

Rea 82m/4w

822906

**CORPORATION FALCONBRIDGE COPPER**

**DRILL HOLE RECORD**

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-89	GRID	FIELD COORDS	LAT. 98+20NW	DEP. 6+00NE	ELEV	COLLAR BRNG 225°	COLLAR DIP 90°	HOLE SIZE NQ	FINAL DEPTH 89.9m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+35.5NW	6+05.2NE	1543.7m	DATE STARTED April 28/87 DATE COMPLETED April 29/87	CONTRACTOR G&D CORE STORAGE	CASING No casing left	

PURPOSE  
To test down dip massive sulphides near RG-84.

ROD 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
86.9m	87°			89.0m	123°	82°			

HOLE NO RG-89  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 15.24	ALTERED MAFIC PYRO-CLASTIC FLOW	Colour - lt. green to yellow Grain size - fine Weakly foliated..... Lapilli size flattened parallel to bedding ..... Fragments with vague remnant mafic phenos. ( chl. alt.)	65 55	- strong qtz-sericite alteration - pervasive alt. with lapilli better preserved - approx. 2% qtz veinlets - weak weathering on fract.	3-5% dissem. py with occasional pyrite veinlet Occas. lapilli with up to 10+% dissem. py	
15.24 to 47.45	HIGHLY ALT'D MAFIC TUFF with MINOR CHERT	Colour - Mafics: lt yellow. Chert: lt. grey Grain size - fine to aphanitic - Mod. to strongly foliated @ ..... - No remnant textures - some tight folding with Qtz rods - occas. 5-10cm chert bed	45	- intense sericite alteration and quartz flooding - occas. chl. pheno? - 50+% Qtz	5-8% dissem. py restricted to sericite and chl. bands -44.08-44.68 Qtz vein tr tet. -42.4-42.75m Qtz vein with 15% sulphides 4-5% cpy, 5% tet., 2-3% galena, 3-4% sphalerite.	No clear features to distinguish 42.75-44.2m: 40% recovery
47.45 to 51.09	QUARTZ VEIN with SULPHIDES	Colour - White. Grain size - aphanitic Fault gouge with clay + qtz vein (44.45-44.74m) on contact. White late stage QV with micaceous pods and partings and sulphide patches	60		47.75-48.15 Qtz vein with 1-2% dissem py and 0.5% tet. 48.15-51.09 Qtz vein with 30-35% sulph.: 20% tet, 5% sphal, 5% py, 2% cpy.	

<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>
51.09 to 74.6	MASSIVE SULPHIDES and SULPHIDE RICH MUDDY TUFF	Colour - grey Grain size - very fine 51.09-52.12 is mainly massive sulphides with about 10-15% quartz-sericite gangue. This grades to sulphide rich muddy tuff with a minor cherty (quartz?) component. Primary sulphide is essentially pyrite with sphalerite-tet. usually associated with silica flooding. Rarely cpy and gn can also be seen. ....  Rock is generally quite competent but strongly foliated with local gouge zones and micaceous slips. These increase beyond approx. 65m. ..... From approx. 70m on there is a distinctly cherty component.	55     50	Strong micaceous alteration throughout	51.09-52.12 85% sulphides est. 25% tet, 25% sp, 20% py, 10% gn, 5% cp  52.12-65m (approx) Averages 30-35% sulphides though local zones are almost massive pyrite.  Overall: 25% py, 5% tet, 5% sp, minor cp, gn (short sections of +/- 1m may be locally richer in sp-tet)  65-74.6 5-10% py with local kicks in sp-tet averaging 1-2% sp, 1-2% tet overall.	
74.6 to 75.0	FAULT ZONE with QUARTZ	Colour - grey to white Grain size - aphanitic Broken, gougey zone with white bull quartz			minor gn-sp(-tet) in vein.	
75.0 to 80.77	MAFIC TUFF, PYRO.	Colour - green-grey Grain size - fine Distinct Mafic with vague frags locally. Numerous qtz veins. Non calcareous (unlike FW Mafic). Quite homogeneous.  Contact knife sharp @ 30 degrees		Weak sericite-chl.	1-2% disseminated py	

<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>
80.77 to 83.2	CHERT, CHERT BX and CHERTY ARGILLITE	Colour - grey to black Grain size - aphanitic Typical grey to black "Rea Bx" type chert. Tectonically brecciated, locally folded. Strong shearing with micaceous, gougey zones.	23	Micaceous shears	5-10% fine py, in bands or disseminated.	
83.2 to 83.3	FAULT GOUGE	Colour - black Black, graphitic fault gouge.				
83.3 to 89.92 EOH	MUDDY TUFF	Colour - grey Grain size - fine Typical weakly pyritic muddy tuff. Sheared and silicified close to fault otherwise quite homogeneous debris flow. Abundant white spots of ? throughout.		Weak	10% py disseminated	

Hole No. RG 89

Sample#	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5701	42.4	42.75	0.35	0.618	6.28	3.29	123	0.49							3.59	0.014
BCD5702	41.97	42.4	0.43	0.003	0.03	0.02	1.6	0.01							0.05	0.001
BCD5703	42.75	47.45	4.7	0.007	0.02	0.01	2.1	0.03							0.06	0.001
BCD5704	47.45	48.15	0.7	0.026	0.01	0.01	29.4	0.34							0.86	0.01
BCD5705	48.15	49.9	1.75	3.23	1.59	0.02	4250	5.66	2.41	0.36				2.95	123.96	0.165
BCD5706	49.9	51.09	1.19	1.47	0.56	0.09	1890	3.24	0.9	0.04				2.77	55.13	0.095
BCD5707	51.09	52.19	1.1	3.31	15.2	8.4	4080	5.3	2.17	0.35				3.7	119	0.155
BCD5708	52.19	53.8	1.61	0.153	1.62	0.65	148	0.56	0.08	0.01				2.95	4.32	0.016
BCD5709	53.8	55.3	1.5	0.246	1.13	0.32	261	0.62	0.13	0.02				3.18	7.61	0.018
BCD5710	55.3	56.8	1.5	0.151	4.12	2.1	775	1.85	0.6	0.1				3.1	22.6	0.054
BCD5711	56.8	58.3	1.5	0.53	0.22	0.34	102	0.35	0.07	0.01				2.8	2.98	0.01
BCD5712	58.3	59.8	1.5	0.132	1.5	0.61	338	0.92	0.28	0.02				2.89	9.86	0.027
BCD5713	59.8	61.3	1.5	0.038	1.17	0.5	84.5	0.43						2.9	2.46	0.013
BCD5714	61.3	62.8	1.5	0.028	0.25	0.08	23.8	0.3						3.04	0.69	0.009
BCD5715	62.8	64.3	1.5	0.014	0.18	0.09	16	0.19						2.84	0.47	0.006
BCD5716	64.3	65.8	1.5	0.008	0.09	0.06	7.9	0.13						2.74	0.23	0.004
BCD5717	65.8	67.3	1.5	0.039	0.11	0.03	2.6	0.08						2.82	0.08	0.002
BCD5718	67.3	68.6	1.3	0.44	0.08	0.02	15.3	0.1						2.8	0.45	0.003
BCD5719	68.6	70.3	1.7	0.189	1.23	0.54	236	0.22						2.84	6.88	0.006
BCD5720	70.3	71.8	1.5	0.083	0.57	0.21	111	0.22						2.77	3.24	0.006
BCD5721	71.8	73.3	1.5	0.124	0.26	0.12	37.8	0.09						2.79	1.1	0.003
BCD5722	73.3	74.8	1.5	0.02	1.08	0.51	89	0.18							2.6	0.005
Averages	48.15	52.19	4.04 (3.5T)	2.73	4.99	2.32	3508.6	4.85						3.1	102.35	0.14
	52.19	59.8	7.61 (6.6T)	0.241	1.71	0.8	322	0.85						2.98	9.4	0.025
	48.15	59.8	11.65 (10.1T)	1.1	2.85	1.33	1427	2.24						3.02	41.6	0.065

## CORPORATION FALCONBRIDGE COPPER

### DRILL HOLE RECORD

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-90	GRID	FIELD COORDS	LAT 98+25NW	DEP 6+85NE	ELEV	COLLAR BRNG 225°	COLLAR DIP -62°	HOLE SIZE NQ	FINAL DEPTH 133.5m	
PROJECT PN 312	CLAIM# REA 1	SURVEY COORDS	98+50.0	6+91.3	1564.8m	DATE STARTED 28/4/87 DATE COMPLETED 29/4/87	CONTRACTOR G&D CORE STORAGE CASING pulled			
PURPOSE								RQD LOG <input checked="" type="checkbox"/> 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	62°			132.6	217	66°				
61	63°									
94	62°									
124	62°									

HOLE NO RG-90  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 4.3	CASING					
4.3 to 69.09	MAFIC PYRO-CLASTIC FLOW	<p>Colour - Med. Green            Grain size - Med. gr. with fine gr. matrix</p> <p>- Lapilli size fragments flattened parallel to bedding .....</p> <p>- Lapilli rounded to sub round with weak carb and are lighter in colour than the matrix</p> <p>- Weakly foliated</p> <p>- Lapilli have chl. altered mafic phenos.</p>	80	<p>Weak sericite + qtz alteration pervasive</p> <p>Two stages of QV's:            1- pale folded early stage;            2- late stage white qtz veins up to 5cm = 2% volume</p> <p>Some lapilli preferentially seric. altered.</p> <p>- matrix chl. altered</p> <p>- occas. speck of green mica</p>	<p>- Tr to 5% dissem. py            avg. 1% dissem py            - occas. pyrite veinlet            - occas. pyrite rimming lapilli</p> <p>✓ 64.4-66.4            silicified zone with 5cm QV's carrying 5-8% py, 1% gal, 1% cpy, tr sphal. + tet.</p> <p>66.4-67.4            Still silicified with QV's, tr. tet.</p>	
69.09 to 90.00	ALT'D MAFIC PYRO-CLASTICS with MINOR CHERT	<p>Colour - Lt. Green            Grain size - Med. to fine gr.</p> <p>- Mafic Pyroclastic but intensely altered by quartz-sericite at 69.09m</p> <p>- no remnant features visible rock highly contorted</p> <p>- minor amounts of chert</p> <p>- fault gouge @ 84.92 and 85.32m</p>		<p>- Intense sericite alt. with quartz flooding</p> <p>- 10 cm qtz veins @ 73.15 with fault gouge</p> <p>78.00            78.69</p>	<p>✓ - Avg 3-4% dissem. pyrite</p> <p>- 78.00 vein has 1+% cpy.</p>	

<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>
90.00 to 98.37	"MUDDY TUFF"	Colour - Dk. grey Grain size - fine Very sharp clear contact with PYro. flow Finely laminated pyrite and Qtz. syngenetic ..... Occas. flattened fragments of chert up to 2cm in diameter. Fine 2-4mm chips of argillite and mafic volcs. as well as clots of py.  @ 92.18-93.88 fault zone with gouge.	85	Flooded with quartz veinlets	Approx. 60% fine grained will laminated py with tr. tet. 90.00-94.77 94.77-96.00 Qtz veins with silic. 2-3% sphal 0.5+% tet.  96.00-96.93 Qtz veins avg. 3-4% sphal, 1% tet.  96.03-98.37 2-3% sphal., 1% tet.	95+% recovery
98.37 to 102.1	SILVER ZONE	Colour - Dk. grey Muddy Tuff Host with an average of 40-50% sulphides. Some late stage QV's and some massive tet. zones, and py, sphal, py zones approx. 10cm wide.		Qtz veins @ 99.1-99.4 100.0-100.3 101.40-101.70 Some sericitic bands 0.5cm	Avg sulphide content Py 15-20%, Sphalerite 10%, Tet. 12%, Galena 0.5% Some zones very massive tetrahedrite while others dissem. in banded pyrite. Galena restricted to vein @ 99.1-99.4 Sphal. rich @ top grading to tet. rich @ bottom.	only 75-85% recovery



<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>
102.1 to 133.5 EOH	"MUDDY TUFF"	Colour - Med. grey Grain size - fine Finely laminated slump bx. with chert and argillite fragments 40-60% f.gr pyrite laminations..... occasional lamination of sericite  Fault zone with badly broken rock at 108.1-108.8m  Fault zone with badly broken rock at 112.7-113.7m  Fault zone with clay gouge at 126.6-126.8m	80      @ 125m bedding 85	Flooded with Qtz. + some sericite laminations.	40-60% laminated and dissem. f.gr. py  102.11-106.61 Avg. 2% sphal 1% Tet. in larger 5-10cm QV's heavy pyrite 60%  106.11-127.00 Generally 30-40% py with tr. sphal + tet. in quartz veinlets. Occ. quartz veins with mineralization.  2cm @ 110.15 with 5% sphal, 3% tet.  115.00-115.30 QV with 3% sphal, 1% tet 50% py  117.30-117.50 QV with 5% sphal, 1-2% Tet., 40% py  118.00-118.1 QV with 10% sphal, 2% tet.  120.7-120.8 QV with 2% sphal, 1% tet., 10% py  102.7-133.50 30-40% py, barren with 10% QV's	90% recovery

Hole No. RG-90

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5723	90	91.5	1.5				4.1	0.06			84	442	68			
BCD5724	91.5	93	1.5	0.012	0.03	0.02	4.1	0.02						2.9	0.12	0.001
BCD5725	93	94.77	1.77	0.009	0.29	0.12	10.3	0.17						2.8	0.3	0.005
BCD5726	94.77	96.93	2.16	0.036	1.28	0.6	46.5	0.7						2.89	1.36	0.02
BCD5727	96.93	98.37	1.44	0.073	1.59	0.69	83.4	0.43						2.79	2.43	0.013
BCD5728	98.37	99.1	0.73	0.139	2.83	1.97	190	0.89						2.84	5.54	0.026
BCD5729	99.1	100	0.9	1.74	5.24	2.04	1990	3.36	1.08	0.15				2.97	58.04	0.098
BCD5730	100	101	1	1.18	2.2	0.88	1310	1.8						2.87	38.21	0.053
BCD5731	101	102.11	1.11	3.22	0.81	0.07	3580	5.5	2.5	0.27				2.89	104.42	0.16
BCD5732	102.11	103.61	1.5	0.03	1.01	0.46	41	0.29						2.97	1.2	0.008
BCD5733	103.61	105.11	1.5	0.121	0.3	0.27	92.5	0.38						2.76	2.7	0.011
BCD5734	105.11	106.61	1.5	0.072	0.69	0.5	32.6	0.63						2.95	0.95	0.018
BCD5735	106.61	108.11	1.5				3.6	0.395			46	550	665			
Averages	98.37	102.11	3.74	1.71	2.64	1.13	1929	3.1						2.89	56.3	0.09
including	99.1	102.11	3.01	2.1	2.6	0.93	2350.4	3.63						2.91	68.7	0.106

## CORPORATION FALCONBRIDGE COPPER

### DRILL HOLE RECORD

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-91	GRID	FIELD COORDS	LAT 97+90NW	DEP. 5+43NE	ELEV. 1525m(approx)	COLLAR BRNG 225°	COLLAR DIP -49°	HOLE SIZE NQ	FINAL DEPTH 53.34m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+06NW	5+50.4	1542.6m	DATE STARTED 29/4/87 DATE COMPLETED 29/4/87	CONTRACTOR G&D CORE STORAGE CASING None			
PURPOSE To test down dip extention of silver zone near a 28ppm Ag soil anomaly.								ROD LOG <input checked="" type="checkbox"/> 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	
44.8	51°			53.0	213°	52°				

HOLE NO RC-91  
 ZIPPY PRINT - BRIDGEPORT, WYOMING

LOGGED BY G. Evans

<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 18.91	CASING					
18.90 to 37.5	GREYWACKE and ARGILLITE	Colour - Grey to black Grain size - med to fine - Interbedded greywackes with 5-20 cm bands of argillite ..... - Argillite finely laminated while wackes finely bedded ..... - Qtz vein - 10cm @ 20.8m	85  85	Occas. qtz veinlet	1-2% dissem py  25.73-25.85m a bed of 80% pyrite in wackes  26.11-26.32m 60% py in argillite  31.91-32.16m a qtz vein with strong sericite selvages. Vein contains 5% py, 1% sphal, 1% tet.  30.47-37.5 argillites and wackes contain 5-8% py with tr sphal.	Argillite probable Max-min conductor
37.5 to 45.6	"MUDDY TUFF" MAJOR FAULT ZONE	Colour - med. grey Grain size - fine Strong sediment component of siltstone in a clay rich matrix in the breccia. Fragments angular to subrounded from 0.5-3.0cm Fragments of siltstone and quartz and small chips of argillite  -Intensely faulted with clay.	bedding 65	Strong clay alteration. No carb.	/-40% py as fine laminations and dissem. - some quartz veinlets contain a trace tet.	NB: slump by strong faulting
45.6 to 53.3 EOH	GREYWACKE	Colour - med. grey Grain size - med. Finely laminated greywacke.....	80	Occasional Qtz veinlet	/ - Avg. 10-12% dissem. py and fine veinlets - 45.4-45.6 qtz vein with 50% py.	

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-92	GRID	FIELD COORDS	LAT 97+90	DEP 5+43	ELEV	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 60.05m
PROJECT PN 312	CLAIM# REA 1	SURVEY COORDS	98+06	5+50.4	1542.6m	DATE STARTED DATE COMPLETED	30/4/87 01/5/87	CONTRACTOR CORE STORAGE	G&D CASING pulled
PURPOSE								ROD LOG X 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
33.5	88°			59	122°	87°			
60	86°								

HOLE NO RG-92  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY Ian D. Pirie

<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	Mainly through weathered bedrock.				
9.14 to 23.47	SEDIMENTS and QUARTZ VEINS	Only 10-15% recovery of pebbles. Mainly barren quartz, argillite and some grit.....	50?	Minor sericite in some pebbles	Local pyrite in the seds.	10-15% recovery.
23.47 to 26.0	QUARTZ VEIN	Colour - white to grey Grain size - aphanitic Mainly bull quartz-healed breccia - grading to greyish, impure quartz (almost smoky).			✓ 3-4% pyrite. Minor cp-tet in one thin veinlet.	30% recovery
26.00 to 42.5	MUDDY TUFF	Colour - grey Grain size - very fine Typical strongly foliated, schistose muddy tuff with numerous gougey zones. Vaguely gritty or fine detrital flow.	25  0	Intense micaceous (sericite/clay)	Up to 25% finely disseminated pyrite locally, but overall relatively low.	
		38.4-38.7 Graphitic argillite. Around 41m may be remnant seds.	50			
		----faulted contact at .....	45			
42.5 to 60.05 EOH	MAFIC VOLCANIC	Colour - dark grey Grain size - fine Fairly featureless though local vague frags. Homogenous, waxy, much less foliated than Muddy Tuff.	70 - 75	Chlorite?	Minor pyrite.	

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-93	GRID	FIELD COORDS	LAT	DEP.	ELEV	COLLAR BRNG. 225°	COLLAR DIP -82°	HOLE SIZE NQ	FINAL DEPTH 148.5m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+50.0	6+91.3	1564.8m	DATE STARTED 29/4/87 DATE COMPLETED 01/5/87	CONTRACTOR G&D CORE STORAGE CASING Pulled		
PURPOSE								ROD LOG X	PULSE EM SURVEY
								COLLAR SURVEY	MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
32.6	82°			142.3	216°	74°			
93.6	78°								
142.3	73°								

HOLE NO RG-93  
ZIPPY PRINT - BRIDLEPOINT MINING

LOGGED BY G. Evans

<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 3.05	CASING					
3.05 to 46.7	MAFIC PYRO- CLASTIC	Colour - Med. green Grain size - fine Matrix strong chl. alt. Lapilli round to sub-angular 2-6cm in length with remnant mafic phenos chl. alt., lapilli sericite alt.  Some lapilli have calcite spherulites?	bedding @ 16m - 45  35m - 45	Chl. alteration pervasive in matrix Lapilli sericite and mod. carb. alt. occas. Qtz vein approx. 5% up to 10cm  - some hematite on fract. 40-41m.	3.05 - 5-20% py as veinlets and dissem. Avg 5-10%  46.6m - 1cm Qtz veinlet with 5% tet, 2% cpy.	
46.7 to 72.9	ALTERED MAFIC PYRO- CLASTIC	Colour - lt. green to lt. yellow Grain size - med. to fine  Sericite alt. increasing till it obliterates original features, Qtz vein stockwork. Strong fault 64.9-65.5 with clay gouge and shattered rock.		Sericite + Qtz alt. steadily increasing. Green micas - fuchsite? common in lapilli. Qtz veins 10-15%.	Py generally low approx. 2-3% dissem. and veinlets.	



<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>
72.9 to 96.2	MAFIC TUFF with CHERT and MINOR ARGILLITE	Colour - Lt. yellow Grain size - fine to aphanitic 72.9-75.3 Finely laminated argillite, sericite alt. mafic tuff and chert with some rounded and flattened chert frags to 1cm 75.3-92.9 60% chert with 30-40% sericite slt. mafic tuff. often very contorted. occas. argillite. occas. subround chert fragment 1-5cm in diameter. 77.8-78.7 Fault with clay gouge 90.53-90.9 Fault with clay gouge 92.9-96.2 Alt'd mafic tuff, chert and argillite laminations appear often highly contorted (soft sed. deform.)	45            45	Sericite alt. to mafic tuff. occas. QV.  Mafic volcs. strongly sericite alt.	Average 3-5% dissem py            +2% dissem. py	

<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>
96.2 to 119.8	MUDDY TUFF	Colour - med. grey Grain size - fine Contact is a fault with clay gouge + qtz chips  96.4-96.7 Fine gr. argillite and pyrite matrix with small quartz and siltstone chips in a finely laminated matrix  Faults with clay 99.67-99.77 110.0-110.2m  102m- Fragments of pyrite appearing	bedding 45	Irregular QV's approx. 5% vol.  Veins increase to 10% @ 105m.    Silicification and veinlets become much more intense	40-50% dissem. + laminated, fgr. pyrite in the matrix  110.8 - 0.5cm vein (QV) with 10% sphal, 1% tet.  111.25 - 0.5cm Qtz vein with 15% sphal, 2% tet.  112.1 - 5cm QV with 3% sphal, tr tet.  112.7-113.1 - 2% sphal, tr Tet. in QV.  113.80-114.45 Avg 2-3% sphal, 1-2% tet  114.45-119.8 veins carrying sulphides average 1% sphal, tr tet over whole width except 114.9-115.2 10% sphal, 3% tet.	
119.8 to 121.2	SILVER ZONE	Colour - lt. grey Grain size - fine Hosted in muddy tuff a strongly silic. zone with 40-50% sulphides.		Strongly silicified	119.8-121.2 Silicified zone with 7% sphal, 3-4% tet, 40% py	

<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>
121.2 to 148.5 EOH	"MUDDY" TUFF	Colour - Lt. grey Grain size - fine Argillite with pyrite in matrix. Fragments of chert, argillite and pyrite. Unit very well laminated..... Fragments vary from 2mm-3cm	45	Mineralization appears to be related to areas of silicification.	121.2-122.6 Avg 1-2% sphal, tr tet unit avg 40% fgr. py as veinlets + dissem. occas. veinlet of Qtz with 3-5% sphal, 1% tet	
					129.55-130.75 Matrix carries 60% py, 8% sphal, 1% tet in QV's over width	
					133.6-134.05 QV's with 7-8% sphal, 1% tet	
					128.70-134.0: 60% py	
		131.2-148.5 Unit becomes much more brecciated with good soft sediment features i.e. slumping. Fault Zones with clay gouge @ 134.9-138.0 145.2-145.4	bedding 45		132.60-133.0 QV zone with 30% py, 10% sphal, 1% tet.	
					134.05-149.05 every 30-50cm a small 2-4cm QV can be seen with 5-10% sphal and 1% tet (stringers?).	

Hole No. RG-93

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5746	113.8	114.45	0.65	0.85	1.09	0.87	156	0.55						3.01	4.55	0.016
BCD5747	114.9	115.2	0.3	0.798	3.41	1.76	120	0.75							3.5	0.022
BCD5748	117.7	118.7	1	0.067	0.74	0.43	14.3	0.21							0.42	0.006
BCD5749	118.7	119.8	1.1	0.039	0.32	0.19	10.7	0.24						2.89	0.31	0.007
BCD5750	119.8	121.4	1.6	0.078	2.38	1.44	22.6	0.42						3.03	0.66	0.012
BCD5751	121.4	122.6	1.2	0.021	0.43	0.21	6.3	0.38						2.98	0.18	0.011
BCD5752	129.55	130.75	1.2	0.053	2.35	1	17.8	0.19						3.42	0.52	0.006
BCD5753	132.6	133	0.4	0.152	2.04	1.38	34.4	0.32						3.29	1	0.009

# CORPORATION FALCONBRIDGE COPPER

X METRIC UNITS  
IMPERIAL UNITS

## DRILL HOLE RECORD

HOLE NUMBER RG-94	GRID	FIELD COORDS	LAT 98+25	DEP 5+48	ELEV	COLLAR BRNG 225°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 50.9m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+39.1	5+50.0	1530.0m	DATE STARTED 30/4/87 DATE COMPLETED 01/5/87	CONTRACTOR G&D CORE STORAGE CASING Pulled			
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
23.5	50°			49.9	226°	56°				

HOLE NO RG-94  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 9.45	CASING					
9.45 to 16.3	QUARTZITE	Colour - Lt. green Grain size - med. Mgr. quartzite with granoblastic grains. Matrix sericite alt'd Weak mod. foliated.....	45	Pervasive sericite alt. in matrix. Occas. Qtz. veinlet.	1-2% dissem. py.	14.33-17.37 10% recovery
		( 14.33-16.3 fault zone with rubble + QV's.				
16.3 to 16.5	SULPHIDE ZONE	Colour - dk grey A extremely weathered 5cm piece which is probably correlative to the silver zone (only 20% recovery)		Strong weathering	approx 10% py approx 40% tet approx 5% sphal rest quartz in extremely weathered sulphides.	Fault zone

<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>
16.5 to 50.98 EOH	"MUDDY TUFF" SEDIMENTS	Colour - dk. grey to lt. grey Grain size - fine to med.  16.4 - 35.66 - A slump bx. with round to sub-angular fragments from 2mm-2cm in diameter - they consist of argillite, siltstone, quartzite and occas. sericite alt. volc.? - occas sericite lamination	bedding 60	Some silic. and some sericite alt.	10-20% py as laminations + dissem.	
		23.4-25.0 - Fault zone with clay gouge 30% recovery in the fault	bedding 80	Matrix weakly sericite alt.	2-3% py mainly as veinlets	(a subunit which makes up much of the muddy tuff)
		31.0-31.3: fault with clay gouge.				
		35.66-38.0 A mgr. siltstone-quartzite with 1mm grains of qtz + FP's in a sericitic matrix.				
		35.66-50.89 "Muddy Tuff" slump breccia 3mm-1cm rounded fragments of siltstone, sericite altered volcs? and minor argillite. - occasional green mica - occas. siltstone and volc. tuff lamination	bedding 80	occas. Qtz vein Weak sericit alt. in volc? frags and occas. laminated.	10% pyrite as veinlets and disseminations.	

Hole No. RG-94

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5741	16.3	16.5	0.2	2.26	44.3	0.78	595	1.87						3.49	17.35	0.055



# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-95	GRID Section 98+00	FIELD COORDS	LAT L98+09	DEP. 6+80NE	ELEV.	COLLAR BRNG. 225°	COLLAR DIP -80°	HOLE SIZE NQ	FINAL DEPTH 136.85m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+08.4NW	6+85.1	1571.0m	DATE STARTED DATE COMPLETED	CONTRACTOR G&D CORE STORAGE CASING None		
PURPOSE To hit ore down dip of RG-71.								ROD LOG x 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
32.61	79°			136	216°	72°			
136.86	75°								

HOLE NO RG-95  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY C. M. Burge

<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 to 3.66	CASING					
3.66 to 54.8	MAFIC PYRO- CLASTIC	Colour - green. Grain Size - fine grained. - Crowded block and lapilli size fragments. - Amygdule and flattened mafic phenos within frags 1-2mm. - Slightly flattened. - Ashy matrix, fine grained to very fine grained, well foliated. - Carbonate veinlet, some siliceous veins 1mm -1cm throughout.	70	Moderate chlorite with strong chlorite on fracture surfaces. Carbonate attacks frags and increases downhole. 52.02 appearance of sericite.	Nil. ✓ Trace to 1%.	BAS Tbx Scoriaceous frags with silica and mafic filled flattened amygdules, some chloritic wisps within frags have delicate boundaries resubling fiamme.
54.8 to 72.24	ALTERED MAFIC PYRO- CLASTIC	Colour - pale yellow and green. Grain Size - fine grained. Contact gradational ----- - Monolithic block and lapilli tuff - breccia.  56.83 - 56.37 - Fault gouge. Contact sharp @ -----	70   55	- Moderate sericite appears to attack fragments first. - Matrix moderate to strong chlorite. - Quartz carbonate veins and knots becoming more abundant downhole.	Pyrite increases to ✓ 3-5% fine dissem.	
72.24 to 75.37	CHERTY ARGILLITE & MINOR TUFF	Colour - grey & pale green. Grain Size - fine grained. Silicified argillite with quartz knots. Occasional fine pyrite tuff units (light grey).  Contact sharp @ -----	55  60	- wormy quartz knots & veinlets throughout - trace flecks of emerald green mica	✓ 5% pyrite throughout section. Tuffaceous units may be up to 10% v.f.g. PY. 74.89 - 75.37 <1% tet., 1% sphalerite, tr cp, tr gal.	Unit is without black chert and lacks graphitic component. 74.87 - 75.37 Geochem 5776

<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>
75.37 to 80.45	ALTERED MAFIC PYRO- CLASTIC	Colour - yellow, black, light grey, streaky. Grain Size - very fine grained. Laminated argillite, ash and chert. - soft sediment deformation throughout. - slumped and broken beds - contorted units. - some beds broken with feathered edges. - sericite (ash) decreases as argillite units pick up downhole. Contact Gradational -----	70	- ash represented by sericite.	Tr - 1% pyrite.	79.50 to 80.45 Rubble Zone
80.45 to 80.50	FAULT	Clay and graphitic gouge.				
80.50 to 88.20	BLACK CHERTY ARGILLITE	Colour - black & light grey. Grain Size - fine grained. Slumped and brecciated beds of argillite & chert laminae. - graphitic component to argillite - kinked cherty beds common - numerous, crosscutting veinlets Contact sharp at approx. -----	60	Quartz veining frequent.	Pyrite to 5% in form of 1-2cm broken frags? associated with quartz.	
88.20 to 90.52	MAFIC TUFF	Colour - pale yellow. Grain Size - fine grained. Massive, homogeneous looking. Contact indistinct.		- weak - sericite alteration.	Tr - 2% pyrite.	Poss. dyke/sill candidate.
90.52 to 95.55	BLACK CHERTY ARGILLITE	Colour - black & grey. Grain Size - fine grained. - badly broken up rubble zone. 93.57 - Fault, some 2 metres lost, marked by drillers. Contact sharp @ -----	50			Drill crew misplaced pieces here 93.40.

