

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0 to 3.08 3.08 to 10.56	RHYOLITE FLOW	Lt. brown to Lt. green	med.	Med. gr. green matrix with 0.5-1.0mm feldspar phenos and 1-2mm Qtz phenos (Fp's 70%, Qtz phenos 30%)	Fol'n 50°	Sericite alteration in matrix of rhyolite Propylitic alteration around faults	Tr py	fault at 7.59m with clay gouge + propylitic alteration Qtz vein from 7.69 - 10.56m
10.56 to 19.20	ARGILLITE with SILTSTONE	Dk. grey to black	fine to med.	Finely laminated siltstone and argillite with occasional rip up frag. + breccia Occas. rhyolite frag. from 18-19.2m (tops up hole?)	bedding 65 - 75°		2% blebs + cubes of py	
19.20 to 21.70	RHYOLITE FLOW	Lt. green	Med.	Feldspar-rich with feldspar phenos to 2mm (80%), Qtz phenos (20%) 1-4mm (amyg's) euhedral Some bedding and occas. lapilli up to 2cm sub-angular	bedding 65 - 75°	Intense sericite alter'n Occas. Qtz veinlet	Tr py	
21.70 to 29.09	ARGILLITE with SILTSTONE	black to dk. grey	fine	Finely laminated argillite with occas. siltstone bed and angular frags Occas. fine chert bed	bedding 65°	Occas. Qtz veinlet	2% blebs + cubes of py	98% recovery
29.09 to 122.84	RHYOLITE FLOW	lt. green to lt. grey	med.	Qtz-feldspar porph. rhyolite flow; some Qtz phenos are amygdules 60% 1mm feldspar phenos, 40% 1-3mm Qtz phenos. Occas. rhyolite frag. or lapilli tuff zone (sub-angular, 1-10cm) 77.46: Good Qtz amygdules 94.5 - 106m: feldspar-rich rhyolite flow with intense sericitic alter'n + occas. lapilli tuff	fol'n 50°	Strong sericite alter'n with feldspars broken down Weak carb alter'n on fractures occas. Qtz vein	Tr py - 0.5% py as diss + cubes 52m: 2% py. py slowly increasing to 90m 90m: diss. py to 5% till 103m 91.8m: a 7cm angular frag. of 80% py in a silicic rhyolite flow, by 94.5m	34-41m: only 30% recovery (fault zone) 49.9m: chert frags with 20% py Generally 98-99% recovery

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
122.84 to 125.50	SILTSTONE with ARGILLITE	dk. grey to black	fine	110m: good subround lapilli tuff (1-3cm) Finely laminated siltstone and argillite	fol'n 40° bedding 40°	Occasional qtz vein	back into QFP sericite alteration, rhyolite flow 3-5% diss. py cubes	
125.50 to 137.23	CHERT	lt. grey	aphan.	Massive chert with occas. siltstone bed	bedding 50°	chlorite alteration on fracture	1% diss. py cubes	Intense clay gouge in fault from 133.90-137.23 (only 30% recovery)
137.23 to 147.25	SILTSTONE with ARGILLITE	dk. grey to black	fine	Finely laminated siltstone and argillite beds	bedding 50°	Fractures occas. graphitic	2-3% diss. py	Graphite weakly conductive
147.25 to 150.45	CRYSTAL-F.G.R. RHYOLITE TUFF	med. green	fine to coarse	From fine wispy sericitic altered tuff to coarse QFP tuff with angular 3mm Qtz phenos Interbeds of argillite	bedding 60°	Strong sericite alter'n	Tr py	
150.45 to 151.95	ARGILLITE BRECCIA with TUFF	black dk.grey	fine	Argillite with slump breccia with 20% argillite frags, 80% siltstone	bedding 50°	Occasional qtz veinlet	3-5% diss. py cubes	
161.95 to 171.08 EOH	RHYOLITE TUFF	lt.green	fine	Finely laminated QFP Rhyolite Tuff interbedded with occas. argillite beds with tuff frags (phenos 1mm)	bedding 50°	Mod. sericite alter'n Occas. qtz vein	2-3% diss. py	

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BAR 2001	3.10	4.10			1.00											9	39	27	0.3	25			
2002	14.90	15.90			1.00											31	112	32	0.6	35			
2003	19.35	20.55			1.20											4	43	30	0.2	5			
2004	25.00	26.10			1.10											33	107	29	0.4	10			
2005	31.00	32.00			1.00											3	28	18	0.2	15			
2006	38.20	39.20			1.00											13	22	12	0.2	10			
2007	43.90	45.00			1.10											5	44	19	0.3	5			
2008	50.00	51.00			1.00											11	41	18	0.2	5			
2009	54.85	55.85			1.00											4	28	22	0.3	25			
2010	60.25	61.25			1.00											9	21	39	0.2	5			
2011	65.02	66.12			1.10											11	16	12	0.4	10			
2012	70.06	71.06			1.00											13	20	14	0.3	5			
2013	75.03	76.03			1.00											5	30	50	0.5	10			
2014	80.00	81.00			1.00											6	32	24	0.4	20			
2015	90.00	91.00			1.00											15	29	42	0.4	10			
2016	91.50	91.70			0.20											260	168	230	1.9	400			
2017	91.87	93.00			1.13											44	35	46	0.3	20			
2018	96.24	97.24			1.00											4	13	35	0.3	15			
2019	100.00	101.10			1.10											3	12	16	0.2	10			
2020	104.00	105.00			1.00											5	18	40	0.2	30			

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au					
201	3.08	5.31	71.03	15.93	1.83	1.02	1.60	3.38	3.04	0.07	0.47	.102	8	38	.005					.005	98.47	
202	19.25	22.75	70.57	15.37	2.17	1.47	1.05	3.41	3.66	0.08	0.40	.095	6	44	.005					.005	98.27	
203	29.20	35.00	74.24	14.98	1.03	0.71	0.57	3.76	2.82	0.07	0.42	.082	4	28	.005					.005	98.69	
204	35.00	41.40	72.25	14.91	2.56	0.92	0.11	3.70	2.99	0.09	0.45	.082	2	26	.005					.005	98.06	
205	41.40	47.54	67.57	15.64	3.70	1.45	0.59	3.89	4.28	0.09	0.45	.108	4	44	.005					.009	97.75	
206	47.54	53.85	70.80	15.26	2.74	0.98	1.06	3.76	2.92	0.06	0.45	.116	6	68	.005					.005	98.15	
207	53.85	60.17	70.55	15.09	2.54	0.78	1.68	3.35	3.22	0.08	0.41	.103	8	24	.005					.005	97.79	
208	60.17	65.92	71.43	14.49	2.27	0.66	2.02	3.10	2.92	0.08	0.44	.094	8	32	.005					.005	97.51	
209	65.92	71.50	70.91	14.72	2.97	0.76	1.48	3.44	3.39	0.11	0.40	.094	8	28	.005					.005	98.28	
210	71.50	77.06	71.51	15.55	2.16	0.67	0.97	3.65	3.05	0.06	0.45	.105	10	28	.005					.005	98.18	
211	77.06	83.20	70.55	15.04	3.36	0.75	0.86	3.64	3.05	0.08	0.46	.097	8	28	.005					.005	97.89	
212	83.20	88.80	72.75	15.36	1.77	0.58	0.29	4.22	2.88	0.06	0.43	.097	6	36	.005					.005	98.44	
213	88.80	95.20	71.92	15.27	2.20	0.73	0.04	4.24	3.26	0.06	0.45	.101	10	32	.005					.005	98.26	
214	95.20	101.31	68.39	18.65	1.92	1.04	0.34	4.75	2.71	0.06	0.55	.127	4	34	.005					.005	98.54	
215	101.31	107.40	70.63	18.13	1.63	0.92	0.43	4.56	1.21	0.02	0.49	.149	2	16	.005					.005	98.18	
216	107.40	113.00	69.05	15.71	5.60	0.87	1.27	3.75	1.29	0.06	0.42	.114	4	18	.005					.005	98.13	
217	113.00	119.40	70.25	15.86	3.69	1.02	0.97	3.94	1.67	0.05	0.42	.115	4	24	.005					.005	98.00	
218	119.40	122.85	67.18	15.08	3.57	1.80	0.32	3.90	5.82	0.11	0.44	.122	10	52	.005					.005	98.34	
219	125.54	137.23	76.28	13.11	1.59	0.96	0.01	3.68	1.81	0.03	0.13	.123	4	28	.005					.005	97.72	
220	147.50	150.45	72.34	10.63	4.20	2.28	0.01	2.89	4.97	0.13	0.71	.090	68	120	.005					.005	98.25	

