0.3	< 0.1	0.012	0.11											

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% AS	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au				
			Cu	Zn																				
BCD 526	95.5	96.5			1.0	<0.01	0.01	0.01	0.3	<0.1	0.027	0.04												
527	96.5	97.7			1.2	<0.01	0.01	<0.01	0.3	<0.1	0.015	0.08												
528	97.7	98.8			1.1	<0.01	0.01	<0.01	0.3	<0.1	0.007	0.09												
529	98.8	99.8			1.0	<0.01	0.01	0.02	0.72	<0.1	0.010	0.06												
530	99.8	100.3			0.5	<0.01	0.01	0.02	0.3	<0.1	0.014	0.09												
531	100.3	101.1			0.8/.2	<0.01	0.01	0.28	1.22	<0.1	0.027	0.01												
532	101.1	102.6			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.001	0.07												

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM ()	TO ()	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.		
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba							
6636D	10	13	43.6		6.02	10.5	.992	1.41	9.94		2.14		55	118	-1	0.1	460					11.8		
6637D	40	43	47.9		7.32	4.94	1.36	2.16	10.2		1.62		47	130	4	0.1	480					12.7		
6638D	70	73	52.2		2.74	4.16	4.03	1.47	11.1		1.38		83	121	17	0.3	170					8.20		
6639D	101	104	62.9		3.40	4.03	1.46	1.99	7.48		.517		11	130	19	-0.1	690					7.35		

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

METRIC UNITS X
IMPERIAL UNITS

HOLE NUMBER RG - 11	GRID MAIN	FIELD COORDS	LAT 99+100 NW	DEP 1+65 NE	ELEV 1501.53	COLLAR BRNG 225°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 164.4	
PROJECT 212	CLAIM #	SURVEY COORDS				DATE STARTED: Dec 5, 1983 DATE COMPLETED: Dec 7, 1983	CONTRACTOR: Longyear CORE STORAGE: CASING 6.7			
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP	
30	-47°									
61	-49°									
91	-49°									
122	-48°									
152	-46°									

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
6.7 - 11.2	Oxidized Ser/Talc Schist	Tan	Fine	Moderately schistose with 20-30% siliceous bands and 10-20% pyritic bands up to 1 cm in schist host. Lower contact broken probably sharp.	80-85	60% talc/ser	10-20% py	Core badly broken to 7.7. 7.7 to 11.2: 100% core recov.
11.2 - 13.7	Rhyolite Breccia	Light Grey	Fine aphanitic	Matrix poor rhyolite fragmental, rhyolite frags to 3cm, 5% inter frag sec/talc, frags aphanitic, massive and uniform textured. Fine leucoxene-type spotting. Lower contact broken, sharp?	-----	Silicified	1-3% py	Core recov. @ 100%
13.7 - 34.8	Felsic Tuff and Lapilli Tuff	Med Grey	Fine	Moderately banded, weakly schistose fairly uniform coarse felsic tuff with ghost lapilli clasts throughout. From 13.7 to 14.9: moderately schistose and oxidized. From 33.5 to 34.8: unit coarser to felsic lapilli tuff. Lower contact gradational.	85° 85°	Wk chlorite along schistosity, from 13.7-14.9: oxidized and mod schistose (ser?). Scattered fractures with oxidized surfaces	1-3% diss py through, fairly uniform. From 33.5 to 34.8: 5-7% coarse py	Core recov @ 100%
34.8 - 44.6	Felsic Lapilli Tuff	Med to dk Grey	Fine	As above but sulphide content higher with very fine diss py in 50% inter lapilli wkly to moderately sericitic host, 1-5 mm lapilli distinct occur has creamy grey to light grey clasts in dk sulphide rich host.	85°	Wk to moderate sericite	20% fine py	Core recov @ 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
44.6 - 51.3	Felsic Lapilli Tuff	Med Grey and Tan	Fine	Typical lapilli tuff as above, wk to moderate sericite/talc grading to weak sericite/talc with depth. Lower contact gradational	85°	Wk to moderate ser/talc	5-10% diss and patchy py at 48.5: 3cm wide py (80%) qtz vein at 60°.	
51.3 - 58.1	Altered Felsic Lapilli Tuff (Schist)	Tan	Fine	As before, however, moderately to strongly altered to talc/ser schist moderately schistose, 20% distinct felsic lapilli throughout. Lower contact sharp	80° - 85°	Moderate to strong talc/sericite.	10-2% Py, diss and patchy bands in schistosity.	Core recov. @ 100%
58.1 - 58.3	Banded chert (siliceous exhalite)	Light Grey	Aphanitic	Fairly well banded with bands 5mm to 1 cm wide Lower contact sharp	80	Siliceous	10% patchy and diss Py and Imm concentrations paralleling banding.	
58.3 - 79.3	Felsic Lapilli Tuff	Light to Med Grey	Fine	Typical lapilli tuff, wkly schistose finely tuffaceous to 61.3. From 61.3 to 62.4: strongly schistose From 64.9 - 65.5: banding broken with possible fault gouge @ 65.4 At 66.0: 1 cm fault gouge At 67.5: 1 cm broken gouge At 69.6: 2 cm gouge From 71.9 - 71.9: Cherty lapilli stone clast supported clast 2-3 cm Lower contact gradational	85° 85° 75° ? 80°	wk chl/ser/talc	From 58.3-68.0: 5% diss Py From 68.0-72.0: 10% diss Py in wispy bands From 72.0-79.3: 10% grading to 5% diss Py.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
79.3 - 97.9	Felsic Lapilli Tuff with pyrite Stockwork	Med Grey	Fine	Felsic lapilli tuff as before but coarsely broken and bedded in part with py + qtz stockwork veins up to 1cm, at 93.6 pyrite rich vein 4 wide @ 90°. From 83.8-85: strongly schistose, broken. At 89.2: 3 cm fault gouge. At 96.2: 1 cm fault gouge. Lower contact marked by narrow gouge and fault bx 1 cm wide.	80° 80° 45° 90° 80°-90°	grades from weak ser/talc/chl to wk chlorite	20-3-% pyrite, increasing with depth, as distinct pyrite (qtz) stockwork with veins averging 1cm, and as poorly defined disseminated zones crudely paralleling schistosity.	core recov. @ 100%
97.9 - 101.5	Graphitic chert	Black	aphanitic	Black chert with graphite developed along fracture planes, massive looking, broken throughout. From 100.6-100.8: bull qtz vein with broken contacts. Lower contact broken.	-----	Silicified	1-2% fine diss. Py	core recov. @ 80%
101.5 - 103.9	Chert Breccia	Med Grey	aphanitic	Insitu broken grey chert with 10% wispy talc/ser interstitial. Lower contact marked by 2cm fault gouge	variable ± 90°	10% talc/ser, silicified host?	10% Py assoc with talc/ser trace AsPy	core recov @ 50%
103.9 - 104.8	Talc Schist with chert breccia	Tan and Light Grey	Fine	60% talc schist, 40% grey chert fragments. Lower contact gradational	85-90	60% talc	5% diss Py	core recov @ 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
104.8 - 110.2	Mixed chert clasts and talcose tuff	Tan & Med to light Grey	Fine	Mixed assemblage of light and medium grey chert clasts, 30% talc rich tuffaceous fragments and interclastic wisps.	variable	30% talc fragments	10% interclastic Py with a tr. As Py.	core recov. @ 100%
110.2 - 116.1	Chert Breccia	Dk Grey	aphanitic	Broken and clastic chert with clasts to 2 cm, subround to subangular in a siliceous sulphide host. Lower contact gradational	variable	Silicified	From 110.2 - 112.0: 15-20% clastic looking pyrite with 1% AsPy From 112.0 - 112.6: 40% clastic looking Py with 3% As Py From 112.6 - 116.1: 10% Py (trace AsPy)	0.5 m lost core at 110.9
116.1 - 119.2	Brecciated talc schist and chert	Tan	Fine	Predominately talc rich fragments, 30% grey chert fragments, with 10% stockwork and diss. sulphide. Lower contact gradational		Strong talc	10% Py <1% AsPy	Core recov. @ 100%
119.2 - 128.1	Chert Breccia with Massive Sulphides	Dk Grey	aphanitic	Broken and clastic chert in a siliceous host, massive sulphide sections up to 15 cm thick decreasing in concentration and thickness with depth, unit grades from a medium grey to a light grey to a tannish light grey with depth in response to increase in talc content and possibly a tuffaceous component. Lower content gradational	85°-90°	Silicified grading wk/moderate talc with depth	20% as bands of massive sulphide up to 15 cm wide 12% Py 3% cp 5% AsPy tr. Pbs } in massive sections From 119.2-119.5: 30% Py, 2% As Py From 119.5-121.0: 10% Py, 5% As Py From 121.0 - 121.3: 10% Py 10% As Py, 3% Cp From 121.3-121.45: Massive 40% Py, 40% AsPy, 3% Cp @ 90° From 121.45-121.8: 2% Py, 2% AsPy	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
119.2 - 128.1				cont'd from page 5			cont'd from page 5 From 121.8-121.9: massive 40% Py, 30% AsPy, 2% Pbs, 3% Cp. From 121.9-122.5: 3cm massive bands @ 81° carrying 40% Py, 40% AsPy, 3% Cp, tr. Pbs. From 122.5-128.1: overall 10% Py, 1% AsPy, Tr. Pbs, and Cp with sulphide rich intervals @: 124.0 - 4cm \bar{w} 50% Py, 3% AsPy, 1% Cp, Tr. Pbs 124.4 - 8cm \bar{w} 50% Py, 1-2% AsPy, Tr. Cp, Pbs. 124.6 - 4cm \bar{w} 60% Py, 3% Aspy, 1% Cp, 1% Pbs. 127.3-1cm \bar{w} 60% Py, 1% AsPy TrCp, TrPbs.	
128.1 - 134.0	Mixed Chert and Talc Schist	Tan	Fine	Cherty bands with wispy talc schist grading with depth to talc schist with scattered cherty bands.		Strong talc with depth	overall sulphides @ 10% Py with Tr. AsPy, Pbs Cp. From 130.2-130.7: 30% Py, 1% AsPy, 1% Cp, 1% Pbs as massive bands to 1cm @ 85°.	core recov. @ 100%
134.0 - 135.0	Mixed Sulphitic Argillite & Felsic Lapilli	Dk to Med Grey	Fine	Well bedded talcose argillite with mixed felsic lapilli, subround to 1 cm, totalling 80% of unit, argillite with clastic fine sedimentary pyrite bands to 5mm wide. Lower contact fault gouge.	80°	wk to med talc	30% sulphide as fine sedimentary pyrite	core recov. @ 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
135.0 - 137.6	Mixed Felsic Lapilli and Sulphidic Argillite	Med to Dk Grey	Fine	Mixed clastic predominantly felsic lapilli as in above unit totalling 60% with argillite bands and flat clasts totalling 20%, 20% sulphides as bands assoc. to argillite and frags. From 135.0-135.2: broken fault gouge Lower contact	80° 80°-90°	Talcose	20% Py as diss. in argillite bands to 3mm and clasts to 2mm.	Core recov. @ 100%
137.6 - 140.0	Cherty Argillite	Black	Fine to aphanitic	Very hard chert argillite with well developed band enhanced by fine grained sedimentary pyrite developed along bedding planes, excellent fine sedimentary sulphide textures, 10% scattered felsic lapilli, graphite developed along fractured planes, framboidal pyrite to 2mm, Lower contact gradational	80°-85°	Silicified argillite?	25% pyrite as well defined sedimentary concentrations and as framboids.	reminiscent of cherty graphitic zone in strata hanging wall to Kidd Creek.
140.0 - 141.0	Mixed Felsic Lapilli and Cherty Argillite	Med Grey to black		60% med grey felsic clasts to 1 cm in a black cherty argillite (as above) host. From 139.8-140.0: fracture and qtz heeled cherty argillite.	85°	Silicified	20% blotchy Py.	
141.0 - 142.8	Mixed Clastic	Dk Grey	Fine	Fine mixed clastic in cherty argillite host, mixture of black chert, pyrite, argillite clasts, fragment size not exceeding 1mm, graded beds up to 30 cm, firm 142.0-142.8 clast size increased to 1 cm.	85°	Silicified	20% Py - fine clastic and framboidal.	excellent primary sedimentary textures.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
141.0 - 142.8				cont'd from page 7 Lower contact sharp	85°			
142.8 - 154.8	Mafic Tuff	Med and Dk Grey	Fine	Coarsely borken with 10-20% inter frag black cherty argillite host, the tuff is textured with lmm creamy grey siliceous spots through- out, rare massive tuffa- ceous sections to lm. Lower contact gradational	80°-90°	Bleached Mafic	1-2% diss. Py	Badly broken from 152.0-153.0
154.8 - 164.4	Argillite & Epiclastic Sandstone		Fine	From 154.8-156.7 argillite	80-85		2% diss Py	
			Med	From 156.7-157.6: epiclastic sandstone			5% blotchy Py	
			Fine	From 157.6-157.8: argillite	80-85		2% diss Py	
			Med	From 157.8-160.2: epiclastic sandstone			1% Py	
			Fine	From 160.2-160.3: argillite	90°		1% Py	
			Med	From 160.3-163.8: epiclastic sst			1% Py	
			Fine	From 163.8-164.4: argillite	90°		1% Py	
164.4				END OF HOLE				

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba					
6631D	14	17	48.3		4.84	8.16	1.14	1.86	9.77		1.92		52	65	1	0.1	410					10.6
6632	45	48	43.2		7.50	5.72	1.28	2.46	9.74		2.05		44	75	-1	0.1	320					13.2
6633	75	78	43.2		8.38	6.02	.712	2.64	8.19		1.23		67	72	3	0.4	360					14.9
6634	105	108	66.7		.478	1.76	.297	3.45	6.99		.701		16	210	44	0.6	1820					6.00
6635	143	146	53.5		5.39	3.40	1.25	2.43	5.13		.617		17	61	5	0.1	1240					10.9

ZIPPY PRINT™ — BRIDGEPORT, RICHMOND

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% AS	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
307	7.0	8.4			1.4	0.01	0.01	<0.01	0.7	< 0.1	0.007												
308	8.4	9.8			1.4	<0.01	0.01	<0.01	0.3	< 0.1	0.003												
309	9.8	11.2			1.4	<0.01	0.01	<0.01	0.3	< 0.1	0.007												
310	11.2	12.4			1.2	<0.01	<0.01	<0.01	0.3	< 0.1	0.008												
311	12.4	13.7			1.3	<0.01	<0.01	<0.01	0.3	< 0.1	0.003												
312	13.7	15.2			1.5	<0.01	<0.01	<0.01	0.3	< 0.1	0.005												
313	15.2	16.7			1.5	<0.01	0.01	<0.01	0.7	< 0.1	0.001												
314	16.7	18.2			1.5	<0.01	0.01	<0.01	0.7	< 0.1	<0.001												
315	18.2	19.7			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
316	19.7	21.2			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
317	21.2	22.7			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
318	22.7	24.2			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
319	24.2	25.7			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
320	25.7	27.2			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
321	27.2	28.7			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
322	28.7	30.2			1.5	<0.01	0.01	<0.01	0.3	< 0.1	<0.001												
323	30.2	31.7			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.001												
324	31.7	33.2			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.002												
325	33.2	34.8			1.6	<0.01	0.01	<0.01	0.3	< 0.1	0.002												
326	34.8	36.3			1.5	<0.01	<0.01	<0.01	0.3	< 0.1	0.006												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm. T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au		
			Cu	Zn																		
327	36.3	37.8			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.007											
328	37.8	39.3			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.002											
329	39.3	40.8			1.5	<0.01	<0.01	<0.01	0.7	<0.1	0.004											
330	40.8	42.3			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.003											
331	42.3	43.8			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.002											
332	43.8	44.6			0.8	<0.01	<0.01	<0.01	0.7	<0.1	0.003											
333	44.6	46.1			1.5	0.01	0.01	0.01	0.3	<0.1	0.001											
334	46.1	47.6			1.5	0.01	0.01	0.01	0.7	<0.1	0.003											
335	47.6	49.1			1.5	0.01	0.02	0.01	0.7	<0.1	0.007											
336	49.1	50.3			1.2	0.01	0.01	0.01	0.3	<0.1	0.002											
337	50.3	51.3			1.0	0.01	0.01	0.01	0.7	<0.1	0.002											
338	51.3	52.3			1.0	0.01	0.01	0.01	0.3	<0.1	0.006											
339	52.3	53.3			1.0	0.01	0.01	0.01	0.7	<0.1	0.008											
340	53.3	54.8			1.5	0.01	0.01	0.01	0.7	<0.1	0.006											
341	54.8	56.3			1.5	0.01	0.01	0.01	0.7	<0.1	0.008											
342	56.3	57.3			1.0	0.01	0.01	0.01	0.7	<0.1	0.007											
343	57.3	58.1			0.8	0.01	0.01	0.01	0.3	<0.1	0.010	0.02										
344	58.1	58.3			0.2	0.01	0.01	0.01	0.3	<0.1	0.014	0.03										
345	58.3	59.8			1.5	0.01	0.01	0.01	0.3	<0.1	0.004											
346	59.8	61.3			1.5	0.01	0.01	0.01	0.3	<0.1	0.003											

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
347	61.3	62.8			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.005												
348	62.8	64.3			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.002												
349	64.3	65.8			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.003												
350	65.8	67.3			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.004												
351	67.3	68.8			1.5	<0.01	0.02	<0.01	0.3	< 0.1	0.004												
352	68.8	70.3			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.005												
353	70.3	71.8			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.003												
354	71.8	73.3			1.5	<0.01	0.01	<0.01	0.7	< 0.1	0.003												
355	73.3	74.8			1.5	<0.01	0.01	<0.01	0.3	< 0.2	0.002												
356	74.8	76.3			1.5	0.01	0.01	<0.01	0.58	<0.01	0.003												
357	76.3	77.8			1.5	0.01	<0.01	<0.01	0.3	< 0.1	0.005												
358	77.8	79.3			1.5	<0.01	0.01	<0.01	6.8	< 0.1	0.008												
359	79.3	80.8			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.008												
360	80.8	82.3			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.012												
361	82.3	83.8			1.5	0.01	0.01	<0.01	0.58	< 0.1	0.009												
362	83.8	85.3			1.5	0.01	0.01	<0.01	0.3	< 0.1	0.015												
363	85.3	86.8			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.012												
364	86.8	88.3			1.5	<0.01	0.01	<0.01	0.58	< 0.1	0.013												
365	88.3	89.8			1.5	<0.01	0.01	<0.01	0.3	< 0.1	0.016												
366	89.8	91.3			1.5	0.01	0.01	<0.01	0.66	< 0.1	0.014												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm. T Au	% AS	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
367	91.3	94.8			3.5	<0.01	0.01	<0.01	0.3	<0.1	0.016												
368	94.8	96.3			1.5	0.01	0.03	0.01	0.3	<0.1	0.065												
369	96.3	97.9			1.6	<0.01	0.02	<0.01	0.3	<0.1	0.038												
370	97.9	99.4			1.5/ 1.3	<0.01	0.01	<0.01	0.94	<0.1	0.015	0.15											
371	99.4	101.5			1.1/ 0.9	<0.01	0.02	<0.01	0.56	<0.1	0.009	0.03											
372	101.5	102.7			1.2/ .5	<0.01	<0.01	<0.01	0.82	<0.1	0.011	0.12											
373	102.7	103.9			1.2/ .6																		
374	103.9	104.8			0.9	<0.01	0.01	<0.01	0.72	<0.1	0.009	0.13											
375	104.8	106.3			1.5	<0.01	0.03	0.01	0.78	<0.1	0.023	0.10											
376	106.3	107.8			1.5	<0.01	0.01	<0.01	0.74	<0.1	0.017	0.20											
377	107.8	109.0			1.2	<0.01	0.01	<0.01	0.96	<0.1	0.016	0.13											
378	109.0	110.2			1.2	<0.01	0.01	0.01	0.90	<0.1	0.026	0.09											
379	110.2	111.1			0.9	<0.01	0.18	0.18	3.38	1.8	0.079	0.09											
380	111.1	112.0			0.9/ 0.5	0.02	0.90	0.44	6.84	2.1	1.690	0.03											
381	112.0	112.6			0.6	0.09	3.31	1.48	19.14	3.48	6.290	<0.02											
382	112.6	114.1			1.5	<0.01	0.05	0.04	1.90	0.2	0.094	0.07											
383	114.1	115.1			1.0	<0.01	0.02	0.01	1.24	<0.1	0.019	0.08											
384	115.1	116.1			1.0	<0.01	0.01	0.01	1.22	0.12	0.054	0.19											
385	116.1	117.1			1.0	<0.01	0.01	0.01	1.22	0.1	0.046	0.10											
386	117.1	118.1			1.0	<0.01	<0.01	<0.01	1.42	<0.1	0.011	0.17											