<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>
95.50 to 96.00	ALTERED MAFIC PYRO- CLASTIC?	Colour - pale yellow. Grain Size - fine grained. - Moderate - strongly foliated - poss. lapilli or compressed chert frags in ash matrix. Contact broken up. Moderate - strong foliation @ ----	60    65	Strong sericite and clay.	2-3% disse. pyrite. 10-15% pyrite in laminae increase towards bottom of unit.	
96.0 to 123.45	CHERT BRECCIA & MINOR TUFF UNITS	Colour - light grey. Grain Size - fine to very fine grained. Massive chert fragments in a sulphidic muddy matrix - frags dominate. Occasional thin wisps of argillite. Tuff - occasional heterolithic, lapilli size. 96.76 - 96.86 Sulphidic mud, 60% pyrite. 97.60 - 97.90 Quartz vein and pyritic clay gouge. 103.91 - 104.30 Heterolithic clastic unit LT, frags of white and black chert, chardy shapes frag orientation ----- 83 occurring between two qtz-sp-ga stringers.		Moderate sericite and siliceous veining cross-cutting foliation.	5-10% pyrite in matrix. Tr sp throughout.  100.51 - 100.60 Quartz-sulphide vein 40% py, 15% sp, 5% tet. 103.72 - 104.10 10% sphal, 3% tet, 7-10% ga, 15% py. Contained within three 10-20 cm siliceous zones. 105.92 - 106.01 Near massive sulphide bed 40-60% fine pyrite @ 65. 106.45 - 107.95 Leaner section 3-4% sp, 1-2% tet in three siliceous 10-20cm zones.	Poss. stringer.   103.6 - 104.6 BCD 5777            BCD 5778

<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>
		110.38 - 110.63 Near massive sulphide pyrite to 60% with silica.		109.45 - 110.45 5-7% sp, 3-5% tet, 1-2% galena 10-20% local pyrite associated with siliceous zones.		BCD 5780
		110.78 - 110.85 Siliceous stringer carrying heavy pyrite & sp.		Sp 3-5%, tet 2%, py 15%.		
		112.65 - 112.75 Stringer in heterolithic LT.		Sp approx. 3%, tet 2%, ga </= 1%.		
		113.10 - 113.14 Sulphides within siliceous zone.		Tet 3%, sph. tr py. 117.85 - 118.85 5% sp, 3-4% tet, <1% ga, 10-15% py. 121.45 - 121.50 Siliceous stringer 2-3% sp, 1-2% tet.		BCD 5781
		122.0 - 122.15 Pyritic laminae containing sphalerite possibly syngenetic.	70		121.98 - 122.05 5-10% sp.	
123.45 to 123.95	FAULT 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>
123.95 to 131.0	CHERTY ARGILLITE	Thinly bedded to laminated cherty argillite and sulphidic mud numerous siliceous stringers and knots semiconformable.  129.0 - 130.0 Cherty material & fault gouge.  130.0 - 131.0 Broken chert and fault gouge.		Moderate sericite.	5-25% py locally. 124.62 - 124.68 Siliceous stringer with 1% sp and 2% tet, </= 1% ga? 127.70 - 127.9 Siliceous stringer with 5-10% py, 2-3% tet (ga?) 129.0 - 130.0 5% sp, 2-3% tet?, 10% py?  3-5% py, fine grained sp & ga? in gouge.	Broken core. Have these siliceous zones been forcibly injected into sulphidic mud and thereby disrupting the bedding. BCD 5782  Geochem 5782 Any Au?
131.0 to 131.67	NEAR MASSIVE SULPHIDE	131.0 - 131.67 Near massive sulphide. Minor qtz-veining.			Py - 25-50% locally in bands with occasional	
131.67 to 136.85 E.O.H.	CHERT BRECCIA	131.67 - 132.5 Quartz-sp stringers in a sulphidic sericitic mud grades down into a sericitic pyritic mud downhole. Occasional quartz veinlet at lower argillite component than above unit.	90	Moderate - strong sericite matrix.	131.0 - 132.5 Sp 4-5%, tet </= 1%, ga </= 1%.  136.6 3-5% sphalerite veinlets at 90 to CA.	BCD 5783  May be correlative with "muddy tuff".

Hole No. RG-95

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5776	74.9	75.4	0.5	0.05	0.42	0.3	7.9	0.02							0.23	0.001
BCD5777	103.6	104.6	1	0.348	2.57	1.73	89	0.43						2.96	2.6	0.013
BCD5778	106.5	107.5	1	0.052	0.93	0.41	17.8	0.26							0.52	0.008
BCD5779	107.95	108.95	1	0.1	3.32	2.9	68	0.45						3	1.98	0.013
BCD5780	109.45	110.45	1	0.297	1.5	0.86	110	0.46						2.93	3.21	0.013
BCD5781	117.85	118.85	1	0.51	1.02	0.38	156	0.62						2.78	4.55	0.018
BCD5782	129	130	1	1.6	3.03	1.8	344	0.4							10.03	0.012
BCD5783	131	132.5	1.5				9	0.025			365	880	760			

# CORPORATION FALCONBRIDGE COPPER

X METRIC UNITS  
IMPERIAL UNITS

## DRILL HOLE RECORD

HOLE NUMBER RG-96	GRID	FIELD COORDS	LAT 98+25NW	DEP 5+48	ELEV	COLLAR BRNG 225°	COLLAR DIP 90°	HOLE SIZE NQ	FINAL DEPTH 42.7m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+39.1	5+50.0	1530.0m	DATE STARTED 01/05/87	CONTRACTOR G&D	CORE STORAGE CASING pulled	
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
								COLLAR SURVEY	MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
42.0m	88°								

HOLE NO RG-96  
 ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans



<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 9.45	CASING	Colour - medium green Grain Size - fine grained intensely sericite altered as a fine grained matrix but an interval 12.85-13.25 shows medium grained qtz grains in a sericite matrix.		Intense sericite alteration and silicification by quartz veins.	Two 2cm veinlets with 80% py the rest has 0.9-1.0% dissem. py.	approx. 60% recovery
9.45 to 11.28	STRONGLY ALT'D QTZITE? OR MUDSTONE	Colour - white Grain size - aphanitic Milky white quartz vein with 10% sulphides - 12.80 - 13.80 (approx) sericite alteration, quartzite or mudstone section.		Quartz vein with sericite selvages	<u>11.28 - 12.80</u> QV with 1% tet, tr cpy  <u>12.80 - 13.80</u> tr cpy, tet  <u>13.80 - 15.20</u> 6% tet, 1:2% cpy, 0.5% sphal as blebs + stringers.	60% recovery
15.20 to 17.5	CHERT BRECCIA	Colour - light grey Grain size - aphanitic to fine grained Light grey chert highly contorted with some sericite laminations with occas. sub-round chert frags to 2cm in diameter.		5-10% QV's sericite alteration	15% syngenetic pyrite as thin beds + dissem.	
17.5 to 20.5	QUARTZ VEIN	Colour - white Grain size - aphanitic Milky white QV with some clay fault gouge fragments of sericite altered rock in the vein		sericite altered frags sericite has a malachite green colour to some or fuchsite?	2-3% py + tr cpy as stringers.	

<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>
20.5 to 42.67	"MUDDY TUFF"	Colour - medium grey Grain Size - fine grained A argillaceous-pyritic fine grained matrix occasionally composed of siltstone and sometimes sericite alteration volc. tuffaceous lamin. Small chips to fragments angular to subround consisting of chert, argillite and mafic volc. Bedding 22m @ ----- 60 Fault Zone 26.3 - 27.0 with clay + sericite gouge. Bedding 29m @ ----- 30 Bedding 40m @ ----- 70		Volcs. sericite alteration 5-10%. Quartz veinlets +/- pyrite.	Pyrite average as 40% fine grained disseminations and laminations. Occas. rim or forms fragments.	

Hole No. RG-96

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5742	11.28	12.8	1.52	0.062	0.03	0.01	43.9	0.01						2.66	1.28	0.001
BCD5743	12.8	13.8	1				0.8	0.005			14	75	27			
BCD5744	13.8	14.25	0.45	0.895	4.52	0.01	395	0.04						2.75	11.52	0.001
BCD5745	14.25	15.2	0.95	2.14	0.38	0.01	2010	2.07						2.75	58.63	0.06
Averages	13.8	15.2	1.4	1.74	1.71	0.01	1490.9	1.42						2.75	43.5	0.04

**CORPORATION FALCONBRIDGE COPPER**

X METRIC UNITS  
IMPERIAL UNITS

**DRILL HOLE RECORD**

HOLE NUMBER RG-97	GRID	FIELD COORDS	LAT 98+65	DEP 5+63	ELEV.	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 38.71	
PROJECT PN 312	CLAIM #	SURVEY COORDS	98+83.2	5+66.7	1517.6m	DATE STARTED 02/5/87	DATE COMPLETED 03/5/87	CONTRACTOR G&D	CASING Pulled	
PURPOSE To test silver zone below trench #3 area.								ROD LOG X 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	
25.9	85°									

HOLE NO RG-97  
ZIPPY PRINT : BROOKFIELD HICHMUND

LOGGED BY G. Evans

<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 6.1	CASING					
6.1 to 16.97	QUARTZITE with MINOR CHERT	Colour - Lt. grey to brown Grain size - med. Finely laminated granoblastic quartzite with occasional chert band Some coarse quartzites with Argillite? chips.  14.75-15.00 Fault gouge with clay and qtz chips	45	Pervasive sericite alteration in the matrix. Occasional quartz and sericite veinlet. Fractures at top weathered	Occas. py veinlet Dissem py 3-30% Averages 5%	
16.97 to 19.7	MASSIVE SULPHIDES "SILVER ZONE"	Colour - black-yellow Grain size - fine almost massive sulphides in a qtz vein matrix.		Qtz veinlets + matrix	16.97-18.97 90% sulphides hard to distinguish: 50% sphal, 30+% tet., 2-3% cpy. Qtz matrix with mica  18.97-19.7 95% sulphides with quartz + mica: 50% py, 40% cpy, 5% tet.	18.0 to 20.9 only 40% recovery
19.7 to 21.17	QTZ VEIN with FAULT GOUGE	Colour - white Grain size - massive A quartz vein with clay and sheared "Muddy Tuff"		Qtz + clay alteration	5% py as dissem. and veinlets 2% cpy as veinlets and blebs tr to 1% tet.	20.42-22.86 75% recovery
21.17 to 38.71 EOH	"MUDDY TUFF"	Colour - med. grey Grain size - fine A muddy slump breccia with fragments of argillite, pyrite and chert up to 2cm in diameter.  Strong fault zone 23.26-28.96m 25% recovery with clay gouge and chips.	bedding 30	Occasional QV's and silica flooding in zones.	22.17-22.6 40% py, 10% sphal, tr. tet  22.6-38.71 40-50% py as fine bands and dissem.	

Hole No. RG-97

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5736	16.97	17.97	1	3.59	47.5	0.82	3220	3	1.92	0.22				3.93	93.92	0.088
BCD5737	17.97	18.97	1	1.68	56	0.31	338	0.98	0.16	0.01				3.93	9.86	0.029
BCD5738	18.97	19.7	0.73	18.6	4.18	3.18	1390	1.13	0.73	0.08				4.23	40.54	0.033
BCD5739	19.7	21.17	1.47	0.358	0.24	0.01	295	0.3							8.6	0.009
BCD5740	21.17	22.26	1.09	0.011	0.01	0.01	1.4	0.02						2.99	0.04	0.001
Average	16.97	21.17	4.2	4.61	25.5	0.83	1192	1.25							34.8	0.036
			3.95T													
includes	16.97	19.7	2.73	6.9	39	1.26	1675	1.76						4.01	48.9	0.051
			2.6T													

# CORPORATION FALCONBRIDGE COPPER

METRIC UNITS  
 IMPERIAL UNITS

## DRILL HOLE RECORD

HOLE NUMBER RG-98	GRID	FIELD COORDS	LAT 98+65NW	DEP 6+16NE	ELEV 1521	COLLAR BRNG 225°	COLLAR DIP 57°	HOLE SIZE NQ	FINAL DEPTH 75.3	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+87.6	6+19.0	1525.9	DATE STARTED 03/5/87 DATE COMPLETED 04/5/87	CONTRACTOR G&D CORE STORAGE CASING Pulled			
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	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	
53.6	56°			73.0	220°	55°				

<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 12.5	CASING					
12.5 to 37.0	ALTERED MAFIC TUFF WITH CHERT	Colour - light green - yellow Grain Size - fine grained - aphanitic Finely laminated sericite altered mafic tuff or ash with white to grey chert beds interbedded with grey chlorite wisps. Occasional zone with chert fragments (as rip-ups?) 1 to 5cm rounded to subangular. Bedding 25m ----- 27.6 - 27.9 Milky white quartz veins. Fault Zone with blocky ground. 32.9 - 33.9 33.9 - 37.0 Quartz vein with 34.9 - 37.0 5-10% sulphides + sericite on fractures.	80	Strong sericite alteration with some silicification around quartz veins.	Average 10% dissem (+ stockwork?) pyrite in the tuffs. Occasional, 5-10cm quartz veins with 60% pyrite. 34.9 - 37.0 Quartz veins with 5-10% sulphides, 2-3% dissem. pyrite, 1-2% tet. A white fibrous mineral makes up 5-10% of volume (white sphal?).	
37.0 to 42.3	FINE GRAINED QUARTZITE OR TUFF?	Colour - light yellow Grain Size - fine grained Strong Fault 36.8 - 37.6 on contact with clay gouge. A finely laminated rock with a sericite matrix and fine 2-3mm chert + pyrite fragments. Bedding & foliation @ 38m -----	80	Matrix strongly sericite altered.	Averages 10% dissem. pyrite with up to 20% in small zones.	N.B. a more tuffaceous equivalent of rocks called a quartzite.



<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>
42.8 to 53.6	"SILVER ZONE"	Colour - grey - white - light green Grain Size - fine grained - aphanitic Host rock is the fine tuff or quartzite. Milky white quartz veins carry heavy sulphide mineralization. Bedding @ ----- 80 Vein Contacts @ ----- 70-80		Large quartz veins.	42.8 - 42.9 40% quartz, 60% sulphides 15-20% galena, 1-2% cpy, 1-2% sphal, 35-40% Tet. 42.9 - 43.2 Quartzite with 1-2% Tet. 43.2 - 44.8 Milky quartz vein. 30% sulphides. Avg. 20% Tet, 3% galena, 2% cpy, 2-3% sphal, 1-2% py as blebs + veinlets. 44.8 - 46.4 only 50% recovery in quartzite with quartz veins 40% with 5% cpy, 5% tet, 10% galena. 46.4 - 48.2 Quartz veins badly ground only 50% recovery. Avg. 8-10% cpy, 4-5% sphal, 6% galena, 2-3% tet. 48.2 - 53.6 Mixture of quartz veins and quartzite 50-50% badly ground with 50% recovery, 1-2% dissem. tet avg. in veins.	Zone has only about 60% recovery overall.

<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>
53.6 to 60.0	CHERT BRECCIA	<p>Colour - light grey            Grain Size - aphanitic - fine grained            Contact is strongly faulted and broken with chips + clay gouge.            53.6 - 54.10            A chert breccia with 10-20% argillite in the matrix. Light grey - light green chert beds highly contorted and slumped. Fragments 5mm - 5cm and angular rip-ups.            Minor sericite (mafic volcanics) laminations.            Bedding @ 55m -----</p>	70	Weak quartz & sericite alteration.	/ 40% pyrite as laminations (fine grained) and medium grained veinlets.	
60.0 to 75.3 E.O.H.	"MUDDY TUFF"	<p>Colour - medium grey            Grain Size - fine-medium grained            A muddy fine grained pyritic matrix supports angular fragments from 3mm to 4cm of argillite, chert + pyrite.            Fault Zone with clay gouge.            62.0 - 62.4            Bedding 63m @ -----            Fault Zone with quartz veins.            64.7 - 65.5            Bedding 75m @ -----</p>	45     80	Some silicification by quartz veins.	/ 60.0 - 60.3 Quartz veins carry 50-60% py and a green mica 5+% (fuchsite?). Zone avg. 50% fine grained pyrite. Some pyritic zones up to 80%.	

Hole No. RG-98

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	ppm Ba	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5764	34.9	35.7	0.8	0.073	0.08	0.02	68	0.02						2.75	1.98	0.001
BCD5765	35.7	36.5	0.8	0.039	0.05	0.02	53.9	0.22						2.89	1.57	0.006
BCD5766	42.8	43.2	0.4	10.7	1.79	3.65	14200	12.45						3.6	414.7	0.363
BCD5767	43.2	44	0.8	6.18	1.26	1.72	6500	13.6						3.25	189.58	0.397
BCD5768	44	44.8	0.8	1.13	0.18	0.03	815	1.4						2.78	23.77	0.041
BCD6769	44.8	46.4	1.6	0.492	1.05	0.64	455	1.13						3.09	13.27	0.033
BCD5770	46.4	48.2	1.8	1.82	3.92	2.78	1410	4.39						3.05	41.13	0.128
BCD5771	48.2	50.9	2.7				140	0.27			1400	770	110			
BCD5772	50.9	53.6	2.7				8.2	0.035			106	350	107			
BCD5773	60	60.3	0.3				2.4	0.015		2600	200	720	560			
Average	42.8	48.2	5.4	2.63	1.96	1.65	2740	4.94						3.09	79.9	0.144

**CORPORATION FALCONBRIDGE COPPER**

**DRILL HOLE RECORD**

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-99	GRID	FIELD COORDS	LAT 97+90NW	DEP. 6+37NE	ELEV. 1555m	COLLAR BRNG 225°	COLLAR DIP -58°	HOLE SIZE NQ	FINAL DEPTH 93.48m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+13.4NW	6+ 43.9	1559.7m	DATE STARTED 03/5/87	DATE COMPLETED 05/5/87	CONTRACTOR G&D	CORE STORAGE CASING Pulled
PURPOSE								ROD LOG COLLAR SURVEY	x 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
42.06	-58°			92.0	220°	59°			
70.71	-61°								

HOLE NO RG-99  
ZIPPY PRINT - BRIDGEPORT 4/11/87

LOGGED BY G. Evans

<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 44.2	MAFIC PYRO- CLASTICS	Colour - medium green. Grain Size - fine grained. Fine grained strongly chl. altered matrix with flattened lapilli size fragments, which are sericite altered with mafic P's remnant but chl. altered. Bedding @ 27m ----- 29.0 - 30.05 A vuggy quartz vein with tr cpy + tet. Fault with clay gouge @ 13.72.	70	Matrix strongly chl. altered. Lapilli sericite and strongly carb. altered. Quartz veins approx. 5cm common.	Averages 1% dissem. py.	
44.2 to 47.5	ALTERED MAFIC TUFF WITH CHERT	Colour - light yellow. Grain Size - fine grained - aphanitic. Strong volcanic matrix with thin chert beds and occasional chert fragments up to 5cm (rounded). Volcanic was probably a tuff.		Volcanic rock is highly sericitized and silicified.	Avg. 1-2% dissem. py.	
47.5 to 63.40	ARGILLITE + CHERT WITH MINOR MAFIC TUFF	Colour - medium grey. Grain Size - fine grained - aphanitic. Lots of soft sediment deformation with slumping etc. Mafic tuff is sericite altered. The rock is finely laminated. Bedding @ 48.5m -----	80	Mafic Volc. is strongly sericite altered. Many 1-2cm quartz veins and some silicification.	1-2% dissem. py. 62.9 - 63.3 Qtz veins with blebs of sulphide, 10-12% sulphides, 2-3% cpy, 4-5% sphal, 2-3% tet.	
63.4 to 71.0	ALTERED MAFIC TUFF WITH CHERT	Colour - light yellow. Grain Size - fine grained - aphanitic. Finely laminated sericite altered tuff interbedded with chert beds. Occasionally contorted (soft sed. deformation). @ 67m Bedding & foliation ----- 70.5 - 71.0 a quartz vein with fault clay gouge @ 70.9 - 71.0.	85	Intense sericite alteration and silicification by later quartz veins from 1-5cm.	10% avg. dissem. coarser py.	

<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>
71.0 to 83.5	"SILVER ZONE" (MUDDY TUFF)	Colour - medium grey. Grain Size - fine grained. Hosted by the muddy tuff (silicified). 72.34 - 74.0 Milky white quartz vein with 5-8% sulphides. Clay fault @ 74.0 77.8 - 30cm fault with rubble.  Zones of mainly pyrite with strongly silicified zones 5-10% carrying 50-60% Sphal, Tet, Gal.		Occasional quartz vein. Matrix is siliceous (vein?).          Strongly silicified.	71.0 - 72.34 Semi massive, 50% sulphides, 10-20% py, 10% sphal, 15% tet, 2-3% cpy. 72.34 - 74.0 5-8% sulphides in quartz vein, 2% sphal, 3-5% Tet. 74.0 - 75.0 90% sulphides, 10% qtz, 20-25% py, tr-1% cpy, 40% sphal, 15-18% Tet. 75.0 - 77.8 40-50% qtz, 30% py, 20% sphal, 5-10% Tet. 77.8 - 83.5 Strongly silicified. Approx. 50% sulphides 25-30% py, 10% sphal, 5-6% Tet, 2-3% Galena.	72.34 - 74.0 only 30% recovery
83.5 to 93.48 E.O.H.	"MUDDY TUFF"	Colour - light grey. Grain size - fine grained - aphanitic. Strong cherty component to the matrix. 40% finely laminated pyrite. Generally laminated with occasional chert fragment. Bedding @ 85m -----	85	Strongly silicified.	Quartz veins 89.4 - 88.5 Quartz vein with 10% py, tr tet. 90.5 - 91.40 With fault gouge 10% py, 1% tet. 91.42 - 91.52 Tr tet 93.0 - 93.3 89.8 - 92.0 Silicified zone with 1-2% sphal, tr tet.	

Hole No. RG-99

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5754	62.9	63.3	0.4	0.45	1.08	0.42	34.2	0.1							1	0.003
BCD5755	71	72.34	1.34	3.98	2.89	1.13	3850	5.7						3.08	112.3	0.166
BCD5756	72.34	74	1.66	0.342	0.2	0.12	402	0.22						2.71	11.7	0.006
BCD5757	74	75	1	3.27	10.3	8.5	1860	4						3.62	54.2	0.117
BCD5758	75	76.5	1.5	0.72	3.21	2.1	230	0.82						3.02	6.7	0.024
BCD5759	76.5	77.8	1.3	1.18	3.24	1.39	435	1.03						3.08	12.7	0.03
BCD5760	77.8	79.3	1.5	0.353	1.4	0.75	151	0.4						2.97	4.4	0.012
BCD5761	79.3	80.8	1.5	0.165	1.28	0.38	80.5	0.39						3.02	2.35	0.011
BCD5762	80.8	82.3	1.5	0.12	0.47	0.16	80	0.4						3.06	2.3	0.012
BCD5763	82.3	83.5	1.2	1.03	2.13	2.5	443	0.61						3.08	12.9	0.018
Averages	71	77.8	6.8	1.73	3.46	2.23	1264	2.14						3.06	36.9	0.062

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-100	GRID	FIELD COORDS	LAT 98+65NW	DEP 6+16NE	ELEV	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 89.9
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+87.6	6+19	1525.9m	DATE STARTED 04/5/87 DATE COMPLETED 05/5/87	CONTRACTOR G&D CORE STORAGE CASING Pulled		
PURPOSE								ROD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
								COLLAR SURVEY	MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
53.3	88°								
89.9	84°								

HOLE NO RG-100  
ZIPPY PRINT - BRD REPORT REFORMING

LOGGED BY G. Evans



<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 6.4	CASING					
6.4 to 36.50	ALTERED MAFIC TUFF WITH CHERT	Colour - light green Grain Size - fine grained - aphanitic. Finely laminated sericite altered tuffaceous matrix with chert beds & frags. Units often contorted (soft sed. slumping?). Bedding @ 16m -----	45	Intense sericite alteration in mafics with chlorite alteration to veinlets. - 6.4-11.3 fractures weathered with hematite. - Silcification with many quartz veins & veinlets.	1% dissem. pyrite & occasional pyrite veinlet.	Faults with clay gouge. 23.1 - 23.3 31.5 - 32.0 36.0 - 36.1
36.5 to 46.0	ALTERED MAFIC TUFF	Colour - light green. Grain Size - fine grained. Fine grained mafic tuff strongly sericite altered. Very finely laminated quartz veins: 38.6 - 39.3 39.8 - 43.4. Some slumping + occasional round fragments of chert + pyrite. Bedding parallel to foliation.		Intense sericitic alteration.	Some zones have 40% pyrite. 36.5 - 36.8 39.0 - 39.2 the rest has tr - 1% pyrite. Quartz veins @ 38.6-39.3 30% py, 3% tet, 2% cpy. 39.8-43.4 5% py, tr tet, tr cpy.	Intense fault with clay gouge and quartz chips. 36.9 - 37.8 Fault with gouge 42.6 - 42.7.
46.0 to 48.7	"SILVER ZONE"	Colour - white - grey. Grain Size - aphanitic - fine grained. Quartz vein with 30-40% sulphides.		Quartz vein with some angular wallrock fragments intensely sericite altered.	46.0 - 47.6 Quartz vein with 5% Tet, tr cpy, 2% py. perhaps white sphalerite. 47.6 - 48.7 Same vein 12% Tet, 2% galena, 8% sphalerite.	

<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>
48.7 to 62.3	CHERT BRECCIA	Colour - medium grey. Grain Size - aphanitic - fine grained. Light grey chert fragments in a pyritic chert matrix. Occasional anhydrite crystal flooded by early stage silicification. Bedding @ 63m -----	45	Strongly silicified. Fractures have strong sericite alteration.	With silicification comes mineralization. 48.7 - 52.5 Zone averages 11% Tet, 12-14% sphalerite, 25% pyrite. Sometime sulphides are finely banded. 52.5 - 62.5 Strongly silicified with 30% pyrite dissem. & pyrite silicification carried tet + sphalerite. Avg. 1-2% Tet, 3-4% Sphalerite, tr cpy. N.B. mineralization continues 30cm into tuff as quartz veins.	
62.3 to 70.2	MAFIC TUFF WITH CHERT & QUARTZITE?	Colour - light green. Grain Size - fine grained - aphanitic. A fine grained sericite altered mafic tuff or ash with coarser quartzite beds + occasional grey chert band. - Very finely laminated. Bedding -----	45-60	Mafic Volcanic sericite altered.	Tr pyrite dissem.	

<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>
70.2 to 80.9	CHERTY "MUDDY TUFF"	Colour - medium grey - medium green. Grain Size - fine grained - aphanitic. Dominantly chert 60-70% with some sericite altered mafic tuff (20%) and minor argillite. Fragments angular to subrounded (1-5cm) of chert, argillite and rarely pyrite fragments. Large milky white quartz vein 71.3 - 72.2 with sericite + fuchsite? + talc? Bedding @ 72.3m -----	45	Mafic Volcanics strongly sericite altered. Silicification around quartz veins.	Avg. 5-10% dissem. pyrite.	Fault Zone with clay + chips. 70.1 - 71.1
80.9 to 82.5	CHERT WITH MINOR ARGILLITE	Colour - light grey. Grain Size - aphanitic - fine grained. Chert beds with minor argillite. Bedding appears @ -----	20	Moderately silicified.	5-10% pyrite as laminations + dissem.	Strong fault with graphitic black fault gouge 80.9 - 81.6m.
82.5 to 89.92 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. A muddy siltstone, argillite pyritic matrix. Finely laminated with fragments 3mm - 2cm subangular - round of argillite chert + pyrite. - The rock has a very granular texture with quartz grains 1-3mm. Bedding @ 84m ----- Bedding @ 89m -----	45 45	5% quartz veins.	✓ 30-40% dissem. fine grained pyrite in the matrix.	