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<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
0 to 3.08	CASING					
3.08 to 62.54	QFP RHYOLITE INTRUSIVE	Colour - lt. green to lt. grey Grain size - Med. Matrix extremely silic glassy rock with Qtz + feldspar porphs from 1-3mm Rock is flooded with a stockwork of Qtz veins +/- sericite		Intense silicification +/- sericite veinlets. Propylitic alteration on fracture and rarely chl. In areas feldspar porphs are black (TiO2 alteration? or Mn) 49.2m-62.54m: Sericite alteration increasing	3-5% diss py with 1-2% py as veinlets (avg.=4-7%) 6.91-7.2m: zone with 60% py Occasional bleb of pyrrhotite	Qtz veins to 20cm
62.54 to 88.23	ARGILLITE	Colour - black to dark grey Grain size - fine Finely laminated argillite with siltstone interbeds Occasional slump breccia Rare 2cm thick rhyolite tuff band From 86m-88m occasional Rhyolite Tuff fragment	bedding 75 to 85	Graphite on fracture	1% diss py From 70-73m 2-4% py	Moderately conductive
88.23 to 94.50	QFP RHYOLITE TUFF	Colour - lt. green Grain size - fine Massive f.gr. tuff with occasional lapilli tuff zone with 1-2cm round frags		Weak sericite alteration with feldspars broken down	Tr py with rare py veinlets	Contact has loading of argillite by rhyolite tuff at 94.5m (tops up hole)
94.50 to 101.24	ARGILLITE	Colour - black to dark grey Grain size - fine to med. Finely laminated argillite with siltstone interbeds Occasional slump breccia	bedding 50 to 70		1-2% diss py cubes	Some argillite weakly conductive

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
101.24 to 107.54	QFP RHYOLITE TUFF	Colour - lt. green Grain size - fine Massive f. gr. tuff with occasional round vague tuff fragment 1-2cm		Weak pervasive sericite alteration	Tr py	
107.54 to 111.40	QFP RHYOLITE CRYSTAL TUFF	Colour - lt. green Grain size - coarse Green sericitic alteration matrix with qtz phenos 1-4mm (euhedral) (80%) 1-2mm feldspar phenos (20%) mixed with siltstone beds	bedding 50 to 60	Mod. sericite alteration in matrix	Tr py	
111.40 to 115.96	ARGILLITE with SILTSTONE	Colour - black to dark gray Grain size - fine to coarse Beds of argillite and siltstone with occasional slump breccia zone	bedding 45 to 50		0.5%-1.0% diss py	Some argillite weakly conductive
115.96 to 121.00	RHYOLITE TUFF with ARGILLITE	Colour - lt. green Grain size - fine to coarse Fine gr. weak sericite altered QFP Rhyolite Tuff with occasional argillite unit 120.10-121.00m is a coarse crystal tuff with qtz phenos to 3mm		Weak to mod. sericitic alteration	Tr py	
121.00 to 127.25 EOH	ARGILLITE with SILTSTONE	Colour - lt. grey to black Grain size - fine Mixture of 50% argillite beds, 30% siltstone, 20% felsic tuffs Some argillite almost silicic enough to be chert	bedding 60	Mod. sericite alteration in rhyolite tuffs	Tr py	Argillite non conductive

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
3001	3.08	5.01			1.93											9	51	14	0.2	5			
3002	5.01	7.53*			2.52					1.65	} 4.45 gm/T over 2.52m					20	57	75	1.0	1400			
3003	6.88	7.18			0.30	RESPLIT (BAR 3A)			Au - 176 g/T Ag - 134 g/T							103	74	148	8.0	18000			
3004	7.53	9.28			1.75											9	49	20	0.2	750			
3005	9.28	11.18			1.90											7	15	14	0.2	50			
3006	11.18	13.60			2.42											6	11	10	0.2	40			
3007	13.60	15.43			1.83											8	12	42	0.1	10			
3008	15.43	17.30			1.87											7	7	7	0.2	20			
3009	17.30	19.30			2.00											10	26	64	0.2	10			
3010	19.30	20.81			1.51											8	49	19	0.3	10			
3011	20.81	22.77			1.96											10	100	13	0.2	470			
3012	22.77	25.12			2.35											9	35	8	0.2	210			
3013	25.12	27.07			1.95											11	21	9	0.2	195		242ppb/13.98m	
3014	27.07	29.07			2.00											9	53	14	0.1	155			
3015	29.07	30.76			1.69											7	12	8	0.2	185			
3016	30.76	33.27			2.51											11	30	26	0.2	215			
3017	33.27	34.79			1.52											15	45	10	0.1	280			
3018	34.79	36.77			1.98											11	61	12	0.2	45			
3019	36.77	38.77			2.00											10	18	18	0.3	85			
3020	38.77	40.83			2.06											10	21	10	0.2	5			

Bar #3

* Except 6.88-7.18

ASSAY SHEET

Sample Number	From (M)	To (M)	Estimate		Length (M)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
3021	40.83	42.77			1.94											9	20	9	0.2	30			
3022	42.77	44.42			1.65											8	45	26	0.1	5			
3023	44.42	46.37			1.95											8	16	12	0.1	10			
3024	46.37	48.50			2.13											9	18	5	0.1	40			
3025	48.50	50.58			2.08											10	29	18	0.2	20			
3026	50.58	52.58			2.00											7	34	40	0.1	5			
3027	52.58	54.80			2.22											7	26	69	0.3	75			
3028	54.80	56.80			2.00											8	30	16	0.2	30			
3029	56.80	58.80			2.00											6	24	14	0.1	45			
3030	58.80	60.31			1.51											9	90	160	0.3	5			
3031	60.31	62.52			2.21											16	64	26	0.2	10			
3032	65.00	66.00			1.00											59	207	30	0.6	5			
3033	70.31	71.31			1.00											44	165	24	0.2	20			
3034	75.03	76.03			1.00											52	185	26	0.3	5			
3035	85.01	86.01			1.00											41	114	30	0.2	5			
3036	88.04	89.04			1.00											34	41	23	0.2	5			
3037	93.00	94.00			1.00											12	33	29	0.4	5			
3038	98.99	99.99			1.00											68	143	33	0.6	10			
3039	102.89	103.89			1.00											14	23	26	0.3	5			
3040	108.96	109.96			1.00											9	11	29	0.2	5			