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
387	118.1	119.2			1.1	<0.01	0.01	0.03	1.28	<0.1	0.012	0.22											
388	119.2	119.9			0.7	<0.01	0.06	0.13	2.32	0.24	0.024	0.23											
389	119.9	121.0			1.1	0.09	4.26	1.96	11.6	0.1	0.643	0.08											
390	121.0	121.3			0.3	0.48	3.84	2.96	42.7	0.5	4.140	0.01											
391	121.3	121.45			0.15	0.82	12.30	7.37	58.78	5.36	5.210	0.09											
392	121.45	121.8			0.35	0.01	0.19	0.20	2.64	0.18	0.121	0.07											
393	121.8	121.9			0.1	1.07	11.70	4.79	48.12	1.84	1.520	<0.01											
394	121.9	122.5			0.6	0.05	1.77	0.70	11.64	0.74	0.902	0.09											
395	122.5	123.5			1.0	<0.01	0.17	0.11	1.2	0.2	0.260	0.12											
396	123.5	124.5			1.0	0.03	0.63	0.42	5.10	0.44	0.212	0.07											
397	124.5	125.5			1.0	<0.01	0.05	0.07	2.36	0.22	0.071	0.05											
398	125.5	126.5			1.0	<0.01	0.01	0.01	1.44	0.14	0.020	0.07											
399	126.5	127.5			1.0	<0.01	0.02	0.01	0.7	<0.1	0.015	0.02											
400	127.5	128.1			0.6	<0.01	<0.01	<0.01	1.14	0.14	0.011												
451	128.1	129.1			1.0	<0.01	0.03	0.04	1.56	0.28	0.128	0.60											
452	129.1	130.2			1.1	0.02	0.10	0.07	1.0	<0.1	0.048	0.10											
453	130.2	130.7			0.5	<0.01	0.18	0.08	2.44	0.3	0.108	0.10											
454	130.7	131.7			1.0	<0.01	0.01	0.03	1.0	<0.1	0.008	0.07											
455	131.7	132.7			1.0	<0.01	0.04	0.06	0.7	<0.1	0.014	0.10											
456	132.7	134.0			1.3	<0.01	0.01	0.02	0.7	<0.1	0.007	0.11											

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
457	134.0	135.0			1.0	<0.01	0.07	0.01	0.3	<0.1	0.010												
458	135.0	136.3			1.3	0.01	0.01	<0.01	0.3	<0.1	0.008	0.10											
459	136.3	137.6			1.3	<0.01	0.04	<0.01	0.3	<0.1	0.006	0.05											
460	137.6	138.8			1.2	<0.01	0.06	0.01	0.7	0.1	0.019	0.08											
461	138.8	140.0			1.2	<0.01	0.14	0.02	0.7	<0.1	0.016	0.07											
462	140.0	141.0			1.0	<0.01	0.02	<0.01	0.7	<0.1	0.006	0.07											
463	141.0	141.9			0.9	0.02	0.13	0.05	0.7	<0.1	0.034	0.09											
464	141.9	142.8			0.9	0.02	0.06	0.04	0.3	<0.1	0.040	0.04											
465	142.8	144.3			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.002	0.12											
	119.9	121.45			1.55	.24	4.96	2.68	22.2	.69													
	121.45	128.1			6.65	.03	.47	.24	3.6	.27													
	119.9	128.1			8.2	.07	1.32	.70	7.1	.35													

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
6.1 - 16.3	Felsic Tuff	Dark Grey		Siliceous fragments, 1mm white lapilli in chlorite talc rich matrix. Moderately schistose.	60-70	Talc and chlorite altered	Some sections very heavy pyrite 50-60% groundcore. Mostly 5-10% very fine pyrite (and arsenopyrite ?)	6.1-11.00: 20% core recovery 11.0-12.2: 25% core recovery 12.2-17.0: 40% core recovery
16.3 - 17.5	Quartz stockwork in Felsic Tuff	Grey		Felsic rock strongly cut by quartz veins @ 70-90 to C.A.		Talc, quartz veining	Arsenopyrite and pyrite in and marginal to quartz veins. 15-20% sulphides overall.	Very poor recovery due to casing problems. Talc rich gouge @ 19.2.
17.5 - 43.7	Felsic Tuff to lapilli Tuff	Light Grey	Fine	Felsic fragmented. Lapilli up to 3mm - graded lapilli beds? talc + sericite lamellae between siliceous nodules		Talc and sericite on fractures and minor in matrix 5% overall.	17.5-24.2 Disseminated, semi massive bands and veinlet pyrite 10-20% overall traces arsenopyrite throughout. Trace chalcopyrite @ 24. m	100% C.R. Talc gouge @ 31.3 No core loss Talc gouges @ 36.7 No core loss. 100% C.R.
43.7 - 53.3	Chert and Cherty Breccia	White to Dk Grey	Fine	Finely banded to massive white to graphitic chert. Few talc rich tuffaceous bands. Irregular, contorted to transposed bedding. 46.8-47.9: Quartz vein rich, silica flooded section.		Talc rich bands esp.	Arsenopyrite coarse rosettes at 34.8, 36.9, 39.2, 5% arsenopyrite-pyrite veins. Heavy sulphides throughout. 43.6-50.9: 10% pyrite, 1% arsenopyrite overall. 45.6-47.0: 10% arsenopyrite, trace chalcopyrite in quartz rich section. 50.9-53.3: 25-35% pyrite including 5% arsenopyrite. 1-2% chalcopyrite.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
53.3 - 54.9	Quartz and Sulphides	White & Dark		Quartz rich section veins and/or silica flooded zone.		Quartz	50% sulphides. Arsenopyrite and chalcopyrite rich. 20% arsenopyrite. 1-3% chalcopyrite. 53.3-53.4, 54.8-54.9: Massive sulphide sections.	42.8-43.4: 90% C.R. 43.4-44.7: 50% C.R. 51.2-53.6: 90% C.R. 54.9-59.4: 35% C.R.
54.9 - 55.8	Cherty Tuff	Lt Yellow Grey		Coarsely broken talc bearing chert. Fractures are talc coated.		Talc on fractures	5-10% pyrite on fractures and in clots. Trace arsenopyrite.	55.8 talc rich gouge. Probably 3m core lost.
55.8 - 58.7	LOST CORE							
58.7 - 59.0	Sulphide rich chert	Dk Grey	Fine	Fine grained siliceous chert		Siliceous	25% pyrite and pyrite disseminated. About 5% arsenopyrite.	
59.0 - 60.7	Quartz Vein	White		59.0-59.7: Massive white crystalline quartz. 59.0-59.7: Massive quartz with sulphide mineralization.			59.7-60.7: Mineralized with 5-10% pyrite, trace galena and chalcopyrite. 59.8-59.9: Heavy galena vein cutting quartz. 60.9-61.2: 5% pyrite disseminated in matrix.	60.4-60.5: Graphitic gouge. No core lost. 100% C.R.
60.7 - 62.9	Talc rich mafic tuff	Yellow	Fine to Med	Talc rich altered mafic tuff. Weakly banded, white spotting 1mm. 60.9-61.2: Felsic lapilli tuff. Angular siliceous frags in talc rich matrix. 61.3-61.6: Quartz veins cutting.		Talc and sericite rich 30-40% talc.	61.3-61.6: arsenopyrite in fractures and quartz veins. 1-2mm cubes.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
62.9 - 93.0	Argillite & Epiclastic Sandstone	Lt Grey to Black	Fine	Thinly banded black graphitic argillite and fine grained epiclastic sandstone. Becomes more sandy from 88.5 to bottom of hole. 88-2-88.5: Quartz vein-barren 85.9-86.2: Quartz vein-barren	60-80	Minor talc	Clots and disseminations of pyrite. 1% overall	Gouge @ 65.2-67.7 No core lost. 80.8-84.1: 90% C.R. 84.1-86.3: 65% C.R. 89.3-92.0: 65% C.R. Core badly broken and ground. 80-83

ASSAY SHEET

Sample Number	From (')	To (')	Estimate		Length (')	% Cu	% Zn	% Pb	gm. T Ag	gm. T Au	% AS	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD 255	6.4	7.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.010												
256	7.9	11.0			3.1	<0.01	0.01	0.01	0.3	<0.1	0.008												
257	11.0	12.2			1.2	0.01	0.01	<0.01	0.3	<0.1	0.039												
258	12.2	16.0			3.8	<0.01	0.01	<0.01	0.3	<0.1	0.013												
259	16.0	17.0			1.0	<0.01	0.07	0.01	0.3	<0.1	0.017												
260	17.0	18.0			1.0	<0.01	0.02	<0.01	0.3	<0.1	0.114												
261	18.0	19.0			1.0	<0.1	0.01	0.01	0.3	<0.1	0.019												
262	19.0	20.0			1.0	<0.01	0.01	0.01	0.3	<0.1	0.017												
263	20.0	21.0			1.0	<0.01	0.02	<0.01	0.3	<0.1	0.018												
264	21.0	22.0			1.0	<0.01	0.03	0.01	0.7	<0.1	0.037												
265	22.0	23.0			1.0	0.01	0.09	0.02	0.7	<0.1	0.018												
266	23.0	24.2			1.2	0.09	0.04	0.09	1.0	0.2	0.235												
267	24.2	25.7			1.5	0.02	0.02	<0.01	0.3	<0.1	0.012												
268	25.7	27.2			1.5	0.03	0.02	0.01	0.3	<0.1	0.018												
269	27.2	28.7			1.5	0.03	0.01	0.02	0.3	<0.1	0.013												
270	28.7	30.3			1.6	0.02	0.02	<0.01	0.7	0.2	0.018												
271	30.3	31.8			1.5	<0.01	0.03	<0.01	0.3	<0.1	0.022												
272	31.8	33.3			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.017												
273	33.3	34.3			1.0	0.01	0.05	0.02	0.3	<0.1	0.008												
274	34.3	35.3			1.0	0.02	0.03	0.01	0.7	<0.1	0.041												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au		
			Cu	Zn																		
BCD 275	35.3	36.3			1.0	0.01	0.04	0.03	0.3	<0.1	0.093											
276	36.3	37.3			1.0	0.01	0.41	0.10	0.7	<0.1	0.630											
277	37.3	38.3			1.0	0.01	0.05	0.04	0.3	<0.1	0.016											
278	38.3	39.3			1.0	0.01	0.02	0.02	0.3	<0.1	0.413											
279	39.3	40.3			1.0	0.01	0.02	<0.01	0.7	<0.1	0.040											
280	40.3	41.3			1.0	<0.01	0.01	<0.01	0.7	<0.1	0.074											
281	41.3	42.2			0.9	0.02	0.02	0.03	0.7	<0.1	0.109											
282	42.2	43.7			1.5	<0.01	0.05	0.09	0.7	<0.1	0.164											
283	43.7	44.8			1.1/ .5	<0.01	0.01	0.01	1.4	0.1	0.024	0.31										
284	44.8	45.8			1.0	<0.01	<0.01	<0.01	1.7	0.2	0.011	0.24										
285	45.8	46.5			0.7	<0.01	0.08	0.03	9.6	0.2	0.042	0.12										
286	46.5	47.0			0.5	0.01	0.09	0.06	2.0	0.2	0.557	0.08										
287	47.0	48.0			1.0	<0.01	<0.01	0.01	1.4	0.1	0.027	0.17										
288	48.0	49.0			1.0	<0.01	<0.01	0.03	2.0	0.1	0.013	0.21										
289	49.0	49.8			0.8	<0.01	0.06	0.06	2.4	0.1	0.176	0.20										
290	49.8	50.9			1.1	<0.01	0.02	0.04	4.1	0.1	0.150	0.13										
291	50.9	51.4			0.5	0.08	0.43	0.31	7.2	0.2	0.584	0.42										
292	51.4	51.9			0.5	0.20	1.11	0.86	13.7	.3	1.250	0.41										
293	51.9	52.4			0.5	0.21	1.08	0.54	9.3	.3	1.760	0.30										
294	52.4	53.3			0.9/ .6	0.13	0.60	0.63	7.5	.2	0.887	0.27										

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm. T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD 295	53.3	53.5			0.2	0.65	5.47	2.96	43.8	2.6	6.940	0.33											
296	53.5	53.9			0.4	0.17	1.41	0.82	17.8	.2	1.340	0.31											
297	53.9	54.4			0.5	0.41	2.40	1.03	19.8	.9	3.450	0.46											
298	54.4	54.8			0.4	0.12	0.41	0.42	8.9	.5	2.040	0.38											
299	54.8	54.9			0.1	0.35	6.30	2.14	32.2	2.1	7.230	0.69											
300	54.9	58.7			3.8/ .9	<0.01	0.13	0.06	2.7	.3	0.091	0.83											
301	58.7	59.0			0.3	0.01	0.02	0.13	6.9	1.7	0.054	2.02											
302	59.0	59.8			0.8	<0.01	0.04	<0.01	.7	<.1	0.004												
303	59.8	60.7			0.9	0.01	1.30	2.31	12.6	3.8	0.014												
304	60.7	61.2			0.5	0.01	0.02	0.04	2.4	.3	0.034												
305	61.2	61.8			0.6	<0.01	<0.01	<0.01	0.3	<0.1	0.461												
306	61.8	62.8			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.160												

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM ()	TO ()	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba						
6629	18	21	47.9		4.35	3.86	2.08	1.77	13.2		1.27		61	69	54	0.6	380					11.6	
6630D	40	43	56.5		2.41	5.90	1.40	1.53	8.92		1.15		91	170	119	0.5	640					7.75	

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER RG - 9	GRID MAIN	FIELD COORDS	LAT. 99+00 NW	DEP. 0+49 NE	ELEV. 1530.45	COLLAR BRNG. 225°	COLLAR DIP - 50°	HOLE SIZE NQ	FINAL DEPTH 82.9 m
PROJECT 212	CLAIM #	SURVEY COORDS				DATE STARTED: Dec 2, 83 DATE COMPLETED: Dec 3, 83	CONTRACTOR: Longyear CORE STORAGE: CASING 3.3		
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY

ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
30	-47°								
61	-47°								

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
3.3 - 6.8	Oxidized Felsic Lapilli Tuff	Rust	Fine	Broken and sheared Felsic Lapilli tuff. Lower contact gradational	85°	Oxidized 15% wispy bands tal/ser	5% Py diss.	Core recov @ 25%
6.8 - 9.7	Felsic Lapilli Tuff	Med Grey	Fine	Typical with flattened felsic clasts in tal/ser/py matrix, moderately schistose Lower contact broken, appear sharp.	85-90	10-20% talc/ser as bands up to 2 cm Minor oxidation along sch. planes.	20% py as diss concentration up to 2 cm.	Core recov. @ 100%
9.7 - 10.8	Felsic Lapilli Stone	Med to Lt Grey	Fine	Predominantly chert clasts in 5% schistose matrix. Clasts average 2cm, are subround. Lower contact broken, probably sharp.	-----	Silicified 5% talc/ser	10% py assoc. with interclastic schistosity.	
10.8 - 17.9	Felsic Lapilli Tuff	Med to Lt Grey	Fine	Felsic lapilli in 5% talc/ser (chlorite?) schistose matrix. Lower contact broken.	85°	5% talc/ser and possible chlorite	15% py developed in schistosity and in scattered cross cutting veinlets to 5mm wide.	Badly broken from 17.2-17.9 with 50% core recov.
17.9 - 18.3	Grey chert	Med Grey	Fine to aphanitic	Fairly massive with 5% wispy talc/ser throughout Lower contact broken	-----	Silicified	1-3% diss py	Core recov @ 90%
18.3 - 36.1	Altered Mafic?? Tuff with numerous chert sections (Felsic Lapilli Tuff?)	Med Grey	Fine	Mottled mafic tuff with numerous cherty bands, broken and stretched to give unit a felsic lapilli texture. From 18.3-24.5: 50% chert in talcose mafic? Tuff host - felsic lapilli tuff. From 24.5-26.0: 10% cherty bands.	85°	Talc/(ser)	10-15% diss Py throughout. Trace AsPy in chert bands @ 27.9, from 28.9 to 30.5, 34.2.	100% core recovery except for badly broken section from 23.7-24.3 @ 30% recov.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
18.3 - 36.1				cont'd from page 2 From 26.1-36.1: Typical looking felsic lapilli 30 to 50% cherty clasts and bands. Lower contact gradational				
36.1 - 44.9	Felsic Lapilli Tuff			Possibly altered mafic tuff? Typical with felsic clasts (not chert) throughout with 10% interclastic talc/ser.	85°	Talcose wispy talc/ser bands = 10%	From 36.1-37.6: 40% py in bands to 2cm, trace AsPy. From 37.6-44.9: 2-% Py with trace AsPy	100% core recov.
44.9 - 46.1	Mixed Lapilli Tuff	Dark Grey	Fine	Mixed flattened clasts of talc/ser schist, chert and sulphide rich frags in pyrite rich matrix. Weakly heeled fault bx from 44.9-45.1. Lower contact marked by 10 cm quartz vein.	85°	Talc/ser frags.	30% Py trace AsPy	
46.1 - 47.4	Brecciated Chert	Med to Lt Grey	Fine to aphanitic	Crudely banded and broken with 10% inter frag talc schist, becomes less chert like with depth. Lower contact marked by fault gouge	80-85	10% Talc	10% Py, 1% AsPy inter-clastic.	
47.4 - 48.5	Massive to Semi massive sulphides	Dull	Fine granular	From 47.4-47.5: Fault gouge From 47.5-47.7: sulphide rich argillite. From 47.7-48.3: Massive sulphide 10% qtz gouge. From 48.3-48.5: Coarse modular pyrite (trace AsPy) in 40% argillite host. Lower contact gradational.	80° 80°	Talcose argillite host.	From 47.4-47.5: 30% Py. 2% AsPy. From 47.5-47.7: 40% Py, 5% AsPy. Trace Pbs, Cp. From 47.7-48.3: 70% Py, 5% Pbs, 5% AsPy, tr. Cp From 48.3-48.5: 60% Py, trace AsPy, Cp, Pbs.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
48.5 - 56.1	Sulphide Rich Mafic Tuff	Dk Grey	Fine	Fine granular sulphide rich mafic tuff with 10-20% argillite component characterized by fine (to 1mm) white spotting throughout = possible pseudomorphed phenos or amydules now qtz filled. From 49.2-49.9: Broken and weakly heeled "fault gouge" From 50.3-50.4: broken fault gouge. Lower contact fairly distinct	85-90 ± 90° ± 90°	From 48.5-50.4: Bleached Light grey. From 50.4-56.1: hematite stained throughout grading to hematite stained stockwork.	Very fine diss. Py and AsPy 20% Py, 3% AsPy	
56.1 - 70.3	Bleached Mafic Tuff	Light to Dk Grey		Insitu fractured bleached mafic tuff, with 10% black cherty argillite as fracture filling.	-----	Bleached	1-3% diss. Py	
70.3 - 71.4	Sulphide Gouge & Qtz Vein	Lt Green	Fine	Fine sulphide talc rich gouge heavily cut by quartz veins. 40 cm core lost.			30-50% pyrite. Quartz veins barren	80% C.R. 70.1-71.9
71.4 - 82.9	Mixed Argillite and Epiclastic Sandstone		Fine to Med	Thinly bedded graphitic argillite with thin 10 cm to thick 1m sandstone beds. Quartz, chert, siltstone angular clasts. Strongly cut by quartz, veins especially 80.5-81.2m	70-90	Unaltered		
				END OF HOLE				