Hole No. RG-100

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5801	38.6	39.3	0.7	1.19	0.42	0.13	1120	1.23						2.96	32.67	0.036
BCD5802	39.8	41.7	1.9				167	0.22			2100	1850	930			
BCD5803	41.7	43.2	1.5				3.8	0.03			150	18	81			
BCD5804	46	47.6	1.6	1.12	0.95	0.18	1135	1.26						2.7	33.1	0.037
BCD5805	47.6	48.7	1.1	2.98	4.15	1.94	2800	3.7						2.99	81.67	0.108
BCD5806	48.7	50.2	1.5	1.37	8.02	5.22	670	1.08						3.25	19.54	0.032
BCD5807	50.2	51.7	1.5	0.147	1.26	0.52	50.2	0.02						2.96	1.46	0.001
BCD5808	51.7	52.5	0.8	1.7	2.33	1.42	480	0.85						3.01	14	0.025
BCD5809	52.5	54	1.5				110	0.24			3700	3300	4020			
BCD5810	54	55.5	1.5				20.1	0.17			425	1520	1240			
BCD5811	55.5	57	1.5				7.9	0.15			198	1370	620			
BCD5812	57	58.5	1.5				25.2	0.15			845	2280	1300			
BCD5813	58.5	60	1.5				16.3	0.12			345	2330	2500			
BCD5814	60	61.5	1.5				3.9	0.125			78	270	395			
BCD5815	61.5	62.5	1				45	0.29			1320	8100	4710			
BCD5816	80.9	81.6	0.7				0.6	0.015			69	170	77			
Average	46	50.2	4.2	1.7	4.31	2.44	1405	1.83						2.97	41	0.054
	46	52.5	6.5	1.34	3.36	1.87	978.5	1.29						2.97	28.5	0.038

## CORPORATION FALCONBRIDGE COPPER

x METRIC UNITS  
IMPERIAL UNITS

### DRILL HOLE RECORD

HOLE NUMBER RC-101	GRID Section 97+40	FIELD COORDS	LAT 97+40	DEP 6+67NE	ELEV.	COLLAR BRNG 225°	COLLAR DIP -78°	HOLE SIZE NQ	FINAL DEPTH 163.68m	
PROJECT PN 312	CLAIM #	SURVEY COORDS	97+57.0	6+80.3	1601.7m	DATE STARTED 05/5/87	DATE COMPLETED 07/5/87	CONTRACTOR G&D	CORE STORAGE None	
PURPOSE To hit ore								ROD LOG <input checked="" type="checkbox"/> 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	
62.8	78°			Failed to work (Tropari wet)						
91.4	80°									
127.1	78°									
163.7	76°									

HOLE NO RC-101  
ZIPPY PRINT - BRIDGEPORT REFORMING

LOGGED BY C. M. Burge

<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 to 3.05	CASING					
3.05 to 83.05	MAFIC PYRO- CLASTIC FLOW	<p>Colour - pale green and dark green. Grain Size - fine grained. Weakly foliated to strong foliation in matrix. - frag. rich - block &amp; lapilli size pale green porphyry nature - silicified amygdules spherical shaped and shardy chloritic flecks within frags, all 1-2mm size - frags flattened at approx.----- - dark green ashy matrix, fine grained, well foliated 34.14 first appearance of wormy wandering carb-silica veinlets 5mm carrying 1-2% py. 37.62 - 37.0 Barren milky qtz vein. 47.85 - 50.90 Bad ground 1.1m core loss. 51.0 - 51.35 Rubble Zone 56.60 - 56.85 Quartz vein greyish material 2% py. 57.15 - 57.25 Fault gouge &amp; rubble. 57.25 - 64.2 Bad ground 60-80% recovery. 63.93 - 64.0 Quartz vein, 3% py. 64.2 - 64.65 Fault gouge &amp; rubble. 66.82 - 66.88 Amygdule rich zone, 30-40% silica filled vesicules in ashy matrix remnant accretionary lapilli.</p>	<p>60</p> <p>60</p>	<p>Fragments attacked by str. carbonate, moderate to strong chlorite is all that remains of ashy matrix numerous 1mm to 1cm carbonate veinlets.</p> <p>45.0 py 1-2% in matrix &amp; frags.</p>	<p>1% dissem. py.</p>	<p>Some frags have frothy pumaceous look to them.</p> <p>Flow breccia of amygdaloidal flow and ash flow (shard containing) fragments.</p> <p>53.65 - 58.00 Core out of place marked black.</p>

<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>
		71.60 - 73.76 Gouge 73.76 - 76.30 Bad ground broken core. 76.30 - 77.50 Rubbly zone & fault gouge. 81.0 - 81.4 As above.				
		Gradational Contact				
83.05 to 93.27	ALTERED MAFIC PYRO- CLASTIC	Colour - pale yellow & dark green. Fragments become pale yellow a sericite attacks - pervasive carbonate continues. Fragments still distinct however.  Contact distinct but ground up.		83.05 1st appearance of pale yellow sericite. Gradational increase in sericite in frags downhole. Strong to intense chlorite within matrix carbonate strong.	1% dissem. py 81.24 - 81.28 Quartz - sulphide 2-3% tet, 1% sp.	First stringer.     91.22 mismatch.
93.27 to 97.30	CHERT BRECCIA IN ASH	Broken chert and siliceous frags with matrix of fine yellow sericite framework >> matrix. 94.0 - 94.5 Quartz veining within chert breccia. 95.25 - 95.3 Lapilli tuff.  Contact sharp (bedding) -----	55     75	Intense sericite in matrix.   Sericite	3-5% py.   Tet 1%, py 3%, sp 2-3%, cp 1-2%.	Peculiar jaundice yellow sericite.  94.0 - 95.0 Geochem 5785
97.30 to 106.2	MAFIC PYRO- CLASTIC & CHERT BRECCIA	Colour - light grey. Grain Size - fine - coarse grained. Fragments of chert broken quartz veins and pumaceous(?) lapilli and block size pyroclastic fragments occur.  Contact gradational.		Silicification, pyroclastic frags yellow.	3-5% py.	Transition unit.

<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>
106.2 to 121.94	BLACK CHERTY ARGILLITE AND ASH	Broken and slumped beds of black cherty argillite and ash display soft sediment deformation features. Graphitic component especially on foliation planes. 109.0 - 109.2 116.4 - 117.0 Quartz veins, milky, no sulphides. 117.3 - 117.85 Quartz - graphitic material & chlor. 117.2 - 117.35 Fault Gouge.  Contact Sharp -----	70	Quartz veining and knotting continues.	107.00	Beautiful massive sulphide fragments occur in various size (v.f.g. py).
121.94 to 124.00	ALTERED MAFIC LT & ASH	LT sericitized, moderate - well foliated. Occasional black cherty argillite beds and chert fragments.  Contact broken up.		Strong sericite, 3-5%.	3-5% pyrite.	
124.0 to 142.34	CHERT BRECCIA & SULPHIDE MUD MATRIX	Colour - dull grey & brown. Grain Size - very fine - medium grained. Broken chert beds and fragments display weak foliation in a sulphide matrix. Pyrite definitely bedded and is primary.	55	Strong quartz veining and clotting silicification.		Sulphidic matrix occurs in bands with up to 50% fine py over some sections. 124.85 - 124.91 Near Massive sulphide with sp - 1%, tet - trace.



<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>
		Quartz - tet-sph stringers are associated with stronger coarser grained pyrite zones. 123.0 - Chert frags in a heavy sulphide mud 30% py. Tet. sp. mineralization associated with 2-5cm cloudy quartz veins.		Si & sericite.	124.91 - 125.5 quartz stringers, sp 3%, tet 5%.  Py 10-15% in beds, 2% sp, 1% tet. Contains 2 5cm quartz stringers, 2% tet, 3% sp. 126.6 - 127.90 Quartz injections in sulphidic mud carrying 1-2% tet, 2-3% sp. 127.90 - 128.05 Quartz - sulphide vein, 3-5% tet, 2-3% sph.	BCD 5786 124.34 - 124.84 NM & stringer. 125.25-125.65 Fault Gouge Geochem 5787 131.80 - 133.20 Assay 5788 133.20 - 134.20
		135.25 - 141.05 "Silver Zone" Massive sulphide laminae and beds sphalerite and tetra also seen conformable.  Gradational contact.	70	Strong silica.	50-60% py, 5-7% tet, 3-5% sp. 30%-40% py, 2-3% tet, 1-2% sp in 4 5cm quartz stringers. 1-2% tet, 1-2% sp.  1-2% sp, <1% tet, lean zone. 10-12% tet, 5-7% sp, 1-2% ga.	Spectacular section of bedded sulphides. BCD 5789 135.25 - 136.25 BCD 5790 136.25 - 137.50 BCD 5791 137.5 - 138.90 BCD 5792 138.9 - 139.82 BCD 5793 139.82 - 140.20 SZ

<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>
142.34 to 145.7	MIXED CHERT BRECCIA WITH SULPHIDE MUD MATRIX AND BLACK CHERTY ARGILLITE	Increasing argillite component going downhole minor graphitic component. 145.17 - 145.22 Fault gouge. 145.55 - 145.? Fault Zone			15-20% py, 3-4% tet, 2-3% sp quartz stringer.	BCD 5794 144.0 - 145.0 Transitional unit.
145.7 to 149.20	LT WITH SULPHIDIC MUD MATRIC	Heterolithic, well sorted, moderate-strong foliation, fragments dominate.  Gradational	75		Sulphide fragments 10-20% sulphide py matrix. Sp 5-7%, tet 3-5%, cp 1%.	Correlates with Muddy tuff.  BCD 5795 148.2 - 149.20
149.20 to 154.31	CHERT BRECCIA WITH ARGILLITE & SULPHIDIC MUD MATRIX	Broken cherty frags with occasional wisps of black cherty argillite.	70	Numerous quartz veins and knots.		Ultra fine sulphide matrix could represent pyritic ash cloud in water?
154.31 to 155.78	MASSIVE SULPHIDES	Entire section, fine and medium grain clots of pyrite.		Local quartz veins & knots.	75-80% py, 5-7% tet?, 1-2% barite, 2-3% sphalerite.	BCD 5796 154.31 - 155.31 BCD 5797 155.31 - 156.31 (diluted) Spectacular! poss. chimneys.

<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>
155.80 to 156.24	CHERT BRECCIA IN SULPHIDIC MUDDY MATRIX	Contact - sharp.				See BCD 5797
156.24 to 156.60	MASSIVE SULPHIDE	Colour - brassy yellow. Grain Size - medium grained. Bedded medium grain py & silica some ultra fine sulphide mud.  Contact - faulted.			Py 60-80%, tet 5-7%, sp 5%.	BCD 5798 156.31 - 156.81
156.60 to 163.68 E.O.H.	CHERT BRECCIA AND LT	Broken fragments of chert beds and silicified tuffaceous unit 25-30% ultra fine sulphide rich, ash or mud forming matrix. Moderate foliation.	50	Abundant quartz veinlets every direction.	Py 15-20%, tet 1-2%, sp tr.	BCD 5799 156.81 - 158.31 Anhydrite. Note change in foliation or bedding after sulphides reflecting primary topography.

Hole No. RG-101

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Ba	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5788	133.2	134.2	1	0.168	0.32	0.22	80.5	0.68						2.99	2.35	0.02
BCD5789	135.25	136.25	1	1.03	2.51	1.82	288	0.41						3.23	8.4	0.012
BCD5790	136.25	137.5	1.25	0.072	1.04	0.65	46.2	0.2						2.94	1.35	0.006
BCD5791	137.5	138.9	1.4	0.149	0.6	0.48	59.8	0.36							1.74	0.011
BCD5792	138.9	139.82	0.92	0.237	0.4	0.4	70.2	0.23							2.05	0.007
BCD5793	139.82	140.2	0.38	2.3	3.53	2.49	627	0.25						3.23	18.29	0.007
BCD5794	144	145	1	0.302	2.82	1.3	88	0.21						3.11	2.57	0.006
BCD5795	148.2	149.2	1	0.062	3.01	1.63	31.6	0.14							0.92	0.004
BCD5796	154.31	155.31	1	0.63	2.14	5.3	251	0.62	0.32						7.32	0.018
BCD5797	155.31	156.31	1	0.03	1.5	4.54	48.1	0.36	0.62						1.4	0.011
BCD5798	156.31	156.81	0.5	0.148	6.3	6.91	138	0.47	0.73						4.03	0.014
BCD5799	156.81	158.31	1.5	0.029	1.32	0.8	37	0.5	1.18						1.08	0.015

**CORPORATION FALCONBRIDGE COPPER**

**DRILL HOLE RECORD**

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-102	GRID	FIELD COORDS	LAT 99+00NW	DEP. 6+66NE	ELEV	COLLAR BRNG 225°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 111.86 m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	99+09.6	6+70.2	1529m	DATE STARTED 05/5/87 DATE COMPLETED 08/5/87	CONTRACTOR G&D CORE STORAGE	CASING Pulled	PULSE EM SURVEY MULTISHOT SURVEY	
PURPOSE								ROD LOG <input checked="" type="checkbox"/>	COLLAR SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
38.7	49°			E.O.H. No reading.						
105.8	53°									

HOLE NO RG-102  
ZIPPY PRINT - BRIDLEPOINT RICHMOND

LOGGED BY G. Evans

<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 to 6.4	CASING					
6.4 to 22.2	MAFIC PYRO- CLASTICS	Colour - light green. Grain Size - fine grained. Lapilli size sub-angular fragments in a chl-sericite altered matrix some chl altered phenos and some vesicular frags. - rock is strongly fractured.		Matrix chl-sericite altered. Lapilli strongly sericite altered. Many small milky quartz veins. Fractures have hematite + carb. alteration.	✓ 1-2% dissem. py.	40-60% recovery
22.2 to 57.0	ALTERED MAFIC TUFF WITH CHERT	Grain Size - fine grained - aphanitic. Finely laminated beds of mafic volcanic tuff with interbeds of chert. Occasionally a chert breccia zone with sub-round chert frags. - Milky white quartz veins 10-30cm (late stage). Bedding @ 25m ----- 85 Bedding @ 50m ----- 80		Mafics intensely altered by sericite. Also strong 30-40% quartz flooding.	✓ 2-5% fine grained dissem. py in mafic tuff. Occasional py veinlet.	
57.0 to 61.7	ARGILLITE	Colour - dark grey. Grain Size - fine grained. Finely laminated argillite with pyrite in the matrix + some soft sed. deformation i.e. slumping.		Occasional milky white quartz vein.	✓ Avg. 30% fine grained pyrite as dissem. + laminations.	Weak fault with clay gouge. 60.0 - 60.4

<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>
61.7 to 67.8	MAFIC TUFF	Colour - light brown - light green. Grain Size - very fine grained. - Very fine grained laminated mafic tuff. - contact with argillite gradational with tuff just a strong volc. component. - Cross bedding common. - Unit also transitional into quartzite. - Occasional angular - sub-angular py fragment. Bedding @ 66.5m -----	70	Mafics strongly sericite altered.	/ 2-3% py disse. some py frags, occasional 5cm pyrite band in quartz vein.	
67.8 to 74.5	QUARTZITE	Colour - light grey - light brown. Grain Size - medium grained. Gradational contact 1mm quartz grains in a tuffaceous matrix with occasional tuffaceous bands and occasional 2-4mm pyrite frags. Bedding @ 69m -----	80	Volcanic matrix sericite altered. Occasional milky white quartz veins 5-20cm. Vein selvages particularly sericite altered.	2-3% disse. py occasional py frag (primary) + some 5-10cm bands with 60-80% py. /	Intense fault with sand + quartz chips. / 72.6 - 73.1
74.5 to 82.1	"SILVER ZONE" VEIN	Colour - mottled grey. Grain Size - aphanitic. A mottled milky white quartz vein with fragments of silicified quartzite.		Mafics are extremely sericite altered. Fractures have sericite alteration. Some pink quartz veins, barite?	74.5 - 75.3 Milky white quartz vein with 5% py, 1-2% cpy, 1-2% tet. 75.3 - 82.1 as blebs, veinlets + disse. particles in quartzite (py + cpy on edges of main vein) Avg. py-4%, cpy-tr, tet 11-12%, gal 4-5%, sph 4-5%.	N.B. Quartzite is the host.

<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>
82.1 to 95.3	QUARTZITE + MAFIC TUFF	Colour - light brown. Grain Size - fine grained. Fine grained quartzite with zones of finely laminated altered tuff with frags flattened + rounded. Py frags 1-5cm. Milky white quartz vein @ 82.1 - 82.3 82.8 - 84.1 92.6 - 92.8 Bedding @ 89m -----	85	Mafic tuff intensely sericite altered. 2 stages Quartz vein. 1) Oldest grey quartz veins which silicify rock. 2) Youngest large white milky quartz veins.	Avg. 10% fine grained pyrite as frags and veinlets. 91.75 - 92.8 Quartz veins flooded with, 5% py, and 10% grn (fuchsite or talc?).	Two major faults with only fine sand recovered. ✓ 87.4 - 88.1 91.1 - 91.8
95.3 to 111.86 E.O.H.	"MUDDY TUFF"	Colour - light grey. Grain Size - fine grained. Fine grained argillite + siltstone matrix with 30-50% py finely laminated with round to subrounded frags .5-3cm of argillite, chert + pyrite. - loading indicates tops up hole. - Some soft sediment deformation with contortions of the beds. Bedding @ 97m ----- Bedding @ 110m -----	60 80	Some silicification by quartz veins.	✓ 30-50% fine grained pyrite in matrix. 2-3% py as fragments.	



Hole No. RG-102

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5837	73	74.5	1.5	0.01	0.02	0.02	4.1	0.1							0.12	0.003
BCD5838	74.5	75.3	0.8	0.45	0.5	0.31	253	0.39						3.05	7.38	0.011
BCD5839	75.3	76.8	1.5	2.54	2.02	1.23	3250	3.95						2.81	94.79	0.115
BCD5840	76.8	78.3	1.5	2.52	3.1	1.98	3480	2.97						3.07	101.5	0.087
BCD5841	78.3	79.8	1.5	2.73	2.54	1.64	3820	3.35						2.98	111.42	0.098
BCD5842	79.8	81.3	1.5	2.51	2	0.63	3520	2.74						2.92	102.67	0.08
BCD5843	81.3	82.1	0.8	2.11	2.36	0.8	2760	3.7						2.87	80.5	0.108
BCD5844	82.1	83.6	1.5													
BCD5845	91.75	92.8	1.05													
Average	74.5	82.1	7.6	2.3	2.21	1.2	3094	3						2.95	90.3	0.087
	75.3	82.1	6.8	2.52	2.41	1.3	3428	3.31						2.94	100	0.096

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-103	GRID	FIELD COORDS	LAT 97+40NW	DEP 6+75NE	ELEV 1599m	COLLAR BRNG.	COLLAR DIP 90°	HOLE SIZE NQ	FINAL DEPTH 187.8m	
PROJECT PN 312	CLAIM #	SURVEY COORDS	97+57.0	6+80.3	1601.7m	DATE STARTED: 08/5/87 DATE COMPLETED: 10/5/87	CONTRACTOR G&D CORE STORAGE: _____ CASING Pulled			
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
60.0	87°			None						
99.6	88°									
126.8	87°									
178.9	88°									

HOLE NO RG-103  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 3.7	CASING					
3.7 to 126.0	MAFIC PYRO-CLASTICS	<p>Colour - medium green.            Grain Size - medium grained.            - Lapilli sized fragments in a chl altered matrix.            - Lapilli flattened and subrounded with remnant mafic phenos (chl altered).            - Occasional tuffaceous unit 1-2mm.            Bedding @ 14m ----- 45            Bedding @ 59m ----- 45            Bedding @ 99m ----- 45            100.0 - 126.0            Alteration increasing with a stronger sericite overprinting as well as increased silicification but lapilli "Ghosts" can be seen, alteration steadily increases down hole!</p>		<p>Matrix is chl altered while lapilli are sericite + carb altered.            Quartz veinlets 2-3%.</p>	<p>Generally 2-5% py dissem. + veinlets.</p>	<p>Fault Zone with clay gouge.            47.5 - 48.0 with mechanical breccia            54.2 - 57.6 broken rock            58.5 - 60.1 with broken rock + clay            67.6 - 68.3 intense clay alteration.</p>
126.0 - 187.8	"MUDDY TUFF"	<p>Colour - medium grey.            Grain Size - fine grained.            A fine grained argillite and pyrite matrix with fragments in a slump breccia with frags of argillite, chert + pyrite.            - Occasional sericite altered mafic tuff band.            Bedding @ 130m ----- 45</p>		<p>Silicification by quartz veins. Mafics sericite altered.</p>	<p>Matrix approx. 50% fine grained pyrite. Note mineralization in silicified zones.  <u>130.2 - 131.7</u>            20% Silicified Zone with 10% Sphal, 8% tet. (Sphal + Tet intergrown).</p>	

<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>
		Some intervals have up to 80% syngenetic py. finely laminated. i.e. 136.1 - 137.0 152.1 - 153.0			135.7 - 137.6 Silver Zone "A" 60% silicified zones with 1-2% gal, 70% py, 10-12% sphal, 5-8% tet. N.B. In areas between mineralized bands there are occasional 5cm bands of silicification with minor mineralization. 144.2 - 144.7 Silicified zone, 5% sphal, 4% tet, 30% py. 152.1 - 153.0 80% py, 2% sphal, tr tet. 153.0 - 154.5 Silver Zone "B" 60% silicified zone with 8% sphal, 6-8% tet, 3-4% Gal, 40% py.	
		Good example of massive syngenetic pyrite with slumping 173.3. Bedding @ 153m -----	45		155.9 - 156.4 Silicified zone with 30% coarse py with intergrown 15% sphal, 8-10% tet. 160.3 - 162.5 20% silicified zones with 40% py, 15% sphal, 8% tet. 167.0 - 169.1 Silicified zone 80%. Silver Zone "C" 60% py, 8-10% sphal, 3-4% tet, 3-4% gal. 169.1 - 173.4 6% silicified with 30% py, 2% sphal, 1% tet. 173.4 - 178.0 60% silicification. Silver Zone "D" Avg. 40% py, 10% sphal, 3-4% tet, tr galena.	Strong fault with clay gouge. 165.1 - 165.5

<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>
		Bedding @ 187.0m -----	40		181.2 - 182.4 60% silicified. Silver Zone "E" 5% py, 20% sphal, 5-6% tet.	

Hole No. RG-103

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5857	135.7	136.6	0.9	0.082	3.3	2.83	48.5	0.37						3.31	1.41	0.011
BCD5858	136.6	137.6	1	0.08	2.03	1.1	23.8	0.39						3.16	0.69	0.011
BCD5859	137.6	138.6	1				8.1	0.14			290	1420	1260			
BCD5860	144.2	144.7	0.5	0.21	1.14	0.58	36	0.3						2.92	1.05	0.009
BCD5861	152.1	153	0.9	0.013	0.51	0.62	14.1	0.03						3.37	0.41	0.001
BCD5862	153	154.5	1.5	0.594	2.19	2.13	148	0.2						3.18	4.32	0.006
BCD5863	155.9	156.4	0.5	2.96	5.8	2.65	83	0.21						3.45	2.42	0.006
BCD5864	160.3	161.3	1	0.312	1.19	1.33	79	0.21						3.18	2.3	0.006
BCD5865	161.3	162.5	1.2	0.061	2.73	3.1	31.7	0.09						3.14	0.92	0.003
BCD5866	166.1	167	0.9				53	0.14			1900	2750	1380			
BCD5867	167	168	1	0.08	1.82	1.19	30.2	0.24						3.14	0.88	0.007
BCD5868	168	169.1	1.1	0.107	4.47	2.17	20.6	0.38						3.56	0.6	0.011
BCD5869	169.1	170.6	1.5				6.3	0.12			122	6400	1120			
BCD5870	170.6	172.1	1.5				5.6	0.16			110	2400	485			
BCD5871	172.1	173.4	1.3				19.2	0.13			480	1180	2100			
BCD5872	173.4	174.9	1.5	0.096	1.71	1.08	32.4	0.39						3.28	0.95	0.011
BCD5873	174.9	176.4	1.5	0.024	1.14	0.61	8.7	0.18						3.25	0.25	0.005
BCD5874	176.4	178	1.6	0.063	3.16	1.43	21.9	0.19						3.44	0.64	0.006
BCD5875	178	179.5	1.5				25	0.09			1150	8500	6200			
BCD5876	181.2	182.4	1.2	0.068	3.98	1.08	30.5	0.13						3.06	0.89	0.004

## CORPORATION FALCONBRIDGE COPPER

x METRIC UNITS  
IMPERIAL UNITS

### DRILL HOLE RECORD

HOLE NUMBER RG-104	GRID	FIELD COORDS	LAT 99+00NW	DEP 6+66NE	ELEV 1525m	COLLAR BRNG 225°	COLLAR DIP -70°	HOLE SIZE NQ	FINAL DEPTH 102.7m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	99+09.6	6+70.2	1529m	DATE STARTED	DATE COMPLETED	CONTRACTOR G & D CORE STORAGE Casing Pulled		
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
32.8	68°			101.2	220°	68°				
73.76	68°									

HOLE NO RG-104 LOGGED BY G. Evans  
 ZIPPY PRINT BRIDGE POINT HIGH MOUNT

<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 to 3.35	CASING					
3.35 to 17.4	MAFIC PYRO- CLASTICS	Colour - light grey. Grain Size - fine grained. - lapilli subrounded in a fine grained green matrix. - Subrounded mafic lapilli with remnant mafic phenos and vesicles. Bedding @ 8m -----	60	- Moderate sericite alteration to lapilli matrix chl altered. - Weathering on fract. to 17.2m - No carb. alteration. - Occasional vuggy milky white quartz vein.	1-2% dissem. py.	
17.4 to 53.1	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - very fine grained - aphanitic. - Finely laminated mafic tuff with chert bands and chert fragments. - Beds often highly contorted with soft sed. features. - A chert rich rock. Bedding approx. -----	45	- Mafic tuff intensely sericite altered. - Some chl altered veinlets. - Some silicification. - Occasional milky white quartz vein.	5% py as laminations + veinlets.	
53.1 to 58.7	ARGILLITE	Colour - medium grey. Grain Size - fine grained. - Well laminated and interbedded with chert. - 56.2 - 58.7 Milky white quartz vein with sulphides, some zones silicified quartzite? Bedding @ -----	70-80	- Some silicification. - Quartz vein has sericite fract. + green mineral (talc, fuchsite?)	- Avg. 30% dissem. py in argillite. - Occasional silicified zone with 1-2% sphal. (2-4cm) - 56.2 - 58.7 Quartz vein has sulphide bands. Avg. 1% cpy, 2% tet, tr gal, tr sphal.	Fault gouge with clay 55.90 - 56.0 58.6 - 58.7 Fault with sericite 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>
58.7 to 73.5	MAFIC TUFF + QUARTZITE	Colour - light brown. Grain Size - fine grained. - Very finely laminated tuff with beds that appear as quartzite. - Zone have round primary py fragments flattened 1-4cm. - Beds vary from fine grained to very fine grained. - Load casts suggest top up hole. - Bedding varies as low as 25o. Bedding @ -----	60-70	- Intense sericite alteration. - 20% milky white quartz veins.	- Averages 10% py in bands. - Milky quartz vein @ 65.7 has blebs of brown sphal.	
73.5 to 78.4	"SILVER ZONE" QUARTZ VEIN	Colour - white - light grey. Grain Size - Massive. - Milky white quartz vein with sulphides. - Maybe hosted in quartzite because zones of silicified wallrock appear as quartzite? - Sulphides increase as you approach the massive sulphide zone.		Sericite on fract.	73.5 - 77.8 Quartz vein with 6% sulphides as blebs. 2% cpy, 2% brown sphal, 1-2% tet, tr gal. 77.8 - 78.4 Quartz vein contains 40+% Sulphides, 20% sphal, 5% cpy, 12% tet, 2-3% gal. as bands in massive zones + blebs.	
78.4 to 79.4	MASSIVE SULPHIDES	Colour - medium brown. Grain Size - fine grained. - hosted in a cherty muddy tuff. - Sulphides form fine bands. - Zone has been silicified. Bedding @ approx. -----	60	Silicification.	Avg. 70+% sulphides well laminated in a cherty matrix. Avg. 30% py, 20-25% sphal, 10-15% tet, 1% gal.	

<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>
79.4 to 87.8	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. - A strong chert component with a muddy matrix containing 40% fine grained syngenetic py. - Beds often contorted and occasional subrounded chert frag. - Milky white quartz vein 87.0 - 87.3.		Silicification		
87.8 to 101.0	MAFIC TUFF & QUARTZITE	Colour - light green. Grain Size - fine grained - medium grained. Finely laminated mafic tuff interbedded with quartzite with a tuffaceous matrix. - Leucoxene crystals in tuff. Bedding @ -----	70	- Strong sericite alteration. - Occasional milky quartz vein. - Occasional talc or fuchsite crystal fine grained. - Strong sericite alteration around quartz veins.	1-2% dissem. py.	
101.0 to 102.7 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. - More argillite in matrix than upper muddy tuff. - Argillite with pyrite matrix with chert beds + frags. - Beds often disrupted and slumped in soft sed.		- Moderately silicified with quartz veins. - Occasional talc crystals.	20-30% fine grained pyrite in argillite.	- Mod. broken.