Bar #3

HOLE NO. _____

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LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au					
301	3.08	6.08	76.56	12.10	.03	.19	5.78	0.78	2.48	0.11	0.19	.046	12	72	.005						.015	98.29
302	6.08	9.18	71.64	10.98	.41	.26	5.16	0.66	8.25	0.20	0.20	.036	28	44	.005						.019	97.83
303	9.18	11.88	77.49	12.13	.18	.09	6.90	0.16	1.10	0.05	0.19	.010	8	28	.005						.014	98.31
304	11.88	15.25	77.70	11.64	.40	.16	6.28	0.27	1.55	0.08	0.19	.017	8	28	.005						.014	98.30
305	15.25	18.13	77.46	12.05	.10	.10	6.95	0.14	1.22	0.03	0.20	.009	8	16	.005						.013	98.27
306	18.13	20.91	79.19	10.13	.03	.24	4.52	0.84	2.96	0.11	0.18	.061	10	36	.005						.012	98.28
307	20.91	23.60	75.49	11.86	.38	.22	6.39	0.29	3.35	0.13	0.20	.017	12	46	.005						.016	98.36
308	23.60	26.67	76.35	11.62	.44	.18	6.67	0.20	2.51	0.13	0.19	.012	8	24	.005						.012	98.30
309	26.76	29.54	77.54	10.14	.75	.31	5.58	0.26	3.19	0.27	0.17	.016	8	32	.005						.013	98.24
310	29.54	32.50	79.70	10.08	.45	.18	5.45	0.31	1.85	0.07	0.17	.017	8	48	.005						.009	98.30

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LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au					
311	32.50	35.29	76.11	12.66	0.01	0.29	3.24	2.21	3.38	0.08	0.21	.113	12	84	.005						.018	98.32
312	35.29	38.17	75.57	12.36	0.37	0.29	5.90	0.61	2.96	0.07	0.17	.045	8	56	.005						.010	98.35
313	38.17	41.23	76.42	12.66	0.05	0.18	5.81	0.75	2.15	0.07	0.20	.043	12	40	.005						.012	98.34
314	41.23	44.09	75.01	12.18	1.05	0.36	6.25	0.55	2.59	0.13	0.17	.031	8	44	.005						.007	98.33
315	44.09	47.10	77.13	12.46	0.16	0.15	6.24	0.59	1.27	0.04	0.21	.032	6	40	.005						.010	98.29
316	47.10	49.92	75.43	13.86	0.04	0.19	5.79	1.17	1.52	0.04	0.22	.063	8	34	.005						.013	98.34
317	49.92	52.84	79.01	12.27	0.15	0.14	3.77	1.63	1.12	0.03	0.19	.082	6	112	.005						.008	98.39
318	52.84	55.86	77.08	13.17	0.01	0.16	4.44	1.95	1.20	0.02	0.24	.098	4	28	.005						.016	98.38
319	55.86	58.58	77.37	12.96	0.03	0.17	4.61	1.71	1.13	0.02	0.21	.084	4	36	.005						.007	98.29
320	58.58	61.37	76.09	11.92	0.03	0.24	1.97	4.61	2.98	0.03	0.18	.247	6	224	.005						.006	98.59

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LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	BA	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au					
321	61.37	62.57	72.57	15.55	0.02	0.58	3.87	2.94	2.35	0.01	0.26	.139	8	92	.005						.017	98.30
322	88.23	91.02	66.11	16.08	3.34	1.61	1.11	4.83	4.20	0.08	0.68	.165	20	40	.005						.011	98.22
323	91.02	94.50	57.93	13.39	10.71	5.65	1.07	3.75	4.72	0.20	0.50	.201	8	30	.012						.013	98.15
324	101.24	104.43	66.44	17.30	2.79	1.57	0.72	5.24	3.19	0.05	0.69	.177	16	28	.006						.015	98.18
325	104.43	107.54	64.66	17.36	3.60	1.57	1.00	5.09	4.19	0.06	0.83	.180	12	40	.017						.010	98.59
326	107.54	111.40	73.39	13.48	2.71	0.92	1.47	3.75	2.02	0.04	0.25	.123	8	14	.005						.010	98.17
327	115.95	118.41	66.17	14.45	5.45	2.37	0.54	4.10	4.27	0.13	0.59	.145	20	88	.010						.014	98.25
328	118.41	121.00	70.69	14.53	2.66	1.51	0.57	4.35	3.21	0.06	0.45	.143	12	24	.005						.012	98.18

Hole No. Bar #3

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<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
0 to 3.08	CASING					
3.08 to 68.88 EOH (abandoned)	QFP RHYOLITE FLOW	Colour - med. grey to dark grey Grain size - med. gr Very silicic massive grey matrix with feldspar phenos (70%) 1-3mm Qtz phenos (30%) 1-2mm Dark grey zones indicate greater % argillite in matrix		Propylitic alteration on fracture Some weak bleaching by qtz veinlets 46m: chl and a lt. blue oxide replace propylitic alteration on fractures	Tr py	Very fractured with fracture every 5-10cm recovery approx. 90% 19.20-19.60m: Fault with clay gouge 22.86-31.85m: Major fault zone with 56% recovery (very rubbly) Fault at 56.5m with chl gouge (Abandon) End hole in fault at 66.45-68.88m 16% recovery and loss of bit

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm/ T Ag	gm/ T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
4001	4.98	5.98			1.00											11	62	30	0.6	5			
4002	10.02	11.02			1.00											14	60	19	0.2	5			
4003	14.94	15.94			1.00											10	29	18	0.2	10			
4004	20.00	21.00			1.00											11	32	22	0.1	5			
4005	26.11	27.20			1.09											9	35	20	0.2	5			
4006	35.09	36.09			1.00											10	30	23	0.2	10			
4007	40.08	41.08			1.00											N/S	?						
4008	43.90	45.00			1.10											11	33	18	0.1	20			
4009	49.00	50.00			1.00											13	34	22	0.2	10			
4010	53.90	54.90			1.00											13	39	23	0.1	20			
4011	59.00	60.00			1.00											14	36	35	0.3	10			
4012	65.00	66.00			1.00											13	44	28	0.1	40			

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au					
401	3.05	6.00	69.79	14.07	0.31	0.51	1.96	7.15	4.01	0.06	0.33	.073	12	80	.008						.019	98.28
402	6.00	8.98	72.62	13.64	0.02	0.15	1.57	8.30	1.58	0.02	0.22	.078	8	44	.005						.018	98.22
403	8.98	11.40	72.81	13.50	0.07	0.14	1.59	8.00	1.85	0.04	0.22	.077	8	40	.005						.013	98.32
404	11.40	14.02	73.23	13.34	0.07	0.11	1.82	7.90	1.47	0.01	0.22	.072	8	36	.005						.013	98.27
405	14.02	16.60	71.67	14.08	0.09	0.10	2.55	8.44	1.11	0.01	0.23	.069	6	32	.005						.016	98.35
406	16.60	20.00	72.64	14.02	0.06	0.12	2.08	7.61	1.36	0.02	0.23	.087	6	36	.005						.015	98.23
407	20.00	23.35	74.05	13.16	0.05	0.11	2.34	7.08	1.22	0.02	0.21	.071	4	36	.005						.012	98.32
408	23.35	28.00	74.51	13.22	0.06	0.12	1.89	7.10	1.09	0.01	0.21	.077	4	24	.005						.011	98.30
409	28.00	32.40	74.38	13.23	0.05	0.10	1.86	7.42	0.99	0.01	0.21	.084	4	26	.005						.010	98.34
410	32.40	35.10	73.16	13.65	0.19	0.12	1.97	7.73	1.21	0.02	0.21	.077	8	38	.005						.015	98.36