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au		
			Cu	Zn																		
BCD 217	3.3	6.8			3.5	<0.01	0.04	<0.01	0.7	<0.1	0.032											75% Lost Core
218	6.8	8.3			1.5	<0.01	0.03	<0.01	0.7	0.1	0.163											
219	8.3	9.7			1.4	<0.01	0.03	<0.01	1.4	0.2	0.014											
220	9.7	10.8			1.1	<0.01	0.02	<0.01	0.3	<0.1	0.015											
221	10.8	12.3			1.5	<0.01	0.01	<0.01	1.4	<0.1	0.010											
222	12.3	13.8			1.5	<0.01	0.02	<0.01	0.7	<0.1	0.013											
223	13.8	15.3			1.5	<0.01	0.03	<0.01	0.7	<0.1	0.010											
224	15.3	16.8			1.5	<0.01	0.01	<0.01	1.0	<0.1	0.005											
225	16.8	17.9			1.1	<0.01	0.01	<0.01	1.4	<0.1	0.009											
226	17.9	18.3			0.4	0.01	0.24	0.05	0.7	<0.1	0.019											
227	18.3	19.8			1.5	0.02	0.16	0.04	0.7	0.3	0.009											
228	19.8	21.3			1.5	0.01	0.04	<0.01	0.7	<0.1	0.008											
229	21.3	22.8			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.014											
230	22.8	24.3			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.010											50% Core Lost
231	24.3	25.8			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.010											
232	25.8	27.3			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.009											
233	27.3	28.8			1.5	<0.01	0.02	<0.01	0.3	<0.1	0.012											
234	28.8	30.3			1.5	<0.01	<0.01	<0.01	0.3	<0.1	0.008											
235	30.3	31.8			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.010											
236	31.8	33.3			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.008											

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% Ba	% NazO	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	As	Ba
			Cu	Zn							xxx	xxx										
237	33.3	34.8			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.021											
238	34.8	36.1			1.3	<0.01	0.01	<0.01	0.3	<0.1	0.019											
239	36.1	37.6			1.5	<0.01	0.02	<0.01	1.44	<0.1	0.027	0.04										
240	37.6	39.1			1.5	<0.01	0.01	<0.01	1.32	<0.1	0.019	0.09										
241	39.1	40.6			1.5	<0.01	0.02	<0.01	1.86	<0.1	0.023	0.06										
242	40.6	42.1			1.5	<0.01	0.01	<0.01	1.56	<0.1	0.021	0.04										
243	42.1	43.6			1.5	<0.01	0.01	<0.01	1.64	<0.1	0.023	0.07										
244	43.6	44.9			1.3	<0.01	0.01	<0.01	1.7	<0.1	0.020	0.06										
245	44.9	46.1			1.2	<0.01	0.02	0.01	2.56	<0.1	0.037	0.06										
246	46.1	47.4			1.3	0.01	0.03	0.01	2.16	<0.1	0.022	0.09										
247	47.4	48.0			0.6	0.31	1.54	1.60	22.28	0.42	M.S. 1.260	<0.01	}			.36	1.80	1.78	31.6	.63	1.75	.03
254	48.0	48.5			0.5	0.41	2.12	2.00	42.86	0.88	2.330	0.05										
248	48.5	50.0			1.5	0.03	0.20	0.28	4.88	0.22	0.131	0.17										
249	50.0	51.5			1.5	0.02	0.07	0.07	5.92	0.18	0.020	0.17										
250	51.5	53.0			1.5	0.02	0.20	0.08	12.3	0.24	0.139	0.21										
251	53.0	54.5			1.5	<0.01	0.01	0.01	5.4	0.1	0.010	0.21										
252	54.5	56.4			1.6	<0.01	0.02	0.01	3.3	0.1	0.009	0.21										
253	56.1	57.6			1.5	<0.01	0.02	0.01	0.3	<0.1	0.003	<0.01										

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
3.3 - 13.8	Felsic Tuff	Light Greenish Grey	Fine to Med	Quartz eyes (phenos?) in sericitic siliceous matrix. White spots to 1mm - possible lapilli. Few fragments up to 1 cm - quartz physis frags. Cut by quartz veinlets throughout.	70°-90°	Sericitic matrix up to 10%	<5% disseminated pyrite	No footage block @ start of box 1. 100% C.R.
13.8 - 14.6	Talc rich Siliceous Breccia	Light Yellow		Brecciated quartz veins and siliceous bands in talc schist matrix.	80°-90°	Talc schist 30-50%	Disseminated and bands of pyrite 2-3% overall.	
14.6 - 15.9	Graphitic Chert and Gouge	Black	Fine	14.6-14.7: Graphitic Gouge 14.7-15.2: Extremely graphitic cherty breccia. Broken up core and gouge. 15.2-15.4: Quartz vein with graphite seams. 15.4-15.9: Gouge talc rich 10 cm lost	70°		Pyritic gouge	100% C.R.
15.9 - 45.9	Mafic Tuff	Green - Grey	Fine	Massive uniform textured mafic rock. 1mm white spots probable lapilli Chlorite? sericite	70°-90°	Sericitic chlorite (?) matrix <10%	15.9-33.0: Irregularly disseminated pyrite 2-3% 33.0-45.9: 10-15% sulphide with increasing Arsenopyrite w. depth from 1% @ 33.0 to 5% @ 44.0. Remainder of sulphide is pyrite. 39.2-43.7: 5% combined py+ aspy. Sulphides occur as fracture fillings, semi massive bands, disseminations.	
45.9 - 46.3	Massive Sulphide	Dark Grey	Fine	2-3 cm pyritic gouge @ 45.95 Massive chalcopryrite, arsenopyrite, sphalerite, galena pyrite. Very weak banding. About 5% chalcopryrite, 4% galena, arsenopyrite rich (10%?).	80°	Gold-rich matrix	Massive sulphides weak banding fragmental.	100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
46.3 - 48.1	Barite and Sulphide			Massive barite and arsenopyrite rich sulphides, banded	90°		25-30% arsenopyrite disseminations and massive bands up to 2 cm thick. <5% pyrite.	
48.1 - 49.1	Massive Barite			Massive curdely banded barite Granular sugary.	80-90		1-2% diss py, aspy trace galena @ 49.1. 49.1-49.2: Massive pyrite and arsenopyrite.	
49.2 - 53.1	Sulphide Rich Mafic Tuff	Dark Grey	Fine	Mafic tuff-white spots to 1 mm, soft. Baritic spots.	90°	Chloritic	15-25% very fine sulphides. Pyrite and arsenopyrite. Sulphides follow tuff banding.	100% C.R. 51.6 talc rich gouge. No core loss.
53.1 - 59.2	Mafic Tuff			Uniform textured fine mafic tuff. White lapilli 1mm.			10-15% pyrite. <1% arsenopyrite.	talc gouge at 58.0
59.2 - 61.6	Gouge, Qtz veins, mafic Tuff			59.2-59.4: Talc-qtz rich gouge. 59.4-59.8: Talc-rich gouge and mafic tuff. 59.8-61.6: Qtz veins and talc rich gouge. 6cm lost core.				59.4-61.6: 50% core loss -gouge, broken core.
61.6 - 70.1	Argillite	Black	Fine	Black graphitic argillite, thinly banded.	70-90	Unaltered	<1% py	100% C.R.
70.1 - 71.9	Epiclastic Sandstone	Lt Grey	Fine to Med	Quartz rich fine to medium grained sandstone. Crudely graded-tops downhole.	80-90			
71.9 - 75.5	Argillite	Black	Fine	Thinly banded black graphitic argillite.	70-90			
75.5 - 79.4	Epiclastic Sandstone	Lt Grey		Quartz rich sandstone, siltstone, quartz, chert, felsic clasts. Angular to sub-rounded clasts. Coarser sections are matrix supported. Grading gives tops downhole.	80		Rare Py clasts.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
79.4 - 81.9	Argillite	Black and Grey	Fine	Black graphitic argillite with fine quartz sandstone interbeds up to 20 cm thick.		Minor talc in sandstone beds.	Py blebs and clots 1-2 cm irregularly distributed. 1% py overall.	100% C.R. 80.8-83.8: 85% C.R.
81.9 - 82.7	Argillite	Lt Green		Argillite-bedded and strongly cut by quartz veins.		Intensely talc altered argillite	1% py, trace galena in qtz veins.	82.6-82.7: graphitic gouge and broken core. 40 cm lost.
82.7 - 85.8	Argillite	Black		Black graphitic thinly banded argillite, thin sandstone interbands.	70-90 0° @ 85.1	Unaltered		
85.8 - 90.4	Quartz Vein	White		White massive crystalline quartz 87.8-88.2 88.4-89.2 - Talc rich		Talc rich pods	1% pyrite	
90.4 - 9.2	Mixed Argillite and Epiclastic Sandstone	Black Lt Grey	Fine-Med	Thinly banded argillite with thick sandstone beds.	60-90	Unaltered	< 1% sulphide clots and blebs irregularly distributed	100% C.R. Gouge @ 91.4, 98.0 No core loss.

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM ()	TO ()	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba						
6623D	10	13	39.8		9.21	8.84	2.04	.771	9.98		1.27		60	71	-1	0.1	570					15.5	
6624	40	43	53.1		3.36	10.1	2.67	.164	10.0		1.30		57	300	5	0.1	240					8.85	
6625	56	59	52.8		2.34	2.50	.638	4.36	9.04		1.18		23	260	44	1.5	6300					8.95	

ZIPPY PRINT -- BRIDGEPORT, RICHMOND

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% Ba	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
162	3.0	5.0			2.0/ 1.2	<0.01	0.01	<0.01	0.3	<0.1	0.006	<0.01											
163	5.0	6.4			1.4	<0.01	0.01	<0.01	0.3	<0.1	0.002	<0.01											
164	6.4	7.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.001	<0.01											
165	7.9	9.4			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.002	<0.01											
166	9.4	10.8			1.4	<0.01	0.01	<0.01	0.3	<0.1	0.001	<0.01											
167	10.8	12.1			1.3	<0.01	0.01	<0.01	0.3	<0.1	0.003	0.05											
168	12.1	13.8			1.1	<0.01	0.01	<0.01	0.3	<0.1	0.003	0.04											
169	13.8	14.6			0.8	<0.01	0.01	<0.01	0.3	<0.1	0.002	0.15											
170	14.6	15.2			0.6	<0.01	<0.01	<0.01	0.3	<0.1	0.003	0.10											
171	15.2	16.0			0.8	<0.01	0.01	<0.01	0.3	<0.1	0.010	0.07											
172	16.0	17.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.006	0.05											
173	17.5	19.0			1.5	0.01	0.01	<0.01	0.3	<0.1	0.006	<0.01											
174	19.0	20.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.008	0.02											
175	20.5	22.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.006	0.06											
176	22.0	23.5			1.5	<0.01	0.02	<0.01	0.3	<0.1	0.008	0.08											
177	23.5	25.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.008	0.06											
178	25.0	26.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.008	0.05											
179	26.5	28.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.007	0.07											
180	28.0	29.5			1.5	<0.01	0.02	<0.01	0.3	<0.1	0.007	0.08											
181	29.5	31.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.010	0.03											

ASSAY SHEET
Checks - MinEn

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	Pb %	Zn %	gm T Ag	gm T Au	% Ag %	% Au %	% As %	% Ba %	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
182	31.0	32.5			1.5	<0.01	<0.01	0.01	0.3	< 0.1	PULPS		0.009	0.08									
183	32.5	34.0			1.5	<0.01	0.03	0.03	1.4	0.14			0.068	0.15									
184	34.0	35.0			1.0	<0.01	<0.01	0.02	1.24	< 0.1			0.017	0.11									
185	35.0	36.0			1.0	<0.01	0.06	0.08	1.34	< 0.1			0.093	0.08									
186	36.0	37.0			1.0	<0.01	0.03	0.02	1.16	0.12			0.082	0.19									
187	37.0	38.0			1.0	<0.01	0.03	0.04	1.4	< 0.1			0.066	0.12									
188	38.0	39.2			1.2	<0.01	0.01	0.04	1.56	<0.1			0.035	0.04									
189	39.2	40.2			1.0	<0.01	0.01	0.03	0.92	0.1			0.036	0.12									
190	40.2	41.6			1.4	<0.01	0.01	0.03	1.3	< 0.1			0.014	0.61									
191	41.6	42.6			1.0	<0.01	0.01	0.02	1.22	< 0.1			0.051	0.03									
192	42.6	43.7			1.1	<0.01	<0.01	0.03	0.84	< 0.1			0.013	<0.01									
193	43.7	44.2			0.5	<0.01	<0.01	0.02	1.02	< 0.1			0.012	0.15									
194	44.2	44.7			0.5	<0.01	0.01	0.02	1.22	< 0.1	0.34	<0.1	0.014	0.32									
195	44.7	45.2			0.5	<0.01	0.01	0.06	0.98	< 0.1	0.69	0.1	0.019	0.15									
196	45.2	45.6			0.4	<0.01	0.05	0.06	1.4	0.16	0.34	0.45	0.013	0.32									
197	45.6	45.95			0.35	0.03	0.21	0.34	3.3	0.16	3.77	0.41	0.031	0.40									
198	45.95	46.3			0.35	1.36	5.82	8.86	111.78	19.34	115.89	18.17	11.700	0.23									
199	46.3	46.9			0.6	1.58	1.51	2.96	190.86	29.32	209.14	28.80	4.550	42.30									
200	46.9	47.5			0.6	0.50	1.53	2.87	127.34	20.32	135.77	20.23	4.090	41.60									
202	47.5	48.0			0.5	0.29	1.22	2.22	84.8	22.24	83.31	22.29	4.610	44.40									

ASSAY SHEET

Checks Min En

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	Pb	Zn	gm T Ag	gm T Au	% Ag	% Au	% As	% Ba	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BCD203	48.0	48.6			0.6	0.13	0.46	0.52	83.08	8.74	87.43	10.11	1.220	57.70									
204	48.6	49.3			0.7	0.06	0.34	0.37	152.04	6.10	165.26	6.51	0.039	50.90									
205	49.3	49.8			0.5	<0.01	0.03	0.04	12.22	0.56			0.017	2.80									
206	49.8	50.4			0.6	<0.01	0.01	0.03	6.86	0.44			0.016	1.78									
207	50.4	51.4			1.0	<0.01	<0.01	0.02	4.12	0.22			0.016	1.59									
208	51.4	52.3			0.9	<0.01	0.01	0.06	4.2	0.26			0.022	1.09									
209	52.3	53.1			0.8	<0.01	0.01	0.03	3.8	0.16			0.029	0.92									
210	53.1	54.1			1.0	<0.01	0.04	0.11	6.8	<0.1			0.035										
211	54.1	55.1			1.0	<0.01	<0.01	0.04	1.4	<0.1			0.023										
212	55.1	56.1			1.0	<0.01	<0.01	0.03	1.0	<0.1			0.018										
213	56.1	57.1			1.0	<0.01	<0.01	0.03	1.4	<0.1			0.014										
214	57.1	58.1			1.0	<0.01	<0.01	0.02	1.0	<0.1			0.015										
215	58.1	59.2			1.1	<0.01	<0.01	0.05	1.0	<0.1			0.037										
216	59.2	61.6			1.4	<0.01	<0.01	0.01	1.0	<0.1			0.047										
	45.95	49.3			3.35	0.59	1.49	2.47	128.0	17.07	136.5	17.2	3.68	42.65									