Hole No. RG-104

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5882	56.2	58.7	2.5	0.301	0.82	0.39	296	2.18						2.94	8.63	0.064
BCD5883	72	73.5	1.5				2.6	0.06			62	140	134			
BCD5884	73.5	75	1.5	0.1	0.01	0.02	42	0.02						2.65	1.23	0.001
BCD5885	75	76.5	1.5	0.18	0.1	0.01	128	0.1						2.7	3.73	0.003
BCD5886	76.5	77.8	1.3	0.498	0.29	0.27	238	0.23						2.73	6.94	0.007
BCD5887	77.8	78.4	0.6	1.1	4.61	2.98	1020	1.13						2.99	29.75	0.033
BCD5888	78.4	79.4	1	0.332	9.25	5.41	234	0.72						3.29	6.83	0.021
BCD5889	79.4	80.9	1.5	0.34	1.62	1.83	180	0.66						3.05	5.25	0.019
BCD5890	80.9	82.4	1.5	0.052	0.12	0.09	20.2	0.3						2.84	0.58	0.009
BCD5891	82.4	83.9	1.5	0.022	0.32	0.53	22.5	0.42						2.89	0.66	0.012
BCD5892	83.9	85.4	1.5	1.02	1.38	0.59	327	1.51						3.01	9.54	0.044
BCD5893	85.4	86.7	1.3	0.204	0.71	0.89	88.2	0.4						3.07	2.57	0.012
BCD5894	86.7	87.3	0.6	0.8	1.53	1.38	328	0.99						3.09	9.57	0.029
AVERAGE	56.2	58.7	2.5	0.301	0.82	0.39	296	2.18						2.94	8.63	0.064
	76.5	79.4	2.9	0.57	4.27	2.6	398.4	0.59						2.98	11.6	0.017
OR	76.5	80.9	4.4	0.49	3.36	2.34	324	0.61						3	9.45	0.018

## CORPORATION FALCONBRIDGE COPPER

X METRIC UNITS  
IMPERIAL UNITS

### DRILL HOLE RECORD

HOLE NUMBER RG-105	GRID	FIELD COORDS	LAT 99+00NW	DEP 6+66NE	ELEV 1535m?	COLLAR BRNG	COLLAR DIP 90°	HOLE SIZE NQ	FINAL DEPTH 139.3m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	99+09.6	6+70.2	1529m	DATE STARTED 09/5/87 DATE COMPLETED 11/5/87	CONTRACTOR G&D CORE STORAGE	CASING	Lost Rods Pulled	
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
50.7	85°									
130.1	87°									

HOLE NO RG-105  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 3.7	CASING					
3.7 to 17.8	MAFIC PYRO- CLASTICS	Colour - light green - medium green. Grain Size - fine grained. A fine grained chl altered matrix with irregular lapilli that have remnant vesicles and amygdules + remnant chl altered phenos. Bedding @ 16m -----	45	Fractures weathered and often have quartz veinlets, matrix chl altered, lapilli sericite altered, some quartz veins have carb. altered selvages.	3-5% py disse.	
17.8 to 53.0	ALTERED MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. Finely laminated wispy sericite altered mafic tuff with chert beds and subangular fragments ranges from well laminated zones to slump breccias with, chert frags + disrupted tuff bands. Bedding @ 19m ----- Bedding @ 42m -----	70 60	Mafic tuff intensely sericite altered.	1% disse. py @ 23.0m. 1cm veinlet with 5% sphal, 2% galena, tr tet. Occasional py stringer. 44.55 - 44.8 Quartz vein with 15% py, 5% sphal, 5-8% tet.	Strong fault 20.42 with 30% recovery as rubbly chips.  Fault zone with clay + quartz.
53.0 to 63.7	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. Contact vague with lots of tuffaceous component to the sediments indicate tops down hole. Unit generally well laminated with bands of argillite, chert, pyrite + occasional tuff with slump breccias with frags of chert, argillite and pyrite sub-angular. Bedding @ 53.2m -----	45	Some silicification by quartz veins + sericite alteration to mafic tuff.	Approx. 30% fine grained pyrite in the matrix as laminations and fragments. 60.9 - 63.7 Silicified bands carry 5-8% sphal, 3-4% tet, tr galena increases to 63.2 - 63.7 15% sphal, 5% tet in silicified zone near the vein.	Fault Zone 60.4 - 60.6 with rubble

<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>
63.7 to 65.1	QUARTZ VEIN WITH MINERAL- IZATION	Colour - medium gray - white. Grain Size - fine grained - aphanitic. Vein ranges in appearance from milky white + massive to mottled with silicified wallrock with sericite alteration on fract, also some of the vein contains a soft pink mineral (Barite?) N.B. host maybe a quartzite or its a vein texture (compare to RG-102, 104).		Intense silicification with sericite alteration on fract. and some barite?	Sulphides are in veinlets in silicified zone and blebs in the massive vein. Avg. over vein 5% sphal, 4% tet, 5-8% py.	
65.1 to 69.8	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained, Moderately altered rock with a fine grained argillite - pyrite matrix with beds and frags of chert and pyrite chert 50-60%. Quartz vein 68.5 - 69.4 again maybe hosted in a quartzite or it is a mottled texture? Vein has strong sericite selvages + has biotite within it. Bedding @ 66m -----	40	Strongly silicified and fract. sericite altered.	Muddy tuff avgs 30-40% fine grained pyrite with occasional bands. 65.1 - 68.5 moderately silicified 3-4% sphal, 1-2% tet, 30+% py. 68.5 - 69.4 Quartz vein 1-2% py, tr sphal, tr tet.	
69.8 to 72.34	MASSIVE SULPHIDES	Colour - banded pyrite. Grain Size - fine - medium grained. Very finely laminated sulphides in a cherty matrix with biotite + sericite on foliation. Evidence of loading in sulphides indicating tops up hole + sulphide are syngenetic. Bedding @ 70m -----	45	Some silicification.	69.8 - 70.7 80-90% banded sulphides, 30% py, 10% tet, tr cpy, 25+% sphal, 9% gal. 70.7 - 72.34 60% sulphides laminated. Avg. 20% py, 9% tet, 2% gal, 23% sphal.	Syngenetic!!

<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>
72.34 to 79.0	CHERT BRECCIA	Colour - medium grey. Grain Size - aphanitic - fine grained. A silicified chert breccia with vague fragments up to 5cm, minor argillite + sericite on fract. Bedding @ 76.8m -----	45	Silicified with occasional quartz vein.	<u>72.34 - 76.8</u> 40% sulphides dissem. + banded, avg. 20% py, 15% sphal, 5% tet, tr-1% gal. Occasional quartz vein holds 2-5% galena. <u>75.3 - 75.6</u> 20% sphal, 5% galena, 3% cpy, 10-12% tet, 10% py. <u>75.6 - 79.0</u> Sulphides generally decrease. Avg. 20% zones 10-20cm with 60+% sulphides, 10% py, 4-6% sphal, 2-4% tet.	(Maybe a cherty Muddy Tuff?)
79.0 to 122.7	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. An argillaceous matrix with 30-40% fine grained pyrite well laminated with occasional fragments of chert, argillite and pyrite, 5%. Occasional "Wispy" band of argillite. Zones have knots of chert + siltstone? Zone becomes more brecciated 92.0 - 122.7. Major fault contact. Bedding @ 90.5m ----- Bedding @ 117.0m -----	45 45	Some silicification by quartz veins. Sericite alteration on fract. Occasional bleb of light green transparent mineral (talc?).	30-40% fine grained py dissem. py as coarser bands and fine laminations also. <u>87.4 - 90.5</u> Zone is silicified near 2 faults. Avg. 25-30% py, 15% sphal, 3-4% tet. "2nd Silver Zone" Otherwise occasional 5cm silicified zone with 5% sphal, 2-3% tet +/- tr cpy.	N.B. Faults @ 87.6 10cm finely broken + ground. 88.8 - 89.0 cave with broken rock. Small fault @ 116.8 - 117.0

<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>
122.7 to 126.5	CHERT BRECCIA	Colour - light grey. Grain Size - aphanitic. - Large Fault Forms the contact. - A laminated light grey chert with angular fragments to 5cm. Bedding @ 120m -----	45	Weak sericite on some fract.	Avg. 10% py dissem. + laminated, tr sphal.	- Fault zone with chert frags in a fine grained black argillite - pyrite matrix.
126.5 to 139.3 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. Finely laminated argillite with chert bands and frags rounded 1-4cm of chert, argillite, pyrite segs. occasionally contorted soft sed. slumping. Bedding @ 132m -----	45	Light soft transparent green mineral on fract. (talc?).	126.7 - 130.7 50% py, 10% sphal or leucoxene in altered zone with lots of talc? same @ 136.2 - 139.3. Main zones hold 30% fine grained pyrite in argillite material - syngenetic.	Fault Zone @ 126.7 - 130.7 with altered ground area. Fault Zone @ 136.2 - 139.3 vertical fault with gouge (lost rods!).



Hole No. RG-105

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5717	44.55	44.8	0.25	0.164	4.42	2.43	42.5	0.2							1.24	0.006
BCD5818	60.35	60.9	0.55				26	0.195			320	1340	840			
BCD5819	60.9	62.4	1.5	0.174	1.19	0.69	109	0.41						2.86	3.18	0.012
BCD5820	62.4	63.7	1.3	0.665	3.51	1.72	448	1.95						2.96	13.07	0.057
BCD5821	63.7	65.1	1.4	0.172	1.74	0.85	144	0.4						2.86	4.2	0.012
BCD5822	65.1	66.6	1.5	0.253	3.36	1.02	313	0.64						3.07	9.13	0.019
BCD5823	66.6	68.5	1.9	0.072	0.45	0.14	70.5	0.38						2.89	2.06	0.011
BCD5824	68.5	69.8	1.3	0.299	0.26	0.05	364	0.73						2.81	10.62	0.021
BCD5825	69.8	70.7	0.9	1.12	11.95	8.6	1000	1.88						2.94	29.17	0.055
BCD5826	70.7	71.4	0.7	0.142	8.3	5.14	264	0.43						3.33	7.7	0.013
BCD5827	71.4	72.34	0.94	0.176	5.98	4.2	283	0.5						3.33	8.25	0.015
BCD5828	72.34	73.8	1.46	0.03	4.32	2.49	88.4	0.34						3.21	2.58	0.01
BCD5829	73.8	75.3	1.5	0.082	2.01	1.29	52.5	0.07						3.01	1.53	0.002
BCD5830	75.3	75.6	0.3	3.18	8.15	9.45	1340	2.75						3.27	39.08	0.08
BCD5831	75.6	77.1	1.5	1.32	4.16	2.58	1040	1.6						3.09	30.33	0.047
BCD5832	77.1	79	1.9				19.7	0.29			210	4100	3050			
BCD5833	87.4	88.2	0.8	0.271	6.07	2.52	58.2	0.36						2.94	1.7	0.011
BCD5834	88.2	89	0.8	0.114	1.82	1.25	20.4	0.38						3.5	0.6	0.011
BCD5835	126.7	128.1	1.4	0.02	0.28	0.24	2.2	0.05						3.11	0.06	0.001
BCD5836	128.1	130.7	2.6	0.002	0.01	0.03	0.2	0.16						3.05	0.01	0.005
Average	62.4	77.1	14.7	0.434	3.63	2.23	366	0.82						3.03	10.7	

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-106	GRID	FIELD COORDS	LAT 97+40NW	DEP 6+75	ELEV 1599m	COLLAR BRNG 225°	COLLAR DIP 62°	HOLE SIZE NQ	FINAL DEPTH 154.2m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	97+57.0	6+80.3	1601.7m	DATE STARTED May 10/87	DATE COMPLETED May 12/87	CONTRACTOR G & D		
PURPOSE								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	
22.6	62°			153	228°	62°				
53.0	62°									
117.3	64°									
151.5	68°									

HOLE NO RG-106  
ZIPPY PRINT - BREXID POINT MICHIGAN

LOGGED BY G. Evans

<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 3.7	CASING					
3.7 to 88.4	MAFIC PYRO- CLASTICS	<p>Colour - medium green. Grain Size - fine grained. - A chl altered green matrix with lapilli size flattened fragments with flattened chl altered mafic phenos.</p> <p>Bedding @ 22m ----- 65 - Fragments rounded to subangular. - Rarely matrix ripped up in the flow breccia.</p> <p>Bedding @ 40m ----- 70 - Sometimes flow becomes more massive with fine lapilli. - The lapilli are very homogeneous (monolithic).</p> <p>Bedding @ 80m ----- 70 85.5 - 88.4 Sericite alteration increases in both lapilli and matrix.</p>		<p>- Matrix is chl altered. Lapilli sericite and carb. altered. - 5% quartz veinlets late stage X-cutting.</p>	Tr py as veinlets.	<p>Mod. fault with broken rock. 64.46 - 67.8 69.5 - 70.1</p> <p>Strong Fault Zone with mech. ground quartz frags + clay. 79.8 - 82.2</p> <p>Wide fault zone with broken rock. 83.6 - 88.9</p>
88.4 to 100.9	MAFIC TUFF WITH CHERT	<p>Colour - light green - light brown. Grain Size - fine grained. - Generally laminated tuff with chert + silicified bands. - Some lapilli "Ghosts" can be seen so maybe mafic pyroclastics but a strong sediment component. - Some round chert frags.</p> <p>Bedding @ 90m ----- 70</p>		Intense sericite alteration with 50% silicification.	5% dissem. py.	

<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>
100.9 to 115.1	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained - aphanitic. - A mixture of several rock types chert, argillite + mafic tuff. - Varies from finely laminated chert + argillite with tuffaceous component to beds contorted by soft sed. deformation and argillite frags in slump breccias. Bedding @ 106m -----	80	- Mafic tuff sericite altered. - Some silicification by quartz veins. - Occasional quartz vein has a soft pink mineral (barite?). - Approx. 10% quartz veins (milky white).	3-5% py as frags (.5cm) and veinlets.	/ 101.5 - 104.6 Fault zone with broken rocks + quartz veins.
115.1 to 120.3	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Well laminated mafic tuff with chert bands and fragments and occas. argillite fragment (rounded). Bedding @ 115.2m -----	80	- Mafic tuff, intensely sericite altered. - Pyrite veinlets have some chl alteration. - Strongly silicified.	✓ 10% py as dissem. and veinlets, tr cpy, tet in a 5cm quartz vein.	Intense fault with fine grained black mud + qtz chips. / 117.8 - 118.8
120.3 to 122.8	QUARTZITE WITH MINERALIZATION "SILVER ZONE"	Colour - light grey. Grain Size - medium grained. - A medium grained quartz with equigranular qtz grains with 20-25% sulphides. - Matrix strongly silicified with some milky white quartz veins.		- Silicified matrix. - Fractures have sericite on them.	- 20-25% Sulphides dissem. + blebs 121.70 - 121.78 Well laminated Massive sulphide with sphal, tet, cpy. Avg. over interval: 120.3 - 122.8 1% cpy, 3% sphal (some brown), 1-2% gal, 15-18% tet.	Fault Zone / 122.5 - 122.9 with ground rock.

<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>
122.8 to 138.3	"MUDDY TUFF" SILVER ZONE	<p>Colour - medium grey.            Grain Size - fine grained.            - Well laminated argillite, chert and pyrite which is silicified.            - Averages 35-40% py bands.            - 123.5 - 124.3            Large milky white quartz vein with 10% sulphides.            Bedding @ 123m -----</p>	50	<p>Strongly silicified.            135.1 - 138.3            Some transparent lt. green soft crystals (talc?).</p>	<p><u>122.8 - 123.5</u>            Strongly silicified, 30% py, 5% sphal, 1% gal, 1-2% tet.  <u>123.5 - 124.3</u>            Milky white quartz vein with coarse blebs of sulphides, 10% cpy, 6% sphal, 1% tet.  <u>124.3 - 135.1</u>            Moderately silicified.            40% py, 3-4% sphal, 1% gal, 2-3% tet in strong silicified bands.  <u>135.1 - 138.3</u>            Intensely silicified with 30% coarse py as blebs, 10% sphal, 1% gal, 3-4% tet.</p>	
138.3 to 154.2 E.O.H.	"MUDDY TUFF"	<p>Colour - medium grey.            Grain Size - fine grained.            - Generally well laminated argillite, chert and minor mafic tuff.            - Sometimes bedding is contorted with soft sed. deformation.            - Down the section the rock steadily increase in argillite content and becomes more of a breccia with 1cm frags of chert, argillite and pyrite.            Bedding &amp; foliation parallel @ 138m            Bedding &amp; foliation parallel @ 152m</p>	70 60	<p>- Mafic tuff sericite altered.            - 5% milky white quartz veins.</p>	<p>/- Generally 10% dissem. fine grained pyrite in argillite.            - Occasional 2-3cm silicified band with 1-2% sphal, 1-2% tet.</p>	<p>Weak faults @            144.3 - 144.4            146.4 - 146.8            150.0 - 150.6            with broken rock.</p>

Hole No. RG-106

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5901	118.8	120.3	1.5				65	0.14			1000	1250	900			
BCD5902	120.3	121.4	1.1	1.19	0.23	0.04	1490	2.03						2.84	43.46	0.059
BCD5903	121.4	122.8	1.4	1.63	2.51	0.58	2010	2.95						2.98	58.63	0.086
BCD5904	122.8	123.5	0.7	0.087	1.46	0.3	44.3	0.28						2.99	1.29	0.008
BCD5905	123.5	124.3	0.8	2.68	0.9	0.02	107	0.26						2.73	3.12	0.008
BCD5906	124.3	125.8	1.5	0.04	0.08	0.16	12.1	0.28						2.87	0.35	0.008
BCD5907	125.8	127.3	1.5	0.023	0.14	0.11	9.7	0.23						2.86	0.28	0.007
BCD5908	127.3	128.8	1.5	0.035	0.53	0.29	14.2	0.4						2.99	0.41	0.012
BCD5909	128.8	130.3	1.5	0.142	0.97	0.64	51.8	0.26						2.98	1.51	0.008
BCD5910	130.3	131.8	1.5	0.032	0.49	0.35	13.9	0.12						2.96	0.41	0.004
BCD5911	131.8	133.3	1.5	0.61	1.77	1.16	198	0.22						3.03	5.78	0.006
BCD5912	133.3	135.1	1.8	0.048	0.13	0.12	17.8	0.17						2.87	0.52	0.005
BCD5913	135.1	136.6	1.5	0.387	2.76	1.14	185	0.21						3.16	5.4	0.006
BCD5914	136.6	138.3	1.7	0.01	1.5	0.4	10.6	0.18						3.05	0.31	0.005
BCD5915	138.3	139.8	1.5	0.132	0.28	0.21	68	0.23						2.87	1.98	0.007
AVERAGE	120.3	122.8	2.5	1.44	1.51	0.34	1781	2.55						2.92	52	0.074

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-109	GRID	FIELD COORDS	LAT 97+40NW	DEP. 6+75NE	ELEV. 1605m	COLLAR BRNG 225°	COLLAR DIP 46°	HOLE SIZE NQ	FINAL DEPTH 148.75m
PROJECT PN 312	CLAIM # REA #1	SURVEY COORDS	97+57.0	6+80.3	1601.7m	DATE STARTED: May 10/87 DATE COMPLETED: May 12/87	CONTRACTOR: G & D CORE STORAGE: CASING: Pulled		

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

ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
63.1	47°			145.0	231°	51°			
97.2	48°								
136.9	50°								

HOLE NO RG-109  
 ZIPPY PRINT - - BRIDGEPOINT RICHMOND

LOGGED BY G. Evans

<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 3.7	CASING					
3.7 to 111.9	MAFIC PYRO-CLASTICS	<p>Colour - medium green. Grain Size - fine grained. - Fine grained chl altered matrix with monolithic lapilli size round fragments. - Frags have altered chl mafic phenos and sometimes vesicles. Bedding @ 15m ----- 70 Bedding @ 45m ----- 80 Bedding @ 70m ----- 75 80.0 - 83.8 More of a massive flow? with only the occasional lapilli. 83.8 - 91.0 Strong flooding by qtz carb veins + sericite alteration increasing. 93.6 - 111.9 Sericite alteration increases steadily.</p>		<p>- Matrix chl altered. - Lapilli sericite and carb. altered. - 5% qtz veinlets + Qtz-carb veinlets.</p>	<p>Tr - 1% dissem. py.                93.6 - 111.9 Py up to 5% dissem. 97.1 - 100m Milky white Quartz vein with 3% tet, 3% sphal.</p>	<p>29.6 - 32.8 Fault with broken rock and clay gouge with hematite on fract.                95.0 - 98.1 Fault with mechanical breccia with qtz chips. 102.3 - 114.7 Broad fault zone with 50% recovery in very broken rock.</p>
111.9 to 123.4	MAFIC TUFF WITH CHERT	<p>Colour - light green. Grain Size - fine grained. - Contact is in a fault zone with clay gouge. - Well laminated mafic tuff and chert with occasional chert frag. - Milky quartz veins increase 118 - 123.4m Bedding @ 115m ----- 80 Bedding @ 120m ----- 80</p>		<p>- Mafic tuff strongly sericite altered. - Strongly silicified. - 10% milky white quartz veins. - Occasional lamination is chl altered.</p>	<p>Avg. 5% dissem. py.</p>	



<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>
123.4 to 125.9	"SILVER ZONE" QUARTZ VEIN	Colour - light grey. Grain Size - aphanitic. - Milky white quartz vein with quartzite? frags. - Avgs. 8-10% sulphides.		- Sericite and rarely talc? on fract.	8-10% Sulphides avg. 3-4% in massive quartz vein, 15-20% in fault, 4% sphal, 3% tet, tr-1% cpy, 7-12% py.	Strong fault with clay + broken rock. 124.1 - 125.4m Only 50% recovery in fault.
125.9 to 129.6	MAFIC TUFF	Colour - light green. Grain Size - fine grained. - Fine grained mafic tuff with pyrite beds (syngenetic) 80% up to 15cm wide. - Finely laminated beds. Bedding @ 128m -----	85	- Intense sericite alteration.	Avg. 35% py as beds with minor dissem.	
129.6 to 146.3	"SILVER ZONE" QUARTZ VEIN	Colour - milky white. Grain Size - aphanitic. - Large milky white quartz vein with various textures.		129.6 - 133.0 5% light green mineral.	129.6 - 133.0 5% dissem. py, tr cpy, tr tet. 133.0 - 133.7 80% sulphides laminated, 40% py, 15% sphal, 20% Tet, 2-3% Gal. 133.7 - 137.2 8% Sulphides as blebs + dissem., 3% py, 2-3% cpy as coarse blebs (1-2cm), 1% Tet, tr sphal, gal. 137.2 - 138.1 8% dissem. py.	130.2 - 134.11 Strong Fault Zone with clay.
		137.2 - 138.1 Mafic tuff - sericite altered well laminated. Bedding + Foliation @ 137.5 ----- 138.1 - 142.0 Vein has sericite tuff frags, and frags of silicified quartzite?	85	133.7 - 137.2 Light green mineral, 3-5% in milky quartz vein and light orange mineral 1%.	138.1 - 142.0 Avg. approx. 10% Sulphides, 4% dissem. py, 2% cpy blebs, 2% sphal dark brown blebs to 4cm, 2% galena to 3cm blebs, tr tet. 142.0 - 142.7 30% Sulphides laminated, 5% py, 10-12% sphal, 12% tet, 2% cpy, 1% gal.	

<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>
				142.7 - 146.2 Sericite on fract.	142.7 - 146.2 10% Sulphides, fine grained dissem. + lam., 6% py, 2% sphal, 1% cpy, 1% tet.	
146.2 to 148.8 E.O.H.	MAFIC TUFF	Colour - light green. Grain Size - fine grained. Finely laminated mafic tuff with bands of chert and pyrite. Bedding @ -----	80	Mafic tuff intensely sericite altered. - 30% quartz veins milky white.	6-8% dissem. py.	

Hole No. RG-109

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5926	121.9	123.4	1.5				16.5	0.02			320	160	425			
BCD5927	123.4	124.6	1.2	2.21	3.26	1.57	2190	3.05						2.86	63.88	0.089
BCD5928	124.6	125.9	1.3	2.54	5.13	1.43	2710	2.09						2.94	79.04	0.061
BCD5929	125.9	127.4	1.5				30.2	0.09			290	183	265			
BCD5930	127.4	129.6	2.2				11.9	0.05			470	122	132			
BCD5931	129.6	131.1	1.5	0.006	0.07	0.02	4.2	0.08						2.94	0.12	0.002
BCD5932	131.1	132.9	1.8	0.513	0.19	0.07	520	1.04						2.82	15.17	0.03
BCD5933	132.9	133.7	0.8	2.13	8.65	6.53	1690	3.43						3.29	49.29	0.1
BCD5934	133.7	135.2	1.5	0.379	1.3	0.68	330	0.52						2.92	9.63	0.015
BCD5935	135.2	136.7	1.5	0.058	0.08	0.03	22.3	0.07						2.91	0.65	0.002
BCD5936	136.7	137.2	0.5	0.69	0.03	0.03	14	0.08						2.84	0.41	0.002
BCD5937	137.2	138.1	0.9				2.6	0.05			60	48	56			
BCD5938	138.1	139.5	1.4	0.5	0.02	0.02	24.3	0.17						2.87	0.71	0.005
BCD5939	139.5	141	1.5	0.109	2.9	2.5	162	0.34						2.86	4.73	0.01
BCD5940	141	142	1	0.098	0.87	3.58	178	0.21						2.89	5.19	0.006
BCD5941	142	142.7	0.7	0.79	6.2	4.72	780	1.43						2.99	22.75	0.042
BCD5942	142.7	144.2	1.5	0.081	0.48	0.36	54.2	0.19						2.72	1.58	0.006
BCD5943	144.2	145.2	1	0.172	0.65	0.18	75	0.3						2.82	2.19	0.009
BCD5944	145.2	146.2	1	0.071	1.02	0.91	81	0.34						2.84	2.36	0.01
BCD5945	146.2	147.7	1.5				2.5	0.06			42	56	43			
AVERAGE	123.4	125.9	2.5	2.38	4.23	1.5	2460	2.55						2.9	71.8	0.074
	131.1	135.2	4.1	0.78	2.25	1.55	679	1.31						2.95	19.8	0.038
	139.5	142.7	3.2	0.25	2.99	3.32	302.2	0.54						2.9	8.8	0.016

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-107	GRID	FIELD COORDS	LAT 99+00NW	DEP 5+79NE	ELEV 1515m	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 47.9m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	99+04.9	5+80.4	1513.5m	DATE STARTED DATE COMPLETED	CONTRACTOR CORE STORAGE	G&D CASING	Pulled

PURPOSE \_\_\_\_\_

ROD LOG x \_\_\_\_\_  
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
32.6	88°								

<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 3.35	CASING					
3.35 to 11.4	ALTERED MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - Highly broken with 50% milky white quartz veins. - Finely laminated tuff with chert bands. Bedding @ 8.5m -----	45	Mafic tuff highly sericite altered.	/ 5-10% dissem. py	50% recovery
11.4 to 19.2	QUARTZITE	Colour - light grey. Grain Size - medium grained. - Laminated quartzite with 1mm equigranular quartz grains. - Varying amount of mafic tuff in matrix usually weak, occasionally strong. Bedding @ 15m -----	45	Mafics sericite altered.	/ 2-3% dissem. py.	50% recovery
19.2 to 24.0	"SILVER ZONE" QUARTZ VEIN	Colour - white - black. Grain Size - fine grained. - Quartz vein hosted in the quartzite. - Milky white quartz vein. - Sulphides blebs or massive laminated.		Silicification. Sericite on fractures.	19.2 - 21.5 Milky white quartz vein with 1% Tet. 21.5 - 23.5 Some zones with massive sulphide finely laminated. 50% sphal, 15% cpy, 10% gal, 20% tet. 23.5 - 24.0 Milky quartz vein with tr tet.	40% recovery. Fault Zone with clay gouge. /20.4 - 20.6

<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>
24.0 to 25.6	QUARTZITE	Colour - light grey - light green. Grain Size - medium grained. Massive quartzite similar to unit above the "silver zone".		Matrix is sericite altered. A light green mineral throughout the rock: (Fuchsite or talc?)	/ 10% py as dissem. + stringers.	
25.6 to 36.8	CHERT + CHERT BRECCIA	Colour - light grey. Grain Size - aphanitic. Light grey chert with fine laminations of argillite. Occasionally pyrite frags. Often brecciated and bedding contorted with soft sed. features.		Occas. quartz veins.	/ 1-2% dissem. pyrite.	
36.8 to 47.85 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. Gradational contact with argillite gradually increasing. A fine grained muddy matrix with 50-60% py fine grained. Rounded - wispy fragments of argillite, chert, pyrite as well as chips of the same. Bedding @ 41.0m ----- 30 Bedding @ 47.8m ----- 45		None	/ 50% pyrite in matrix, fine grained. 5-10% pyrite fragments, pyrite is syngenetic.	