Hole No. _____ Bar #4

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LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au						
411	35.10	37.45	69.79	14.15	0.17	0.13	2.20	7.87	1.53	0.03	0.23	.075	6	44	.005						.015	98.38	
412	37.45	39.70	72.62	13.73	0.12	0.19	1.94	8.39	2.08	0.04	0.22	.077	8	52	.005							.014	98.25
413	39.70	42.07	72.81	12.69	0.15	0.17	1.72	8.03	1.93	0.04	0.21	.075	4	44	.005							.014	98.28
414	42.07	44.75	73.23	14.32	0.20	0.19	1.99	8.58	1.80	0.04	0.23	.084	8	44	.005							.016	98.32
415	44.75	47.24	71.67	13.92	0.28	0.22	1.68	8.50	2.24	0.05	0.22	.089	8	52	.005							.016	98.25
416	47.24	50.00	72.64	14.99	1.05	0.25	1.74	8.41	1.93	0.05	0.24	.092	6	54	.005							.020	98.34
417	50.00	53.03	74.05	14.07	0.17	0.20	1.86	8.17	1.69	0.04	0.24	.087	8	42	.005							.015	98.30
418	53.03	56.04	74.51	14.29	0.24	0.22	2.00	8.25	1.80	0.03	0.22	.087	8	40	.005							.014	98.33
419	56.04	59.60	74.38	13.03	0.24	0.25	1.53	7.48	1.80	0.05	0.22	.091	6	40	.005							.013	98.35
420	59.60	62.60	73.16	12.75	0.26	0.17	1.77	7.51	1.66	0.06	0.21	.078	8	40	.005							.011	98.32

Hole No. Bar #4

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<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
0 to 9.14	CASING					
9.14 to 11.08	INTER.- MAFIC TUFF	Colour - lt. green Grain size - fine to med Fine feldspar-rich andesite? tuff with occasional graded bedding (11.40m) Occasional 0.5cm lapilli	bedding 60	Qtz +/- carb veinlets	Tr py	Gradational contact
11.08 to 29.66	ASH with CHERT	Colour - purple, green, white, grey Grain size - very fine Finely laminated ash bands Sometimes when white its Qtz or chert with sericite laminations Colours are ash 26 to 28m: some argillite mixed in matrix	bedding 70 to 75	Qtz veinlets Vein at 14.12-14.20m Vein at 29.20-29.80m (1-2% py)	Tr to 0.5% diss py	N.B. is this a "Muddy-Tuff?" Fault with clay gouge at 17.07- 17.37m
29.66 to 31.40	GRAPHITIC ARGILLITE with CHERT	Colour - black to med. grey Grain size - fine to aphanitic Soft graphitic argillite grades into chert 31m: finely laminated	bedding 60	Occasional qtz veinlet	3-5% diss py in argillite	Chert grades into tuff at 31.30m Graphite is mod. conductive
31.40 to 34.59	INTER.- MAFIC TUFF	Colour - lt. green Grain size - fine Fine feldspar-rich andesite? tuff	bedding 65	Occasional qtz veinlet Weak alteration of feldspars	Tr py	
34.59 to 36.66	CHERT with ARGILLITE	Colour - med. grey-green to black Grain size - aphanitic to fine Finely laminated chert with 10% argillite interbeds	bedding 60 to 85	Occasional qtz vein	Avg. 1-3% diss py with occasional py veinlets 36.06m: a 1.5cm band of py	at 34.80m a 5cm band of graphite is conductive

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
36.66 to 42.00	INTER.- MAFIC TUFF	Colour - med. green Grain size - fine to med. Finely laminated feldspar-rich tuff with 1-2mm chl altered mafics	bedding 85 to 90	feldspar being altered to epidote? + sericite Occasional qtz veinlet with rare vein breccia	Tr py	
42.00 to 43.77	CHERT	Colour - green, purple Grain size - aphanitic Massive green chert with a chert breccia from 43.30-43.77m of angular fragments 0.5-2cm	bedding 60	Occasional qtz vein	rare py on fractures	Chert breccia disrupts lapilli tuff suggesting tops up hole!
43.77 to 44.80	MAFIC LAPILLI TUFF	Colour - pale green Grain size - fine to med. Rock has a muddy green matrix with collapsed pumice? shards (an ignimbrite) Lapilli 4mm-2cm	bedding 70	Occasional qtz vein		
44.80 to 46.43	AMYGDULAR BASALT FLOW	Colour - dark brown Grain size - med. Fine gr. brown matrix with 1mm phenos and rosettes of (olivine?) Amygdules of calcite to 6mm in diameter		Occasional qtz vein with weakly bleached contact		Moderately magnetic
46.43 to 51.18	MAFIC LAPILLI TUFF	Colour - pale green-brown Grain size - fine to med. Muddy green matrix with polyolithic fragments mafics, sediments and collapsed pumice? Frag from 2mm to 2cm	bedding 60 to 70	Occasional qtz vein		
51.18 to 53.24	AMYGDULAR BASALT FLOW	Colour - dark brown Grain size - med. Fine gr. brown matrix with 1mm olivine? phenos Occasional 3-4mm calcite amygdules		Occasional qtz veinlet		From 51.18 to 52.80m rock is extremely fractured Moderately magnetic

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
53.24 to 64.48	MAFIC LAPILLI TUFF	Colour - pale brown, green Grain size - med. to fine Muddy brown matrix with poly. frags of mafics and collapsed pumice from 0.5-3cm 55.64-56.31m: Fine vesicular andesite flow (green)	bedding 75	Occasional qtz +/- chl veinlet		
64.48 to 65.99	CHERT	Colour - lt. green Grain size - aphanitic Massive chert with small breccia zones (frags approx. 1cm, angular)	bedding 65	3cm qtz veins with 1-2% py		
65.99 to 69.03	INTER.- MAFIC TUFF	Colour - lt. green Grain size - fine Feldspar-rich andesite? tuff which is finely laminated	bedding 80	Weak alteration of feldspars, clay or sericite?	Tr py	
69.03 to 70.51	CHERT with ARGILLITE	Colour - grey to black Grain size - aphanitic to fine 5-10cm bands of chert and argillite Argillite mod. silicic.			1-2% diss py	Quite badly fractured
70.51 to 74.56	INTER.- MAFIC TUFF	Colour - lt. green Grain size - fine Feldspar-rich Andesite? Tuff Finely laminated with some graded bedding	bedding 70	Qtz veins x-cut weak alteration of feldspars		
74.56 to 83.05	CHERT + ASH	Colour - lt. grey to lt. green Grain size - aphanitic to fine Finely laminated cherts with green ash and occasional tuff bed	bedding 65	Qtz veins in fault zones Py on fractures	75.00-76.00m: veinlets of py = 5% 78.33m: 5cm zone with 20% py Generally tr to 0.5% py	Again equivalent of "Muddy Tuff?" Very fractured with faults with clay alteration at 78.33m and 84.00m