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
4.6-8.6	Felsic Tuff	Light Yellow-Grey	Fine	Fine felsic fragmental quartz phenocrysts, in sericite bearing matrix. 6.9-7.2 1-3 cm quartz veins and nodules.	70-80°	Sericite bearing matrix 30% matrix.	5-10% pyrite fine dissemination is matrix, granular pyrite up to 1mm, few thin 1-3mm semi-massive sulphide bands.	4.9-7.5 80% C.R. oxidized gouge @ 5.9m 7.5-10.7 95% C.R. 10.7-13.9 90% C.R.
8.6-18.3	Felsic Lapilli Tuff	Light Yellow Grey	Fine-Coarse	Medium-coarse felsic angular fragments 1- >5cm. Sericitic matrix. Disrupted quartz vein avoids minor green mica < 1%	80-90°	Sericitic (+talc) matrix to frags. 8.6-11.6 30% matrix 11.6-14.0 10-15% matrix 14.0-18.3 30-40% matrix.	Disseminated pyrite in matrix, pyrite-rich fragments, broken pyrite rich quartz veins. 10% pyrite overall. Locally as low as 5%.	100% C.R.
18.3-19.3	Epiclastic Conglomerate	Grey	Medium	Medium grained angular clast conglomerate, chert, siltstone, QP, pyrite rich fragments. <u>Good arsenopyrite rich clast.</u> 20% asp in clast. Matrix poor cgl.	80-90°	Sericite-talc bearing matrix <5% matrix.	Arsenopyrite-pyrite rich matrix to conglomerate. 1% arsenopyrite. 5% pyrite. Pyrite-arsenopyrite rich frags.	100% C.R.
19.3-37.7	Felsic Lapilli Tuff	Light Yellow Grey	Fine-Medium	Angular irregular felsic frags, quartz phenocrysts, minor green mica. Talc sericite matrix to frags. Few pyrite rich frags.	80-90°	Talc-sericite matrix. Mostly 20-30% matrix.	5-10% finely disseminated pyrite, few pyrite-rich frags, thin 1-3mm semi-massive pyrite veins. @ 30.6m 1% arsenopyrite finely dissem. with 5-10% pyrite in matrix to siliceous frags. 32.5-33.3 Up to 15-20% pyrite as above.	100% C.R. gouge @ 29.8 broken core @ 31.6m
37.7-38.7	Mixed tuff and Graphitic Chert	Light Yellow Grey	Fine	Brecciated graphitic chert in talc-rich matrix. Contorted irregular banding.		Talc rich matrix >50% Schistose.	10% pyrite disseminated in matrix.	38.4-41.5 90% C.R. 100% C.R. to 49.7 45% C.R. 49.7-50.6 38.2-38.5 Talc rich gouge. 38.4-41.5 90% C.R.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
38.7-40.6	Chert and Quartz veins	Light Grey	Fine	Brecciated chert to graphitic chert heavily cut by pyritic quartz pod material. Highly siliceous zones in chert.		Silicification?	30-40% pyrite in highly siliceous quartz pods. Irregular semi-massive to massive pyrite zones up to 10cm. Traces Ag-rich galena in quartz.	
40.6-47.1	Mixed Tuffaceous Chert & Chert Tuff includes semi-massive sulphide.			Banded fine grained cherty-tuff and tuffaceous chert Highly siliceous, brecciated to fragmental. 46.0-46.2 Lt. grey thinly banded chert.		Talc bearing matrix.	41.2-41.8 30-40% pyrite including up to 10% arsenopyrite as semi-massive bands and infillings to siliceous fragments. 41.5-41.7 60% pyrite and arsenopyrite (30% py, 30% Aspy). 42.6 5cm 60% arsenopyrite. 40.6-41.2 41.7-47.1 5-10% pyrite overall including 1% arsenopyrite overall. 15% arsenopyrite, @ 41.1m 30% pyrite 2cm semi massive band.	100% C.R.
47.1-48.0	Talc-rich Felsic Tuff			Fine grained thinly banded tuff. Interbanded talc rich and siliceous layers.	80-90°	Talc rich moderately schistose matrix ≈ 50% matrix.	< 5% pyrite disseminated.	@ 48.0 talc rich gouge 5cm.
48.0-49.3	Felsic Lapilli-Stone to Lapilli Tuff	Light Grey,	Fine-Medium	Felsic fragmental in minor talc matrix.	80-90°	< 10% talc rich matrix.		49.7-50.6 45% C.R.
49.3-49.9	Mixed Sulphide Rich Clastic	Grey		Felsic, cherty, graphitic chert clasts in sulphide matrix.			30-40% pyrite as fine sulphide matrix to clastic.	49.9-50.6 sulphide-talc-graphite rich gouge. Only 20cm recovered.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
49.9-51.8	Mafic Tuff	Light Dk grey		Probable mafic tuff. White spots 1mm lapilli? 50.6-50.8 Silicified mafic fragmental - no sulphides.		Talc rich moderately schistose rock.	5-10% fine disseminated pyrite.	50.6-51.8 85% C.R. Ground core and gouge throughout.
51.8-69.2	Mafic Flow?	Light Green	Fine	Massive uniform textured mafic rock. Ghost fragments. Probable mafic flow, internally brecciated. Cut by black graphitic chert pods and irregular fracture fills.		Bleached		51.8-53.0 65% C.R. gouge @ 56.1 100% C.R.
69.2-69.7	Mafic Volcaniclastic Gouge	Black		Mafic volcaniclastic gouge.		Talc	5% fine pyrite	100% C.R.
69.7-81.7	Argillite and Epiclastic Sandstone	Black / Lt.grey	Fine- Medium	Thickly interbedded graphitic argillite and quartz rich sandstone. Blue quartz, chert, argillite, felsic clasts. Crude grading and scours indicate tops downhole. 75.5-76.0 Quartz veins.			1-2% irregularly disseminated pyrite. Trace cp in qtz vein.	

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
968	4.6	6.3			1.7/ 1.3	<0.01	<0.01	<0.01	0.7	<0.1	0.043												
969	6.3	7.5			1.2	<0.01	0.02	<0.01	0.7	<0.1	0.036												
970	7.5	8.6			1.1	0.01	0.01	<0.01	0.7	<0.1	0.043												
971	8.6	10.1			1.5	<0.01	0.02	<0.01	0.7	<0.1	0.015												
972	10.1	11.6			1.5	<0.01	0.09	0.05	0.7	<0.1	0.188												
973	11.6	14.1			1.5	0.02	0.01	<0.01	0.7	<0.1	0.039												
974	14.1	15.6			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.028												
975	15.6	17.1			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.024												
976	17.1	18.3			1.2	<0.01	0.01	0.01	0.3	<0.1	0.013												
977	18.3	18.8			0.5	0.01	0.06	0.03	0.3	<0.1	0.081												
978	18.8	19.3			0.5	0.01	0.09	0.05	0.7	<0.1	0.336												
979	19.3	20.0			0.7	0.02	0.04	0.03	0.7	0.1	0.033												
980	20.0	21.4			1.4	<0.01	0.01	0.01	0.7	<0.1	0.076												
981	21.4	22.9			1.5	<0.01	0.02	0.01	0.7	<0.1	0.022												
982	22.9	24.4			1.5	0.01	0.04	0.07	1.4	<0.1	0.024												
983	24.4	25.9			1.5	<0.01	0.03	0.01	0.3	<0.1	0.038												
984	25.9	27.4			1.5	0.01	0.34	0.14	2.7	<0.1	0.084												
985	27.4	28.9			1.5	<0.01	0.02	0.04	0.3	<0.1	0.039												
986	28.9	30.1			1.2	<0.01	0.04	0.06	1.4	<0.1	0.027												
987	30.1	30.7			0.6	0.01	0.05	0.06	2.0	0.2	0.268												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
988	30.7	31.5			0.8	<0.01	0.02	0.02	2.0	0.3	0.034												
989	31.5	33.0			1.5	<0.01	0.03	0.01	1.7	<0.1	0.052												
990	33.0	34.5			1.5	0.01	0.07	0.04	2.5	0.2	0.162												
991	34.5	35.9			1.4	0.03	0.12	0.06	2.6	0.1	0.051												
992	35.9	36.7			0.8	<0.01	0.01	<0.01	1.7	<0.1	0.027												
993	36.7	37.7			1.0	<0.01	0.04	<0.01	1.4	<0.1	0.021												
994	37.7	38.7			1.0	<0.01	0.03	0.01	0.3	<0.1	0.019												
995	38.7	39.4			0.7	0.02	0.74	0.27	5.64	0.28	0.029												
996	39.4	40.6			1.2	<0.01	0.62	0.36	6.2	0.76	0.115												
997	40.6	41.2			0.6	<0.01	0.22	0.21	3.1	0.46	0.088												
998	41.2	41.5			0.3	0.03	0.46	0.46	6.6	0.78	3.260		Cu	Zn	Pb	Ag	Au	As					
999	41.5	41.7			0.2	0.05	1.30	0.72	13.28	3.24	4.810		0.04	0.62	0.53	10.1	2.78	4.97					
1000	41.7	42.0			0.3	0.03	0.17	0.41	8.02	2.48	5.070												
151	42.0	42.6			0.6	<0.01	0.60	0.18	5.18	1.26	2.950												
152	42.6	43.2			0.6	<0.01	0.03	0.08	8.48	0.54	0.300												
153	43.2	44.0			0.8	<0.01	0.27	0.17	5.26	0.54	0.036												
154	44.0	45.2			1.2	<0.01	0.03	0.01	3.04	0.58	0.019												
155	45.2	46.2			1.0	0.01	0.07	0.07	4.82	0.58	0.166												
156	46.2	47.1			0.9	0.01	0.17	0.06	3.56	0.46	0.107												
157	47.1	48.0			0.9	<0.01	0.02	0.01	1.26	0.2	0.012												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% AS	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au				
			Cu	Zn																				
158	48.0	49.3			1.3	<0.01	0.01	<0.01	1.2	0.2	0.033													
159	49.3	49.8			0.5	0.06	0.52	0.35	33.0	6.8	0.115													
160	49.8	50.6			0.8	0.03	0.14	0.23	11.0	0.7	0.365													
161	50.6	51.8			1.2	0.04	0.28	0.14	6.1	0.4	0.800													

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
3.3-8.2	Oxidized Quartz Talc/Sericite Schist (Lapilli Tuff)	Tan	Fine	Tan, broken with 5% 1-2mm quartz-sulphide bands parallel with schist. Lower contact gradational.	90°	Talc/ser.	3% py - oxidized	Core Recovery 3.3 to 6.4 @ 20% 6.4 to 8.2 @ 80%
8.2-15.5	Felsic Lapilli Tuff	Medium Grey	Fine	Fine lapilli tuff, finely clastic with frags to 2mm in qtz & wispy talc/ser. schist host - unit weakly to moderately schistose. Lower contact gradational.	90°	15% talc/ser and wispy bands.	3 to 5% diss. py throughout from 9.5 to 10.2 distinct py rich clasts flattened to 2cm (5% by vol.)	Core Recovery @ 100%
15.5-38.3	Talc/Ser. Felsic Lapilli Tuff	Tan	Fine	Gradational from above with talc/ser and sulphide content increasing 5% to 20% with depth, no marked change in Lapilli tuff texture or sulphide content; sulphide occurs as blotches (clasts?) to 10mm and bands to 5mm. 2cm fault gouge @ 22.3 Lower contact gradation.	90° 90°	Talc/(Ser) grading from 20% to 60% in siliceous host.	Very gradational from 5% at upper contact to 10% py @ 30m. from 30 to 38.3 20% py.	Core Recovery @ 100%
38.3-49.1	Felsic Lapilli Tuff	Medium Grey	Fine	Distinct felsic lapilli with clasts to 1cm in siliceous host scattered talcose sections Sulphides (py) occurs as lamellia rich bands to 5mm.	85-90°	Scattered talc, silicified?	Predom py 15% fairly uniform throughout.	Core Recovery @ 100%
49.1-61.3	Felsic Lapilli Tuff	Light to Medium Grey	Fine	Coarse to fine lapilli in tuff & sulphide host, scattered wispy bands of talc, coarse lapilli clasts may fine lapilli tuff brecciated and tectonically flattened to give the appearance of	80-85°	20% wispy talc, silicified.	from 49.1 to 51.5: 20% py. from 51.5 to 54.3: 10% py. from 54.3 to 57.6: 15% py. from 57.6 to 59.2: 50% py. as bands to 3cm. from 59.2 to 61.3: 25% py.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
49.1-61.3 Con't				epiclastic - sulphides probably represent tectonically flattened stockwork. @ 49.7: 3cm fault gouge @ 57.5: 1cm fault gouge @ 59.0: 1cm fault gouge Lower contact broken	85° 85° 85° 80°			
61.3-63.3	Graphitic Chert	Black	Fine	Broken and fracture chert with graphite well developed along fracture planes, 10% bull qtz veinlets, broken & very weakly sheared. From 61.3 to 61.5: 20% talc band to 1cm wide Lower contact distinct.	75° 80° 90°	Silicified?	5% py as nodules to 3mm.	Core Recovery @ 100%
63.3-68.2	Grey Chert to Chert Bx	Medium Grey	Fine - Aphanitic	Banded to insitu broken contorted grey chert with dk grey cherty lamellae and inter frag. filling. From 65.1 to 65.2: bull qtz vein with 1% diss. arsenopy. Lower contact gradational.	80°	Silicified	3% py with trace Aspy associated with dk grey chert infilling. from 65.1 to 65.2: 1% Aspy in qtz vn.	Core Recovery @ 100%
68.2-73.0	Mixed Lapilli Tuff	Lt.grey & tan		Mixed lapilli tuff with lightly grey cherty clasts, talc rich tuffaceous clasts and talc rich argillaceous clasts in a matrix of argillite, talc schist and sulphides. @ 69.1: 10cm fault gouge @ 70.8: 10cm fault gouge @ 73.0: 1cm fault gouge - Lower contact.	80° 80-90° 80-90° 90°	Talc	From 68.2 to 69.1: 20% py. and blotches up to 5mm. from 69.1 to 73.0: 7% py as dissemination and concordant lamellae.	Core recovery @ 100% Core Recovery @ 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
73.0-77.9	Grey & Graphitic Cherty & Chert Bx	Medium & Dk Grey	Fine-Aphanitic	Banded to insitu broken dk grey to black graphitic chert, @ 73.1: 3cm wide fine sulphide clastic bed containing 30% clastic py in cherty argillite, matrix to bx black graphitic chert. Lower contact lost core.	85° 85°	Silicified?	10% sulphides as py with trace Aspy occurring predominately in matrix as blotchy concentration to chert bx.	Core Recovery @ 80% Badly broken from 76.5 to 76.9
77.9-78.5	Massive Sulphide	Dull Grey	granular	80% sulphides in blotchy white quartz gouge.		Silica flooded?	70% Aspy. 10% py.	50% core recovery. Up and lower contacts broken showing type sulphides.
78.5-79.4	Graphitic Chert Bx	Dk grey	Fine	Brecciated graphitic chert, light to dk grey cherty clasts to 5mm in 30% black graphitic cherty matrix. At 79.1: 6cm qtz vein Lower contact broken.	80°	Silicified	20% Py. 5% Aspy.	Badly broken Core Recovery @ 80%
79.4-82.6	Talc Schist Cherty Bx.	Tan to medium grey	Fine	60% talc schist with intercalated cherty frags. mixed argillite and sulphides. At 79.4 to 79.5: gouge At 82.4: 5mm gouge At 81.0: 2mm gouge At 81.5: 5mm gouge From 82.3 to 82.4: bull qtz vein From 82.4 to 82.6: broken & gouge.	contorted 80° 80° 90° 60° 85°	Talc	10% py as blotchy patches in talc schist.	Core Recovery 95%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
82.6-84.1	Grey to Tan Chert	Grey to tan	Fine	Poorly banded, weakly insitu broken chert with 10% wispy talc schist. Lower contact broken	contorted 80°	Blotchy pervasive talc + 10% talc schist.	5% py in interstitial to insitu broken chert.	Core Recovery @ 100%
84.1-89.4	Mixed Lapilli Tuff	Grey	Fine	Mixed clasts of bleached mafics, talc, chert and pyritic clasts in argillaceous host. From 88.9 to 89.4: argillite rich. At 87.2: 10mm gouge At 89.1: 3mm gouge Lower contact distinct.	80° 80° 90°	Talcose host From 87.2 to 88.0: silica plus py. flooded	From 84.1 to 87.2: 10% py with tr. Aspy as diss. in argillaceous host. From 87.2 to 88.0: 40% py assoc. with silica flooding. From 88.0 to 88.9: 20% py. as clasts and diss. From 88.9 to 89.4: 5% diss. py.	Core Recovery @ 100%
89.4-115.2	Bleached Mafic Flow (VC?)	Medium Grey	Fine	Fairly uniform and massive, no ghost frags present as seen in previous holes. scattered insitu fracturing with argillite/chert fracture filling. From 113.0 to 115.2: insitu bx or possible flow bx with subround clasts 20% cherty argillite matrix. Lower contact marked by fault gouge.		Bleached & talcose.	Up to 1% diss. py. @ 102.1 badly broken with broken & ground py + quartz - 50% over 10-20mm?? (looks out of place).	100% Core Recovery
115.2-115.6	Fault Gouge	Dk grey	Fine	Strong gouge grading to weaker gouge.	+ 90°		Grading to 20% diss. py as in lower unit.	80% Core Recovery
115.6-116.8	Mixed Lapilli Tuff	Dk grey	Fine	From 115.6 to 116.4: distinct clastic with frags of bleached mafics, argillite and pyritic argillite. Clasts flattened to 4mm. From 116.4 to 116.6: argillite rich 10% band & clastic sulphide.	75°	Weakly talcose	From 115.6 to 116.4: 20% py as clasts and diss. From 116.4 to 116.6: 10% py as diss. concentration in 1-2mm bands. From 116.6 to 116.8: 80% massive granular pyrite.	Core Recovery @ 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
115.6- 116.8 Con't				From 116.6 to 116.8: massive sulphides. Lower sharp.	85°			
116.8- 129.5	Intercalated Argillite/ Epiclastic Sandstone	Dk grey & medium grey	Fine	90% argillite to 126.5 with fine grained sandstone up to 30cm. From 126.5 to 129.5: 80% fine to medium grained epiclastic sandstone. END OF HOLE	90°		< 1% py	Core Recovery @ 100%