Hole No. RG-107

SAMPLE #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5851	19.2	21.5	2.3	0.109	1.91	0.03	76.5	0.21						2.73	2.23	0.006
BCD5852	21.5	23.5	2	4.18	37.4	4.12	2600	2.87						3.79	75.83	0.084
BCD5853	23.5	24	0.5	0.012	0.12	0.02	6.8	0.02						2.81	0.2	0.001
BCD5854	24	25.6	1.6				4	0.03			112	580	250			

# CORPORATION FALCONBRIDGE COPPER

x METRIC UNITS  
IMPERIAL UNITS

## DRILL HOLE RECORD

HOLE NUMBER RG-108	GRID	FIELD COORDS	LAT 99+35NW	DEP 6+13NE	ELEV 1505 (1502)	COLLAR BRNG 225°	COLLAR DIP 46°	HOLE SIZE NQ	FINAL DEPTH 47.9m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	99+35.5	6+16.6	1507.6m	DATE STARTED 13/5/87	DATE COMPLETED 13/5/87	CONTRACTOR G&D	CORE STORAGE CASING Pulled	
PURPOSE To test the down dip mineralization exposed in trench #5.								ROD LOG <input checked="" type="checkbox"/> 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	
29.6	50°			47m	216°	51°				
47.9	50°									

HOLE NO RG-108  
ZIPPY PRINT - BROOKFORD RICHMOND

LOGGED BY G. Evans



<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 7.0	CASING					
7.0 to 23.5	MAFIC TUFF WITH CHERT	Colour - light green Grain Size - fine grained - aphanitic. - Finely laminated mafic tuff (intense sericite alteration) with interbeds of chert and sometimes subrounded fragments of chert 1-5cm. - Occasional chl alteration tuffaceous lamination. Bedding @ 13m -----	60	Mafic tuff intensely sericite altered and some silicification. Some chl alteration of tuff. - Weathering on some fractures.	✓ 2-3% py as veinlets.	50% recovery
23.5 to 28.2	ARGILLITE	Colour - black. Grain Size - very fine grained. - A finely laminated cherty argillite with minor chert bands. Bedding @ 26m -----	80	- Some silicification by quartz veinlets.	/ Tr - 1% py.	40% recovery
28.2 to 35.7	QUARTZITE WITH MINOR TUFF	Colour - light green. Grain Size - fine-medium grained. - Contact with argillite gradational. - Generally a good medium grained quartzite with rounded quartz grains in a siliceous and occasional tuffaceous matrix. - Some units are fine grained with a stronger tuffaceous component. Bedding @ 30m -----	80	Mafic tuff strongly sericite altered. Occasional quartz veins.	Tr - 2% py.	40% recovery

<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>
35.7 to 39.2	"SILVER ZONE" QUARTZ VEIN	Colour - white - black. Grain Size - fine grained - massive. - A quartz vein with massive sulphide hosted in the quartzite. - Quartz vein milky white.		Silicification (with talc or fuchsite?).	35.7 - 39.0 80+% Sulphides, 2-3% py, 50+% sphal, 25% tet, 5% cpy, 1-2% galena. 39.0 - 39.2 Milky white quartz vein with 1% tet (talc or fuchsite).	20% recovery
39.2 to 47.4	ALTERED MAFIC TUFF WITH QUARTZITE	Colour - light green - light brown. Grain Size - very fine grained. A very fine grained rock probably mainly mafic tuff strongly altered to a massive almost aphanitic rock. - Some bands of altered tuffaceous rock and some fine grained quartzite beds? Bedding ? -----	50	Strong sericite alteration and silicification. - 5% quartz veinlets. - A light green mineral dissemin. (fuchsite).	- Tr-1% tet in quartz veinlets. - Avg. 5% py dissemin.	
47.4 to 47.9 E.O.H.	CHERT BRECCIA WITH ARGILLITE	Colour - light grey with black. Grain Size - aphanitic - fine grained. Laminated Chert 70% with argillite bands 30% and angular chips and subrounded 1-3cm fragments of chert. Bedding @ 47.5m -----	50	Some quartz veinlets.	Argillite contains approx. 40% py dissemin.	

Hole No. RG-108

SAMPLE #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5877	34.7	35.7	1				0.5	0.03			18	54	10			
BCD5878	35.7	37	1.3	13.9	11.95	15.3	33400	25.35						4.17	974.17	0.739
BCD5879	37	39	2	1.42	24.5	5.62	1320	2.76						3.5	38.5	0.081
BCD5880	39	39.2	0.2	0.015	0.11	0.06	22.4	0.05						2.87	0.65	0.001
BCD5881	39.2	40.7	1.5				2.6	0.06			62	140	134			
AVERAGE	35.7	39	3.3	6.34	19.56	9.43	13958	11.66						3.76	407	0.34

# CORPORATION FALCONBRIDGE COPPER

x METRIC UNITS  
IMPERIAL UNITS

## DRILL HOLE RECORD

HOLE NUMBER RG-110	GRID	FIELD COORDS	LAT 99+35NW	DEP 6+13NE	ELEV 1503m	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 66.1	
PROJECT PN 312	CLAIM # REA #1	SURVEY COORDS	99+35.5	6+16.6	1507.6m	DATE STARTED May 13/87	DATE COMPLETED May 14/87	CONTRACTOR G & D	CORE STORAGE CASING Pulled	
PURPOSE								ROD 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	
31.09	87°									
66.0	86°									

HOLE NO RG-110  
ZIPPY PRINT - BRIDGEPORT, RICHMOND

LOGGED BY G. Evans

<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 to 6.1	CASING					
6.1 to 22.7	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Finely laminated mafic tuff with chert beds and fragments. - Occasional 1-2cm rounded chert fragment. Bedding @ 13m -----	45	- Tuff is intensely sericite altered. - Some silicification by quartz veinlets. - Some chl alteration with py veinlets.	/ Avg. 10% py as veinlets with minor dissem. py.	Fault with sericite + clay gouge. / 22.6 - 22.7
22.7 to 28.3	ARGILLITE WITH QUARTZITE	Colour - medium grey. Grain Size - fine-medium grained. Top is a fault contact unit is finely laminated argillite with quartzite units. Bedding @ 24m -----	40	Some silicification by quartz veins.	/ 1-2% dissem. py	N.B. Argillite is not conductive.
28.3 to 30.2	QUARTZITE	Colour - light grey. Grain Size - medium grained. - Gradational contacts into argillite. - Equigranular quartz grains (1mm) in an argillite matrix. Bedding @ 30m -----	45	- N/A - - Some quartz veinlets.	/ 5% dissem. py.	
30.2 to 32.0	ARGILLITE WITH QUARTZITE	Colour - medium grey - black. Grain Size - fine grained. - Again gradational contacts with quartzite. - Finely laminated argillite with quartzite beds with an argillite matrix. Bedding @ 31m -----	45	- Some quartz veinlets.		N.B. Some argillite is 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>
32.0 to 41.4	QUARTZITE WITH MAFIC TUFF	Colour - light brown. Grain Size - medium grained. - Finely laminated quartzite with 1mm equigranular quartz grains. - Matrix contains sericite altered mafic tuff which steadily increases down the unit. - Frequent 2-3mm frags? of pyrite. Bedding @ 45m -----	45	- Mafic tuff strongly sericite altered. - 5% milky white quartz veins.	- 5% dissem. py. - Occasional py band, 80% py, 5cm. - Occasional milky quartz vein has tr tet.	
41.4 to 45.1	"SILVER ZONE" QUARTZ VEIN	Colour - milky white. Grain Size - aphanitic. - Massive milky white quartz vein with 15-18% sulphides as blebs. - Occasional strongly sericite altered wallrock frag + some zones appear to be silicified quartzite.		- Sericite alteration on fract.	15-18% Sulphides as coarse up to 3cm blebs & dissem. Avg. 2% py, 8% cpy, 3-4% sphal, 2-3% tet, tr gal.	
45.1 to 48.4	MAFIC TUFF WITH QUARTZITE	Colour - light green. Grain Size - fine-medium grained. Beds of altered mafic tuff mixed with quartzite (equigranular) with thin beds of frags of 80% py. - Pyrite frags rounded to 3cm. Bedding @ 47.6m -----	45	- Strong sericite alteration. - Occasional quartz veinlet.	- 2-3% dissem. - Occasional py bed up to 5cm with 80% py.	
48.4 to 51.0	"SILVER ZONE" QUARTZ VEIN	Colour - milky white. Grain Size - aphanitic. - 80% quartz vein hosted in mafic tuff + quartzite. - Vein has zones that appear mottled (silicified quartzite). - Some vuggy patches in vein (appear as frags).		Some sericite on fract. and light green mineral (talc?).	- 7-9% Sulphides ad dissem. + veinlets. - Sulphides decrease @ bottom 40% of vein. Avg. 2-3% cpy, 1-2% tet, 1-2% gal, 2% sphal.	

<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>
51.0 to 58.8	MAFIC TUFF WITH QUARTZITE	Colour - medium green. Grain Size - fine grained. - Finely laminated mafic tuff with beds of quartzite with a tuffaceous matrix. Bedding @ 55.2m -----	50	- Intense sericite alteration to mafic tuff. - Quartz veins (milky white) 20%. - Fault Zone 56.8 - 58.8 is silicified and has a light green mineral.	Avg. 5-8% py dissem. + stringer.	Strong fault zone 56.8 - 61.8 with broken rock 50% recovery and alteration with quartz veins.
58.8 to 66.1 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. An argillite-pyritic matrix contains rounded fragment .5 - 3cm of argillite, chert and pyrite in a slump breccia. Bedding @ 63m -----	45	Some silicification, 10% quartz veins.	- Matrix contains 50% fine grained syngenetic pyrite.	

Hole No. RG-110

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5916	39.9	41.4	1.5				2.2	0.04			27	56	22			
BCD5917	41.4	42.6	1.2	0.308	1.12	0.22	220	0.74						2.67	6.42	0.022
BCD5918	42.6	43.8	1.2	0.69	1.37	0.82	191	0.89						2.76	5.57	0.026
BCD5919	43.8	45.1	1.3	0.327	0.21	0.22	109.5	0.35						2.78	3.19	0.01
BCD5920	45.1	46.6	1.5				1.7	0.12			25	34	136			
BCD5921	46.6	48.4	1.8				4	0.15			99	200	60			
BCD5922	48.4	49.9	1.5	0.256	0.51	0.39	43.8	0.52						2.72	1.28	0.015
BCD5923	49.9	51	1.1	0.028	0.42	0.02	6.1	0.19						2.84	0.18	0.006
BCD5924	51	52.5	1.5				2	0.13			74	78	12			
BCD5925	56.8	58.8	2				1.4	0.04			46	130	10			
AVERAGE	41.4	43.8	2.4	0.499	1.24	0.52	205.5	0.82						2.72	5.99	0.024





<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 6.1	CASING					
6.1 to 31.0	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained to aphanitic. - Fine grained well laminated mafic tuff with interbeds of chert and chert frags (rounded 5mm - 2cm). - Occasionally matrix has an argillite component i.e. 20.4 - 21.2. Bedding @ 12m -----	60	- Strong hematite weath. on fract. 6.1 - 19.4. - 10% milky white quartz veins. - Large milky quartz vein 28.9 - 29.9 - Mafic tuff strongly sericite altered.	1-2% dissem. py with occasional py veinlet.	Fault with gouge + clay 29.9 - 30.0m
31.0 to 41.5	PYRITIC MUDSTONE	Colour - medium grey - brown. Grain Size - fine grained. - A mudstone with 40-60% fine grained pyrite in the matrix that is well laminated. - Occasional argillite band with only 1-2% py. - Ang. frags of argillite + chert 3-15mm. Bedding @ 37m -----	70	- Occasional quartz veinlet.	- Avg. 40-60% fine grained syngenetic pyrite.	
41.5 to 54.6	MAFIC TUFF WITH QUARTZITE	Colour - light green. Grain Size - fine - medium grained. - Well laminated fine grained mafic tuff. - Some beds of quartzite with 1-2mm equigranular quartz grains. - Mafic tuff has round pyrite frags 1-2cm. Bedding @ 45m -----	45	- Mafic tuff intensely sericite altered. - 15% milky white quartz veins.	- Avg. 5% py as frags + knots. - 45.1 - 46.1 A milky quartz vein with zones of silicified quartzite contains 5% py and tr-1% tet as blebs + fine grained dissem.	Fault with clay gouge 42.1 - 42.3m.

<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>
54.6 to 70.4	"SILVER ZONE" QUARTZ VEIN	Colour - milky white. Grain Size - aphanitic. - A large milky white quartz vein with zones of silicified quartzite. - Vuggy zones in the vein. - Some zones have quartz breccia with angular frags.		- Silicification with sericite on vein fract. - Talc or a light green mineral on fract. - Quartzite silicified.	Zone avgs. 1% py, 5-6% tet as veinlets + blebs, tr-1% gal. as blebs, 1% sphal lt., 2-3% cpy as coarse blebs 1-2cm. 54.6 - 60.2 relatively barren 60.2 - 68.8 High grade portion with zones of 20% tet. 68.8 - 70.0 Massive Sulphides well laminated (equiv. to RG-105).	Strong fault with rock ships 1-2mm 58.8 - 58.9. 54.6 - 57.6 have only 60% recovery, strong fault with gouge.
70.4 to 85.4	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. - A muddy fine grained pyritic matrix, 40% py with beds of chert + frags of chert, argillite and pyrite (slump breccia). Bedding @ 74.6m -----	60	- Some silicification.	40% fine grained py (syngenetic), tr sphal in silicified veinlets. 80.4 - 84.2 25% silicified zones with 10% sphal as blebs + veinlets, 2-3% galena, 2% tet, tr cpy.	Strong fault zone with clay gouge 70.4 - 72.5.
85.4 to 97.2	ARGILLITE	Colour - black. Grain Size - fine grained. Well laminated argillite with occasional 20cm pyrite bed (80% Py). N.B. some crossbedding indicates tops downhole. Bedding @ 92m -----	45	10% Quartz veins.	Avg. 5% dissem. py in argillite. 80% py in beds (40cm total).	Strong fault with clay gouge 95.6 - 96.6 with a quartz vein.
97.2 to 103.9 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. 97.2 - 99.2 Dominantly mafic tuff + chert but grades into a py-arg. matrix with beds of mafic tuff, chert and frags of chert and py. Bedding @ -----	45-60	Some silicification.	Avg. 10-15% dissem. py.	Strong fault with clay gouge 98.4 - 98.6 Large Fault zone 102.5 -

Hole No. RG-111

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5201	45.1	46.1	1	0.012	0.02	0.01	2.5	0.01						2.79	0.07	0.001
BCD5202	53.1	54.6	1.5				12.4	0.045			198	44	42			
BCD5203	54.6	56.1	1.5	0.02	0.01	0.01	10.2	0.01						2.75	0.3	0.001
BCD5204	56.1	57.6	1.5	0.03	0.01	0.01	15.8	0.01						2.75	0.46	0.001
BCD5205	57.6	59.1	1.5	0.09	0.02	0.04	120	0.15						2.81	3.5	0.004
BCD5206	59.1	60.6	1.5	0.705	1.68	0.12	715	1.18						2.82	20.85	0.034
BCD5207	60.6	62.1	1.5	0.241	0.27	0.04	252	0.23						2.78	7.35	0.007
BCD5208	62.1	63.6	1.5	0.55	0.4	0.02	187	0.18						2.73	5.45	0.005
BCD5209	63.6	65.1	1.5	0.72	0.86	0.64	590	0.58						2.92	17.21	0.017
BCD5210	65.1	66.6	1.5	0.6	1.34	0.59	660	1						2.87	19.25	0.029
BCD5211	66.6	68.1	1.5	0.542	0.36	0.04	650	1.01						2.76	18.96	0.029
BCD5212	68.1	69.6	1.5	1.37	0.76	0.06	1280	1.9						2.78	37.33	0.055
BCD5213	69.6	70.4	0.8	0.23	5.1	2.68	337	1.21						2.99	9.83	0.035
BCD5214	70.4	71.9	1.5				5.2	0.26			225	2100	1320			
BCD5215	80.4	81.9	1.5	0.19	1.82	0.76	42.8	0.22						3.01	1.25	0.006
BCD5216	81.9	83.1	1.2	0.058	0.26	0.18	16.3	0.24						2.96	0.48	0.007
BCD5217	83.1	84.2	1.1	0.135	2.51	0.58	57	0.23						3.07	1.66	0.007
AVERAGE	59.1	70.4	11.3	0.644	1.11	0.39	599.2	0.89						2.82	17.5	0.026



<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 to 3.0	CASING					
3.0 to 133.8	MAFIC PYRO- CLASTICS	Colour - medium green. Grain Size - fine grained. - Chl rich matrix with lapilli sized frags. - Lapilli monolithic with chl altered remnant mafic phenos. Bedding @ 23m ----- 80  - 28.7 - 31.0 Massive flow or tuff. Bedding @ 57.5m ----- 80  Bedding @ 86.0m ----- 80  112.1 - 133.8 Sericite alteration increases with 10% qtz-carb veinlets.	80  80  80	- Matrix chl altered - Lapilli sericite + carb. altered. - Weathering on fract.  3.0 - 14.5 5% qtz-carb veins + veinlets.	Generally 1-2% dissem. py.      121.3 - 133.8 Py increases as dissem. + veinlets 10-15%. 126.6 - 127.1 Quartz vein with 5% dissem. py with carb. 10% brown sphal as blebs, 3% galena, 1% tet.	Mod. fault zone 78.2-78.7 with broken rock + some clay.  Mod. faults @ 108.9 - 109.0 110.2 - 110.5 with broken rock + clay. Mod. fault with broken rock. 123.9 - 125.5

<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>
133.8 to 142.2	"MUDDY TUFF"	Colour - light black. Grain Size - fine grained. - Dominantly argillite breccia with argillite, py and chert in a slump breccia. Laminations highly contorted with soft sed. deformation. - 136.5 - 138.6 A mafic tuff rich zone. - Some mafic tuff in the matrix of the muddy tuff. Bedding @ 139m -----	75	Quartz veinlets.	5% py.	Strong faults with clay gouge @ 133.8 - 134.9 136.9 - 137.2 141.2 - 141.7 Intense clay altered fault starts @ 142.2 - cont'd.
142.2 to 156.1	MAJOR FAULT ZONE	Colour - light grey. Grain Size - fine grained. - Major shear zone with dominantly "Muddy Tuff". Quartz veins and mineralization as chips in a clay matrix. - A mechanical breccia. - Chips consist of argillite, mafic tuff, chert, pyrite, quartz vein.		- Clay is composed mainly of sericite. - 30+% quartz veins. <u>144.4 - 148.5</u> Sericite alteration + occasional light green mineral (taic?).	<u>142.2 - 144.4</u> Argillite + mafic tuff with 2-3% py. <u>144.4 - 148.5</u> Qtz vein with mottled "quartzite" text 1-2% lt sphal, 1% galena, approx. 10% tet as dissem. + blebs, some vein breccia. <u>148.5 - 148.9</u> Zone of laminated sulphides @ 45o to axis, 10% lt brown sphal, 20-25% tet. <u>148.9 - 156.1</u> Silicified muddy tuff, 30+% py, 2-3% lt brown sphal, 1-2% tet, tr cpy + gal.	
156.1 to 166.7 E.O.H.	"MUDDY TUFF"	Colour - light grey. Grain Size - fine grained. A well laminated cherty muddy tuff with some flattened chert frags in a pyritic matrix. Bedding @ 157m ----- Bedding @ 166m -----	80 70	Moderately silicified.	<u>156.1 - 163.7</u> Silicified muddy tuff with 30% fine grained syng. py, 2-3% lt brown sphal, 1-2% tet, tr gal. 158.0 - 158.3 Zone has 2-3% cpy. <u>163.7 - 165.7</u> 15-20% fine grained syng. py.	Faults with clay gouge @ 160.9 - 161.3 163.3 - 164.3 165.3 - 166.4 + broken rock.

Hole No. RG-112

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5951	126.6	127.1	0.5	0.12	2.16	1.63	11.8	0.04						2.98	0.34	0.001
BCD5952	142.9	144.4	1.5				6.9	0.01			74	146	52			
BCD5953	144.4	145.9	1.5	1.4	0.46	0.02	1490	2.23						2.69	43.46	0.065
BCD5954	145.9	147.4	1.5	1.43	1.31	0.2	1580	1.86						2.72	46.08	0.054
BCD5955	147.4	148.5	1.1	1.32	1.1	0.3	1445	1.6						2.7	42.15	0.047
BCD5956	148.5	148.9	0.4	1.82	6.78	3.37	1990	1.72						2.99	58.04	0.05
BCD5957	148.9	150.4	1.5	0.49	3.84	2.5	442	0.88						2.89	12.89	0.026
BCD5958	150.4	151.9	1.5	0.284	2.56	1.45	211	0.55						2.84	6.15	0.016
BCD5959	151.9	153.4	1.5	0.151	1.42	0.63	118.5	0.42						2.82	3.46	0.012
BCD5960	153.4	154.9	1.5	0.04	0.57	0.33	24.24	0.37						2.81	0.71	0.011
BCD5961	154.9	156.1	1.2	0.173	3.79	2.12	209.5	0.64						2.96	6.11	0.019
BCD5962	156.1	157.6	1.5	0.054	1.1	0.54	36	0.43						2.94	1.05	0.013
BCD5963	157.6	159.1	1.5	0.465	1	0.62	184.5	0.68						2.94	5.38	0.02
BCD5964	159.1	160.6	1.5	0.035	0.93	0.41	34	0.42						2.92	0.99	0.012
BCD5965	160.6	162.1	1.5	0.062	3	1.92	89.5	0.46						3.07	2.61	0.013
BCD5966	162.1	163.7	1.6	0.29	0.84	0.39	65.4	0.48						2.89	1.91	0.014
BCD5967	163.7	165.2	1.5				11.8	0.18			156	220	335			
AVERAGE	144.4	148.9	4.5	1.43	1.46	0.45	1553	1.91						2.73	45.3	0.056
	144.4	151.9	7.5	1.01	2.16	1.06	1063	1.43						2.78	31	0.042
	154.9	156.1	1.2	0.173	3.79	2.12	209.5	0.64						2.96	6.11	0.019
	157.6	159.1	1.5	0.465	1	0.62	184.5	0.68						2.94	5.38	0.02



### CORPORATION FALCONBRIDGE COPPER

#### DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-113	GRID	FIELD COORDS	LAT 99+75NW	DEP 6+31NE	ELEV 1497m	COLLAR BRNG	COLLAR DIP 90°	HOLE SIZE NQ	FINAL DEPTH 72.2m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	99+74.1	6+31.6	1500.3m	DATE STARTED DATE COMPLETED	CONTRACTOR CORE STORAGE G & D CASING Pulled		
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
								COLLAR SURVEY	MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
40.2	90°								
72.24	89°								

HOLE NO RG-113  
ZIPPY PRINT - BR DRILLPORT HELIX 200

LOGGED BY G. Evans

<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 18.3	CASING					
18.3 to 20.9	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. Finely laminated mafic tuff with chert frags 1-2cm subrounded. - N.B. loading suggests tops downhole. Bedding @ 18.6m -----	45	Mafic tuff sericite altered. Some silicification by quartz veins.	Avg. 10% dissem. py in quartz veins.	
20.9 to 34.5	ARGILLITE + QUARTZITE	Colour - light grey. Grain Size - fine-medium grained. - Finely laminated argillite beds interbedded with medium grained coarse-massive quartzite beds. - Occasional syng. py bed and round pyrite frags. - Quartzite equigranular qtz grains with chips of argillite and larger qtz grains. Bedding @ 24.8 ----- Foliation parallel to bedding.	45	24.1 - 24.6 Bull milky white quartz vein.	8% py beds + frags (fine grained syngenetic).	N.B. Some graphite in the argillite that is weakly conductive.
34.5 to 53.5	MAFIC TUFF + QUARTZITE	Colour - light green. Grain Size - fine-medium grained. Finely laminated mafic tuff with massive beds of quartzite with equigranular quartz grained and occasional argillite chip. - 50% late stage milky quartz veins with mineralization. - Some round syngenetic pyrite frags. and occasional py bed. Bedding.		Mafic tuff sericite altered.  Some frags in the quartz vein appears to be silicified quartzite. - a pink mineral (barite?) in quartz vein 49.5 - 50.0	Avg. 10% dissem. py with beds of 80% py. Quartz veins contain blebs of mineralization, 1% blackjack sphal, 1% tet, tr gal. 36.7 - 55.0	Strong fault zone with clay + mechanical breccia + quartz veins. 54.2 - 60.1

<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>
58.5 to 72.2 E.O.H.	MUDDY TUFF	Colour - medium grey. Grain Size - fine grained. - Contact is a strong fault zone. - A argillite-pyritic matrix finely laminated with frags .5-5cm of chert, argillite and pyrite (a slump breccia). Bedding @ 60.3m ----- Bedding @ 72.0m -----	45 30	58.5 - 59.8 in fault zone clay quartz veins + light green mineral (talc?). Quartz veins around clay altered fault 63.9 - 64.8.	30-40% fine grained syngenetic py as beds of frags 64.3 - 64.6.	Fault zone with clay gouge.

Hole No. RG-113

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5968	36.4	37.9	1.5	0.034	0.1	0.01	24.6	0.34						2.92	0.72	0.01
BCD5969	37.9	39.4	1.5	0.076	0.5	0.01	102	0.21						2.78	2.98	0.006
BCD5970	39.4	40.9	1.5	0.007	0.02	0.01	12	0.02						2.73	0.35	0.001
BCD5971	40.9	42.4	1.5				4.3	0.065			42	43	41			
BCD5972	42.4	43.9	1.5				7.1	0.08			57	3720	750			
BCD5973	43.9	45.4	1.5	0.017	0.03	0.01	14.3	0.05						2.94	0.42	0.001
BCD5974	45.4	46.9	1.5	0.013	0.02	0.12	14.2	0.01						2.81	0.41	0.001
BCD5975	46.9	48.4	1.5	0.02	0.84	0.04	14.3	0.01						2.82	0.42	0.001
BCD5976	48.4	49.9	1.5	0.005	0.02	0.01	5.4	0.04						2.94	0.16	0.001
BCD5977	49.9	51.4	1.5	0.009	0.15	0.03	6.6	0.04						2.86	0.19	0.001
BCD5978	51.4	52.9	1.5	0.007	0.05	0.07	2.2	0.02						3.09	0.06	0.001
BCD5979	52.9	54.4	1.5	0.01	0.11	0.05	4.1	0.07						2.92	0.12	0.002
BCD5980	54.4	55.9	1.5	0.028	0.3	0.09	9.8	0.1						2.87	0.29	0.003
BCD5981	58.5	59.8	1.3				2.3	0.03			45	320	40			

## CORPORATION FALCONBRIDGE COPPER

### DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-114	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 41.8m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	99+75.8	6+00.0	1491.6m	DATE STARTED May 18/87	DATE COMPLETED May 19/87	CONTRACTOR G & D	CORE STORAGE CASING Pulled	
PURPOSE								ROD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
41.8	86°									

HOLE NO RG-114  
ZIPPY PRINT - BRITISH REPORTING METHOD

LOGGED BY I. D. Pirie

<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 15.5	CASING					
15.5 to 18.4 (approx)	QUARTZITE	Colour - grey. Grain Size - fine grained. Granular quartz in sericitic matrix becoming increasingly sericitic downhole.		Moderate sericite becoming strong downhole.	2% py.	50% recovery
18.4 to 22.4	QUARTZ VEIN (MINERALIZED)	Colour - white Grain Size - aphanitic. Badly broken up quartz vein with wallrock inclusions and sulphides.		Local green mica.	Pods of sphalerite (blackjack) with galena and tetrahedrite mainly in first 2m. (3% sp, 2% gn, 1% tet).	40% recovery
22.4 to 23.5	SERICITIC TUFF	Colour - greeny grey. Grain Size - fine grained. Sericitic mafic tuff with quartz knots.		Moderate sericite.	5% py.	
23.5 to 29 (approx)	"MUDDY TUFF"	Colour - grey. Grain Size - fine grained. Initially very gougey with core angles close to axis ----- Then becomes slightly cherty (silica flooded) until 28.5 where it is gougey again. @ 27.5m -----	20      60	Intense clay/sericite.  Chertiness probably silica flooding.	5% py throughout.  1% tet-sp in silica flooded zone.	
29.0 to 30.5	QUARTZ VEIN	Colour - white. Grain Size - aphanitic. Quartz vein with clay gouge. Minor graphite near lower contact.			Nil	

<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>
30.5 to 32.7	CHERT AND ARGILLITE	Colour - light grey - black. Grain Size - aphanitic. Bedded pure grey chert with argillite laminae. Abundant quartz veining. Quite deformed with core angles from 20-70o.	20-70		2-3% py, usually in specific (argillite) beds.	
32.7 to 35.7	FAULT GOUGE WITH QUARTZ	Grey muddy fault gouge with abundant white quartz, locally healed breccia.				
35.7 to 41.8 E.O.H.	MUDDY TUFF	Colour - grey. Grain Size - fine grained. Fairly typical debris flow with mainly chert frags and local argillite beds. Moderate to strong foliation.	60		10-20% py. Locally increasing to 50% or more.	

Hole No. RG-114

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5987	18.4	20.5	2.1	0.221	2.85	1.04	298	0.2						2.81	8.69	0.006
BCD5988	20.5	22.4	1.9	0.006	0.04	0.01	2.7	0.01						2.81	0.08	0.001
BCD5989	26.9	28.4	1.5	0.013	0.02	0.01	8.2	0.02							0.24	0.001



# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-115	GRID	FIELD COORDS	LAT 97+32	DEP 6+85	ELEV 1618	COLLAR BRNG 202°	COLLAR DIP -72°	HOLE SIZE NQ	FINAL DEPTH 195.4m	
PROJECT PN 312	CLAIM #	SURVEY COORDS	97+38.7	6+95.1	1617.1m	DATE STARTED May 19/87	CONTRACTOR G & D			
PURPOSE							DATE COMPLETED May 21/87	CORE STORAGE		CASING
								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
34.14	70°			126.5	186°	-72°				
89.61	69°			184.4	182°	-72°				
144.78	69°									
184.71	69°									

HOLE NO RG-115  
 ZIPPY PRINT - BRIDGEPORT, BC, CANADA

LOGGED BY G. Evans

<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 3.1	CASING					
3.1 to 106.1	MAFIC PYRO-CLASTICS	<p>Colour - medium green.            Grain Size - fine grained.            Lapilli size fragments in a fine grained chl altered matrix with lapilli monolithic with remnant mafic phenos chl altered.            17.4 - 26.2            Tuffaceous section with occasional lapilli, rare lapilli has qtz filled vesicle.            Bedding @ 37.5m ----- 45            Bedding @ 50m ----- 60            Bedding @ 80m ----- 50            97.8 - 106.1            Sericite + quartz alteration increases in fault zone.</p>		<p>Matrix chl altered. Lapilli sericite and carb. altered. 5% qtz +/- carb veins.            - Weathering on fract. to 13.4</p>	<p>/ - Generally tr disse. py.            - Occasional py veinlet associated with quartz vein.</p> <p>97.8 - 106.1            Py increases to 5% in zone.</p>	<p>Fault with gouge 66.9 - 67.3.            Strong fault with clay gouge 68.9 - 70.8.            Moderate fault zone with clay gouge 85.3 - 88.1.            Strong fault zone 98.4 - 110.5 with clay gouge and ang. qtz vein frags.</p>
106.1 to 146.2	MAFIC TUFF WITH CHERT	<p>Colour - light green.            Grain Size - fine grained - aphanitic.            Well laminated mafic tuff with chert beds + frags.            - Variolites? in some tuff bands.            - Some (lapilli or tuff frags?) in certain zones (ghosting).            Bedding @ 117.4m ----- 70            142.9 - 143.9            Matrix is dominantly argillite (confirms sed. nature).            Bedding @ 143.2m ----- 60</p>		<p>Mafic tuff strongly sericite altered with 10% qtz +/- carb veinlets.</p>	<p>/ Avg. 10% disse. py 124.2 - 124.4            Quartz veins with 10% cpv, 5% sphal (lt), 5% gal, tr tet.            140.1 - 140.15            Quartz vein with 5% sphal, 3% gal, tr tet.</p> <p>/ 145.3 - 146.2            Syngenetic pyrite increases in the matrix with occasional 5cm 80% py bed otherwise 30% py.</p>	

<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>
146.2 to 190.1	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. - A slump breccia with a muddy-pyritic matrix 30-40% py with beds + frags of argillite, chert and py. 146.2 - 154.5 Quite chert rich zone with buff + grey chert. Bedding @ 150m ----- 50 154.5 - 190.1 More argillite with 40% py with occasional py bed. Bedding @ 170m ----- 65 Bedding @ 190m ----- 60		Some silicification by quartz veinlets.	<u>146.2 - 154.4</u> Tr sphal as disseem. (lt colored, 15-20% syng. fine grained py. <u>154.5 - 164.2</u> 40% py silicified zones 1-10cm with mineraliza- tion avg. over width (5% vol). 2% sphal, 1% gal, tr-1% tet. <u>164.4 - 165.1</u> 60% silicified with avg. of 10% sphal, 5-7% Tet, 3-4% galena. <u>165.1 - 171.0</u> 10% silicified zones with avg. over width 2-3% sphal, 1-2% gal, tr tet. <u>171.0 - 178.7</u> Tr sphal, 30+% py. <u>178.7 - 184.9</u> 30% silicified, 5-3% lt. sphal, 2-3% gal, 1% tet, tr cpy (occasional milky white quartz vein with 5% gal). <u>189.1 - 190.0</u> Milky quartz vein with 30% py, 1-2% galena, 1% sphal, tr tet.	Fault zone with clay gouge + 60% py 165.1 - 166.0. <u>184.5 - 184.7</u> Fault with clay gouge.