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
88.05 to 88.98	MAFIC LAPILLI TUFF	Colour - lt. green to lt. brown Grain size - med. Muddy matrix with poly. frags. 0.5-4cm Some flattened "pumice" fragments	bedding 70	Occasional qtz vein		
88.98 to 91.50	GRAPHITIC ARGILLITE	Colour - black Grain size - fine Massive soft graphitic argillite	bedding 70	Occasional qtz vein	1-2% diss py	Good conductor
91.50 to 93.22	INTER. TUFF	Colour - lt. green Grain size fine Feldspar-rich Andesite Tuff finely laminated	bedding 70	Chl. on fracture	Tr py	
93.22 to 99.94	CHERT	Colour - white, lt. grey Grain size - aphanitic Massive white-grey chert with occasional Andesite Tuff band (20%)	bedding 70	Occasional qtz vein	0.5% diss py	Fault with gouge at 99.17m (+qtz vein)
99.94 to 101.32	INTER. TUFF	Colour - lt. green Grain size - fine Feldspar-rich finely laminated tuff	bedding 65	Chl alteration on fractures		
101.32 to 116.10	CHERT	Colour - lt. grey, lt. green Grain size - aphanitic Finely laminated chert with ash bands 105.50-106.00m: chert becomes argillite 109.66-111.14m: thin Andesite lapilli tuff Some ash bands very wavy due to slumping	bedding 105m-55 bedding 112m-90	Chl on fractures Occasional qtz vein	Tr py	Zones like "Muddy Tuff"

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
116.10 to 118.20	ANDESITE TUFF	Colour - med. green Grain size - fine Feldspar-rich Andesite Tuff finely laminated	bedding 70	Weak chl alteration Occasional qtz veinlet		Gradational contacts with chert
118.20 to 127.00	CHERT	Colour - dark green Grain size - aphanitic Massive green chert with occasional Andesite Tuff or Ash Band	bedding 70	Clay-chl on fractures Occasional qtz vein	0.5% py cubes Tuffaceous bands 1% diss py	
127.00 to 142.11	DIORITE DYKE	Colour - lt. green Grain size - coarse Coarse gr. Mafic Diorite with med. gr contacts with qtz veins		Mafics chl altered +/- weak saussarization 2-3% qtz veins	Tr py	Contact has a med. gr. phase with qtz veins Non magnetic
142.11 to 151.68	ANDESITE TUFF	Colour - lt. green Grain size - fine Very fine gr. feldspar-rich tuffaceous unit with occasional chert bed	bedding 65	Mafics weak chl altered Occasional qtz vein	0.55 py	
151.68 to 154.23 EOH	DIORITE DYKE	Colour - lt. green Grain size - coarse Coarse gr. mafic-rich Diorite Mafics chl. altered		Fractures chl alteration 5% qtz veins	0.5% py	Contact hidden by a 70cm thick qtz vein

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
5001	9.80	11.00			1.20											50	114	54	1.6	5			
5002	20.94	21.94			1.00											28	46	28	0.5	5			
5003	29.00	30.00			1.00											25	54	15	0.4	10			
5004	29.66	30.76			1.10											156	215	36	0.8	5			
5005	32.00	33.00			1.00											46	119	38	1.8	5			
5006	36.01	36.41			0.40											138	90	65	1.6	3			
5007	40.00	41.20			1.20											37	148	36	1.7	5			
5008	44.00	44.65			0.65											65	110	33	1.4	5			
5009	47.70	48.70			1.00											54	95	38	2.0	10			
5010	52.00	53.00			1.00											34	78	27	1.2	5			
5011	58.70	59.80			1.10											62	90	40	1.8	5			
5012	66.35	67.35			1.00											35	120	34	1.2	5			
5013	71.06	72.06			1.00											31	132	39	2.0	5			
5014	74.98	75.48			0.50											140	94	38	0.9	10			
5015	78.33	79.23			0.90											87	72	45	1.0	5			
5016	86.10	87.10			1.00											70	110	34	1.8	5			
5017	89.00	90.00			1.00											130	240	24	1.0	15			
5018	95.05	96.05			1.00											33	50	30	1.0	5			
5019	100.21	101.31			1.10											48	114	37	1.6	5			
5020	102.58	103.28			0.70											88	33	16	0.2	10			

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au					
501	9.14	11.08	48.97	10.76	9.99	9.27	0.63	1.59	11.81	1.45	2.82	.015	38	112	.008						.020	97.32
502	31.40	34.59	51.01	11.22	5.25	8.38	1.53	0.16	14.16	0.26	5.11	.011	76	164	.007						.028	97.12
503	36.66	42.00	46.74	14.82	5.71	6.71	4.86	0.55	12.45	0.36	4.41	.040	34	168	.005						.055	96.72
504	44.80	46.43	48.64	15.91	11.01	4.98	3.15	3.37	8.21	0.21	1.38	.170	36	96	.005						.021	97.05
505	46.43	51.18	44.24	10.94	10.51	10.93	1.14	1.79	12.71	0.30	4.03	.062	56	132	.005						.041	96.71
506	51.18	53.24	49.95	15.57	9.16	5.69	3.03	3.29	8.56	0.21	1.31	.170	40	92	.005						.022	96.96
507	53.24	64.48	45.38	11.93	7.78	10.06	2.41	2.25	12.56	0.27	4.15	.083	84	120	.021						.040	96.92
508	65.99	69.03	42.00	12.88	8.46	9.19	1.76	0.44	15.52	0.43	6.17	.022	40	142	.005						.042	96.91
509	70.51	74.56	41.65	11.49	9.86	10.16	0.14	0.23	16.85	0.35	5.84	.012	56	160	.021						.035	96.63
510	83.05	88.98	43.58	12.78	8.61	11.78	0.99	1.16	13.38	0.49	4.00	.038	60	128	.005						.039	96.83

Hole No. _____ Bar #5 _____

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CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

x METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER BAR #6	GRID Dixon Lake	FIELD COORDS	LAT. L112N	DEP. 3+50E	ELEV.	COLLAR BRNG. 225°	COLLAR DIP -60°	HOLE SIZE NQ	FINAL DEPTH 154.23m
PROJECT PN 215	CLAIM # Bar 11	SURVEY COORDS				DATE STARTED Nov 2/86 DATE COMPLETED Nov 5/86	CONTRACTOR J. T. Thomas CORE STORAGE Barriere CASING		

PURPOSE Test MaxMin/Ag in soils anomaly	RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY
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ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH (m)	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
0	-60°								
51.5	-60°								
122.5	-56°								
154.2	-58°								