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
895	3.3	6.4			3.1	<0.01	0.01	<0.01	0.3	<0.1	0.002												20% Recovery
896	6.4	8.2			1.8	<0.01	0.01	<0.01	0.3	<0.1	0.001												80% Recovery
897	8.2	9.5			1.3	<0.01	0.01	<0.01	0.3	<0.1	0.001												
898	9.5	10.2			0.7	<0.01	0.01	<0.01	2.7	<0.1	0.001												
899	10.2	11.7			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.001												
900	11.7	14.2			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.001												
901	14.2	15.5			1.3	<0.01	<0.01	<0.01	1.4	<0.1	0.004												
902	15.5	17.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.001												
903	17.0	18.5			1.5	<0.01	0.01	<0.01	1.4	<0.1	0.004												
904	18.5	20.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.004												
905	20.0	21.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.010												
906	21.5	23.0			1.5	<0.01	0.01	<0.01	0.7	0.1	0.010												
907	23.0	24.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.014												
908	24.5	26.0			1.5	<0.01	0.01	<0.01	0.7	0.1	0.021												
909	26.0	27.5			1.5	<0.01	0.01	<0.01	1.4	0.1	0.019												
910	27.5	29.0			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.016												
911	29.0	30.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.016												
912	30.5	32.0			1.5	0.01	0.01	<0.01	0.3	<0.1	0.008												
913	32.0	33.5			1.5	0.01	0.01	<0.01	0.3	<0.1	0.006												
914	33.5	35.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.008												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
915	35.0	36.5			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.013												
916	36.5	38.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.013												
917	38.0	39.5			1.5	0.01	0.01	<0.01	0.7	<0.1	0.013												
918	39.5	41.0			1.5	0.01	0.01	<0.01	0.7	<0.1	0.012												
919	41.0	42.5			1.5	0.01	0.01	<0.01	0.3	<0.1	0.008												
920	42.5	44.0			1.5	0.01	0.01	<0.01	0.3	<0.1	0.012												
921	44.0	45.5			1.5	0.01	0.01	<0.01	0.3	<0.1	0.033												
922	45.5	47.0			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.026												
923	47.0	48.5			1.5	0.01	0.01	<0.01	0.7	<0.1	0.013												
924	48.5	49.1			0.6	<0.01	0.01	<0.01	0.7	<0.1	0.009												
925	49.1	50.6			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.010												
926	50.6	52.1			1.5	<0.01	0.03	<0.01	0.7	<0.1	0.024												
927	52.1	53.6			1.5	<0.01	0.04	<0.01	0.3	<0.1	0.067												
928	53.6	55.1			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.012												
929	55.1	56.6			1.5	<0.01	0.01	<0.01	2.4	<0.1	0.012												
930	56.6	58.1			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.034												
932	58.1	59.1			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.034												
933	59.1	60.6			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.044												
934	60.6	61.3			0.7	<0.01	0.01	<0.01	0.7	<0.1	0.036												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
935	61.3	62.3			1.0	<0.01	0.02	<0.01	0.3	<0.1	0.016												
936	62.3	63.3			1.0	<0.01	0.02	<0.01	0.7	<0.1	0.013												
937	63.3	64.8			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.013												
938	64.8	66.3			1.5	<0.01	0.03	<0.01	0.3	<0.1	0.019												
939	66.3	67.8			1.5	<0.01	0.01	0.01	0.3	<0.1	0.010												
940	67.8	68.2			0.4	<0.01	0.01	<0.01	0.7	<0.1	0.014												
941	68.2	69.1			0.9	<0.01	0.02	<0.01	0.7	<0.1	0.017												
942	69.1	71.0			0.9	<0.01	0.06	<0.01	0.7	<0.1	0.012												
943	71.0	72.0			1.0	0.02	<0.01	<0.01	0.3	<0.1	0.008												
944	72.0	73.0			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.010												
945	73.0	74.5			1.5	0.01	0.03	0.01	2.18	0.16	0.017												
946	74.5	76.0			1.5	0.03	0.21	0.14	3.62	0.22	0.032												
947	76.0	77.0			1.0	0.02	0.26	0.13	4.14	0.66	0.408		Cu	Zn	Pb	Ag	Au	As					
948	77.0	77.9			0.9	0.41	6.01	3.26	17.06	4.82	3.350	}	0.26	3.74	2.08	34.2	9.19	7.73					
949	77.9	78.5			0.6	0.03	0.33	0.32	59.9	15.74	14.30												
950	78.5	79.0			0.5	0.01	0.04	0.09	6.68	1.02													
951	79.0	79.4			0.4	0.01	0.03	0.09	4.52	<0.1	0.056												
952	79.4	80.4			1.0	<0.01	0.02	0.01	1.56	<0.1	0.015												
953	80.4	81.4			1.0	<0.01	<0.01	0.01	1.28	<0.1	0.014												
954	81.4	82.6			1.2	<0.01	<0.01	0.01	1.4	<0.1	0.014												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm. T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
955	82.6	84.1			1.5	<0.01	<0.01	<0.01	1.08	<0.1	0.005												
956	84.1	85.1			1.0	<0.01	0.08	0.02	1.74	<0.1	0.017												
957	85.1	86.1			1.0	<0.01	0.01	0.01	2.14	0.18	0.016												
958	86.1	77.2			1.1	<0.01	0.01	<0.01	1.44	0.12	0.006												
959	87.2	88.0			0.8	<0.01	0.01	0.01	1.9	0.22	0.012												
960	88.0	88.9			0.9	<0.01	0.01	0.01	1.88	0.1	0.010												
961	88.9	89.4			0.5	<0.01	0.05	<0.01	1.0	<0.1	0.005												
962	89.4	90.9			1.5	<0.01	0.01	0.01	1.22	<0.1	0.002												
963	90.9	92.4			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.003												
964	115.2	115.6			0.4	0.01	0.15	0.09	3.4	<0.1	0.015												
965	115.6	116.4			0.8	<0.01	<0.01	0.05	1.7	<0.1	0.019												
966	116.4	116.6			0.2	<0.01	0.03	<0.01	1.4	<0.1	0.010												
967	116.6	116.8			0.2	<0.01	0.01	0.01	1.7	<0.1	0.014												

HOLE NO. RG-6

PAGE 10

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM ()	TO ()	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.		
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba							
6616	10	13	38.7		8.65	9.20	1.15	1.42	9.61		1.75		46	100	1	0.2	250					15.8		
6617	40	43	43.0		8.56	6.12	.686	2.89	9.25		1.22		84	94	6	0.4	300					14.9		
6618	70	73	65.7		.655	1.33	.295	3.74	6.91		.517		13	64	28	0.3	1690					6.20		
6619	100	103	51.8		2.62	2.49	3.03	2.39	9.01		.667		3	88	1	-0.1	1580					8.00		

Hole No. RG-6

Entered by _____

Logged by J. J. Watkins

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CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER RG-5	GRID Main	FIELD COORDS	LAT 100+00NW	DEP. 1+34	ELEV. 1470.38	COLLAR BRNG. Grid S.W. Az 225	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 139.0m
PROJECT 212	CLAIM #	SURVEY COORDS				DATE STARTED: Nov. 28/83 DATE COMPLETED: Nov.30/83	CONTRACTOR: Longyear CORE STORAGE: CASING: 6.4m		
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
30m	46°								
61m	46°								
91	44°								
122m	44°								
139m	45°								

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
6.4-20.0	Felsic Lapilli Tuff	Lt. Grey -yellow	Fine-coarse	Siliceous angular irregular fragments in sericite, pyrite rich matrix. Also irregular siliceous banding. Few (<1%) clots green mica. Quartz porphyritic.	80-90°	Sericitic weakly schistose matrix.	Fine grained pyrite in matrix forms bands and disseminations. Also nodular pyrite 1-10mm irregularly disseminated. Pyrite 5-10% Locally up to 20% i.e. 17.3-17.8, 18.0-18.5	6.4-7.6 50% C.R. Broken core @ 7.0 100% C.R.
20.0-22.6	Felsic Lapilli-stone	Lt grey	Coarse	Coarsely broken massive siliceous Lapillistone. Fragments >5cm. Pyrite dissem. 21.1-22.0 Felsic Lapilli Tuff-sericitic matrix. Fine to medium frags.	80-90°	Extremely siliceous fragments. Silicified?	Fine grained pyrite dissem. in frags <1% and in matrix 5-10% overall. Massive pyrite matrix infill. 21.2-22.0 10% pyrite fine grained in matrix and nodular pyrite.	38.4-40.5 90% C.R. 40.5-42.1 90% C.R.
22.6-32.9	Felsic Tuff			Fine felsic fragmental. Quartz porphyritic. Talc-sericite matrix to siliceous fragments. 25.0-25.4 Siliceous Lapillistone.	80-90°	Talc and sericite weakly schistose matrix.	Pyrite fine grained and nodular dissemination. Thin massive pyritic bands 10% py.	29.3-32.3 80% C.R. 28.1, 28.9 Talc rich gouge. 32.0 10cm talc gouge 60cm core lost.
32.9-45.8	Felsic Lapilli Tuff	Lt Grey -yellow	Med to coarse	Medium to coarse felsic fragments in talc sericite bearing matrix. 32.9-35.9 and 38.9- Very coarse siliceous fragments 1cm - 5cm	80-90°	Talc and sericite bearing matrix to frags.	5-10% pyrite fine grained in matrix and nodular pyrite. Few pyrite rich frags. Locally 15-20% pyrite i.e. 33.6-35.9	Talc rich gouge @ 36.1m, 37.7m. 100% C.R. 38.4-40.5 90% C.R. 40.5-42.1 90% C.R. Broken core & gouge @ 40.5 and 42.1
45.8-46.8	Rhyolite Lapilli-stone	Lt grey		Weakly banded siliceous fragmental. Coarse angular frags. Very little matrix.		Silicified frags.	Pyrite interstitial to frags <5% overall.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
46.8-48.0	Felsic Lapilli		Fine-Medium	Siliceous fragments in talc-pyrite bearing matrix. 5		Talc bearing matrix.	Pyrite fine grained and nodular dissem. in matrix. Also pyrite rich and massive pyrite frags 5-10% pyrite overall.	100% C.R.
48.0-51.2	Mixed Tuff & Graphitic Chert	Yellow Lt-Dk Grey	Fine	Fine to coarsely laminated talc rich tuff, black graphitic chert. Swirly contorted and transposed banding. 50.2-51.2 Black chert. Coarsely brecciated.		Talc rich bands.	Bands and disseminations of pyrite. Irregularly distributed. Most of core < 5% py. Semi massive 1-2 cm sections. Core averages 5% py.	100% C.R. 51.9 talc rich 52.6 gouges
51.2-54.6	Mixed Felsic Lapilli Tuff and Lapillistone	Lt.grey	Fine-Medium	Fine to coarsely tuffaceous. Siliceous elongated frags. Pyrite-rich frags.		Talc rich matrix.	Mostly < 5% pyrite dissem. fine to med. grained. 53.8-54.6 Pyrite rich nodules up to 3cm, disseminations 30-40% pyrite. 20% py @ 53.5.	
54.6-60.6	Chert	Lt-Dk Grey		Laminated cherty breccia. Fine black chert interbeds, Some lapillistone and talc-rich lapilli tuff interbedded.	70-90°	Minor talc.	Pyrite bands and infillings, disseminations. About 5% py.	
60.6-65.8	Felsic Lapilli Stone and Chert	Lt.grey	Coarse	Massive to coarsely fragmental siliceous rock. Very little matrix-minor talc Interbanded black graphitic chert - and chert-minor irregular contorted bedding.		Minor talc. Sericite.	Incipient stockwork on fine 1 to 2 cm spaced fractures. 5% pyrite overall. Locally up to 10%. Chalcopyrite and arsenopyrite in incipient stockwork from 65.4m-65.8 < 1% overall.	
65.8-70.5	Talc Rich Felsic Lapilli Tuff	Lt Grey -yellow	Med-coarse	Angular siliceous frags in talc rich schistose matrix. 66.8-69.2 Massive bull quartz-carbonate vein.		Talc bearing matrix.	Semi massive pyritic bands and dissemination. Incipient stockwork in talc-poor sections i.e. 68.3-69.4 5-10% pyrite overall.	95% C.R. 66.7-68.0 talc rich gouge. 10cm lost.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
70.5-72.8	Coarse Banded Chert	Lt grey	Med-Coarse	Coarsely broken and banded chert. Very little matrix. 71.7-72.8 Extremely siliceous light grey.			Pyrite dissem. and massive infilling in matrix. 5% overall. 1% chalcopyrite and arsenopyrite.	
72.8-73.2	Semi Massive Sulphide	Dk grey	Fine	72.8-72.9 Sulphide rich gouge - also siliceous frags. 72.9-73.05 Massive sulphide pyrite. Crudely banded very fine pyrite with 1mm py nodules. 73.05-73.2 50% pyrite with siliceous fragments. Pyrite forms infillings and semi massive bands. 73.2 Upper contact sharp @ \pm 90 to C.A.			Sulphides - only pyrite distinguished.	100% C.R.
73.2-78.1	Silicified Mafic Fragmental	Lt grey		Light grey cloudy fragments and insitu brecciation. White silicified rims on fractures esp. 73.2 to 75.0m. Cloudy white spots 1-3mm. Lapilli? 73.8-73.9 Sulphide rich gouge.		Silicification of mafic Barite?	Semi massive sulphide bands - only pyrite distinguished and pyrite filling in-situ brx fractures 5-10% py overall. 73.6-74.1 Sulphide rich gouge and fine sulphide mud 30% pyrite.	
78.1-80.4	Mafic Fragmental	Dk grey	Fine-Medium	In-situ brecciation of mafic rock and finely fragmental mafic rock. 79.3-79.8 White spots to 1mm lapilli?		Less silicified than 73.2-78.1	Interstitial to frags and pseudo-frags. 5-10% py 78.9-79.3 and 79.7-80.4: 15-20% fine pyrite.	100% C.R.
80.4-83.9	Mafic Volcanic-clastic	Grey		Ghost fragments, few 1-2mm white spots possible lapilli.		Bleached.	2-3% disseminated pyrite.	
83.9-85.8	Graphitic Chert	Black		Massive to brecciated. Not banded. 85.5-85.8 Brecciated fragmental Frags 1-2 cm.			Irregular pyrite disseminations and colloform textures 5-10% pyrite overall.	Gouge @ 85.3 Broken core @ 93.0 No core loss.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
85.8-101.9	Massive Mafic to weakly Volcaniclastic	Lt. Green	Fine	Ghost fragments and massive textured mafic rock. Uniform.		Bleached.	< 1% dissem. pyrite. 2cm quartz vein with 50% pyrite @ 96.7m	
101.9-106.8	Mafic Volcaniclastic	Lt-Dk Grey Green	Medium -Coarse	Coarsely fragmental mafic - white spots to 1mm in frags. Black graphitic cherty matrix to frags. Crude planar fabric @ 70-90°		Minor talc in frags.	< 1% pyrite	100% C.R.
106.8-107.5	Pyritic Argillitic Sediment	Dk grey to black		30-40% pyrite in dirty black graphitic sed. 106.8-107.0 Sulphide rich graphitic gouge. 107.1-107.2 Massive bull quartz vein.			30-40% disseminated and nodular pyrite. Few thin 1-3mm massive pyrite bands.	
107.5-112.5	Mafic Volcaniclastic	Grey	Fine	Finely fragmental mafic. White spots up to 2mm - probable lapilli.		Minor talc.	10-15% pyrite disseminated and in elongate clots.	Ground core @ 111.6. No core lost.
112.5-119.0	Argillite and Epiclastic Sandstone	Lt grey - Black	Fine	Thinly interbanded black graphitic argillite and quartz rich sandstone. Graded bedding and scours indicate tops downhole.	80-90°	Unaltered	Irregular clots 1% overall.	100% C.R.
119.0-139.0	Epiclastic Sandstone	Grey	Fine-Medium	Fine to medium quartz rich sandstone. Siltstone, chert, siliceous, clasts & quartz grains. Angular elongate to rounded clasts. Grossly graded individual beds up to 1.5m thick. 122.3-122.6 Bleached sandstone cut by quartz veining, minor chlorite.	80-90°	Unaltered	< 1% dissem. pyrite.	

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
815	6.4	8.3			1.9/ 1.5	<0.01	0.01	<0.01	0.3	<0.1	0.002												
816	8.3	9.8			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.001												
817	9.8	11.3			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.006												
818	11.3	12.7			1.4	<0.01	0.01	<0.01	1.0	<0.1	0.016												
819	12.7	14.2			1.5	<0.01	<0.01	<0.01	1.0	<0.1	0.011												
820	14.2	15.7			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.007												
821	15.7	17.2			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.011												
822	17.2	17.8			0.6	<0.01	0.01	<0.01	0.7	<0.1	0.013												
823	17.8	18.9			1.1	0.01	0.02	<0.01	0.7	<0.1	0.021												
824	18.9	19.5			0.6	0.04	0.16	<0.01	4.8	0.1	0.035												
825	19.5	20.0			0.5	0.01	0.01	<0.01	24.7	0.1	0.028												
826	20.0	21.1			1.1	<0.01	0.01	<0.01	0.7	<0.1	0.010												
827	21.2	22.0			0.9	<0.01	0.01	<0.01	0.3	<0.1	0.013												
828	22.0	22.6			0.6	<0.01	<0.01	<0.01	1.0	0.1	0.009												
829	22.6	24.1			1.5	<0.01	0.04	<0.01	0.3	<0.1	0.006												
830	24.1	25.0			0.9	0.01	0.01	<0.01	1.4	<0.1	0.009												
831	25.0	26.5			1.5	<0.01	0.01	<0.01	0.7	0.1	0.008												
832	26.5	28.0			1.5	<0.01	0.01	<0.01	2.0	<0.1	0.006												
833	28.0	29.5			1.5	<0.01	0.01	<0.01	1.4	<0.1	0.010												
834	29.5	31.0			1.5	<0.01	0.01	<0.01	1.0	<0.1	0.012												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm. T Au	% As	% T ₂ O ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
835	31.0	32.9			1.9/ 1.4	<0.01	0.01	<0.01	0.3	<0.1	0.009												
836	32.9	33.6			0.7	<0.01	0.01	<0.01	0.3	<0.1	0.011												
837	33.6	34.8			1.2	<0.01	0.01	<0.01	0.3	<0.1	0.008												
838	34.8	35.8			1.0	<0.01	0.01	<0.01	0.3	<0.1	0.008												
839	35.8	37.3			1.5	0.01	0.01	<0.01	1.0	<0.1	0.006												
840	37.3	38.9			1.6	<0.01	0.01	<0.01	0.3	<0.1	0.005												
841	38.9	40.4			1.5	0.01	0.02	<0.01	0.3	<0.1	0.010												
842	40.4	41.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.010												
843	41.9	43.4			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.009												
844	43.4	44.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.009												
845	44.9	45.8			0.9	0.01	0.01	<0.01	0.7	<0.1	0.009												
846	45.8	46.8			1.0	<0.01	0.08	<0.01	0.7	<0.1	0.009												
847	46.8	48.0			1.2	<0.01	0.01	0.01	0.3	<0.1	0.033												
848	48.0	49.4			1.4	<0.01	0.02	<0.01	0.3	<0.1	0.027												
849	49.4	50.3			0.9	<0.01	0.02	<0.01	0.7	<0.1	0.011												
850	50.3	51.2			0.9	<0.01	0.02	<0.01	0.7	<0.1	0.007												
851	51.2	52.7			1.5	<0.01	0.01	<0.01	0.7	<0.1	0.016												
852	52.7	53.9			1.2	<0.01	0.02	<0.01	0.7	<0.1	0.040												
853	53.9	54.6			0.7	<0.01	0.01	0.01	0.7	<0.1	0.041												
854	54.6	56.1			1.5	0.04	0.24	0.12	0.7	0.5	0.324												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au		
			Cu	Zn																		
855	56.1	57.6			1.5	0.01	0.07	0.05	1.2	0.2	0.173											
856	57.6	59.1			1.5	<0.01	0.01	<0.01	1.0	0.1	0.009											
857	59.1	60.6			1.5	<0.01	0.01	<0.01	1.3	0.1	0.017											
858	60.6	62.1			1.5	<0.01	0.01	<0.01	1.7	0.12	0.008											
859	62.1	63.6			1.5	<0.01	0.01	<0.01	3.26	0.12	0.010											
860	62.6	64.6			1.0	<0.01	0.03	0.02	4.02	0.18	0.016											
861	64.6	65.1			0.8	<0.01	0.04	0.03	5.36	0.28	0.028											
862	65.4	65.8			0.4	0.10	0.29	0.43	33.9	0.6	0.229											
863	65.8	67.5			1.7/ 1.5	<0.01	0.01	0.01	2.58	0.12	0.007											
864	67.5	68.5			1.0	<0.01	0.01	<0.01	1.62	<0.1	0.008											
865	68.5	69.5			1.0	<0.01	<0.01	<0.01	3.42	0.1	0.009											
866	69.5	70.5			1.0	<0.01	0.01	0.01	2.52	0.26	0.069			% Cu	% Zn	% Pb	Ag	Au	% As			
867	70.5	71.1			0.6	0.13	0.76	0.61	14.34	1.8	0.583											
868	71.1	71.7			0.6	0.15	0.74	0.48	16.46	3.34	1.020			0.16	0.75	0.46	14.3	2.68				
869	71.7	72.2			0.5	0.20	0.76	0.26	11.48	2.96	1.120											
870	72.2	72.8			0.6	0.20	0.39	0.26	6.5	0.72	0.205											
871	72.8	73.05			0.25	0.05	1.22	0.57	13.18	0.78	0.154			0.05	1.15	0.56	12.2	0.81				
872	73.05	73.2			0.15	0.04	1.04	0.53	10.5	0.86	0.323											
873	73.2	73.6			0.4	<0.01	0.06	0.06	2.64	0.18	0.017											
874	73.6	74.0			0.4	0.01	0.16	0.08	2.2	0.5	0.046											