<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>
190.1 to 195.4 E.O.H.	MUDSTONE	Colour - light grey. Grain Size - fine grained. Well laminated mudstone with a mafic tuff component(?). Bedding @ 192m -----	45	Rare milky white quartz vein. Mafic tuff? Sericite altered.	2% py veinlets.	

Hole No. RG-115

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5179	153	154.5	1.5				12.5	0.05			425	2500	1420			
BCD5180	154.5	156	1.5	0.392	0.81	0.68	106	0.07						2.94	3.09	0.002
BCD5181	156	157.5	1.5	0.16	0.21	0.23	40.7	0.12						2.94	1.19	0.004
BCD5182	157.5	159	1.5	0.138	0.65	0.72	38.3	0.06						2.87	1.12	0.002
BCD5183	159	160.5	1.5	0.051	0.19	0.12	12.2	0.15						2.99	0.36	0.004
BCD5184	160.5	162	1.5	0.34	0.66	0.34	104	0.2						2.89	3.03	0.006
BCD5185	162	163.5	1.5	0.413	0.28	0.28	110	0.24						2.92	3.21	0.007
BCD5186	163.5	165	1.5	0.192	2.1	1.36	137	0.64						3.16	4	0.019
BCD5187	165	166.5	1.5	0.026	0.53	0.2	15.2	0.45						3.33	0.44	0.013
BCD5188	166.5	168	1.5	0.014	0.18	0.13	9.9	0.25						2.98	0.29	0.007
BCD5189	168	169.5	1.5	0.02	0.06	0.12	15.8	0.4						2.94	0.46	0.012
BCD5190	169.5	171	1.5	0.008	0.7	0.13	12	0.23						2.96	0.35	0.007
BCD5191	171	172.5	1.5				32	0.095			380	5000	3950			
BCD5192	178.7	180.2	1.5	0.072	0.29	0.28	38.4	0.26						3.05	1.12	0.008
BCD5193	180.2	181.7	1.5	0.044	1.7	0.8	29.6	0.58						3.09	0.86	0.017
BCD5194	181.7	183.2	1.5	0.013	0.37	0.33	32	0.64						2.98	0.93	0.019
BCD5195	183.2	184.9	1.7	0.133	1.02	1.85	39.7	0.06						3.09	1.16	0.002
BCD5196	188.1	190	1.9	0.004	0.13	0.31	4.3	0.12						2.91	0.13	0.004
Averages	154.5	165	10.5	0.24	0.7	0.53	78.3	0.21						2.96	2.28	0.006

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-116	GRID	FIELD COORDS	LAT 100+07NW	DEP 6+44NE	ELEV 1482.6m	COLLAR BRNG.	COLLAR DIP -90°	HOLE SIZE NO	FINAL DEPTH 75.0m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	100+18.9	6+45.7	1482.6m	DATE STARTED May 19, 1987	DATE COMPLETED May 20/87	CONTRACTOR G & D	CORE STORAGE CASING Pulled
PURPOSE								ROD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
46.3	90°								
74.9	89°								

HOLE NO RG-116  
ZIPPY PRINT FROM REPORT REFERENCE

LOGGED BY G. Evans

<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 12.2	CASING					
12.2 to 37.9	QUARTZITE + ARGILLITE	<p>Colour - light grey - black.</p> <p>Grain Size - medium - fine grained.</p> <p>- Medium grained quartzite with an argillite matrix interbedded with argillite beds that are fine grained.</p> <p>- Some argillite quite graphitic + mod. conductive.</p> <p>- Quartzite has equigranular 1mm qtz grains.</p> <p>Bedding parallel to foliation @ 25m</p>	45	<p>- Hematite on fract. 5.5 - 17.8.</p> <p>- Occasional milky white quartz vein + veinlet.</p>	Tr - 1% dissem. py.	60% recovery
37.9 to 41.8	QUARTZITE	<p>Colour - light grey.</p> <p>Grain Size - medium grained.</p> <p>- Gradational contact with argillite gradually decreasing.</p> <p>- Equigranular qtz grains (1mm) in a fine grained matrix with mafic tuff.</p> <p>- Occasional 2-3mm qtz grains and black argillite? chip.</p> <p>Bedding @ 38m -----</p>	45	- Mafic tuff sericite altered.	<p>1% dissem. py</p> <p>39.8 - 41.8</p> <p>5% dissem. py.</p>	Fault with clay gouge 41.6 - 41.8
41.8 to 44.2	"SILVER ZONE" QUARTZ VEIN	<p>Colour - milky white.</p> <p>Grain Size - aphanitic.</p> <p>- Massive milky white quartz vein with 5% blebs of sulphides.</p>		Silicification.	<p>5% sulphides as blebs.</p> <p>2% brown sphal, 2% tet, tr cpy.</p>	70% recovery

<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>
44.2 to 69.8	QUARTZITE	<p>Colour - light grey.            Grain Size - fine-medium grained.            - Generally massive rock with a weak mafic tuff component in the matrix.            - Occasional fine grained unit with laminations.            Bedding @ 60.4m -----            - 69.7 chert fragments (rounded 2cm) appear + occas. argillite frag            65.8 - 69.8.</p>	45	<p>- Some silicification by quartz veins.            - Sericite strong in mafic tuff but decreases down the unit.            65.8 - 68.0            Strongly silicified zone with a light green mineral (talc).</p>	<p>Avg. 8% py dissem. + veinlets.             65.8 - 68.0            15% dissem. py.</p>	<p>Fault zone with clay gouge 44.7 - 44.8.            Fault zone with clay gouge 50.2 - 52.8.            50% recovery</p>
69.8 to 75.0 E.O.H.	"MUDDY TUFF"	<p>Colour - light grey.            Grain Size - fine grained - aphanitic.            - Dominantly a chert with 30% argillite and 5% mafic tuff.            - Often a slump breccia with sub-angular - angular chert frags and rarely py frags.            Bedding @ 71.9m -----</p>	45	<p>- Mafics sericite altered.            - 20% milky quartz veins.</p>	<p>- Argillite contains 15% fine grained py + occasional py frag.</p>	



Hole No. RG-116

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5946	40.3	41.8	1.5				1.6	0.05			15	58	4			
BCD5947	41.8	43	1.2	0.039	0.08	0.02	15.6	0.06						2.7	0.46	0.002
BCD5948	43	44.2	1.2	0.14	3.79	0.01	63.2	0.11						2.78	1.84	0.003
BCD5949	44.2	45.7	1.5				3.4	0.035			205	230	1500			
BCD5950	65.8	68	2.2				10.4	0.055			295	420	340			

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-117	SPID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG 225°	COLLAR DIP -55°	HOLE SIZE NQ	FINAL DEPTH 66.1m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	100+18.9	6+45.7	1482.6m	DATE STARTED May 21/87 DATE COMPLETED May 21/87	CONTRACTOR G & D CORE STORAGE CASING Pulled		
PURPOSE								ROD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
46.3	53°			54.9	223°	-52°			
66.1	52°								

HOLE NO RG-117  
ZIPPY PRINT - - BRIDGEPORT RICHMOND

LOGGED BY I.D. Pirie

<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 13.7	CASING					
13.7 to 14.3	BOULDERS					
14.3 to 20	QUARTZITE	Colour - grey. Grain Size - fine-medium grained. Homogeneous, granular quartz grains with sericite matrix and black flecks of argillite.			Trace py.	25% recovery.
20 to 22.5	MAFIC TUFF WITH CHERT	Colour - buff. Grain Size - fine grained. Schistose sericitic material with quartz (chert?) bands. Includes a 10cm bed of pyritic muddy tuff.	85	Intense sericite alteration to the mafic tuff.	5% py except for 10cm of 35% py with tr sp in muddy tuff.	20% recovery.
22.5 to 32.6	QUARTZITE/SILTSTONE	Colour - grey. Grain Size - fine-medium grained. Includes a few grey-blue quartz grains in the first few cms. Rare fine argillite laminae.	85	Minor sericite in matrix to quartz grains.  29.6 - 32.6 Silica flooding.	1-2% dissem. py.  5% py locally increasing to 15%.	
32.6 to 35	SERICITIC SEDIMENTS	Colour - buff & grey. Grain Size - fine grained. Mudstone and siltstone with a strong sericitic component (poss. tuffaceous). Very sharp boundaries between sericitic and non-sericitic. Some quartzite component.	80	Sericite alteration	5% py both disseminated and in quartz veinlets.	25% recovery.

<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>
35 to 37.5 (approx. only)	QUARTZ VEIN	Colour - white. Grain Size - aphanitic. White bull quartz with gouge and wallrock fragments. Badly ground.			2% 'blackjack' sp, 2% gn in small patches in quartz.	20% recovery.
37.5 to 66.1 E.O.H.	MUDDY TUFF	Colour - grey. Grain Size - fine-coarse grained. Quite coarse quartzite debris flow initially, becoming finer downhole. Strongly foliated. <u>46.3 - 46.4</u> Dark, slightly cherty pyritic argillite bed.  <u>47.5 - 54.5</u> More heterogenous with argillitic beds, quartz veins and gougey zones. <u>54.5 - 66.1</u> Typical fine pyritic debris flow. More homogeneous but still strongly foliated.	80          80	Some sericite.	5-10% dissem. py. <u>43.1 - 44.0</u> 3% sp, 3% gn, 2% tet in quartz veinlets in muddy tuff. <u>46.3 - 46.4</u> 25% py.   Argillite beds generally pyritic. 20-25% fine pyrite throughout.	

Hole No. RG-117

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5982	35	38.7	3.7	0.21	0.4	0.08	190	0.18						2.79	5.54	0.005
BCD5983	38.7	41.2	2.5	0.01	0.02	0.14	6	0.1						2.94	0.18	0.003
BCD5984	41.2	43.1	1.9	0.008	0.01	0.01	2.3	0.02						2.98	0.07	0.001
BCD5985	43.1	44	0.9	0.156	2.63	1.5	212	0.36						3.04	6.18	0.011
BCD5986	44	45.5	1.5	0.011	0.01	0.05	7.6	0.06						2.86	0.22	0.002

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-118	GRID	FIELD COORDS	LAT 97+32	DEP 6+85	ELEV 1618	COLLAR BRNG 193°	COLLAR DIP -80°	HOLE SIZE NO	FINAL DEPTH 209.1m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	97+38.7	6+95.1	1617.1m	DATE STARTED May 22/87	DATE COMPLETED May 23/87	CONTRACTOR CORE STORAGE	G & D CASING Pulled	
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	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	
28.04	79°			207	200°	-76°				
111.6	79°									
163.3	75°									
203.0	76°									

HOLE NO RG-118  
ZIPPY PRINT BRIDGEPORT RICHMOND

LOGGED BY I. D. Pirie

<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>
147.8 to 148.8	CHERTY ARGILLITE	Colour - black. Grain Size - aphanitic. Broken and gouged, probably in fault contact with mafics. Black somewhat cherty argillite with minor quartz.	75			
148.8 to 209.1 E.O.H.	MUDDY TUFF	Colour - grey. Grain Size - fine grained. <u>148.8 - 149.1</u> Cherty beds @ ----- <u>149.1 - E.O.H.</u> Homogeneous, competent muddy tuff with vague cherty beds. Local argillitic laminae.	75	Zones of silica flooding accompany sulphides.	10-15% py except as noted. <u>152.3 - 154.0</u> 4% tet, 2% sp with quartz in silica flooded zones. <u>154.0 - 161.2</u> 1-2% sp, 1% tet, <1% gn. <u>161.2 - 162.8</u> 4% sp, 2% tet, 2% gn. <u>162.8 - 169.6</u> 1% sp, 1% tet, 1% gn in evenly spaced zones.  <u>169.6 - 174.0</u> 4% sp, 3% gn, 3% tet in strong silica flooding. <u>174.0 - 181.1</u> 1% sp, 1% gn, 1% tet in regular zones. <u>181.1 - 182.65</u> 25% py, 10% sp, 5% gn, 5% tet. <u>182.65 - 187.8</u> 1% sp, 1% tet, 1% gn. <u>187.8 - 191.95</u> 20% py, 5% sp, 5% gn, 4% tet. <u>191.95 - 199.0</u> 1% tet, 1% sp, 1% gn.	

Hole No. RG-118

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5990	152.3	154	1.7	0.39	0.41	0.39	84	0.08						2.86	2.45	0.002
BCD5991	154	156	2				0.4	0.03			86	129	137			
BCD5992	156	158.2	2.2	0.011	0.03	0.02	2.5	0.05						2.86	0.07	0.001
BCD5993	158.2	159.7	1.5	0.013	0.04	0.02	2.4	0.07						2.92	0.07	0.002
BCD5994	159.7	161.2	1.5	0.047	0.11	0.1	10.2	0.12						2.89	0.3	0.004
BCD5995	161.2	162.8	1.6	0.13	2.4	1.16	29.8	0.2						3.16	0.87	0.006
BCD5996	162.8	163.7	0.9	0.009	0.12	0.38	4.8	0.14						3.03	0.14	0.004
BCD5997	163.7	165.1	1.4	0.059	0.27	0.3	12.5	0.18						3.01	0.36	0.005
BCD5998	165.1	166.6	1.5	0.126	0.28	0.41	23.2	0.34						3.05	0.68	0.01
BCD5999	166.6	168.1	1.5	0.063	0.81	0.35	16.2	0.19						2.94	0.47	0.006
BCD6000	168.1	169.6	1.5	0.268	0.58	0.9	70.2	0.22						3.03	2.05	0.006
BCD5151	169.6	171.1	1.5	0.011	0.51	0.62	8.4	0.17						2.91	0.25	0.005
BCD5162	171.1	172.7	1.6	0.635	1.08	2.1	192	0.24						3.21	5.6	0.007
BCD5153	172.7	174	1.3	0.312	2.45	0.83	118	0.22						3.13	3.44	0.006
BCD5154	174	175.3	1.3	0.008	0.01	0.03	2.4	0.1							0.07	0.003
BCD5155	175.3	176.6	1.3	0.009	0.19	0.11	7.2	0.28							0.21	0.008
BCD5166	176.6	178.1	1.5	0.028	0.18	0.14	12	0.4							0.35	0.012
BCD5157	178.1	179.6	1.5	0.017	0.02	0.07	10	0.21							0.29	0.006
BCD5158	179.6	181.1	1.5	0.006	0.03	0.12	2.1	0.09						2.98	0.06	0.003
BCD5159	181.1	182.65	1.55	0.052	2.84	1.02	16.8	0.08						3.21	0.49	0.002
BCD5160	182.65	184.7	2.05	0.009	0.04	0.12	2	0.17						2.99	0.06	0.005
BCD5161	184.7	186.2	1.5	0.026	0.18	0.28	6	0.2							0.18	0.006
BCD5162	186.2	187.8	1.6	0.071	0.39	0.63	18.2	0.38							0.53	0.011
BCD5163	187.8	189.3	1.5	0.073	0.3	0.2	24	0.12						3.21	0.7	0.004
BCD5164	189.3	190.55	1.25	0.061	2.68	1.39	32	0.21						3.25	0.93	0.006
BCD5165	190.55	191.95	1.4	0.09	3.35	0.7	24.2	0.35						3.25	0.71	0.01
BCD5166	191.95	192.95	1	0.078	0.5	0.25	30.1	0.34						3.07	0.88	0.01
AVERAGE	171.1	174	2.9	0.49	1.69	1.53	158.8	0.23						3.17	4.63	0.007



# CORPORATION FALCONBRIDGE COPPER

x METRIC UNITS  
IMPERIAL UNITS

## DRILL HOLE RECORD

HOLE NUMBER RG-119	GRID	FIELD COORDS	LAT.	DEP.	ELEV	COLLAR BRNG 225°	COLLAR DIP -76°	HOLE SIZE NO	FINAL DEPTH 279.5m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	96+70.2NW	7+63.3NE	1675.7m	DATE STARTED: May 22/87 DATE COMPLETED: May 26/87	CONTRACTOR G & D CORE STORAGE CASING Pulled			
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
47.9	76°			214.0	220°	74°				
89.6	73°			278.0	217°	72°				
185.0	70°									
252.1	72°									
279.5	72°									

HOLE NO RG-119  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 3.1	CASING					
3.1 to 233.1	MAFIC PYRO- CLASTICS	<p>Colour - medium green.            Grain Size - fine grained.            - A fine grained matrix with lapilli.            - Lapilli have remnant mafic phenos and quartz filled vesicles and often have quartz filled amygdules.            - Also common are beds of leucoxene and as well as in lapilli.            - Lapilli rounded + flattened to sub-angular.</p> <p>Bedding @ 7m ----- 70            Bedding @ 59m ----- 70            Bedding @ 89m ----- 65            Bedding @ 133m ----- 70            Bedding @ 167m ----- 65</p> <p>Bedding @ 215m ----- 80</p>		<p>Matrix strongly chl altered.            Lapilli sericite altered.            - 5% quartz +/- carb. veinlets.  <u>22.5 - 29.0</u>            Silicified + sericite altered zone with 10% py.  <u>38.5 - 40.9</u>            Large quartz vein with chl + talc alteration + a fine grained black mineral, 20% (Sulphide?).  <u>89.4 - 93.8</u>            Quartz + sericite alteration with 5-10% py.  <u>105.1 - 107.3</u>            Quartz + sericite alteration with 5% py.</p> <p><u>180.0 - 186.5</u>            A zone with strong quartz-sericite alteration.  <u>197.0 - 226.7</u>            Sericite alteration steadily increases down the hole.  <u>226.7 - 233.1</u>            Sericite alteration becomes intense.</p>	<p>Background tr dissem. py.  <u>22.5 - 29.0</u>            10% py dissem.  <u>89.4 - 93.8</u>            5-10% py dissem.  <u>105.1 - 107.3</u>            5% py dissem.  <u>127.5</u>            Quartz veinlet with 2% gal, 1% cpy.  <u>160.5</u>            5cm Quartz Vein with 5% py, 1% cpy dissem.</p> <p><u>180.0 - 186.5</u>            10% py.            Quartz stringers carry dissem. gal, cpy, sp, tet dissem.            Avg. over width, 1% gal, .5% cpy, tr sp (lt), tet.</p>	<p><u>27.5 - 28.0</u>            Intense fault with sand gouge.  <u>89.6 - 90.0</u>            Intense fault with clay gouge.  <u>117.9 - 118.4</u>            Intense fault with clay gouge.  <u>147.5 - 147.8</u>            Intense fault with sand + clay gouge.  <u>152.0 - 152.7 + 154.7 - 156.5</u>            Shear Zones with clay gouge, quartz chips + broken rock.  <u>161.5 - 161.8</u>            Fault with clay gouge + quartz chips.</p> <p>Fault zone with broken rock  <u>176.3 - 177.0</u>  <u>179.8 - 180.0</u>            Fault with clay gouge + broken rock.</p>

<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>
233.1 to 233.6	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained to aphanitic. Mafic tuff as a matrix with well rounded frags of chert 1-2cm. Bedding @ 233.4m -----	80	Mafic tuff intensely sericite altered.	5% dissem. py.	Strong fault with clay + rock chips 233.1 - 233.3
233.6 to 244.4	CHERT WITH MINOR ARGILLITE	Colour - light grey. Grain Size - aphanitic to fine grained. - A massive lt grey chert with occasional angular argillite fragments. <u>234.4 - 235.1</u> Bed of finely laminated argillite. Bedding @ 235m -----	80	- Some silicification. - Silica Gel hosts mineralization.	<u>233.6 - 238.6</u> Avg. 10% dissem. + laminated syng. py except <u>234.2 - 234.6</u> which is a silica vein with 50% py coarse cubes, 5% lt sp (dissem.), 1% gal dissem. <u>238.6 - 244.4</u> 25% silicified zones, 3-40cm with 20-30% coarse py dissem., 5-8% lt. sp. dissem., 5% gal dissem, 1% Tet dissem.	Almost a "Muddy Tuff" in zones.
244.4 to 255.5	ARGILLITE	Colour - black. Grain Size - fine grained. Generally massive argillite with occasional bed of mudstone + chert. Bedding @ 252.1m -----	60	<u>244.4 - 251.5</u> 5% silicification by quartz veinlets <u>251.5 - 255.5</u> 50% silicification with mineralization + occasional angular argillite frag.	<u>244.4 - 251.5</u> Quartz veinlets have 10% py dissem., tr sp, tet + gal dissem. <u>251.5 - 255.5</u> 50% silification with 30% py blebs, 10% lt sp dissem, 2% gal dissem, 1% tet dissem.	N.B. Argillite weakly conductive (graphite).

<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>
255.5 to 266.0	CHERT WITH ARGILLITE	Colour - light grey. Grain Size - aphanitic to fine grained. A lt. grey chert matrix with angular .5 - 2.0cm frags of chert + argillite. - 10% laminated + dissem. syng. py. Bedding @ 264.0m -----	80	<u>255.5 - 261.2</u> 25% silicified zones.	<u>255.5 - 261.2</u> 25% silicified zones with 15% dissem lt. sp, 5% gal dissem., 1-2% tet dissem.	Fault zone with clay gouge 262.2 - 262.8
266.0 to 279.5 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained to aphanitic. - A fine grained argillite matrix with 15% fine grained pyrite. - Mixed 50% argillite, 50% chert with chert beds, rounded .5 - 2.0cm frags of chert and rarely ang. Bedding @ 276.0m -----	60	5% silicification by quartz veins.	<u>269.7 - 272.8</u> 15% silicified zone 2-15cm with 30% py blebs, 15% lt sp blebs, 1% tet dissem, 10% gal blebs.	<u>274.1</u> 10cm fault zone with broken rock.

Hole No. RG-119

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5451	38.5	39.5	1				1	0.005			26	139	25			
BCD5452	39.5	40.9	1.4				0.7	0.005			24	117	16			
BCD5453	180	181.5	1.5				1.7	0.02			63	590	355			
BCD5454	181.5	183	1.5				1.7	0.02			152	270	165			
BCD5455	183	184.5	1.5				1.2	0.015			56	162	52			
BCD5456	184.5	186.5	2													
BCD5457	237.1	238.6	1.5				6.2	0.005			175	815	540			
BCD5458	238.6	240.1	1.5	0.108	1.52	1.05	52.2	0.18						3.01	1.52	0.005
BCD5459	240.1	241.6	1.5	0.068	1.06	0.93	28.2	0.07						2.91	0.82	0.002
BCD5460	241.6	243.1	1.5	0.023	0.14	0.21	8	0.04						2.76	0.23	0.001
BCD5461	243.1	244.4	1.3	0.17	0.8	0.42	33	0.17						NA	0.96	0.005
BCD5462	244.4	245.9	1.5				37.5	0.11			1660	11000	4100			
BCD5463	245.9	247.4	1.5				2.8	0.05			69	2600	750			
BCD5464	247.4	248.9	1.5				1.6	0.01			37	810	220			
BCD5465	248.9	250.4	1.5				2.7	0.035			56	1600	410			
BCD5466	250.4	251.5	1.1				2.1	0.045			54	395	415			
BCD5467	251.5	253	1.5	0.044	1.08	0.24	10.4	0.2						2.87	0.3	0.006
BCD5468	253	254.5	1.5	0.24	1.1	0.85	48	0.22						2.92	1.4	0.008
BCD5469	254.5	255.5	1	0.147	2.36	0.76	30	0.29						3.18	0.88	0.008
BCD5470	255.5	257	1.5	0.05	1.9	0.67	18	0.2						2.89	0.53	0.006
BCD5471	257	258.5	1.5	0.02	0.04	0.06	4.2	0.21						2.84	0.12	0.006
BCD5472	258.5	260	1.5	0.016	0.08	0.04	2.4	0.17						2.76	0.07	0.005
BCD5473	260	261.2	1.2	0.042	0.8	0.54	16.3	0.18						2.91	0.48	0.005
BCD5474	261.2	262.7	1.5				1.9	0.02			67	59	81			
BCD5475	269.7	272.8	3.1	0.046	0.56	0.44	24.1	0.2						2.87	0.7	0.006



<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 3.1	CASING					
3.1 to 45.6	MAFIC PYRO-CLASTICS	Colour - medium green. Grain Size - fine grained. - Mafic pyroclastic with lapilli in a chl fine grained matrix. - Lapilli flattened + rounded with chl altered remnant mafic phenos and occasional vesicles. Bedding @ 29m -----	45	- Matrix chl altered. - Lapilli are seric. +/- carb. altered. - 5% quart +/- carb veins + veinlets.	3.1 to 7.6 10% dissem. py. 7.6 to 45.6 Tr - 1% py dissem. with occasional py veinlet.	9.45 - 10.6 Weak fault with broken rock.
45.6 to 59.1	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Finely laminated mafic tuff with chert beds + frags. - 52.6 - 54.4 Mudstone replaces mafic tuff as the matrix. - Some soft sediment deformation. Bedding @ 53m -----	45	- Mafic tuff is strongly sericite altered. - Some silicification.	2-3% dissem. py.	45.6 - 47.8 Fault with clay gouge + broken rock. 56.9 - 57.6 Mod. fault with broken rock.
59.1 to 68.9	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. - Laminated argillite matrix with chert beds + frags. - Gradational contacts with some mafic tuff beds. - Frags sub-round to subangular as a slump breccia. Bedding @ 64.5m -----	50	Mafic tuff sericite altered. - Some silicification.	5-8% py.	

<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>
66.9 to 80.3	MAFIC TUFF WITH CHERT	<p>Colour - light green.            Grain Size - fine grained - aphanitic.            - Laminated mafic tuff with chert beds + angular frags.            - Beds are often contorted by soft sed. deformation.            - Occasional argillite fragment.            Bedding @ 76m -----</p>	50	<p>- Mafic tuff strongly sericite altered.            - 5% quartz veins.</p>	<p>5% py dissem.            68.9 - 76.8            Increases to 20% dissem. py.            76.8 - 80.3</p>	
80.3 to 112.5	"MUDDY TUFF"	<p>Colour - medium grey.            Grain Size - fine grained.            - Transitional contact with mafic tuff in an argillite matrix.            - Many units from chert to argillite with slump breccia zones with frags of py, chert and argillite as well a soft sed. deformation with slumping + loading.            - Some pyrite beds with 80% py                84.0 - 84.3                84.8 - 85.0            Bedding @ 90m -----            Bedding @ 102m -----</p>	45 40	<p>- Mafic tuff sericite altered.            - 2-3% quartz veinlets.</p>	<p>Avg. 25% dissem. fine grained syng. py in matrix.</p>	<p>Strong fault zone with clay gouge / 93.0 - 93.8.</p>
112.5 to 117.2	QUARTZITE TO FINE GRAINED CONGLOMERATE	<p>Colour - light grey.            Grain Size - medium grained to very coarse.            Quartzite but much coarser grained with zones of conglomerate with chert pebbles up to 10mm in dia.            Pebbles of grey &amp; white chert in a silicified groundmass.            N.B. Grading suggests tops up-hole (reverse grading?).            Bedding @ 112.4m -----</p>	45	<p>Weak silicification.</p>	<p>115.3 - 116.4            Milky white quartz vein with tr - 1% dissem. tet.</p>	



<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>
117.2 to 166.5	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. - An argillitic-pyritic matrix with chert beds occas. mafic tuff laminations and slump breccias with frags chert, argillite and pyrite. Bedding @ 127.6 ----- 45 - Some massive pyrite beds with 80% syngenetic pyrite 132.6 - 132.7 149.4 - 149.5 Bedding @ 148.5 ----- 45 Bedding @ 160.6 ----- 50	45	Some silicification by quartz veins. - Mafic tuff strongly sericite altered.	- Avg. 25% syng. py in matrix. - Occas. 80% py bed.	Fault zones with clay gouge 129.8 - 130.1 132.2 - 132.3 155.1 - 155.4 163.3 - 163.4 Strong fault with clay gouge + quartz chips 164.3 - 165.3.
166.5 to 169.8 E.O.H.	CHERT	Colour - light grey. Grain Size - aphanitic. Massive light grey chert. Bedding @ 168.5 ----- 10	10	Some silicification.	20% pyrite along bedding.	N.B. Fault zone has tipped units.