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
0 to 3.66	CASING					
3.66 to 19.23	MAFIC LAPILLI TUFF	Colour - lt. green to lt. brown Grain size - fine Mafic Lapilli Tuff Collapsed frags (pumice?) (mafic (hb) phenos to 2mm) angular to subrounded 0.3 to 5cm 3.66-6.55m: fine gr. with frags 2-6mm 6.55-14.04m: coarse grained Lapilli Tuff 14.04-15.84: Fine gr. Lapilli Tuff 15.84-19.23: Coarse gr.	bedding 6m-70 18.5m-80	Occasional qtz veinlets	Tr py	
19.23 to 41.28	VERY FINE GR. SILTSTONE	Colour - lt. green Grain size - very fine Very fine gr. well laminated muddy siltstone 19.56-20.00m: Vesicular Basalt Flow with occasional lapilli 34.95-35.96: Vesicular Basalt Flow	bedding 19.33m-30 31.5m-5 to 10 36.50m-70	Occasional qtz vein Occasional chl on fracture	0.5% finely diss py	Compression of sediments at 19.56m indicate tops up hole 23.16m: Fault zone 40cm with clay gouge + breccia

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
41.28 to 71.83	MAFIC LAPILLI TUFF	Colour - lt. green, lt. brown	bedding	Occasional qtz vein with weak chl alteration on fractures	Tr py	43.28m: small fault - 5cm with clay gouge
		Grain size - fine to med.	42.30m-80			
		Mafic Lapilli Tuff with muddy matrix with flattened frags 0.5-6cm	56m-55	Mafics sometimes chl altered		
		41.28-43.28: f.gr Lapilli Tuff frags 1-4mm	67m-80			
		43.28-61.79: Coarse gr. with lapilli to 5cm, polyolithic with mafic (hb1) + pumice fragments				
61.79-63.80: f.gr brown matrix Lapilli Tuff with chl altered mafics			68.48-71.15: 50% qtz veins with 1-2% py as veinlets in a fracture zone			
71.83 to 75.09	CHERT with ARGILLITE	Colour - lt. grey to black	bedding	Argillite very graphitic	2% diss py in chert	Graphitic Argillite moderately to strongly conductive
		Grain size - fine to aphanitic	70			
		Finely laminated chert with sericite laminations and occasional 10cm chert breccia				
		Argillite 71.93-72.23m				
		Argillite 73.70-73.97m				
75.09 to 77.39	INTER.- MAFIC TUFF	Colour - lt. green	bedding	Weak chlorite + sericite alteration	1-2% diss py	
		Grain size - med.	80			
		Finely laminated feldspar-rich tuff				
77.39 to 96.09	CHERT	Colour - grey, green, purple	bedding	Occasional qtz vein	Tr py	
		Grain size - aphanitic	80m-70			
		Finely laminated chert with bands of sericite-rich ash?	92m-80			

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
96.09 to 106.54	MAFIC TUFF	Colour - lt. green; chert-lt. grey Grain size - fine Fine gr. feldspar-rich mafic tuff with chert beds at 97.18-97.78m 101.07-101.60m 104.10-104.50m	bedding 60 to 65	approx. 5% qtz veins Weak chl alteration	Tr py 104.65m: 10cm zone with 10% py blebs	slump at 97.78m indicates tops up hole! Occasional calcite vesicles? in tuff
106.54 to 124.93	CHERT	Colour - lt. to med. green Grain size - aphanitic Finely laminated gray and green cherts with occasional sericite band 120.63-121.63m: a med. grain Diorite Dyke	bedding 75 to 80 120m-60 to 70	Qtz veins 2-3%	Tr py	Qtz vein activity increasing
124.93 to 150.58	DIORITE DYKE	Colour - lt. grey, lt. green Grain size - med. to coarse Fine gr. border phase 124.93-126.20m: Coarse gr. feldspar rich Diorite	weak fol'n at 60	Qtz veins 3-4% (vuggy) Feldspar with weak chl alteration Chl an fractures	Tr to 0.5% py	Fault with gouge for 5cm at 138.38m Non magnetic
150.58 to 154.23 EOH	CHERT	Colour - grey, dark green Grain size - aphanitic Chert with laminations Occasional fine gr. wacke and tuff (mafic, feldspar rich)	bedding 85		150.58-150.91m: 1-3% py Otherwise Tr py	

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
6001	5.64	6.74			1.10											64	91	30	1.5	10			
6002	9.95	10.00			0.05											58	96	34	1.6	5			
6003	14.92	15.92			1.00											55	93	33	1.6	5			
6004	20.00	21.00			1.00											34	81	35	1.1	10			
6005	25.00	26.00			1.00											35	137	28	1.1	5			
6006	30.20	31.20			1.00											57	108	27	1.0	5			
6007	38.97	39.97			1.00											54	115	24	1.0	5			
6008	42.00	43.00			1.00											45	96	40	1.8	5			
6009	45.03	46.03			1.00											64	98	34	1.5	15			
6010	55.00	56.00			1.00											50	85	34	1.6	10			
6011	63.36	64.36			1.00											62	98	38	1.8	5			
6012	70.00	71.00			1.00											32	108	34	0.8	10			
6013	74.47	75.27			0.80											12	55	50	0.2	5			
6014	75.59	76.59			1.00											47	125	36	1.0	5			
6015	80.52	81.52			1.00											16	36	14	0.3	5			
6016	90.06	91.06			1.00											35	82	32	0.4	5			
6017	101.50	102.50			1.00											39	102	28	0.9	10			
6018	104.65	104.95			0.30											50	79	42	0.6	10			
6019	110.60	111.60			1.00											29	77	22	0.4	5			
6020	122.08	123.08			1.00											36	80	40	0.4	5			

Bar #6

HOLE NO. _____

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au				
			Cu	Zn																				
6021	138.00	139.00			1.00											40	95	30	1.2	10				
6022	142.04	142.79			0.75											49	85	36	1.6	5				
6023	145.00	146.00			1.00											46	76	29	1.4	5				
6024	150.15	150.50			0.35											76	145	36	1.4	10				

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
0 to 6.10	CASING					
6.10 to 9.92	MAFIC TUFF	Colour - med. green Grain size - fine Well laminated feldspar rich mafic tuff Occasional 1-2cm lapilli	bedding 70	Qtz-carb veins-veinlets 0.2-10cm Chl +/- carb alteration on fractures	7.82-8.22m: Avg 10% veinlets + diss py Generally Tr to 0.5% py	Contact is gradational
9.92 to 12.86	ARGILLITE with TUFF?	Colour - black to lt. brown Grain size - very fine Well banded argillite with sericite laminations Qtz flooded	bedding 70 to 75	50+% qtz-carb Chl selvages on qtz veins	Tr py	Non conductive
12.86 to 16.43	MAFIC TUFF	Colour - med. green Grain size - fine Finely laminated feldspar rich tuff	bedding 70	Occasional qtz carb Weak pervasive chl alteration	Tr py	Gradational Contact
16.43 to 19.39	ARGILLITE with TUFF	Colour - black to lt. brown Grain size - very fine Fine argillite with laminations of sericite with small scale isoclinal folds	bedding 70	40% qtz-carb veins	Tr py	Some qtz veins folded while others x-cut so at least two stages of qtz veins
19.39 to 95.35	MAFIC TUFF	Colour - lt. green Grain size - fine Finely laminated feldspar rich tuff with calcite vesicles occasionally	bedding 20m-70 30m-70 40m-85 50m-85 70m-85 80m-75	Lt. brown areas interstitial carb alteration Chl alteration weak pervasive; stronger around qtz veins 71.34-74.83m: Carb alteration increasing 78.03-83.50m: 20-30% qtz carb veinlets with strong chl selvages	Tr py 67.00-72.20m: 1% diss py 72.20-72.60m: 3% py veinlets 72.60-76.91m: 1% py diss 76.91m: Tr py	74.43m: Fault with clay gouge for 5cm 90.07-90.18m: Fault zone with chl gouge