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% AS	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
875	74.0	74.9			0.9	<0.01	0.02	0.03	1.0	<0.1	0.008												
876	74.9	75.7			0.8	<0.01	0.03	0.01	1.3	0.1	0.010												
877	75.7	76.9			1.2	<0.01	0.02	0.02	1.4	<0.1	0.006												
878	76.9	78.1			1.2	<0.01	0.02	0.02	1.0	<0.1	0.008												
879	78.1	78.9			0.8	<0.01	0.02	0.01	1.4	<0.1	0.010												
880	78.9	79.7			0.8	<0.01	0.01	0.01	0.3	<0.1	0.008												
881	79.7	80.4			0.7	<0.01	0.03	0.01	1.8	0.2	0.012												
882	80.4	81.9			1.5	<0.01	0.01	<0.01	0.3	<0.1	0.003												
883	81.9	82.9			1.0	<0.01	<0.01	<0.01	0.3	<0.1	0.001												
884	82.9	83.9			1.0	<0.01	0.05	0.02	1.4	<0.1	0.037												
885	83.9	84.9			1.0	<0.01	0.08	0.05	1.7	<0.1	0.042												
886	84.9	85.8			0.9	<0.01	0.02	<0.01	2.5	0.2	0.006												
887	85.8	87.3			1.5	<0.01	<0.01	<0.01	0.3	<0.1	0.003												
888	105.3	106.8			1.5	<0.01	0.01	<0.01	1.7	<0.1	0.001												
889	106.8	107.5			0.7	<0.01	0.04	0.01	4.8	<0.1	0.021												
890	107.5	108.5			1.0	<0.01	0.01	<0.01	1.7	<0.1	0.009												
891	108.5	109.5			1.0	<0.01	<0.01	<0.01	1.7	<0.1	0.006												
892	109.5	110.5			1.0	<0.01	<0.01	<0.01	1.7	<0.1	0.006												
893	110.5	111.5			1.0	<0.01	0.01	<0.01	1.4	<0.1	0.006												
894	111.5	112.5			1.0	<0.01	0.01	<0.01	1.4	<0.1	0.005												

RG-5

HOLE NO _____

9

PAGE _____

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM ()	TO ()	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba						
6612	10	13	54.8		3.23	2.77	.454	3.23	11.6		1.72		56	80	5	0.5	400					9.45	
6613	40	43	56.7		.985	.706	3.75	2.24	14.6		1.58		94	63	12	0.8	250					8.50	
6614	75	78	39.1		9.54	6.32	.844	2.49	8.52		.967		37	154	120	1.0	1400					16.9	
6615	99	102	56.0		2.45	2.49	1.39	3.70	8.41		.667		4	77	2	0.1	2790					7.05	

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER RG-4	GRID Main	FIELD COORDS	LAT. 99+50NW	DEP. 0+62.5NE	ELEV. 1511.51	COLLAR BRNG. 42M 225°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 110.0m	
PROJECT PN 212	CLAIM #	SURVEY COORDS.				DATE STARTED: Nov.26/83 DATE COMPLETED: Nov.28/83	CONTRACTOR: Longyear CORE STORAGE: CASING 3.7m			
PURPOSE Test Rea Gold Showing								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH (m)	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP	
30	-46°									
60	-46°									
90	-46°									

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
3.7-11.3	Felsic Lapilli Tuff (Oxidized)	White & Grey Clasts in Tan Host	Fine Grained	Banded broken throughout, white and grey subround clasts in talc rich tan coloured schistose host, clast average 10mm in dia. Lower contact broken, gradational.	85-90°	Oxidized talc schist.	From 3.7 to 10.0: 3% py as disseminations. From 10.0 to 10.3: 25% inter felsic frag. pyrite From 10.3 to 11.3: 5% diss. inter clastic py.	Core Recovery - 40%
11.3-19.2	Felsic Lapilli Tuff	White & Grey Clasts in Tan and Dk. Grey Host	Fine Grained	Broken throughout; white felsic subround to round clasts in talc rich schistose host, clasts size from 5 to 15mm., ck grey cherty/ argillite sections from: 11.4 to 11.6, 12.8 to 13.2, 15.4 to 15.7, 17.6 to 19.2 Lower contact broken, gradational.	85°	Talc schist.	Diss. and wispy sulphide bands throughout averaging 15% py for total interval, higher concentrations as wispy bands from: 14 to 14.3 - 40% py 15.2 to 15.7 - 25% py 18.6 to 19.2 - 20% py	Core Recovery 11.3 to 15.5 @ 70% 15.5 to 17.7 @ 80% 17.7 to 19.2 @ 90%
19.2-23.0	Talc Schist (Tuff)	Tan	Fine	Predominately talc schist with 10-20% intra layered siliceous bands and occasional felsic lapilli up to 5mm in diameter. Lower contact marked by 10mm. gouge.	90°	Talc	5% diss. and rare patchy py. 1% as pyritic whisp up to 2mm wide.	Core Recovery 100%
23.0-23.4	Mixed Lapilli Tuff (Talc Schist)	Light grey & tan	Fine	Mixed lapilli with distinct clasts of black chert, white rhyolite, sericitic rhyolite and clasts consisting of 90% fine pyrite, clasts are subangular to subround and range up to 20mm in length. 30% matrix as talc schist. Lower contact gradational.	90°	Talc	10% py as clasts	Core Recovery 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
23.4-24.7	Talc Schist with Felsic Lapilli	Tan to light grey	Fine	70% talc schist with white rhyolite clasts to 30mm Lower contact gradational.	90°	Talc	10% py as disseminations and incipient Qtz & py stockwork.	
24.7-25.3	Argillite	Black to grey	Fine	Whispy argillite interrupted by irregular 1mm Qtz veining, whispy sulphides. From 25.1 to 25.2: fault gouge. Lower contact distinct.	80-90° 85°	Talcose.	20% diss. py. in whispy bands.	Core Recovery 100%
25.3-28.5	Talc Schist with Felsic Lapilli	Tan and Light grey with dk grey intervals		Talc Schist with 20% light grey rhyolite lapilli up to 20cm. med to dk grey argillite rich sections from 25.4 to 25.5, 25.9 to 26.1, from 26.2 to 26.3: probable bed of quartz pebble QP to 5% diss. py. in sharp contact to talc sch. @ 28.3: 30mm flt gouge Lower contact sharp	85° 80° 90° 85°	Talc Schist	5% diss. py. throughout. 2% whispy bands of fine diss. py.	Core Recovery @ 100%
28.5-31.6	Black Graphitic Chert	Black	Fine	Fairly massiv with ghost areas suggesting the presence of frags to 20mm, cut by 10% irregular white Qtz veins up to 5mm in width. Lower contact broken.	None	None.	Very fine diss. py (1%) and trace of fine Aspy.	Badly broken throughout. Core Recovery @ 75%.
31.6-33.0	Intercalated Black, Black Chert, Grey Chert & Talc Schist	Black, Grey, Tan	Fine	Mixed band and broken bands (frags?) of black graphitic chert, grey chert and talc schist but by 15% irregular white Qtz veins to 10mm wide. 30% talc schist as bands up to 1cm. Lower contact gradational.	75-90°	Talc	10% py as diss. and whispy bands predominately assoc. with talc schist sections.	Badly broken from 31.6 to 31.9. Core Recovery @ 95%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
33.0-38.1	Cherty (Felsic) Tuff	Light Grey	Fine	Poorly banded cherty tuff with intercalated talc schist, cherty bx, and sulphide rich bands and stockwork. @ 33.5: 10mm fault gouge +bx Lower contact gradational.	75-90° 90°	Talc	From 34.2 to 34.8: 30% sulphides as fine granular pyrite in stringers to 20mm wide associated with talc schist. from 35.6 to 26.3: 20% sulphides a fine granular pyrite in stringers to 5mm with 10mm bands @ 36.3 of 60% py. from 37.0 to 37.5: 50% coarse nodular py patches in talc schist.	Core Recovery @ 100%
38.1-39.0	Intercalated Argillite Chert BX & Talc Schist	Dk grey Lt grey Tan	Fine	60% dk grey talcose argillite with 20% subround light grey cherty clasts up to 20mm and 20% tan talc schist bands up to 30mm. Lower contact sharp.	85° 90°	Talc	20% py throughout with bands containing 50% coarse py from 38.3 to 38.4 and 38.9 to 39.0	Core Recovery @ 100%
39.0-47.2	Banded Felsic Tuff with Sulphide Stockwork.	Tan to med. grey	Fine	Well banded tan tuff throughout with very rare siliceous clast, 10% inter banded light to med. grey zone to 20cm suggesting minor argillite component. Lower contact gradational.	80-90°	Talc	10% sulphide (Py to tr.Cp) as stringers up to 10mm and as incipient stringers 1-3mm., from 39.6 to 39.8 and from 40.0 to 40.1: 40% sulphides as py with trace Cp associated with talc schist.	Core Recovery @ 100%
47.2-48.5	Felsic Tuff with Chert Clasts	Tan	Fine	Banded tan tuff with 20% subround light grey siliceous clasts to 30mm, tan tuff in part broke to subangular clasts to 15mm. Lower contact marked by 1cm band of cherty lapilli stone.	80-90° 90°	Talc	15% py as discontinuous bands in bedding/schist planes, in part crosscutting.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
48.5-49.0	Mixed Sulphide Felsic Lapilli Tuff	Dk grey	Fine	50% felsic lapilli and tuff in matrix of fine diss. Py (50%). Clast size to 10mm. Lower contact marked by 2cm fault gouge.	90°	None	50% py & Aspy.	Core Recovery @ 100%
49.0-49.3	Argillite	Dk grey	Fine	Argillite vaguely banded with clasts of fine diss. py flattened to 10mm.		Talccse	20% py as clasts	Core Recovery @ 100%
49.3-67.8	Mafic Tuff	Med.grey	Fine	Uniformly textured mafic tuff with ghost lapilli, brecciated section with interclastic black graphitic chert. from 49.3 to 51.0 with 20% chert. from 55.5 to (61.7) with 30% chert. 65.0 to 66.0 20% chert. 66.2 to 67.8 Mafic tuff with talc rich matrix. Distinct angular fragments. Fine (1mm) white spots feldspars? lapilli?	80-90°	Talc rich matrix.		
67.8-89.7	Argillite and Epiclastic Sandstone	Blk-Lt. Grey	Fine-Medium	Interbedded black graphitic argillite and quartz rich sandstone. Thick argillite sections with 10-30cm sandstone beds. Blue quartz, chert, argillite clasts. 68.9-69.1 Bull Quartz vein. 69.1-69.3 Graphitic Sulphide rich gouge. 69.3-69.5 Very fine grained pyritic sulphide mudstone. Scours indicate tops downhole. 76.5-76.7 Coarse clastic quartz sediment. Coarse argillite ripups.	60-80°		Mostly <1% disseminated pyrite. Irregular local, concentrations of pyrite particularly in sandstone layers. Rare possible pyrite clasts. Pyrite clasts ?@ 75.3, 76.6	Core Recovery @ 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
89.7-95.6	Argillite and Epiclastic Sandstone			Finely interbanded argillite and epiclastic sandstone. Graded bedding and scours indicated tops downhole. 95.3-95.5 Quartz vein with talc pods.	80-90°	None	< 1% pyrite in sandstone layers.	84.4-86.6 75% C.R. Graphitic gouge @ 85.0 89.3-92.4 60% C.R. Ground core & gouge @ 90.7
95.6-110.0 END	Epiclastic Sandstone			Fine to coarse quartz rich Epiclastic sandstone. Chert, siltstone, quartz, Siliceous clasts angular to subrounded. 106.7-107.3 Crudely graded coarse sandstone. Flattened clasts. 96.9-99.0 Strongly quartz veined - talc rich pods. END	70-80°		< 1% pyrite.	96.9-99.4 85% C.R. Talc Gouge @ 97.8-97.9 99.4-101.8 90% C.R. 101.8-104.9 100% C.R. 104.9-106.7 90% C.R.

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% AS	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
0770	3.7	10.0			6.3	<0.01	0.01	<0.01	0.98	<0.1	0.006												
0771	10.0	10.3			0.3	<0.01	<0.01	<0.01	0.40	<0.1	0.004											} Core Recovery @ 40%	
0772	10.3	11.3			1.0	<0.01	0.01	<0.01	0.48	<0.1	0.005												
0773	11.3	12.8			1.5	<0.01	<0.01	<0.01	0.90	<0.1	0.005												
0774	12.8	14.3			1.5	<0.01	<0.01	<0.01	0.52	<0.1	0.005												
0775	14.3	15.8			1.5	<0.01	<0.01	<0.01	0.34	<0.1	0.005												
0776	15.8	17.3			1.5	<0.01	0.01	<0.01	0.56	<0.1	0.005												
0777	17.3	18.8			1.5	0.01	<0.01	<0.01	0.48	<0.1	0.005												
0778	18.8	19.2			0.4	0.02	0.01	<0.01	0.92	0.12	0.006												
0779	19.2	20.0			0.8	<0.01	<0.01	<0.01	0.84	0.12	0.009												
0780	20.0	21.5			1.5	<0.01	<0.01	<0.01	0.74	<0.1	0.005												
0781	21.5	23.0			1.5	<0.01	0.01	<0.01	0.64	<0.1	0.004												
0782	23.0	23.4			0.4	0.03	0.03	<0.01	1.24	0.1	0.008												
0783	23.4	24.7			1.3	<0.01	<0.01	<0.01	1.12	0.12	0.005												
0784	24.7	25.3			0.6	0.04	0.01	0.01	2.00	0.16	0.017												
0785	25.3	26.8			1.5	0.01	0.01	<0.01	1.04	0.1	0.007												
0786	26.8	27.8			1.0	<0.01	0.01	<0.01	0.98	0.1	0.004												
0787	27.8	28.5			0.7	<0.01	<0.01	<0.01	0.62	<0.1	0.004												
0788	28.5	30.0			1.5	<0.01	0.02	<0.01	1.02	0.16	0.058												
0789	30.0	31.6			1.6	<0.01	0.01	0.01	1.12	0.1	0.009												

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% AS	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
0790	31.6	33.0			1.4	<0.01	0.01	0.01	1.26	0.1	0.009												
0791	33.0	34.2			1.2	<0.01	0.02	0.01	1.46	0.16	0.011												
0792	34.2	34.8			0.6	0.02	0.38	0.13	4.80	0.56	0.031												
0793	34.8	35.6			0.8	<0.01	0.01	0.03	1.76	0.26	0.008												
0794	35.6	36.3			0.7	0.09	0.86	0.23	4.22	0.42	0.065												
0795	36.3	37.0			0.7	0.01	0.03	0.04	1.62	0.8	0.015												
0796	37.0	37.5			0.5	0.12	1.88	0.91	10.46	0.72	0.073												
0797	37.5	38.1			0.6	0.06	0.50	0.44	4.36	0.18	0.020												
0798	38.1	39.0			0.9	0.01	0.05	0.12	1.28	0.15	0.020												
0799	39.0	39.6			0.6	<0.01	0.07	0.05	1.24	0.14	0.019												
0800	39.6	40.1			0.5	<0.01	0.04	0.06	1.42	<0.1	0.090												
0801	40.1	41.6			1.5	<0.01	0.02	0.05	1.18	0.14	0.018												
0802	41.6	43.1			1.5	0.01	0.08	0.07	1.90	0.18	0.021												
0803	43.1	44.6			1.5	0.05	0.21	0.23	6.52	0.7	0.067												
0804	44.6	46.1			1.5	0.01	0.10	0.07	1.48	0.12	0.009												
0805	46.1	47.2			1.1	<0.01	0.01	<0.01	0.30	<0.1	0.005												
0806	47.2	48.5			1.3	<0.01	<0.01	<0.01	0.38	<0.1	0.004												
0807	48.5	49.0			0.5	<0.01	0.01	0.01	1.60	<0.1	0.012												
0808	49.0	49.3			0.3	0.01	0.02	0.01	1.38	<0.1	0.020												
0809	49.3	50.0			0.7	<0.01	0.01	<0.01	0.94	<0.1	0.002												

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
6.4-10.1	Felsic Lapilli Tuff	Rusty light grey	coarse	Highly oxidized Felsic fragments up to 15mm. 6.4-8.7 Poorly consolidated, gougy.		Surface oxidation	10-15% pyrite in matrix and in felsic fragments Few py clasts.	6.4-10.1 60% Core Recovery 10.1-11.9 90% Core Recovery
10.1-14.0	Felsic Lapilli Tuff to Tuff	Lt. Grey	Coarse	Highly siliceous felsic fragmental <1mm to 10mm felsic fragments. Weakly banded.	80-90	5% sericite?	15-20% pyrite disseminated and laminae. Few sulphide clasts.	70% Core Recovery 11.9-14.0
14.0-19.6	Rhyolite Fragmental	Lt. Grey	Fine to Med.	Massive, aphanitic siliceous rock. Quartz porphyritic and fragmental esp. 17.8-18.9 and @ 16.4m. 14.0-14.6 16.5-17.3, 19.1-19.6 Black graphitic cherty matrix to qtz and chert clasts. 15.9m Banded chert black to light grey. Disrupted banding.		Silicified, minor talc seams.	14.0-16.9 <5% disseminated 16.9-19.6 5-10% disseminated pyrite and in fractures with quartz. Incipient stockwork. Also pyritic laminae esp. @ 17.7	80% Core Recovery 14.0-16.5 85% Core Recovery 16.5-18.9 100% 18.9-21 gouge @ 20.4 90% 21.0-23.3 45% Core Recovery 23.2-26.2 ground core @ 25.5m. gouge @ 26.1 75% Core Recovery 26.2-27.4 Talc gouge @ 26.4, 26.9
19.6-22.9	Talc Rich Felsic Lap. Tuff to Tuff	Yellow Lt. Grey	Med. to Coarse	2mm-30mm angular siliceous fragments and banded cherty fragments in talc schist matrix.	70-80	Talc Schist matrix.	19.6-21.0 <5% dissem. pyrite, few pyrite clasts. 21.0-22.2 Massive pyrite bands and contorted bands up to 25% pyrite overall. 22.2-22.9 10% pyrite disseminations and bands.	75% Core Recovery 34.1-35.4
22.9-26.6	Felsic Fragmental Lap. Tuff to Tuff	Lt. Grey	Fine to Medium	White angular siliceous fragments, very little fine siliceous matrix. 25.8-26.2 Black cherty matrix.		Silicified fragments.	Disseminated pyrite 5%, Few pyritic fractures.	Gouge @ 30.2, 32.0, 32.6m. No core lost.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
26.6-33.2	Talc Rich Felsic Lap. Tuff to Tuff	Yellow Light grey	Fine to coarse	Siliceous fragments fine to coarse grained in finely banded talc rich tuff. 28.1-30.0 Black cherty matrix to fragments. Cherty fragments up to 3cm. 30.2-33.2 Fine banded talc rich tuff, some contorted bedding.		Talc schist matrix and talc rich pods.	Disseminated pyrite in matrix and in clasts, few sulphide clasts. 5-10% pyrite. Locally 15-20%, i.e. 27.0, 29.9m, 25.5.	
33.2-35.9	Felsic Lapilli Store and Lapilli Tuff with Sulphide Stockwork	Lt.Grey	Medium to Coarse	Siliceous fragments, very little matrix. Cut by 1-5mm sulphide stockwork. 34.0,34.4 to 35.3 Talc rich matrix to coarse felsic fragments.		Extremely siliceous. Talc rich matrix.	Stockwork sulphide "stringer zone" < 1% arsenopyrite. Traces chalcopyrite @ 33.9m. Sulphides 5-10% overall Brittle fracture stockwork.	100% Core Recovery.
35.9-37.3	Semi Massive to massive Sulphides	Dk.Grey	Fine grained	Very fine grained pyritic sulphides including chloritic? lenses i.e. @ 36.4. Strat. lower contact sharp @ 70° Strat. upper contact gouge zone 20cm thick. No core lost. 36.6-37.1 Siliceous fragmental: lapilli stone with 20-30% pyrite.	60-80	Chloritic? interbeds.	Pyritic sulphides very fine - indistinctly banded Chalcopyrite and arsenopyrite also very fine grained. 50-80% sulphide except 36.6-37.1 approx. 20-30% pyrite.	100% Core Recovery
37.3-40.9	Mafic Volcaniclastic	Dk.Grey to Black	Fine grained	Mafic volcaniclastic fine white spots to 1mm - probable amygdules 40.5-40.7 Black graphitic gouge. No core loss.	70-80	Talc & chlorite?	Patchy pyritic zones, 5% pyrite overall.	100% Core Recovery
40.9-75.0	Mafic Flow	Light greenish grey	Fine	Massive mafic rock. Mafic phenocrysts bleached to light grey color. Few indistinct fragment ghosts 1-5cm 1cm quartz vein at 47.0@ 20° to C.A.		Bleached, hard rock, sericitic phenocrysts, and fragments.	<1% pyrite.	100% Core Recovery