Hole No. RG-120

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5197	114.3	115.8	1.5				3.6	0.04			108	630	169			
BCD5198	115.8	116.4	0.6	0.008	0.01	0.02	1	0.02						2.75		
BCD5199	116.4	117.9	1.5				3.3	0.04			116	144	118			

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-121	GRID	FIELD COORDS	LAT 98+55	DEP 6+95	ELEV	COLLAR BRNG 225°	COLLAR DIP -85°	HOLE SIZE NQ	FINAL DEPTH 190.2m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+73.6	7+14.5	1558.6m	DATE STARTED 27/05/87	DATE COMPLETED 29/05/87	CONTRACTOR G & D	CASING Pulled
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
								COLLAR SURVEY	MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( m )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
51	84°			189	200T	-78°			
92.7	81°								
144.8	79°								
187.1	78°								

HOLE NO RG-121  
ZIPPY PRINT - BRID REPORT DEMAND

LOGGED BY G. Evans

<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 2.4	CASING					
2.4 to 45.7	MAFIC PYRO-CLASTICS	Colour - medium green. Grain Size - fine grained. - Lapilli in a fine grained chl altered matrix. - Lapilli seric. altered and rounded with remnant mafic phenos + vesicles (qtz filled). - Some lapilli have remnant feldspar porphyry i.e. 20.2. Bedding -----	50	- Matrix chl altered. - Lapilli seric. + carb. altered. 2.4 - 4.9 more intensely seric. altered with quartz veins 25%. Hematite on fract. / 4.9 - 36.3 8% Qtz-carb veinlets. 36.3 - 45.7 Seric. alteration increasing with hematite on fract. + 20% Qtz/Carb veins.	2.4 - 4.9 10% dissem. py. 36.0 5cm Qtz/Carb vein with 20% cpy, 5% galena, 5% lt. sphal. 4.9 - 36.3 Tr py. 36.3 - 45.7 Up to 5% dissem. py.	
45.7 to 49.5	QUARTZ VEIN WITH MINERALIZATION	Colour - milky white. Grain Size - aphanitic. Mult-episodic vein with cross-cutting quartz veins + gash veins + vein breccia.		Seric. wisps.	✓ 5-8% py as veinlets, 2-3% cpy as blebs, 1% galena, tr tet.	
49.5 to 67.5	MAFIC PYRO-CLASTIC	Colour - medium grained. Grain Size - fine grained. - Lapilli in a fine grained matrix. - Lapilli have remnant chl altered phenos + some atz filled vesicles. - Monolithic. Bedding @ 50m -----	50	- Matrix a chl + sericite altered fine grained rock. - 10% milky white quartz veins. - Lapilli sericite + carb. altered. N.B. Alteration stronger than upper mafic zone.	49.5 - 51.0 10% dissem. py 51.0 - 67.5 5% dissem. py. Quartz veins have tr tet. 56.7 5cm quartz vein with 15% py, 10% gal, 2% cpy, tr tet.	

<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>
67.5 to 91.3	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. Finely laminated mafic tuff with chert beds and round fragments 1-4cm. - Some soft sed. deformation. - 75.6 - 76.1 Argillite + chert band (mafic tuff not a sed. alteration). Bedding parallel to foliation @ 69m Bedding parallel to foliation @ 90m	60 65	- Mafic seric. + chl altered. - 2% Qtz-carb. veining. - Milky white quartz veins 76.1 - 76.6 81.2 - 83.3	✓ 5% dissem. py. 81.2 - 83.3 Milky white quartz veins with vugs and tr - 1% tet.	Moderate faults with clay gouge @ 70.0 - 70.1 74.1 - 74.2 Strong fault zone with mechanical breccia and clay gouge 75.2 - 81.2.
91.3 to 94.2	CHERT + CHERT BRECCIA	Colour - light grey. Grain Size - aphanitic. A pure white - light grey chert with breccia zones. Bedding @ 92m -----	55		1-2% py.	N.B. maybe the Rea chert?
94.2 to 98.2	MAFIC TUFF WITH CHERT + ARGILLITE	Colour - light green. Grain Size - fine grained. - Well laminated mafic tuff with beds + frags of chert. - Frags rounded + flattened 1-3cm. - 96.5 - 98.0 matrix is replaced as argillite rather than mafic tuff. Bedding parallel to foliation @ 97m	60		✓ Avg. 2% dissem. py.	Fault with clay gouge 97.5 - 98.2

<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>
98.2 to 111.2	QUARTZITE	<p>Colour - light grey.            Grain Size - medium - coarse grained.            - Generally a medium grained - coarse grained quartzite with rounded qtz grains.            - Occasional fine grained argillite bands with slumping indicating tops downhole.            105.1 - 106.0            - Also massive fine grained syng. py beds 80% py.            106.8 - 107.3            107.5 - 108.0            - Qtz grains up to 6mm pebbles with argillite chips.            Bedding @ 108m -----</p>	60		<p>10% dissem. py in quartzite.            40-80% py in fine grained units.            101.3            5cm silicified band with 20% lt. sphal, 10% tet.</p>	<p>Strong fault with broken rock + clay gouge            102.1 - 104.9.</p>
111.2 to 137.2	CHERT WITH ARGILLITE	<p>Colour - light grey - black.            Grain Size - aphanitic - fine grained.            Chert interbedded with 20-30% argillite beds. Massive chert with occasional 10cm bed of 80% py syngenetic with argillite beds.            Bedding @ 126m -----            Bedding @ 137m -----</p>	65 60	5% quartz veins + minor silicification.	<p>Avg. 10-15% fine grained syng. veinlets.            125.0 - 126.5            Silicified zone with 1% sphal, tr tet.            135.0 - 135.2            1% sphal.</p>	<p>Fault with gouge + clay            135.4 - 135.5</p>
137.2 to 173.2	"MUDDY TUFF"	<p>Colour - medium grey.            Grain Size - fine grained.            - An argillite matrix with 30% fine grained pyrite with frags of chert, argillite and pyrite.            - Occasional bed of quartzite + chert.            - A slump breccia.            Bedding @ 144m -----            Bedding @ 170m -----</p>	60 45	3% quartz veins with minor silicification.	<p>30% dissem. py in argillite.            154.1            10cm silicified zone with 20% py, 10% sphal.            Silver Zone            164.3 - 168.1            Silicified zones carry an average over zone 2-3% sphal as blebs, 1-2% tet as blebs, 1% gal.            164.3 - 165.8            8% Sphal, 5% tet, 3% galena.</p>	<p>Strong faults            172.5 - 173.1            173.8 - 174.4 with clay gouge + broken rock            173.9 - 174.5 with clay gouge + quartz vein frags.</p>

<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>
179.2 to 184.9	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. Well laminated mafic tuff + chert. Bedding @ 184m -----	50	Mafic tuff strongly sericite altered. 10% milky quartz veins.	1-2% py.	Strong fault with clay gouge + broken rock 180.0 - 181.6.
184.9 to 187.2	ARGILLITE WITH CHERT	Colour - medium grey. Grain Size - fine grained - aphanitic. Well laminated chert and argillite with occasional chert frags.		Some silicification.	10% py as dissem. and veinlets.	
187.2 to 190.2 E.O.H.	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. Well laminated altered mafic tuff with chert beds. Occasional chert frag (rounded). Bedding @ 190m -----	45	Mafic tuff sericite altered 10% milky white quartz veins.	5% dissem. py.	

Hole No. RG-121

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5167	44.2	45.7	1.5				0.2	0.025			21	150	30			
BCD5168	45.7	47.2	1.5	0.018	0.08	0.12	12.3	0.25						3.01	0.36	0.007
BCD5169	47.2	48.7	1.5	0.063	0.16	0.1	4.4	0.02						2.92	0.13	0.001
BCD5170	48.7	49.5	0.8	0.198	0.22	0.19	83	0.01						2.96	2.42	0.001
BCD5171	49.5	51	1.5				0.3	0.04			50	177	255			
BCD5172	81.2	82.2	1	0.02	0.01	0.01	0.3	0.01						2.7	0.01	0.001
BCD5173	82.2	83.3	1.1	0.009	0.01	0.01	0.2	0.01						2.73	0.01	0.001
BCD5174	125	126.5	1.5				2.6	0.13			56	2000	2200			
BCD5175	162.8	164.3	1.5				1.1	0.02			60	680	240			
BCD5176	164.3	165.8	1.5	0.56	1.08	0.82	120	0.21						2.96	3.5	0.006
BCD5177	165.8	167.3	1.5	0.034	0.32	0.23	8.4	0.01						2.92	0.25	0.001
BCD5178	167.3	168.9	1.6				7.2	0.035			265	1500	545			



CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-122	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG 225°	COLLAR DIP -57°	HOLE SIZE NQ	FINAL DEPTH 268.8m
PROJECT PN 312	CLAIM# REA 1	SURVEY COORDS	96+70.2NW	7+63.3	1678.2	DATE STARTED May 27/87	CONTRACTOR G & D	CORE STORAGE	CASING Pulled
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
								COLLAR SURVEY	MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
53.6	58°			Tropari broken					
105.8	58°								
136.2	58°								
178.9	59°								
212.4	58°								
268.8	59°								

HOLE NO RG-122  
ZIPPY PRINT BRIDGEPOINT INTERNATIONAL

LOGGED BY G. Evans

<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 3.1	CASING					
3.1 to 221.7	MAFIC PYRO-CLASTICS	<p>Colour - medium green.  Grain Size - fine grained.  Fine grained matrix with rounded and flattened lapilli with quartz filled vesicles and remnant mafic phenos  - 10% leucoxene beds and leucoxene in lapilli</p> <p>Bedding @ 10m ----- 80  Bedding @ 49.5m ----- 70  Bedding @ 65.0m ----- 80  Bedding @ 96.0m ----- 85  Bedding @ 122.0m ----- 85  Bedding @ 159.0m ----- 80</p> <p><u>194.0 - 211.5</u>  A mafic tuff rather than mafic pyro - finely laminated  <u>211.5 - 221.7</u>  Mafic pyroclastic (as before).  Bedding @ 185m ----- 80</p>		<p>- Matrix chl altered.  - Lapilli sericite +/- carb. altered.  - Hematite on fract.  <u>3.1 - 5.5</u>  - Occasional quartz-carb. veinlet 1%.  <u>26.5 - 28.6</u>  - Large milky quartz vein with carb +5% py. + at  <u>32.5 - 33.7</u>  - Carb. altered zone.  <u>26.5 - 47.8</u>  <u>52.1 - 54.0</u>  Silicified zone with 5% py.  - Milky quartz veins 1-2cm often contain 5% py.  <u>186.5 - 221.7</u>  Sericite alteration increases dramatically as well 30% quartz carb. veins.</p>	<p>Tr dissem. py Avg.  <u>26.5 - 47.8</u>  5% py in carb altered zone  <u>42.8 - 44.3</u>  Quartz Carb. vein with 5% py, tr tet.  <u>59.8 - 62.0</u>  Silicified zone with 1% lt. sp., 1% gal, 10% py dissem.  <u>97.8</u>  5cm quartz vein with 5% sp, 5% gal.  <u>82.5 - 112.2</u>  5% dissem. py  <u>186.0 - 203.0</u>  Py dissem. 10%  <u>185.6 - 188.6</u>  Quartz veins avg, tr sp, tr gal dissem., tr tet.</p>	<p>Moderate fault with broken rock  <u>27.4 - 28.0</u>  + @ <u>33.7 - 34.0</u>  Weak fault with broken rock  <u>77.3 - 77.5</u></p> <p>Weak fault with broken rock  141.6 - 142.0</p> <p><u>162.7 - 162.8</u>  Intense fault with clay gouge.  <u>169.8 - 170.2</u>  Intense fault with clay gouge.  <u>180.2 - 180.5</u>  Moderate fault with broken rock.  <u>191.2 - 194.5</u>  Intense shear zone with broken rock clay + sand.  <u>197.4 - 200.0</u>  Intense shear zone with broken rock, clay + sand.</p>

<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>
221.7 to 224.7	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. Finely laminated mafic tuff with chert frags. - Frags 1-3cm rounded + flattened. Bedding @ 220m-----	80	Mafic tuff strongly sericite altered. 30% quartz +/- carb. veinlets + flooding.	Avg. 5% dissem. py 222.6 - 222.7 with 10% sp blebs, 5% gal dissem.	N.B. maybe just a highly altered mafic pyroclastic.
224.7 to 236.4	"MUDDY TUFF"	Colour - light grey. Grain Size - fine grained. Finely laminated but lots of soft sed. deformation + slump breccia. 30% argillite, 5% mafic tuff, 20% chert, 40% siltstone + wackes. Bedding @ 227.3m -----	75	- Some quartz-carb veinlets. - Mafic tuff strongly sericite altered.	5% dissem. py.	
236.4 to 239.4	MASSIVE SULPHIDES	Colour - metallic brown. Grain Size - fine-medium grained. Chert + argillite matrix with 80% sulphides. - A well laminated matrix with dissem. sulphides + large angular frags, 1-4cm. - Slumping of syng. sulphides? Bedding -----	70	Some silicification.	- 60% py as frags + fine grained laminations. - 5-7% cpy as blebs. - 3-4% galena dissem. - 2-3% lt. sphal lam. - 5% Tet dissem.	<u>238.6 - 241.1</u> Intense fault with clay + sericite gouge.
239.4 to 243.7	QUARTZ VEIN WITH SULPHIDES	Colour - light grey. Grain Size - fine grained. - Host Quartzite? A mottled appearance with cross-cutting vuggy pink veinlets (barite).			<u>239.4 - 242.1</u> 10-15% dissem. + blebs tet, 3-4% dissem cpy, 10% dissem. py, 1-2% lt. sp. <u>242.1 - 243.7</u> 5% dissem. tet, 5% cpy blebs, 5% py, 2% sp.	Strong fault with clay + sericite gouge <u>242.1 - 242.3</u>

<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>
243.7 to 246.6	MASSIVE SULPHIDES	Colour - metallic brown. A chert breccia? matrix with dissem-laminated sulphides. Avg. 60%.		Some silicification + clay alteration.	40-50% laminated fine grained py, 5-8% sphal (lt) blebs + dissem., 2-3% cpy dissem + bleb, 2% tet dissem.	243.7 - 247.9 Strong shear zone with clay + sericite gouge + occasional block of solid rock.
246.6 to 264.3	"MUDDY TUFF"	Colour - light grey. Grain Size - fine grained to aphanitic. - A cherty matrix with 20% fine grained laminated syng. py. - Occasional angular frag. of chert + argillite. Bedding @ 248m ----- 70 Bedding @ 263.5m ----- 75		- Some silicification by silica gel and Milky Quartz veins. - Quartz Veins @ 258.7 - 259.3 259.7 - 260.9 263.0 - 263.5	246.6 - 252.8 Approx. 5% zones with silica gel carrying 10% dissem. lt. sp, 3-4% dissem. tet, 1% galena dissem. 252.8 - 261.6 20% dissem. py, tr silicified zones with tr sp, tr tet. 261.6 - 263.0 8% silicified zones with 10% sp dissem. lt, 5% tet dissem. (30% py overall). 263.0 - 263.5 Milky quartz vein with 10% py veinlets, 1% tet dissem., 1% gal. dissem.	Strong faults with clay gouge 248.9 - 249.7 259.5 - 259.7
264.3 to 268.3 E.O.H.	ARGILLITE + WACKES	Colour - medium grey. Grain Size - fine-medium grained. Well laminated argillite with interbedded massive wackes. Bedding @ 264.5m ----- 70 Bedding @ 268.4m ----- 70		Some silicification.	5% py in the argillite.	Strong faults with clay gouge 264.0 - 264.5 265.7 - 265.9

Hole No. RG-122

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5401	42.8	44.3	1.5				1.1	0.005			27	80	119			
BCD5402	59.8	60.9	1.1				1.6	0.05			47	84	152			
BCD5403	60.9	62	1.1				2.5	0.02			45	3200	1820			
BCD5404	185.6	187.1	1.5				4.4	0.065			46	700	420			
BCD5405	187.1	188.6	1.5				3.3	0.05			24	260	780			
BCD5406	234.9	236.4	1.5				1.8	0.005			134	143	30			
BCD5407	236.4	237.9	1.5	2.91	3.96	3.91	2940	4.59						3.68	85.75	0.134
BCD5408	237.9	239.4	1.5	1.87	3.53	1.5	2200	4.03						3.27	64.17	0.118
BCD5409	239.4	240.9	1.5	0.04	0.04	0.02	36.4	0.79						2.76	1.06	0.023
BCD5410	240.9	242.4	1.5	1.1	0.35	0.08	1090	2.6						2.86	31.79	0.076
BCD5411	242.4	243.7	1.3	0.132	0.36	0.09	32	0.06						2.98	0.93	0.002
BCD5412	243.7	245.2	1.5	2.25	3.64	0.6	561	1.16						2.89	16.36	0.034
BCD5413	245.2	246.6	1.4	0.273	4.14	2.72	292	0.62						2.92	8.52	0.018
BCD5414	246.6	248.1	1.5	0.181	1.92	1.24	146	0.5						2.84	4.26	0.015
BCD5415	248.1	249.6	1.5	0.133	0.82	0.51	77.8	0.39						2.86	2.27	0.011
BCD5416	249.6	251.1	1.5	0.052	0.36	0.08	10.2	0.04						2.76	0.3	0.001
BCD5417	251.1	252.8	1.7	0.24	0.6	0.18	92.6	0.06						2.81	2.7	0.002
BCD5418	252.8	254.3	1.5				3.1	0.1			62	112	130			
BCD5419	261.6	263	1.4	0.134	0.46	0.17	42.2	0.71						2.99	1.23	0.021
BCD5420	263	263.5	0.5	0.05	0.13	0.06	9.3	0.02						2.73	0.27	0.001
AVERAGES	236.4	242.4	6	1.48	1.97	1.38	1566.6	3						3.14	45.7	0.088
	236.4	246.6	10.2	1.26	2.31	1.28	1048	2.03						3.05	30.6	0.059

## CORPORATION FALCONBRIDGE COPPER

x METRIC UNITS  
IMPERIAL UNITS

### DRILL HOLE RECORD

HOLE NUMBER RG-123	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG	COLLAR DIP 90°	HOLE SIZE NQ	FINAL DEPTH 126.9m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	96+71.2NW	5+77.0NE	1611.1m	DATE STARTED May 29/87 DATE COMPLETED May 30/87	CONTRACTOR G & D CORE STORAGE CASING Pulled		
PURPOSE								RQO LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY
								COLLAR SURVEY	MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP
52.2	88°								
93.3	85°								
123.8	85°								

<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 3.7	CASING					
3.7 to 83.3	MAFIC PYRO-CLASTICS	Colour - medium green. Grain Size - fine grained. - Lapilli in a fine grained matrix. - Lapilli have remnant mafic phenos and vesicles. Bedding @ 19.0m ----- Bedding @ 65.2m -----	45 45	- Matrix strongly chl altered. - Lapilli sericite + carb altered. - Strong flooding by qtz-carb veins + veinlets in zones 19.4 - 24.0 79.0 - 83.3	- Tr-1% dissem. py in volcs. - Occasional py veinlet. 61.0 - 61.5 Quartz vein with 2% py dissem., 1% Tet dissem. 66.7 - 67.2 Quartz vein with 1% dissem. cpy, 1% Tet dissem. 78.4 - 79.0 Quartz vein with 1-2% sphal, 1% cpy, 2% galena, 1% tet.	
83.3 to 93.0	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Well laminated mafic tuff with grey-green chert beds + frags. - Occasional argillite band. Bedding @ 86.3m -----	50	- Mafic tuff strongly sericite altered. - Some silicification. - Occasional milky white quartz vein.	5-8% dissem. py.	Moderate fault zone with clay gouge and quartz veins 91.7 - 92.0.
93.0 to 99.5	QUARTZITE	Colour - light grey. Grain Size - medium grained. Massive unit with a silicified matrix and equigranular quartz grains.		Some silicification.	- Tr-1% dissem. py. - Occasional quartz veinlet.	
99.5 to 102.1	ARGILLITE	Colour - black. Grain Size - fine grained. Well laminated argillite bands with some quartzite beds. Bedding @ -----	30-60	Some silicification by milky quartz veins.	Avg. 5% dissem. py.	

<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>
102.1 to 123.8	MAFIC TUFF + QUARTZITE	Colour - light green. Grain Size - fine - medium grained. Laminated mafic tuff mixed with quartzite + separate quartzite beds. - 3-5cm beds of pyrite and fragments. Bedding @ 115.5m -----	50	Mafic tuff intensely sericite altered. - Some silicification by quartz veins.	20% py as beds + fragments <u>103.5 - 105.9</u> Milky white quartz vein with 5% py, tr tet. <u>108.1 - 110.3</u> Milky quartz vein with 2-3% sphal, 1-2% cpy, 1% tet. <u>110.3 - 110.9</u> 1% Sphal, in quartz veins. <u>110.9 - 111.1</u> 60% Sulphides, 20% tet, 5% sphal, 35% py banded. <u>111.1 - 111.6</u> Quartz vein with silicified quartzite with 5% tet, 5% sphal, 2% galena. <u>111.6 - 117.4</u> 10% milky quartz veins, 30% py. <u>117.4 - 118.9</u> Milky quartz vein with 5% py, tr-1% tet.	
123.8 to 126.9 E.O.H.	ARGILLITE + MUDSTONE	Colour - black. Grain Size - fine-medium grained. Fine beds of argillite and mudstone. Well laminated. Bedding @ -----	45-55	Some silicification.	- Avg. 5% dissem. py. - Occasional crystal of pyhrotite.	



Hole No. RG-123

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5251	61	61.5	0.5	0.012	0.03	0.03	2.1	0.01						2.82	0.06	0.001
BCD5252	66.7	67.2	0.5	0.071	0.12	0.25	4.6	0.02						2.8	0.13	0.001
BCD5253	78.4	79	0.6	0.004	0.02	0.01	1.3	0.12						2.89	0.04	0.004
BCD5254	102.1	103.5	1.4				8	0.055			380	9200	5800			
BCD5255	103.5	104.9	1.4	0.002	0.02	0.02	0.4	0.15						2.71	0.01	0.004
BCD5256	104.9	106.4	1.5				1.4	0.11			56	62	28			
BCD5257	106.4	108.1	1.7				1.6	0.05			74	115	59			
BCD5258	108.1	109.2	1.1	0.12	0.63	0.12	15.8	0.1						2.73	0.46	0.003
BCD5259	109.2	110.3	1.1	0.119	0.18	0.03	18	0.04						2.71	0.53	0.001
BCD5260	110.3	110.9	0.6	0.117	0.61	0.28	117	0.27							3.41	0.008
BCD5261	110.9	112.4	1.5	0.99	4.52	2.27	1195	2.03						3.07	34.85	0.059
BCD5271	111.4	112.9	1.5				16.8	0.06			174	620	420			
BCD5262	117.4	118.9	1.5	0.005	0.02	0.02	2.6	0.2						2.92	0.08	0.006



<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 3.1	CASING					
3.1 to 68.9	MAFIC PYRO- CLASTICS	Colour - medium green. Grain Size - fine grained. Fine grained matrix with lapilli. - rounded and flattened lapilli with altered mafic phenocrysts + quartz filled vesicles. - Occasional leucoxene crystal. Bedding @ 12m ----- Bedding @ 62m -----	70 80	- Matrix chl altered with lapilli sericite +/- carb altered. - Some silicification 3% milky white quartz veins + some qtz-carb veinlets + alteration. - @ 58.0 - 68.9 sericite alteration and silicification intensifies.	<u>3.3 - 3.6</u> Milky quartz vein with gash veins + 1% Tet, tr cpy. Units avg. 5% dissem. py. Occasional 5cm milky quartz vein with 1% cpy. <u>44.5 - 44.9</u> Milky quartz vein with tr tet. <u>46.4 - 46.7</u> Quartz vein with 10% Sp, 3% cpy, 1% tet. <u>49.5 - 50.2</u> Quartz vein with carb tr tet, tr gal. <u>56.1 - 56.5</u> Quartz vein with carb alteration, 3% gal, 1% cpy, 1% tet. <u>68.7 - 68.8</u> Quartz vein with 10% gal, 10% cpy, tr tet.	Fault with clay gouge 45.9 - 46.0. Fault with clay + qtz gouge 57.3 - 57.7. Fault with broken rich 58.7 - 59.4.
68.9 to 74.9	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Finely laminated mafic tuff with chert beds and angular chert frags. - 71.6 - 71.9 Argillite forms the matrix. Bedding @ 74m -----	70	Some silicification. - Mafic tuff strongly sericite altered.	/ 8% dissem. py.	Fault Zone with clay gouge 71.8 - 71.9.

<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>
74.9 to 108.5	ARGILLITE WITH MINOR QUARTZITE	Colour - black. Grain Size - fine-medium grained. Well bedded argillite with 10% quartzite beds. Bedding @ 77m ----- 70 86.8 - 90.4 Unit dominantly quartzite. - Occasional mudstone bed. - Some soft sed. deformation in beds (i.e. slumping). Bedding @ 97m ----- 70		Some quartz-carb. veins.	Avg. 5% dissem. py in the beds. 87.8 - 88.2 Dissem. sp in quartzite .5%.	Fault zone with clay gouge. 85.2 - 86.6 - Some argillite has weakly conductive graphite.
108.5 to 111.0	QUARTZ VEIN IN A FAULT	Colour - milky white. Grain Size - aphanitic. - Milky quartz vein with argillite gouge (20%).		Vein has carb. alteration + minor barite?	Tr. tet.	108.5 - 111.0 Quartz vein in a fault zone with gouge.
111.0 to 130.2 E.O.H.	"MUDDY TUFF"	Colour - grey - black. Grain Size - fine grained. - Generally a fine grained argillite matrix with 30-80% syngenetic pyrite. - Holds fragments ang. 1-2cm of arg., chert mafic tuff and py as a slump breccia. - Some beds highly contorted by soft sed. deformation. - Occasional py bed 80+% py. Bedding @ 118m ----- 65 Bedding @ 129m ----- 60		- Some silicification by quartz veins. - Mafic tuff strongly sericite altered.	113.9 - 116.4 60-70% syngenetic py. the rest avgs. 30% py.	Fault with clay gouge 113.9 - 114.1

Hole No. RG-124

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5263	43	44.5	1.5				2.4	0.03			62	146	152			
BCD5264	44.5	44.9	0.4	0.003	0.03	0.03	1.9	0.01						2.84	0.06	0.001
BCD5265	44.9	46.4	1.5				1.9	0.015			178	3000	5800			
BCD5266	49.5	50.2	0.7	0.006	0.05	0.03	1.8	0.01						2.91	0.05	0.001
BCD5267	56.1	56.5	0.4	0.042	0.16	0.14	2.4	0.02						2.89	0.07	0.001
BCD5268	67.5	68.8	1.3	0.103	0.28	0.16	4	0.05						2.98	0.12	0.001
BCD5269	108.5	110	1.5				0.8	0.005			21	65	24			
BCD5270	110	111	1				0.4	0.005			48	47	16			

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-125	GRID	FIELD COORDS	LAT	DEP	ELEV 1677	COLLAR BRNG 225°	COLLAR DIP -85°	HOLE SIZE NQ	FINAL DEPTH 215.5m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	95+26.0NW	6+53.3NE	1681.4m	DATE STARTED June 1/87	DATE COMPLETED June 3/87	CONTRACTOR G & D CORE STORAGE CASING Pulled		
PURPOSE								ROD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
62.5	83°			Tropari Broken						
130.1	82°									
191.1	83°									
215.5	79°									

HOLE NO RG-125  
ZIPPY PRINT - BRIDGEPOINT HIGHWAY

LOGGED BY G. Evans

<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 3.4	CASING					
3.4 to 195.2	MAFIC PYRO- CLASTICS	<p>Colour - medium green. Grain Size - fine grained. - A fine grained matrix with rounded and flattened lapilli with 10% leucoxene. - Lapilli monolithic with occasional mafic pheno + qtz filled vesicle.</p> <p>Bedding @ 5.2m ----- 40 Bedding @ 30m ----- 45 Bedding @ 48m ----- 45 Bedding @ 75m ----- 45 Bedding @ 102m ----- 45 Bedding @ 124m ----- 45 <u>139.3 - 177.7</u></p> <p>A fine grained tuffaceous or flow unit with quartz-carb vesicles? massive with only occasional lapilli.</p>	40 45 45 45 45 45	<p>Matrix chl altered. Lapilli sericite and carb. altered. 2-3% Qtz-Carb veinlets. <u>64.5 - 81.3</u> A carb alteration zone with increased sericite. <u>139.3 - 182.0</u> Qtz-Carb alteration increases steadily, 30-40% vol. ✓ <u>182.0 - 195.2</u> Carb. + Sericite alteration increases strongly with quartz-carb. knots.</p>	<p>1% dissem. py. <u>64.5 - 66.8</u> Qtz Carb. veinlets with carb. alteration carry Gal, Sp, Cpy. Avg. over interval, 1-2% gal, 1% sp, tr cpy. <u>69.5 - 70.1</u> A mottled vein breccia with sericite + fuchsite alteration contains 2% gal, 10% py, tr sp. <u>73.0 - 75.4</u> Qtz-Carb. vein with sericite + fuchsite? alteration, 1% gal, 15% py, tr spha1, tr cpy. <u>79.20 - 87.0</u> Occasional 5cm quartz vein with 5% cpy, 2% gal, 2% sp, 1% tet.</p>	<p>Fault zone with clay gouge ✓ 19.3 - 20.2 Weak fault zone ✓ 33.9 - 34.2 Strong fault with clay gouge + qtz chips ✓ 174.2 - 174.3 Fault zone with clay gouge + broken rock ✓ 189.5 - 189.9.</p>
195.2 to 207.3	CHERT WITH MAFIC TUFF	<p>Colour - light grey - green. Grain Size - aphanitic to fine grained. - A chert matrix with wisps of mafic tuff + occasional chert breccia. - Occasional laminations and frags of argillite. - Chert frags average 1-2cm. Bedding @ 200m ----- 45</p>	45	<p>Mafic tuff intensely sericite altered.</p>	<p>Avg. 15%. Silicified zones + dissem. avg. 2% lt. sp, 1% gal, tr tet.</p>	<p>Fault with clay gouge 195.2 - 195.3m.</p>

<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>
207.8 to 215.5 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. A pyritic muddy matrix with 40% fine grained pyrite with frags (round) and beds of chert and round frags of pyrite. - frags .5 - 2.0cm - matrix finely laminated		Some milky quartz veins.	/	Avg. 40% fine grained dissem. py. <u>207.8 - 208.3</u> 50% py with 2-3% lt. spha1 dissem.