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
95.35 to 97.17	MAFIC TUFF-ASH	Colour - lt. brown Grain size - very fine Wispy "Muddy Tuff?" Sericite alteration and flooded with qtz-carb veins	bedding 80	50% qtz-carb veinlets	Hematite 0.5% in qtz-carb veins Tr py diss.	
97.17 to 98.75	MAFIC TUFF	Colour - med. green Grain size - fine Feldspar rich chl altered tuff, finely laminated	bedding 70	40% qtz-carb Chl altered matrix		
98.75 to 102.66	MAFIC TUFF-ASH	Colour - lt. brown Grain size - very fine "Wispy" sericite laminations with bands of Mafic Tuff	bedding 70	40% Qtz-carb veinlets	1% hematite in the qtz-carb veinlets	Probably same unit as mafic tuff (above) but finer grained and stronger alteration
102.66 to 121.00	MAFIC TUFF	Colour - med. green Grain size - fine Feldspar rich, well laminated tuff with mafics chl altered	bedding 110m-70	Mafics chl altered 30-40% Qtz-carb veinlets with some interstitial carb.	Tr py Tr hematite in qtz-carb veinlets	Qtz-carb veinlets show isoclinal folding 115.61m: 10cm fault with chl. gouge
121.00 to 134.52	MAFIC LAPILLI TUFF	Colour - lt. brown, lt. green Grain size - fine Fragments very wispy 4mm to 4cm are either chl or sericite altered with lots of qtz-carb in the matrix Fragments have flattened remnant mafics (hb1?)	bedding 125m-60	Frag altered to chl or sericite with a qtz-carb rich matrix 40%	Tr py diss	

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
134.52 to 162.13	MAFIC TUFF	Colour - med. green Grain size - fine Feldspar rich finely laminated tuff Mafics chl altered 145.19-149.35m: become finer grained with less chl + more sericite Zones are rich with calcite vesicles	bedding 135m-70	20-30% qtz-carb Mafics chl. altered Some weak bleaching around veinlets Qtz-carb veins decrease to 5-10% at 162m	135.00-135.50m: 5% diss py Generally just a Tr py 148.87-149.25m: 3% diss py	136.57m: a 10cm fault with chl gouge
162.13 to 182.57	ARGILLITE BRECCIA	Colour - dark grey to black Grain size - very fine Argillite with flattened round frags from 5mm to 10cm of argillite, siltstone + occasional ash Green ash beds at 168.58 - 168.63m 171.64 - 172.51m	bedding 163m-70 172m-75	5% qtz-carb veinlets	10-15% coarse py cubes + occasional bed Occas. as a frag.	Some graphitic argillite moderately conductive 178.21-180.19m: strong fault zone with graphitic gouge approx. 50% recovery
182.57 to 185.51	MAFIC TUFF	Colour - med. green Grain size - fine Fine gr. well laminated (not feldspar rich)	bedding 85	Mafics altered to chl 5% qtz-carb alteration	Tr py	
185.51 to 197.07	ARGILLITE BRECCIA	Colour - dark grey to black Grain size - very fine Round flattened fragments of argillite and siltstone from 5mm-10cm	bedding 80	10% qtz-carb zones	5% blebs + coarse cubes of py	Some argillite mod. conductive 187.66-188.31 fault zone with graphitic gouge
197.07 to 199.03 EOH	MAFIC TUFF	Colour - med. green Grain size - fine Fine gr., well laminated, feldspar rich	bedding 80	Mafics chl altered Strong interstitial carb.	Tr py	

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
7001	7.82	8.22			0.40											188	77	35	1.0	10			
7002	9.90	10.56			0.66											23	50	26	0.8	5			
7003	13.93	14.93			1.00											37	100	24	0.8	15			
7004	16.93	18.03			1.10											54	92	28	1.0	5			
7005	20.00	21.00			1.00											36	100	27	0.8	5			
7006	28.12	29.12			1.00											34	112	28	1.0	5			
7007	29.45	30.45			1.00											18	78	24	0.8	10			
7008	41.00	42.00			1.00											40	106	26	0.9	5			
7009	49.60	50.15			0.55											35	107	26	1.0	20			
7010	60.00	61.05			1.05											41	100	25	1.0	5			
7011	68.84	69.44			0.60											30	102	27	0.8	10			
7012	72.14	72.74			0.60											19	93	29	0.9	5			
7013	75.49	76.04			0.55											24	129	38	1.4	5			
7014	88.97	89.97			1.00											24	128	34	1.3	10			
7015	96.15	97.15			1.00											20	113	33	1.2	5			
7016	100.00	101.00			1.00											28	83	28	0.8	5			
7017	108.90	109.90			1.00											40	116	35	1.0	5			
7018	121.00	122.00			1.00											41	95	26	0.8	10			
7019	130.00	131.00			1.00											57	106	27	0.6	5			
7020	134.90	135.40			0.50											44	102	28	0.6	5			

Bar #7

HOLE NO. _____

PAGE 5

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au				
			Cu	Zn																				
7021	139.00	140.00			1.00											46	116	32	1.2	15				
7022	148.89	149.22			0.33											72	123	29	1.2	10				
7023	154.55	155.55			1.00											38	102	32	1.2	10				
7024	163.00	164.00			1.00											70	75	30	0.4	5				
7025	167.00	168.00			1.00											51	68	50	0.5	5				
7026	175.35	176.15			0.80											47	45	42	0.4	5				
7027	178.31	179.16			0.85											82	51	35	0.4	5				
7028	184.01	185.01			1.00											64	104	34	1.4	5				
7029	190.20	191.20			1.00											45	60	33	0.5	10				
7030	194.73	195.73			1.00											58	75	32	0.4	5				

HOLE NO. Bar #7

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	Zr	Total	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au						
701	6.10	9.92	61.59	10.65	5.37	3.03	2.42	0.73	11.43	0.17	2.34	.047	40	116	.005						.025	97.81	
702	12.86	16.43											37	108	.28	0.8	10						
703	19.39	50.00	58.23	11.73	7.86	4.81	2.96	0.72	8.87	0.17	2.64	.029	52	128	.005						.023	98.04	
704	50.00	70.00	60.61	12.43	4.56	4.35	2.89	1.28	8.64	0.15	2.86	.053	52	120	.005						.030	97.85	
705	70.00	95.35	55.08	12.01	11.00	4.91	1.64	1.43	9.19	0.21	2.57	.055	36	132	.005						.045	98.13	
706	98.75	102.66	52.48	11.07	14.17	2.58	1.48	2.51	9.41	0.14	3.79	.045	48	116	.005						.037	97.72	
707	102.66	121.00	52.49	11.52	12.22	4.43	1.09	1.57	10.39	0.19	3.69	.032	44	126	.005						.035	97.65	
708	121.00	134.52	54.68	11.18	9.52	2.77	0.81	2.96	11.59	0.12	3.70	.054	58	118	.005						.033	97.42	
709	134.52	162.13	58.65	11.49	7.23	4.77	1.40	1.45	9.88	0.15	2.77	.041	52	132	.005						.026	97.85	
710	182.57	185.51	59.41	11.06	3.73	6.45	0.81	0.17	11.93	0.19	3.29	.005	92	140	.005						.021	97.08	