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
40.9-75.0 Con't				55.0-75.0 Light tan colored fragments - irregular, angular shapes, mafic phenocrysts. Still massive to internally brecciated mafic flow. Thin black cherty argillite interbeds and irregular fillings.				
75.0-75.9	Mafic Fragmental Lapilli Tuff	Greenish grey	Coarse	Mafic angular irregular fragments with light grey siliceous matrix. Fragments 1cm to 3cm.				
75.9-76.5	Mafic Fragmental		Coarse	Mafic Fragments Irregular 1cm to >5cm. Altered amygdaloidal fragments in Black cherty argillite matrix.	60-80	Talc altered fragments - weakly schistose.		100% Core Recovery.
76.5-78.7	Sulphide Rich Siliceous Argillite	Black to Lt. Grey		Black argillitic sediment - pyrite rich Siliceous quartz clastic sections i.e. 77.1-78.0 Strat. lower contact 70% to C.A. 76.5-76.7 Black graphitic sulphide rich gouge - no core lost.			30-50% sulphide very fine grained sulphide mud laminae few ripup sulphide clasts, fine-med grained granular pyrite. 77.1-77.4 10% dissem. pyrite. Locally 60-70% pyrite i.e. 77.7, 78.5.	100% Core Recovery.
78.7-80.3	Argillite	Black	Very Fine	Banded black graphitic argillite. Regular to contorted banding. Few fine grained siliceous clastic bands.	70-80			

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
80.3-86.7	Quartz Rich Epiclastic Sandstone	Lt.Grey	Fine to Medium	Quartz rich sandstone also silty fragments chert and blue quartz clasts. Few 2-5 cm argillite interbeds mark individual sandstone beds. Scours indicate tops downhole. 85.5 Pyrite rich Felsic lapillistone clast similiar to alteration zone below M.S. Talc lamellas, angular siliceous fragments. Occurs at stratigraphic base of quartz sandstone bed.	80	Fresh	Traces pyrite locally up to 1%. Rare sulphide frags. 85.5- 7cm pyrite rich felsic lapilli stone clast. 30% pyrite.	100% Core Recovery.
86.7-91.0	Argillite	Black	Very Fine-Fine	Finely interbanded black graphitic argillite and fine quartz rich sandstone. Graphitic gouge @ 88.0.	70-90		1% pyrite irregular disseminations.	
91.0-99.6	Quartz rich Epiclastic Sandstone	Light Grey	Fine-Medium	Similiar to 80.3-86.7 98.3-99.1 Light green talc rich quartz sandstone bounded by and cut by quartz veins. 99.1-99.3 Quartz vein.	70-90		< 1% pyrite.	100% Core Recovery.
99.6-110.6	Argillite and Quartz Sandstone	Black-Lt.Grey	Very Fine-Fine	Interbedded graphitic argillite and fine quartz rich sandstone. Scours, Ripups, graded bedding all indicate tops downhole. 102,103.4,103.8 - Brokenup graphitic argillite and gouge. No core lost. 103.5-103.7, 106.8, 109.8: Bull Quartz Vein. EOH	70-90		Traces pyrite.	

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au		
			Cu	Zn																		
0686	6.4	8.9			2.5/ 1.4	0.01	0.01	<0.01	0.66	<0.1	0.007											
0687	8.9	10.1			1.2	<0.01	0.01	<0.01	0.50	<0.1	0.011											
0688	10.1	11.5			1.4	<0.01	<0.01	<0.01	0.52	<0.1	0.009											
0689	11.5	12.7			1.2	<0.01	0.02	<0.01	0.76	0.1	0.010											
0690	12.7	14.0			1.3/ 80	<0.01	0.02	<0.01	0.68	0.1	0.012											
0691	14.0	15.5			1.5	<0.01	0.01	<0.01	0.96	0.16	0.047											
0692	15.5	16.5			1.0	0.02	0.01	0.02	1.70	0.1	0.013											
0693	16.5	17.4			0.9	0.01	0.02	0.02	2.06	0.18	0.027											
0694	17.4	19.1			1.7	<0.01	0.01	0.01	1.90	0.26	0.014											
0695	19.1	19.6			0.5	<0.01	0.04	0.02	3.20	0.38	0.018											
0696	19.6	21.0			1.4	<0.01	<0.01	<0.01	1.28	<0.1	0.010											
0697	21.0	22.2			1.2	<0.01	<0.01	0.01	1.16	<0.1	0.020											
0698	22.2	22.9			0.7	<0.01	<0.01	0.01	1.04	<0.1	0.012											
0699	22.9	23.8			0.9	<0.01	0.02	<0.01	1.48	<0.1	0.007											
0700	23.8	26.6			2.8/ 0.9	0.01	0.05	0.01	2.98	0.3	0.118											
0751	26.6	28.1			1.5	<0.01	<0.01	<0.01	1.48	<0.1	0.018											
0752	28.1	29.4			1.3	<0.01	<0.01	0.01	1.32	<0.1	0.010											
0753	29.4	30.2			0.8	<0.01	<0.01	<0.01	1.50	<0.1	0.009											
0754	30.2	31.7			1.5	<0.01	<0.01	<0.01	1.56	<0.1	0.011											
0755	31.7	33.2			1.5	<0.01	<0.01	<0.01	2.98	0.12	0.009											

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0-3.4								CASING
3.4-23.9	Felsic lapilli stone with sulphide/quartz stockwork	Yellow grey to tan	fine	Uniform sections broken with talc schist, sections throughout of vague to distinct lapilli, matrix poor, clasts upto 20mm., talc schist seams throughout up to 10mm wide @ 80° to C.A. clay ± schist gouge @: 13.0m 10mm wide 16.1m to 17.3m with possible fault bx. 22.2m 5mm wide 22.5 to 22.9 with loose flt bx. 23.4m, 40mm wide black chert: @11.8m, 20mm wide 17.5 to 17.7 banded siliceous tuffs: 17.9 to 18.5 19.2 to 19.3 lower contact sharp and broken.	talc schist 80° 85° 85° 90° ±90° 85° 85° 85° contorted contorted 80°	10% talc throughout as talc schist	qtz + sulphide stockwork to incipient stockwork ≈10% by volume predominately py with trace cp @ 20.3 2% PbS from 22.6 to 22.9	Core recovery: 3.4 to 6.7: 90% 6.7 to 10.0: 15% 10.0 to 23.9: 100%
23.9-24.4	Mixed sulphide - mafic - felsic	medium and light grey	fine granular	30% sulphides occurring as distinct clasts to 5mm and fine disseminations in mixed host of altered mafic and felsic lapilli and tuff. 40% mafic (as from strata. h.w.) and 20% sericitic/talc lapilli and tuff (as from strata. f.w.), 10% quartz matrix. - strongly sheared grading to moderately sheared with depth	80°	bleached mafic clasts, talc/sericitic felsic clasts	predominately fine grained granular and distinct clasts of pyrite 30%	Core Recovery 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
24.4-26.0	Mafic volcaniclastic with sulphides	Light grey mafic clasts, dk grey sulphide rich matrix	fine grained	distinct light grey mafic clastic ranging from 20 to 60mm, subround in part vaguely mottled by lighter grey spots to 1mm. 40% dk grey sulphide rich matrix mottled with 1mm light grey spots lower contact sharp & sheared	80°	strongly bleached mafic clasts	20% sulphides as fine diss. py in dk grey siliceous matrix	Core recovery 100%
26.0-27.5	Mafic (Sulphide Rich) Tuff	dk to medium grey	fine grained	fine granular sulphide rich mafic tuff crudely banded with sulphide clasts to 1mm concentrated along bedding planes, sericitic/talc clasts to 2mm concentrated 2-3mm wide beds increasing in concentration with depth to 5% - unit moderately schistose @ 27.2: 10mm vein granular qtz-feldspar? with trace PbS Lower contact gradational	80° 80° 75°	introduced altered clasts	30% fine granular py tr. PbS	Core recovery 100%
27.5-28.1	Coarse Felsic Lapilli Stone	Light Grey	fine grained	Light grey felsic clasts flattened to 20mm. from 27.7 to 27.8: fault gouge probable mafic sulphide tuff.	80° 85°		Minor py	Core Recovery 100%
28.1-28.2	Fault Gouge	Light Grey		With 40% white qtz veining	85°		10% py	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
28.2-28.8	Felsic/Mafic lapilli Tuff with Sulphides	mixed light & dark grey tan clasts, dk grey matrix	fine grained	From 28.2 to 28.4: 40% light grey felsic clasts, subrounded to 10mm 20% tan talc/sericite subangular clasts to 3mm. 10% fine tuffaceous mafic component 30% sulphide. @ 28.4: 50mm. wide fault gouge from 28.4 to 28.8: 60% tan talc/ser. clasts, subangular to 3mm. 40% py. Lower contact sharp	90° 60°	introduced altered clasts	From 28.2 to 28.4: 30% py granular clasts to 1mm. From 28.4 to 28.8: py as 1mm clasts & diss. grading to coarser clasts to 10mm. with depth.	100% core recovery
28.8-29.2	Silicified Mafic Volcanic	Light Grey	fine grained	Primary textures masked totally by silica flooding. Lower contact gradation.		Silicified	2% patchy cubic py.	Core recovery 100%
29.2-29.6	Semi-Massive Sulphide	Light Grey	fine grained	50% blotchy py with 30% white qtz and 20% bleached mafic host. Lower contact gradational with py bands @ 70°	Irregular	Pyritized silicified	50% py	Core Recovery 100%
29.6-39.3	Bleached Mafic Volcanic-Clastic	Light Grey	fine grained	Unit has fine tuffaceous appearance throughout, scattered qtz rich spots to 1mm. - poss. amyg. or pseudomorphed phenos, ghost clasts to 20mm. subround gives unit flow by appearance, from 35.2 to 35.5: possible mafic dyke, bleached moderately broken along schist planes. Lower contact gradational.	70° 75°-85°	Strongly bleached	From 29.6 to 29.7: 2-3% diss. py decreasing to trace with depth.	Core Recovery 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
39.3-57.3	Bleached Mafic Volcani-Clastic With Intercalated Black Chert	Light Grey and Black	fine grained	Mafic clasts as above coarsely brecciated throughout with 20 to 25% inter-clastic black (graphitic) chert, breccia subangular to ragged clasts from 5mm. to >20mm. From 42.0 to 45.0: strongly broken along 85° schistosity Lower contact sharp.	80°	Strongly bleached clasts	Trace py.	Core Recovery 100%
57.3 (72.5)	Intercalated Argillite and Quartz Porphyry	Black and Medium Grey	Fine grained to granular	Poorly bedded dk grey to black argillite intercalated with coarse to fine Q.P. with individual Q.P. beds ranging from 3mm. to 1 metre, several coarse beds showing grading to fine Q.P. indicating tops down the hole. <u>Quartz porphyry:</u> from 57.5 to 57.6; @ 57.7, 60mm. wide; @ 57.8, 25mm. wide; from 57.7 to 59.3 30% fine Q.P. beds up to 20mm. in width from 59.35 to 59.5; from 60.1 to 60.2; from 60.3 to 60.4; from 60.5 to 60.9; from 61.0 to 61.3; from 61.4 to 61.7; from 61.9 to 62.0; from 62.1 to 62.8; from 63.0 to 63.3.	Bedding	From 64.8 to 65: 5% pyrite as clasts or frambooids in Q.P. & argillite.		Core Recovery 100%

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
72.8-80.7	Quartz Rich Epiclastic Sandstone to Conglomerate	Lt. Grey	Fine to Coarse Grained	<p><u>QP:</u> from 63.5 to 64.3; from 64.7 to 64.8; from 64.9 to 65.0; @ 65.2, 20mm. wide; @ 65.3, 30mm. wide; from 65.3 to 69.1, 20% fine light grey bands up to 5mm. (possible fine Q.P.); from 69.1 to 69.4; from 70.0 to 70.2; from 70.7 to 71.0; from 71.2 to 72.1 with grading from coarse Q.P. to fine down hole.</p> <p>Sandstone-fine quartz and siltstone fragments.</p> <p>76.1-77.0 78.7-80.7 Coarse sandstone to conglomerate. Quartz and siltstone clasts 1-10mm in fine sandstone matrix.</p> <p>Gouge 74.8, 75.3 No core lost.</p> <p>78.2-78.7 Light green, bleached sandstone. This section cut by and bounded by quartz veins 1-3cm.</p>		Fresh	Traces pyrite	<p>From 69.4 to 70.0: broken qtz vein with prob. fault bx.</p> <p>From 72.1 to 72.3: qtz vein @ 75°</p> <p>100% Core Recovery</p>
80.7-92.0 END	Epiclastic Sediments	Dk Grey -Black	v.fine to coarse	<p>Very fine grained graphitic argillite interbanded w. quartz rich greywacke.</p>	70-80°	Fresh	Trace pyrite	100% Core Recovery

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
80.7- 92.0 END Con't				Graded bedding i.e. @ 87.4m, 89.0m, scours i.e. @ 88.0-88.8m indicate tops toward bottom of hole. Slaty cleavage @ 40° to C.A. i.e. @ 87.4m. Graphitic Gouge @ 82.9, 84.8-85.0 85.6m no core loss. 90-91.6 Quartz vein. Massive quartz. Talc and Sericite seams @ 90.1-90.2			Trace pyrite	

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	Check Assays		
			Cu	Zn																	Ag	Au	
0094	3.4	4.9			1.5	<0.01	<0.01	<0.01	1.24	0.1	0.018												
0095	4.9	6.4			1.5	<0.01	0.01	0.01	1.24	<0.1	0.023												
0096	6.4	6.7			0.3	<0.01	<0.01	<0.01	0.80	0.1	0.009											85% Lost Core	
0097	6.7	10.0			3.3	<0.01	0.01	0.01	0.98	0.1	0.021												
0098	10.0	11.5			1.5	<0.01	0.02	0.03	1.26	1.2	0.014												
0099	11.5	13.0			1.5	<0.01	0.08	0.08	3.38	0.26	0.062												
0100	13.0	14.5			1.5	<0.01	0.03	0.02	2.62	0.28	0.048												
0651	14.5	16.0			1.5	0.17	0.46	1.21	33.50	0.46	0.053												
0652	16.0	17.5			1.5	0.01	0.02	0.05	3.42	0.56	0.011												
0653	17.5	19.0			1.5	0.02	0.13	0.07	4.02	0.48	0.133												
0654	19.0	20.5			1.5	0.03	0.08	0.11	4.52	0.44	0.053												
0655	20.5	22.0			1.5	0.01	0.01	0.04	2.80	0.46	0.117												
0656	22.0	23.0			1.0	0.03	0.60	0.54	6.72	0.20	0.027												
0657	23.0	23.9			0.9	<0.01	0.03	0.04	1.74	0.18	0.009									Min-en	0.34	0.24	
0658	23.9	24.4			0.5	0.04	0.66	0.52	13.02	0.42	0.038												
0659	24.4	25.2			0.8	0.01	0.82	0.56	30.12	1.00	0.281											31.54	1.20
0660	25.2	26.0			0.8	<0.01	0.05	0.03	2.26	0.26	0.019											3.43	0.31
0661	26.0	27.5			1.5	0.02	0.08	0.11	13.22	1.14	0.031												
0662	27.5	28.2			0.7	0.02	0.25	0.16	16.46	0.60	0.018											17.14	0.82
0663	28.2	28.8			0.6	0.03	0.24	0.10	15.94	1.44	0.038												

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	Check Ag	Assays Au
			Cu	Zn																		
0664	28.8	29.2			0.4	0.11	0.13	0.30	57.60	1.40	0.031										Min-en	
0665	29.2	29.6			0.4	0.02	0.02	0.08	38.42	3.32	0.022										38.39	4.70
0666	29.6	31.1			1.5	<0.01	0.07	<0.01	0.60	0.1	0.013											
0667	31.1	32.6			1.5	<0.01	0.07	<0.01	0.50	<0.1	0.002											
	24.4	29.6			5.2	0.025	0.23	0.18	20.2	1.13												

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM ()	TO ()	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Grid	L.O.I.		
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	P ₂ O ₅	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppm Ba							
6604D	10	13	90.0		.043	.293	.128	1.64	2.55		.183		33	370	280	1.1	870					2.25		
6605D	40	43	46.8		6.88	3.47	2.00	2.28	7.65		.684		6	310	4	0.3	2030					12.2		

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

* METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER RG-1	GRID Main	FIELD COORDS	LAT. 9975NW	DEP. 0+96NE	ELEV. 1492.61	COLLAR BRNG. Grid SW 225°	COLLAR DIP -50	HOLE SIZE NQ	FINAL DEPTH 157.3
PROJECT 212	CLAIM#	SURVEY COORDS				DATE STARTED: Nov 21, 1983 DATE COMPLETED: Nov 23/83	CONTRACTOR: Longyear CORE STORAGE: CASING 3.7m.		
PURPOSE Test Rea Gold Showing								ROD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH (m)	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH (m)	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
30.5	48°			157.5	013°?	41°			
61.0	45°								
91.0	44°								
122.0	42°								
152.0	41°								

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
3.7-4.8	Sil. Tuff	Yellowish	Fine Medium 1-3mm.	Weakly schistose, siliceous w. sericitic laminae	90°	Oxidized - surface Sericite	Spotty up to 20% pyrite crosscutting stringers and clots pyrite-quartz.	100% Core Recovery
4.8-7.4	Lap. Tuff	Yellow-Grey	Medium 1-10mm	Indistinct fragments up to 1cm. Siliceous-sulphide frags, sericite laminae weakly schistose.	80-90°	Sericitic laminae	Sulphide rich fragments to 1cm. X-cutting quartz-py stringers to 5mm.	100% Core Recovery
7.4-17.1	Lap. Tuff	Yellow-Grey	Medium 1-30mm	Distinct Sil-py frags to 3cm. Frags sheared Wk-Mod Schistosity. Broken Gouge @ 13.5m.	(60)70-90°	Sericitic laminae Minor Talc	Sulphide rich frags and X-cutting Qtz-py stringers to 5mm. 10-40% Sulphide	100% Core Recovery
17.1-19.9	Sil. Lap. Tuff	Lt. grey Yellow	Medium 1-10cm	White Siliceous & Py Frags and Brx. 18.7-19.7 Sulphide 60 cm lost. Gouge Coarse Sil. & Ser. Frags. to >5cm.		Talc-Sericite laminae	10-40% py laminae and frags.	70% Core Recovery
19.9-20.8	Sil. Lap. Tuff			20.4 Gouge - no core loss White cloudy fragments Brecciated Silica Flooded Tuff?	90°	Few talc laminae. Sil. flooding	5-20% Sulphide stockwork and laminae	100% Core Recovery
20.8-23.0	Sil. Lap. Tuff	Lt. grey Yellow		Sericitic and Siliceous Fragments in Talc-Ser Schistose Matrix. Coarse Frags. >5cm @ 21m. 22.2 Gouge - no core loss	70-90°	Talc (Ser.) Silica Qtz flooding 22.5-23.0m	Py clots and laminae Very fine pyrite 10-20%. 22.5-23.0 Py 40-80% fine laminae in quartz.	100% Core Recovery
23.0-24.2	Black Chert	Dk.Grey Black	Very Fine	Coarsely broken (fragmental?) w. sulphide fracture fill. @ 23.7 Silica flooded brecciated 1mm opaque white phenocrysts ghosts-siliceous leucoxene?	70°	Silica flooded Siliceous rock.	Black fine grained sulphides on fractures in "chert".	100% Core Recovery

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
24.2-26.0	Sil. Lap. Tuff to Tuff	Lt.Grey Yellow	Medium Coarse	Siliceous Frags >5cm in moderately schistose matrix 25.4-26.0 Crudely laminated Siliceous tuff White opaque ghosts 3-5% leucoxene?	70° 60°	Talc-Sericite schist matrix	Frag. 10% sulphide in Matrix >40% sulphide ≈10-20% py overall.	100% Core Recovery
26.0-26.2	Sil. Lap. Tuff-Sulphide Rich	Lt.grey Pyritic	to 10mm	White siliceous fragments to 1cm. in schistose talc.			30-50% pyrite fine grained and granular pyrite to 5mm.	100% Core Recovery
26.2-28.2	Lap. Tuff Talc Schist			Siliceous fragments (finely laminated) in talc schistose matrix. Mod. to strong schistosity Gouge 27.1 no core loss Fine lam. exhalite? frags.	70-90°	Talc (Ser.)	27.3-27.5 26.2-26.9 Lenses and laminae Mass Py ≈30-50% overall otherwise 5-10% py dissem.	100% Core Recovery
28.2-33.8	Sil. Tuff to Lap. Tuff	Yellow	1-15mm	Sil. Frags to 3cm in mod. schistose talc matrix 28.2-29.7, 31.5-33.8. 29.7-31.5 Fine banded Siliceous tuff & talc schist indistinct banding. 32.0-32.5 2 qtz veins? 5cm thick cleavage (crenulation?) @ 50° to C.A. esp. @ 30.5m, 32.5m. 33.3-33.6 QP. tuff sil-py clots (frags?) in ser. schist. Sil. frags to 1.5cm	70-90°	Talc schist matrix. Ser. laminae 20% ser.-bright yellow	10-15% fine pyrite disseminations and laminae @ 32.3m sulphide rich frags. 32.0-32.5 20% py laminae & dissem. 33.3-33.6 granular pyrite <1-2mm py 10-20%	100% Core Recovery

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
33.8-36.2	Sil. Lap. Tuff			33.6 to 33.8 Sil. Lap. Tuff White Sil. Frags and Black Cherty Frags and disrupted Cherty bands. 1-3cm amyg-frags + Leucoxene 34.9-35.4 Siliceous frags - no black cherty, white to light grey frags.	80-90°	Talc Schist Laminae and Matrix Minor talc laminae	30-40% pyrite f.g. and granular disseminations and laminae. Granular framboidal pyrite textures @ 35.7-36.2m 20-30% py f.g. and granular disseminations + laminae. Trace galena.	100% Core Recovery
36.2-40.0	Sil. Brx. Lap. Stone	Yellow Lt.grey		Coarsely broken siliceous fragmental. White siliceous frags. >5cm. 39.5 Talc gouge-no core lost.	80-90°	Talc laminae and partings.	5-10% pyrite, tr. cp. disseminations, incipient fractures 5-20mm long.	100% Core Recovery
40.0-47.7	Talc Schist and Sil. Tuff			Fine laminated Chert w. Talc Schist Crumpled and disrupted banding transposed by schistosity. 46.4-47.3 Black Cherty and siliceous 48.4 Talc Gouge 50.2-50.4 47.3-47.5 Siliceous, massive light grey, fine leucoxene 1-5%.	80-90°	Talc Schist Siliceous Fragments > 60% Talc Silica flooded	5-10% pyrite on fractures and schistosity 50% pyrite @ 41.0m. py on fractures <5%	100% Core Recovery 41-43.3 85% Recovery
47.7-50.9	Sil. Lap. Tuff	Yellow Lt.grey	1-5cm frags.	Sil. laminated frags angular 1- >5cm. Talc Matrix. 48.4 Talc Gouge 49.8 White siliceous and Black Cherty Frags.	80-90°	Talc Schist Matrix	5% sulphide dissem. and in fractures 20% py laminae 20% @ 50.3	100% Core Recovery
50.9-53.0	Black to Lt. grey Chert	Black to Grey Dk.		Chert breccia - Brx Matrix is Graphitic-Siliceous Qtz veins @ 51.8 2-3mm. Frag finely laminated. Minor leucoxene.		Siliceous Silica Flooded?	5-10% fine pyrite 85% 50.6-53.6 gouge 52.5-52.7 80% fine grained and granular pyrite. 50.9-51.0 30-40% pyrite.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
53.0-54.8	Sil. Lap. Tuff and Tuff	Yellow-Grey Lt-Dk Grey		Banded siliceous fragments 2-20mm in talc schist matrix. Finely banded tuff and disrupted tuff. 53.0-53.5 Siliceous cherty breccia. Light to dark grey broken up chert - quartz veins.	70°	Talc Schist matrix-moderately schistose 50% talc. Minor Talc Lamellae	5-10% pyrite-fine disseminations and laminae Qtz and py on fractures <5% pyrite	100% Core Recovery
54.8-56.5	Sulphide rich mixed talc and siliceous Lap. Tuff	Yellow Grey to Grey		Coarse fragmental felsic siliceous frags 5- 50mm 55.5-56.0 Talc rich fine grained tuff-felsic 56.1 - sulphide gouge - no core lost. Lower contact broken.	80-90°	Siliceous - silica flooded? Talc rich schist.	30-40% dissem. pyrite and pyritic matrix to frags.	95% Core Recovery
56.5-57.3	Felsic Fragmental	Lt.Grey	1-10mm	1-10mm hard grey angular fragments. Gouge lower contact @ 57.3m		Silica flooded. Hard, cloudy whitish spots up to 2mm.	Sulphide disseminated 5% in siliceous sections. 56.6,56.9 20% pyrite fragments and laminae.	
57.3	Mafic Volcani-clastic	Lt.-Dk. Grey	f.g.	Coarsely fragmental mafic rock. Fine grained light grey rock, 10-15% white spots up to 1mm. Qtz amygdules, leucoxene? Intercalated black chert infills as matrix to volcani-clastic crude banding and flattening @ 80° to C.A. 57.3-58.6 Banded light grey siliceous fragmental. Cherty fragments and few mafic fragments (leucoxene-bearing).	70-80° 80-90°	Bleached, silicified to weakly bleached. Bleached, silicified.	Generally <5% dissem. pyrite. Concentrated at fragment boundaries. 30% pyrite disseminations and laminae.	100% Core Recovery

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
68.0-	Mfc. VC		Coarse	58.6-58.7 Fine banded sulphide and fine 1-2mm sulphide fragments in black graphitic cherty matrix.	80-90°		30% pyrite	100% Core Recovery
				59.7-60.4 Coarse fragmental lapilli tuff or flow breccia. Angular mafic frags. in black cherty graphitic matrix.			Pyrite concentrated in margins of frags. and in matrix. NB-few py clasts. ≈10-15% pyrite.	
				61.9 2cm qtz vein @ 080 to C.A. rebrecciated perpendicular to vein walls.				
				62.4-62.9 Coarse mafic fragmental including mafic clasts, sulphide clasts in black graphitic cherty matrix.	80°	Bleached	Py clasts, py dissem. in mafic clasts and in matrix. 5-10% pyrite.	
				64.1-64.8 Sulphide rich mafic volcanoclastic.		Chloritic? mafic frags.	Crudely banded pyrite laminae, also colloform pyrite on sulphide fragments and quartz. averages 40-50% py.	
				66.8-66.9 10cm gouge - no core loss. Lower boundary sharp 70° to C.A.				
			66.9-68.0 Mafic Volcanoclastic Fragments up to 1cm wide, Also black argillite between fragments. Coarse fragmental.		Weakly bleached	10% pyrite, infilling between fragments.		
			68.0-69.6 Mafic volcanoclastic Argillite between clasts, Coarse grained.	75°	Moderately bleached.	1% pyrite in clasts and within argillite.		
			69.5-69.6 - Quartz filled tension g shes.	50°				

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
89.0	Mix. Qtz. Lapilli Stone & Argillite	Lt.Green	Fine	69.6-72.8 Fine grained-medium grained mafic volcaniclastic, Ash-like frags. Argillic interbeds with frags of volcaniclastic. 72.8-76.9 Mafic volcaniclastic as above with less argillic interbeds. Some very small qtz clasts. 76.9-86.0 Mix Clastic Unit, Clasts of altered footwall siliceous tuff, mafic volcaniclastic, quartz. Crude bedding. Distinctly different unit. 86.0-88.3 As above with interbeds & partings of black chert increasing from 87.2-88.3. 88.3-89.0 Gouge Zone - No Core Loss. Graphite - qtz shear.	90° 80°	Weak bleaching Moderately bleached. Moderately-intensely bleach. Silicified with qtz veins and network-stockwork texture. Less bleached.	Pyrite clots at 72.8. Pyrite (1%) dissem. from 87.2-88.3	
104.4	Argillite		Fine to Medium Grained	89.0-104.4 Good quartzose lapillistone - conglomerate Qtz. clasts up to 5mm long. Gross grading shows tops downhole. Mixed with zone of graphitic argillite up to 1 metre long. Some good blue quartz eyes and cherty frags. Very coarse at 104.4 104.4-109.0 Fine grained graphitic argillite with minor interbeds of fine grained qtz lapilli stone.	80°	Unaltered Unaltered.	Occasional pyrite clasts & bands associated with argillitic layers. Minor pyrite interbedded.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
109.0	Qtz Lapilli Stone		Fine to Medium	109.0-119.5 Fine to coarse grained qtz lapilli stone, Excellent graded beds. Tops consistently downhole. Few argillic interbeds and thin clasts of argillite, blue qtz, chert. Well sorted more matrix supported.	80°	Unaltered.	Minor pyrite clasts	
119.5	Qtz Lapilli Stone		Coarse to Fine	119.5 Excellent series of graded beds each approximately 1m - 1.5m thick. Very coarse (up to 8m) frags at base grading upwards (downhole) to fine lapillistone + argillite. Individual cycles easily recognizable clasts well sorted and stretched 2:1		No	Minor clasts pyrite.	Individual beds. 119.5-120.4 120.4-121.8 121.8-123.4 123.4-124.2 124.2-126.6 126.6-127.7 127.7-129.5
129.5	Mix Argillite with minor Qtz lapilli Stone			Bedded argillite with minor (2-5cm) beds qtz lapilli-stone.	80°	No	Minor clasts pyrite.	
133.8	Argillite			Well bedded and laminated argillite fine grained with lighter bands more sandy material. Good soft sed-structure i.e. convoluted laminations lode casts etc.	80°	No		
157.3				End of Hole.				

ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
0051	3.7	4.8			1.1	<0.01	<0.01	<0.01	0.52	<0.1	0.013												
0052	4.8	6.0			1.2	<0.01	0.01	<0.01	0.80	<0.1	0.011												
0053	6.0	7.4			1.4	<0.01	0.01	<0.01	0.94	<0.1	0.018												
0054	7.4	8.9			1.5	<0.01	0.02	<0.01	0.98	<0.1	0.014												
0055	8.9	10.4			1.5	<0.01	0.02	<0.01	0.78	<0.1	0.014												
0056	10.4	11.9			1.5	<0.01	0.02	<0.01	0.34	<0.1	0.020												
0057	11.9	13.5			1.6	<0.01	0.02	<0.01	0.86	<0.1	0.019												
0058	13.5	15.0			1.5	<0.01	0.02	<0.01	0.84	<0.1	0.019												
0059	15.0	16.5			1.5	<0.01	0.01	<0.01	0.74	<0.1	0.018												
0060	16.5	17.1			1.6	<0.01	0.01	<0.01	1.04	<0.1	0.025												
0061	17.1	18.6			1.5	<0.01	0.01	<0.01	0.86	<0.1	0.028												
0062	18.6	19.9			1.3	<0.01	0.01	0.01	0.84	<0.1	0.022												
0063	19.9	20.8			0.9	<0.01	0.02	0.01	0.98	<0.1	0.028												
0064	20.8	22.3			1.5	0.01	0.04	0.02	2.54	0.3	0.084												
0065	22.3	23.0			0.7	<0.01	0.02	0.01	1.52	0.22	0.116												
0066	23.0	24.2			1.2	<0.01	0.02	<0.01	0.38	<0.1	0.018												
0068	24.2	25.1			0.9	<0.01	0.05	<0.01	0.94	0.1	0.045												
0069	25.1	26.0			0.9	<0.01	0.01	<0.01	1.20	0.22	0.061												
0070	26.0	26.2			0.2	<0.01	0.02	0.01	1.56	0.14	0.050												
0071	26.2	27.2			1.0	<0.01	<0.01	<0.01	0.42	<0.1	0.005												

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ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm. T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
0072	27.2	28.2			1.0	<0.01	<0.01	<0.01	0.60	0.1	0.005												
0073	28.2	29.7			1.5	<0.01	<0.01	<0.01	0.52	<0.1	0.003												
0074	29.7	31.2			1.5	<0.01	<0.01	<0.01	0.30	<0.1	0.004												
0075	31.2	32.7			1.5	<0.01	<0.01	<0.01	0.30	<0.1	0.013												
0076	32.7	33.8			1.1	<0.01	0.04	0.03	0.78	<0.1	0.013												
0077	33.8	34.9			1.1	<0.01	0.06	0.03	1.84	0.20	0.075												
0078	34.9	35.4			0.5	<0.01	0.02	0.03	1.16	0.18	0.095												
0079	35.4	36.2			0.8	0.01	0.10	0.04	1.48	0.34	0.418												
0080	36.2	37.7			1.5	<0.01	0.01	<0.01	1.24	0.18	0.017												
0081	37.7	38.9			1.2	<0.01	<0.01	0.01	0.78	0.14	0.051												
0082	38.9	40.0			1.1	0.04	0.04	0.02	1.08	<0.1	0.006												
0083	40.0	41.6			1.6	<0.01	<0.01	<0.01	0.50	<0.1	0.007												
0084	41.6	43.2			1.6	<0.01	<0.01	<0.01	0.42	<0.1	0.006												
0085	43.2	44.7			1.5	<0.01	0.01	<0.01	0.34	<0.1	0.009												
0086	44.7	46.2			1.5	<0.01	<0.01	<0.01	0.42	<0.1	0.010												
0087	46.2	47.7			1.5	<0.01	0.01	<0.01	0.82	<0.1	0.010												
0088	47.7	49.4			1.7	<0.01	0.01	<0.01	0.48	<0.1	0.010												
0089	49.4	50.9			1.5	<0.01	0.03	<0.01	1.02	<0.1	0.009												
0090	50.9	51.2			0.3	<0.01	0.02	0.01	2.00	0.16	0.017												
0091	51.2	52.5			1.3	0.01	0.12	0.03	2.42	0.22	0.038												

HOLE NO. RG-1

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ASSAY SHEET

Sample Number	From ()	To ()	Estimate		Length ()	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% As	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	Check Ag	Assays Au
			Cu	Zn																		
0092	52.5	52.7			0.2	0.01	0.13	0.08	7.76	1.40	0.169									Min-en	7.54	1.78
0093	52.7	53.0			0.3	<0.01	0.06	0.02	2.60	0.34	0.043											
0668	53.0	53.5			0.5	0.03	0.19	0.24	8.50	0.34	0.310											
0669	53.5	54.8			1.3	<0.01	0.01	0.02	1.30	0.12	0.019											
0670	54.8	55.5			0.7	0.01	0.02	0.02	0.82	0.22	0.013											
0671	55.5	56.5			1.0	<0.01	0.16	0.09	3.26	0.38	0.026											
0672	56.5	57.3			0.8	<0.01	0.01	0.03	1.52	0.32	0.006											
0673	57.3	58.6			1.3	0.01	0.08	0.08	3.20	0.28	0.026											
0674	58.6	59.7			1.1	<0.01	0.02	<0.01	1.4	<0.1	0.019											
0675	59.7	60.4			0.7	<0.01	0.05	0.02	2.0	<0.1	0.024											
0676	60.4	61.6			1.2	<0.01	0.01	<0.01	1.0	0.1	0.005											
0677	61.6	62.6			1.0	<0.01	0.01	<0.01	1.0	<0.1	0.004											
0678	62.6	62.9			0.3	<0.01	0.02	<0.01	1.4	<0.1	0.006											
0679	62.9	64.1			1.2	<0.01	0.02	<0.01	1.0	0.1	0.005											
0680	64.1	64.8			0.7	<0.01	0.01	0.01	2.7	<0.1	0.012											
0681	64.8	65.8			1.0	<0.01	0.01	<0.01	1.0	<0.1	0.003											
0682	65.8	66.9			1.1	<0.01	0.01	<0.01	3.4	<0.1	0.004											
0683	66.9	68.0			1.1	<0.01	0.03	<0.01	0.7	<0.1	0.005											
0684	87.2	88.3			1.1	<0.01	0.01	<0.01	0.3	<0.1	0.001											
0685	96.4	98.1			1.7	<0.01	0.01	<0.01	0.3	<0.1	0.006											