Hole No. _____ Bar #7 _____ Entered by _____ Logged by _____ Page No. _____ 7 _____

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

x METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER BAR #1	GRID SC	FIELD COORDS	LAT. L118N	DEP. 101+50E	ELEV.	COLLAR BRNG. 270°	COLLAR DIP -50°	HOLE SIZE NO	FINAL DEPTH 151.7m
PROJECT PN 215	CLAIM # SC2	SURVEY COORDS.		101+68E		DATE STARTED: DATE COMPLETED:	CONTRACTOR: J. T. Thomas CORE STORAGE: Barriere CASING:		

PURPOSE <i>* Change</i>	ROD LOG <input type="checkbox"/>	PULSE EM SURVEY <input type="checkbox"/>
	COLLAR SURVEY <input type="checkbox"/>	MULTISHOT SURVEY <input type="checkbox"/>

ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ()	CORRECTED ANGLE	DEPTH (m)	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
0	-50°	0							
140'	-52°	42.67							
316'	-53°	96.32							
473'	-52°	144.17							

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS					Rock Type	Alt	Min	ZR	TOTAL
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au					
BAR 101	89.60	92.80	66.63	17.27	2.95	1.41	0.20	4.30	3.88	0.07	0.50	.222	8	36	.005						.005	97.45
102	92.80	97.50	69.75	15.29	3.22	1.31	0.44	3.75	2.84	0.07	0.46	.202	12	54	.005						.005	97.33
103	112.90	115.90	64.33	20.14	1.88	1.37	1.54	4.66	2.79	0.04	0.30	.447	4	34	.005						.005	97.51
104	115.90	119.00	67.10	18.43	2.06	1.52	0.95	4.22	3.02	0.04	0.27	.403	4	42	.005						.005	98.01
105	119.00	121.85	72.66	14.96	1.42	0.78	3.74	1.95	1.73	0.04	0.22	.219	4	34	.005						.005	97.72
106	121.85	124.30	66.69	18.00	2.86	1.30	2.25	3.60	3.03	0.04	0.26	.459	6	44	.005						.005	98.50
107	124.30	127.35	70.34	14.85	3.43	0.89	3.11	2.45	2.05	0.06	0.21	.316	4	28	.005						.005	97.71
108	127.35	130.20	71.95	15.21	1.18	0.64	4.13	1.96	1.80	0.03	0.22	.267	4	32	.005						.005	97.38
109	130.20	133.46	71.11	16.45	1.35	0.88	2.92	2.97	2.25	0.04	0.24	.373	4	28	.005						.005	98.58
110	133.46	137.22	73.91	14.95	0.90	0.69	3.04	2.36	1.81	0.02	0.22	.236	4	30	.005						.005	98.16
111	137.22	140.80	74.83	12.70	1.89	1.00	2.05	2.62	2.49	0.05	0.22	.190	8	46	.005						.005	98.05

Hole No. BAR #1

Entered by _____

Logged by _____

Page No. 6

<u>From</u> <u>To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to</u> <u>Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
0-3.8	casing					
3.8-34.46	ARGILLITE	Colour - black Grain size - fine F.gr, massive black argillite with occasional 20-30cm bed of grey wacke and occasional fragment	bedding 45	Propylitic alteration on fractures Occasional qtz veinlet	1-2% diss. py	Casing to 25.53m with only 35% recovery Moderately conductive
34.46 to 89.58	SILTSTONE with ARGILLITE	Colour - grey with black Grain size - fine Interbedded siltstone with 30% argillite interbeds. Occasional slump breccia zone From 75m down there are occasional frags of felsic tuffs	bedding 40m-40 to 45 70m-60 86m-70	Occasional qtz veinlet Occasional chlorite on fractures	2-3% py blebs	Good recovery Soft sediment Slump structure at 43m indicates tops up hole Some zones weakly conductive (argillite) Faults at 62.16, 63.39, 65.95 with fault clay gouge for 5-10cm
89.58 to 98.58	RHYOLITE TUFF	Colour - lt. grey to lt. brown Grain size - fine F.gr. tuff; finely laminated with qtz + feldspar phenos approx. 1mm Occasional argillite interbeds and some bedding within tuffaceous unit	bedding 60-70	Sericite alteration pervasive with occasional clay zone	Tr. py	Foliation parallel to bedding 90.46m: fault with clay gouge
98.58 to 112.80	GREYWACKE with ARGILLITE	Colour - grey to black Grain size - fine to med. Interbedded argillite and greywackes as well as occasional f.gr gravel with clasts 4-6mm of chert	bedding 75	Occasional qtz-carb alteration	py blebs = 1% py	Argillite can be very graphitic on fractures and is conductive Slumping indicates tops up hole at 98m.

<u>From To</u>	<u>Rock Type</u>	<u>Texture and Structure</u>	<u>Angle to Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
112.80 to 140.09	RHYOLITE CRYSTAL TUFF	Colour - lt. grey/green Grain size - coarse Well foliated crystal tuff with sericitc altered matrix and Qtz phenls 1-6mm >50% mass and 1mm feldspar phenos (euhedral) 118 - 120.0m: Zone of lapilli tuff with angular, 2-3cm fragments	foliation 50	Intense sericite alteration of matrix Occasional grey qtz veinlet Some Mn? on fracture	tr - 1% py	139-140.09: Frags of argillie mixed in with the crystal tuff
140.09 to 151.70 EOH	GREYWACKE with ARGILLITE	Colour - Lt. grey to black Grain size - fine to med. Interbedded greywake and argillite	bedding 60	Occasional qtz veinlet	Py blebs - 1% py	Some of the graphitic argillite zones are weakly conductive

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
BAR 1001	12.00	13.00			1.00											38	140	19	0.4	10			
1002	30.95	32.05			1.10											60	56	68	0.6	5			
1003	35.06	36.06			1.00											28	115	26	0.4	5			
1004	45.00	46.00			1.00											34	99	22	0.4	10			
1005	50.06	51.06			1.00											42	104	24	0.4	5			
1006	64.94	65.94			1.00											33	124	17	0.5	5			
1007	70.04	71.04			1.00											67	228	32	0.8	5			
1008	80.00	81.00			1.00											48	125	24	0.6	10			
1009	88.60	89.65			1.05											46	124	22	0.5	5			
1010	90.00	91.10			1.10											8	48	16	0.4	5			
1011	94.08	95.08			1.00											8	32	40	0.3	590			
1012	99.04	100.04			1.00											46	118	24	0.6	55			
1013	105.00	106.00			1.00											42	152	18	0.6	10			
1014	107.80	109.00			1.20											49	162	24	0.5	25			
1015	113.00	114.00			1.00											5	30	32	0.3	5			
1016	120.00	121.00			1.00											4	24	22	0.2	10			
1017	124.10	125.10			1.00											5	45	32	0.2	35			
1018	129.09	130.09			1.00											3	29	36	0.2	5			
1019	134.86	135.86			1.00											3	34	29	0.3	10			
1020	139.00	140.20			1.20											8	32	24	0.3	20			

BAR #1

HOLE No. _____

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