Hole No. RG-125

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5376	64.5	66.8	2.3	0.015	0.13	0.1	1.9	0.01						3.01		
BCD5377	69.5	70.1	0.6	0.007	0.11	0.1	2.1	0.01						3.03		
BCD5378	73	75.4	2.4	0.013	0.04	0.09	2.4	0.04						3.16		
BCD5379	195.2	196.7	1.5	0.026	0.44	0.34	4	0.01						2.91		
BCD5380	196.7	198.2	1.5	0.01	0.06	0.02	0.2	0.01						2.94		
BCD5381	198.2	199.7	1.5	0.008	0.01	0.01	0.2	0.02						2.92		
BCD5382	199.7	201.2	1.5	0.007	0.02	0.01	0.3	0.01						2.96		
BCD5383	201.2	202.7	1.5	0.008	0.01	0.01	0.2	0.02						2.99		
BCD5384	202.7	204.2	1.5	0.044	0.18	0.2	8.2	0.03						2.96		
BCD5385	204.2	205.7	1.5	0.008	0.08	0.01	0.2	0.01						2.91		
BCD5386	205.7	207.8	2.1	0.01	0.02	0.01	0.3	0.02						2.91		
BCD5387	207.8	208.3	0.5	0.026	0.38	0.18	10.2	0.02						3.09		

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-126	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG.	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 69.2m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	97+57.3	5+54.9	1556.9	DATE STARTED June 2/87	CONTRACTOR G & D	CORE STORAGE CASING Pulled		
PURPOSE								RQD LOG <input checked="" type="checkbox"/>	PULSE EM SURVEY	
								COLLAR SURVEY	MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ( m )	CORRECTED ANGLE	DEPTH ( )	CORRECTED ANGLE	DEPTH ( )	AZIMUTH	DIP	DEPTH ( )	AZIMUTH	DIP	
44.2	87°									
69.0	86°									

HOLE NO RG-126  
 ZIPPY PRINT · BRIDGEPOINT RICHMOND

LOGGED BY G. Evans

<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>
CASING 0 to 3.1						
3.1 to 31.1	MAFIC PYRO- CLASTICS	Colour - medium green. Grain Size - fine grained. - A fine grained matrix with rounded and flattened lapilli. - Lapilli leucoxene rich (20%) with remnant mafic phenocrysts and quartz filled vesicles. Bedding @ 11m ----- Bedding @ 29.3m -----	40 45	Matrix chl altered white vesicles sericite +/- carb altered. - Sericite alteration becomes more intense with fuchsite? 29.3 - 31.1 - Some quartz veins milky white.	✓ Avg. 1-2% dissem. py.	
31.1 to 47.9	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Finely laminated mafic tuff with fine chert beds. - Occasionally a chert breccia unit with ang. frags. Bedding parallel with foliation @ 35m -----	50	- Mafic tuff intensely sericite altered. - Some silicification by quartz veins +/- carb. - Occasional chert breccia unit with ang. frags of chert.	✓ Unit avgs. 10% dissem. py approx. 10%. 46.8 - 47.4 10% quartz veins with 1% sphal, tr tet. 31.4 - 31.8 Quartz vein with 30% py, 2% sphal, 1% tet. 36.3 - 36.7 Quartz vein with 20% py, 8% sphal, 8% tet.	Strong faults with clay gouge. 38.8 - 39.1 40.9 - 41.3 41.7 - 41.9 44.1 - 44.4
47.9 to 48.2	MASSIVE SULPHIDES	Colour - metallic brown. Grain Size - fine grained. - 80% py in a silicified matrix. - Py fine grained in bands + blebs.		Silicified.	80% py, 2% cpy, 1% tet, tr sp.	

<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>
48.2 to 67.2	MUDSTONE	Colour - light brown - light green. Grain Size - fine grained. - Well bedded mudstone. - Occasional quartzite unit. Bedding @ 51.2m -----	45	Some silicification and clay alteration around faults.	Avg. 5% dissem. py 59.6 - 60.7 Quartz vein with 5% py dissem, 1% cpy dissem, 1% tet dissem. with barite + talc?	Faults with clay gouge @ 49.0 - 49.1 56.4 - 56.5 A strong fault with clay gouge and quartz veins 57.9 - 62.4.
67.2 to 69.2 E.O.H.	MUDDY TUFF	Colour - black. Grain Size - fine grained. - An argillite matrix with minor chert beds and frags. - A mottled appearance due to coarser grains of quartz and feldspar? Bedding @ 68m -----	45	Some quartz carb. veins.	10% py dissem. + bands.	

Hole No. RG-126

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5276	31.4	31.8	0.4	0.129	0.68	0.69	18.6	0.24						3.05	0.54	0.007
BCD5277	34.8	36.3	1.5				1.4	0.025			24	68	320			
BCD5278	36.3	36.7	0.4	0.108	1.93	1.3	76	0.22						2.96	2.22	0.006
BCD5279	36.7	38.2	1.5				1.8	0.03			200	140	176			
BCD5280	46.4	47.9	1.5				4.1	0.035			245	680	325			
BCD5281	47.9	48.2	0.3	1.32	3.34	1.63	1690	4.62						3.94	49.29	0.135
BCD5282	48.2	49.7	1.5				8	0.07			170	570	180			
BCD5283	59.6	60.7	1.1	0.062	0.03	0.01	8.2	0.19						2.76	0.24	0.006

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-127	GRID	FIELD COORDS	LAT	DEP	ELEV 1677	COLLAR BRNG 225°	COLLAR DIP -70°	HOLE SIZE NQ	FINAL DEPTH 214.6m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	95+70.5NW	6+65.4NE	1679.2m	DATE STARTED June 3/87	CONTRACTOR G & D	CORE STORAGE	CASING Pulled
PURPOSE								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
63.2	70°			214.6	207°	68°			
121.3	69°								
182.0	68°								

HOLE NO RG-127  
ZIPPY PRINT - BRD REPORT RICHMOND

LOGGED BY G. Evans

<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 185.3	MAFIC PYRO- CLASTICS					
185.3 to 214.6 E.O.H.	"MUDDY TUFF"	<p>Colour - dark grey. Grain Size - fine grained. <u>185.3 - 187.1</u> Finely laminated pyritic mud (50% syng. py). Bedding @ 185.5m ----- 45 <u>187.1 - 213.0</u> Becomes more cherty with pyritic mud avg. 25% with round rags 1-2cm of chert + pyrite. Bedding @ 200m ----- 65 Bedding @ 212m ----- 60 <u>213.0 - 214.6</u> Back to finely laminated argillite- pyritic (50% syng. py).</p>		Some silicified zones.	<p><u>186.5 - 188.0</u> 1-2% light disse. sp., tr disse tet, tr gal in Quartz vein. <u>194.2 - 197.5</u> 1-2% disse. lt. sp, .5% tet disse, found in 1-2cm silicified zones. <u>206.6 - 208.1</u> Silicified zones carry mineralization, 1-2% lt. sp., tr tet.</p>	<p>Strong fault with clay gouge broken rock + quartz veinlets. 211.2 - 212.6</p>

Hole No. RG-127

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5440	186.5	188	1.5				17.3	0.005			320	3600	1440			
BCD5441	194.2	195.7	1.5				19	0.32			540	2600	1750			
BCD5442	195.7	197.5	1.8				24	0.25			225	890	780			
BCD5443	201.7	202	0.3	0.036	1.39	0.94	38.2	0.96								
BCD5444	206.6	208.1	1.5				30	0.2			305	3650	1160			



# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-128	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 55.5m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+09.9NW	5+72.3NE	1549.6	DATE STARTED June 4/87	CONTRACTOR G & D			
PURPOSE								CORE STORAGE CASING Pulled		
								RQD LOG <input checked="" type="checkbox"/> 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	
36.6	88°									
55.5	87°									

HOLE NO RG-128  
 ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 6.1	CASING					
6.1 to 20.1	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Finely laminated mafic tuff with chert beds + frags. - Frags flattened parallel to bedding and are 1-4cm and are rounded. Bedding parallel with foliation @ 7m and @ 20m.	50 50	Hem. on fract. 6.1 - 8.4. Intense sericite alteration of the mafic tuff.	/ Avg. 10% dissem. py with occasional py stringer +/- chl alteration.	Moderate faulting with clay gouge / 13.8 - 14.0.
20.1 to 24.4	QUARTZ VEIN WITH "SILVER ZONE"	Colour - white - grey. Grain Size - fine grained - aphanitic. Hosted in mafic tuff + chert A milky white quartz vein 20.1 - 23.8 50% quartz vein.		- Sericite alteration on fract. - Minor silicification.	<u>20.1 - 23.8</u> 5% dissem. py, tr tet. <u>23.8 - 24.4</u> Vein appears as altered quartzite 20% py as bands, 15% tet dissem, 12% sphal dissem, 4-5% galena, 2-3% cpy.	
24.4 to 34.7	QUARTZITE WITH MAFIC TUFF	Colour - light green. Grain Size - medium grained. - Generally a quartzite with varying amounts of mafic tuff in the matrix. - Occasionally a fine grained tuff bed. - Quartz grains 1-3mm in dia.	Bedding @ 29.5m ----- 45 Bedding @ 41.0m ----- 40	- Intense sericite alteration. - Quartz veins 25% 32.8 - 34.7 Quartz vein + quartzite green with a mica (fuchsite).	Avg. 5% dissem. py.	

<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>
34.7 to 48.0	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. Fine grained mafic tuff with chert beds + frags + occasional py bed. - Chert frags 1-5cm sub angular. Bedding @ 35m ----- 45 Bedding @ 46m ----- 50		Mafic tuff intensely sericite altered (sometimes actually a brown colour). - Some fractures have talc on them.	34.7 - 40.2 Avg. 10% dissem. py. 40.2 - 48.0 30% py in the matrix. 38.8 - 40.3 Quartz vein with 5% py, tr-1% tet, tr sphal.	37.3 - 38.8 Strong fault zone with clay gouge and quartz chips.
48.0 to 55.5 E.O.H.	"MUDDY TUFF"	Colour - grey. Grain Size - fine grained - aphanitic. Finely laminated chert with 10% argillite matrix. (N.B. maybe a chert breccia). - Highly contorted beds by soft sed. deformation (slumping) fine grained beds of py, chert + argillite. - Fragment 5mm - 3cm often angular. Bedding @ 48.5m ----- 45 Bedding @ 52.5m ----- 10			15% fine grained syngenetic pyrite as beds + frags.	

Hole No. RG-128

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5293	18.6	20.1	1.5				0.6	0.32			46	54	25			
BCD5294	20.1	21.6	1.5	0.01	0.01	0.01	2.2	0.44						2.79	0.06	0.013
BCD5295	21.6	22.6	1	0.096	0.16	0.12	70.4	0.08						2.78	2.05	0.002
BCD5296	22.6	23.8	1.2	0.277	0.29	0.18	218.5	0.23						2.86	6.37	0.007
BCD5297	23.8	24.4	0.6	1.71	4.27	3.02	1215	1.9						3.13	35.44	0.055
BCD5298	24.4	25.9	1.5				2.3	0.04			38	62	67			
BCD5299	32.8	34.7	1.9	0.015	0.01	0.02	4.1	0.02						2.84	0.12	0.001
BCD5300	38.8	40.3	1.5	0.01	0.01	0.01	17.6	0.01						2.69	0.51	0.001
AVERAGES	22.6	24.4	1.8	0.75	1.62	1.13	550.7	0.79						2.95	16.1	0.023



<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 9.75	CASING					
9.75 to 10.3	MAFIC TUFF	Colour - medium green. Grain Size - fine grained. Fine grained tuff with quartz veins, milky white.		Tuff is sericite altered moderately.	Tr pyrite. Quartz veins have 5% py.	N.B. maybe a boulder?
10.3 to 67.0	ARGILLITE + MUDSTONE	Colour - black to grey. Grain Size - fine grained. Well bedded sediments with black argillite interbedded with buff mudstone. Bedding angles change drastically but no slump breccia (fold or channel?) (little foliation). Soft sed. features include slumping, flame structures (tops down hole!). - Occasional greywacke bed. Bedding @ 24m ----- 10 Bedding @ 35m ----- 45 Bedding @ 46m ----- 70 Bedding @ 50m ----- 30 Bedding @ 57m ----- 10 Bedding @ 60m ----- 50		- Occasional quartz vein +/- carb.	1-2% dissem. py.	Some graphitic argillite weakly conductive. Faults with graphite gouge 42.5 - 42.6 61.3 - 61.4.
67.0 to 105.9	MAFIC TUFF + QUARTZITE	Colour - light green. Grain Size - very fine grained. A very fine grained mafic tuff. - Well bedded with some beds containing 30% leucoxene crystals. Bedding @ 67m ----- 45		- Occasional 5cm milky quartz vein with carb. - Tuff is moderately sericite altered.	- Avg. 8% dissem. + occasional frag of py.	

<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>
		71.7 - 84.9 A large late stage quartz vein crosscuts the tuff unit. - Milky white. - Contains frags + zones of mafic tuff (10%). 88.5 - 105.9 Rock is better described as a quartzite with a mafic tuff component.		Quartz veins increase 68.7 - 71.7 25% of rock.	68.7 - 79.2 5% dissem. py 79.2 - 83.7 40% coarse zones of py tr tet, + fuchsite? (green mica). 83.7 - 84.9 10% dissem. py.	Intense fault with clay + graphite gouge with quartz chips. 75.0 - 80.7 60% recovery.
105.9 to 113.5	"MUDDY TUFF"	Colour - black. Grain Size - fine grained. - A slump breccia with an argillite matrix with beds + frags of chert + mudstone. - Frags 1-5cm and are rounded - sub angular. Bedding @ 107m ----- 40 Bedding @ 113m ----- 45		Some silicification by quartz veins.	1% dissem. py.	
113.5 to 114.6 E.O.H.	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained. - A mafic tuff with frags of chert + occasional argillite. - Frags of chert 1-3cm and are rounded. Bedding @ 114.5m ----- 45		Tuff is strongly sericite altered.	Tr. pyrite.	

Hole No. RG-129

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5284	71.7	73.2	1.5				1.2	0.155			18	23	20			
BCD5285	73.2	74.7	1.5				1	0.135			16	41	40			
BCD5286	74.7	76.2	1.5				0.8	0.105			22	152	18			
BCD5287	76.2	77.7	1.5				0.6	0.035			14	138	15			
BCD5288	77.7	79.2	1.5				3.2	0.18			100	180	220			
BCD5289	79.2	80.7	1.5	0.021	0.07	0.03	3.9	0.21						2.99	0.11	0.006
BCD5290	80.7	82.2	1.5	0.006	0.03	0.02	3.8	0.26						3.4	0.11	0.008
BCD5291	82.2	83.7	1.5	0.027	0.06	0.02	4.3	0.06						3.01	0.13	0.002
BCD5292	83.7	85.2	1.5				1.4	0.03			19	59	53			



# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-130	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG 225°	COLLAR DIP -68°	HOLE SIZE NQ	FINAL DEPTH 212.5m	
PROJECT PN 312	CLAIM # REA #1	SURVEY COORDS	96+36.6	6+72.6	1661.85m	DATE STARTED June 6/87	CONTRACTOR G & D	CORE STORAGE CASING 10' L.I.H.		
PURPOSE								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	
46.6	66°			151.5	220°	65°				
157.6	64°			212.4	214°	62°				
163.7	64°									
211.3	62°									

HOLE NO RG-130  
 ZIPPER PRINT · BFC REPORT RICHMOND

LOGGED BY G. Evans

<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 177.2	MAFIC PYRO- CLASTICS					
177.2 to 193.1	MAFIC TUFF	<p>Colour - light green. Grain Size - fine grained. - A well laminated mafic tuff with beds of mudstone + occasional round syng. py frag + bed. <u>179.0 - 179.5</u> A thin bed of muddy tuff with an argillite-pyrite matrix. - Some minor chert frags 177.2 - 179.0 rounded 1-2cm. Bedding @ 178m ----- 65 Bedding @ 187m ----- 70</p>		<p>- Mafic tuff intensely sericite altered. - 8-10% milky white quartz veins.</p>	<p>/ Avg. 10-15% py as frags. <u>185.2 - 185.7</u> Quartz vein in mafic tuff has 30% coarse gal, 20% coarse blebs of cpy, 5% blebs tet.</p>	<p>Fault with clay gouge 190.0 - 190.3.</p>
193.1 to 195.9	QUARTZ VEIN "SILVER ZONE"	<p>Colour - milky white. Grain Size - aphanitic. A milky white quartz vein with a mottled texture (quartzite host?). - Occasional vugs with quartz crystals.</p>		<p>Intense silicification + sericite alteration to quartzite? - Some carb. zones.</p>	<p>193.1 - 195.8 Avg. 2-3% blebs of tet with 1% dissem. cpy, 1-2% dissem. py. <u>195.8 - 195.9</u> Coarse blackjack blebs sp 10%, coarse tet blebs 10%, dissem. + bleb cpy 10%, coarse py blebs 10%.</p>	

<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>
195.9 to 205.7	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. A well laminated pyritic mud matrix with chert beds + frags rounded .5-4cm. Bedding @ 198m ----- 70 Foliation parallel @ 205m ----- 70		Some silicified zones.	<u>195.9 - 199.3</u> 40% fine grained dissem. + laminated py (syng.) 6-8% laminated sp (lt) in silicified zones. 2-3% dissem. cpy, 1-2% tet with sp in silicified zones, tr - 1% gal in milky quartz veinlets. <u>199.3 - 202.9</u> Tr dissem. sp lt., tr-1% gal in quartz veinlets, 40% py dissem. + laminated. <u>202.9 - 205.7</u> 30% fine grained py dissem. + laminated.	Fault Zones with clay + broken rock. 197.3 - 197.7 198.3 - 198.7 200.3 - 201.5 202.8 - 203.0 203.6 - 203.7
205.7 to 209.5	MUDSTONE + ARGILLITE	Colour - medium grey - medium brown. Grain Size - fine grained. - Mixture of well laminated mudstone, argillite, + wackes. - Some mafic tuff component. - Some cross-bedding suggests tops downhole. Bedding @ 207m ----- 70		Sericite alteration to mafic tuff component.	Avg. 1% dissem. py.	
209.5 to 212.5 E.O.H.	CHERT BRECCIA	Colour - light grey. Grain Size - aphanitic. - Lt. gray, laminated chert frags (.5-4cm angular frags) in a pyritic - argillitic matrix. - A slump breccia.		Some milky white quartz veins.	Avg. 15% py in the matrix.	N.B. almost a "Muddy Tuff". <u>209.5 - 211.1</u> Strong fault zone with clay + broken rock.

Hole No. RG-130

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5476	183.7	185.2	1.5				20	0.1			1100	83	3900			
BCD5477	185.2	185.7	0.5	4.82	2.52	25.2	1600	2.22						4.17	46.67	0.065
BCD5478	185.7	187.2	1.5				30	0.1			920	112	1110			
BCD5479	191.6	193.1	1.5				6.5	0.07			118	98	205			
BCD5480	193.1	194.6	1.5	0.01	0.02	0.02	2	0.09						2.69	0.06	0.003
BCD5481	194.6	195.9	1.3	0.495	0.72	0.04	298	0.36						2.86	8.69	0.011
BCD5482	195.9	197.4	1.5	0.402	1.4	0.24	285	0.75						3.14	8.31	0.022
BCD5483	197.4	199.3	1.9	1.1	3.43	2.14	700	2.25						3.07	20.42	0.066
BCD5484	199.3	201.1	1.8				145	0.61			1950	4250	4500			
BCD5485	201.1	202.9	1.8				49	0.285			1040	2500	1610		4.23	
AVERAGES	194.6	199.3	4.7	0.71	2.03	0.95	456.4	1.25						3.03	13.3	0.036



<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 9.1	CASING					
9.1 to 52.7	ARGILLITE	Colour - black. Grain Size - fine grained. - Well bedded argillite with 10% medium grained wackes .5-1.0m beds. - Also some thin wacke beds 1-3cm. - Beds sometimes contorted with soft sed. deformation. Bedding @ 25m ----- 65 Bedding @ 37m ----- 45 Bedding @ 48m ----- 45		Occasional quartz veinlet.	Tr disse. py.	Top of hole is very broken with hematite on fract. to 38.6. Some fract. with graph. mod. conductive. Weak fault with some clay + broken rock 36.0 - 36.2.
52.7 to 56.4	QUARTZITE	Colour - light grey. Grain Size - medium grained. - Quartzite - Wacke 80% equigranular quartz grains .5mm with biotite + feldspars in the matrix. - A massive rock with occasional argillite unit.			Tr py.	
56.4 to 64.6	MAFIC TUFF WITH ARGILLITE	Colour - light green - black. Grain Size - fine grained. 56.4 - 57.5 Argillite 57.5 - 64.6 Dominantly fine grained mafic tuff. - Fine grained well laminated mafic tuff with occasional py frags. Bedding @ 56.5m ----- 45 Bedding @ 60.0m ----- 60 Bedding @ 64.0m ----- 70		Mafic tuff intensely sericite altered. 20% milky quartz veins.	Avg. 15% py as disse. and occasional frag in the mafic tuff. 58.2 - 58.5 1% cpy in quartz vein 61.0 - 61.1 3% B.J. Spnal in quartz vein.	Fault with clay gouge + quartz chips. 57.4 - 57.5 Fault with clay gouge. 59.9 - 60.6 61.0 - 64.6 50% recovery.

<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>
64.6 to 68.0	CHERT	Colour - light grey. Grain Size - aphanitic. Massive chert bed with 20% milky quartz veins.		Some silicification.	5% py in chert. Galena in quartz veins as blebs avg. 1-2% Tet. in silicified chert as stringers + dissem. 1-2%.	
68.0 to 79.0	CHERT WITH MAFIC TUFF	Colour - light green. Grain Size - fine grained to aphanitic. - Chert with fine laminations of mafic tuff. - 10% milky quartz veins. - Occasional argillite bed. - 10% leucoxene in mafic tuff. Bedding @ 70m ----- 50 Bedding @ 75m ----- 45		- Some silicification by quartz veins. - Mafic tuff intensely sericite altered. - Some green mica (fuchsite) zones + minor talc on fract.	Zone avgs. 30% pyrite dissem. + finely laminated tr-1% dissem. sphal, tr dissem. tet. 73.7 - 74.2 Quartz vein with 20% blebs of py. 5% sphal (lt) dissem., 3% galena (dissem), 2% Tet (dissem).	
79.0 to 93.0	"MUDDY TUFF"	Colour - black. Grain Size - fine grained to aphanitic. - A slump breccia with an argillite matrix containing frags of chert, mafic tuff and pyrite. - Beds contorted by soft sed. deformation. - Argillite matrix is quite "cherty". - Frags 1-4cm subangular. Bedding @ 81m ----- 70 Bedding @ 90m ----- 75		- Mafic tuff strongly sericite altered. - Occasional 1-3cm milky quartz vein.	Avg. 15-20% py dissem. in matrix.	Fault with clay gouge + quartz veins 80.5 - 80.8.
93.0 to 96.9 E.O.H.	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained to aphanitic. - Finely laminated mafic tuff with chert beds + frags. - Gradational contact with Muddy Tuff. - Frags of chert .5-2cm rounded. - Beds have slumping indicate tops up hole. Bedding @ 94m ----- 90		Mafic tuff strongly sericite altered.	10% dissem. py.	

Hole No. RG-131

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5301	59.6	61.1	1.5				2	0.48			123	78	19			
BCD5302	61.1	62.6	1.5				10.4	0.055			295	137	180			
BCD5303	62.6	64.6	2				310	0.65			3150	800	2000		9	0.019
BCD5304	64.6	66.3	1.7	0.02	0.14	0.62	40.4	0.22						2.82	1.18	0.006
BCD5305	66.3	68	1.7	0.009	0.04	0.14	4.1	0.02						2.87	0.12	0.001
BCD5306	68	69.5	1.5				6.2	0.075			290	1820	620			
BCD5307	69.5	71	1.5				2.4	0.025			50	920	52			
BCD5308	71	72.5	1.5	0.011	0.04	0.01	2.2	0.03						3.05	0.06	0.001
BCD5309	72.5	73.7	1.2				2.1	0.01			38	140	34			
BCD5310	73.7	74.2	0.5	0.03	1	0.74	48	0.4						2.96	1.4	0.012
BCD5311	74.2	75.7	1.5				1.8	0.03			36	1850	32			
BCD5312	75.7	77.2	1.5				2.3	0.04			39	80	160			
BCD5313	77.2	79	1.8				2	0.035			35	102	92			





<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 173.7	MAFIC PYRO-CLASTICS					
173.7 to 184.6	MAFIC TUFF WITH CHERT	<p>Colour - light green.</p> <p>Grain Size - fine grained - aphanitic.</p> <p>- Generally a fine grained massive to finely laminated mafic tuff.</p> <p>180.6 - 191.0</p> <p>Finely laminated chert with pyrite laminations.</p> <p>- 10% leucoxene in mafic tuff.</p> <p>- Occasional zone with angular chert frags 1-2cm.</p> <p>Bedding @ 180.8m -----</p>	90	<p>- Mafic tuff intensely sericite altered as well as silicified.</p> <p>- Some green micas (fuchsite?).</p> <p>- 10% milky white 5cm quartz veins.</p>	<p>173.8 - 173.9</p> <p>Bed of finely laminated py 80%.</p> <p>Overall avg. 1-2% py.</p>	<p>Strong fault zone with clay gouge and broken rock.</p> <p>173.9 - 175.9</p>
184.6 to 190.1	MUDSTONE	<p>Colour - beige.</p> <p>Grain Size - fine grained.</p> <p>- A mudstone or fine grained wacke with a pyritic argillite matrix.</p> <p>- Beds are highly contorted (a slump breccia?) with large 50+ cm blocks.</p> <p>Bedding @ 188m -----</p>	80?	- Some silicification.	Avg. 10% fine grained pyrite in the matrix as laminations + dissem.	
190.1 to 192.5	QUARTZITE + "MUDDY TUFF"	<p>Colour - light grey - medium grey.</p> <p>Grain Size - medium-fine grained.</p> <p>A mixture of beds of sulphide rich argillite and beds of medium grained quartzite.</p> <p>Bedding @ 191m -----</p>	85	Some silicification by quartz veins.	<p>Sulphides dominantly in "Muddy Tuff", 50% of rock. 30% finely laminated + dissem. py.</p> <p>5-8% lt. sp. dissem.</p> <p>2-3% cpy dissem. + blebs in quartz veins.</p> <p>1+?% tet dissem. (hard to see).</p>	<p>Strong fault with clay gouge + broken rock.</p> <p>191.2 - 192.5</p>

<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>
192.5 to 196.4	QUARTZ VEIN	Colour - milky white. Grain Size - aphanitic. Hosted in mafic tuff + quartzite. 192.5 - 194.4 only 50% silicification 194.4 - 196.4 intense silicification by quartz vein which has a mottled texture + occasionally vuggy with quartz veins.		Intense sericite alteration to mafic tuff + strong quartz flooding. Some green micas (fuchsite) and blebs of a pink mineral (barite or K-spar?).	<u>192.5 - 194.4</u> Avg. 1% dissem. tet. tr dissem. cpy, 5-8% dissem. py. <u>194.4 - 196.4</u> 3-4% tet blebs + dissem., 1% dissem. cpy, 3% dissem. py.	
196.4 to 216.3	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. A gradational contact with mafic tuff and quartzite interbedded with "Muddy Tuff" 196.4 - 198.5. A fine grained pyritic - argillite matrix with 20-30% pyrite finely laminated, 198.5 - 208.0. Bedding @ 199.2m ----- 70 Bedding @ 205.3m ----- 80 Gradually becomes more chert rich with 50% grey chert frags, 208.0 - 216.3. Bedding @ 215.5m ----- 70		Mafic tuff intense sericite alteration + 20% milky quartz veins, 196.4 - 198.5. Silicified zones with mineralization, 198.5 - 208.0.	<u>196.4 - 198.5</u> 1-2% tet blebs in quartz veins, 1% cpy blebs in host rocks, 5-8% dissem. py. <u>198.5 - 208.0</u> 30+% fine grained lam. + dissem. syng. pyrite, 3-5% dissem. lt. sp., 2-3% cpy blebs, 1% tet in silicified zones dissem, tr gal in silicified zones. <u>208.0 - 216.3</u> 20% fine grained laminated syng. pyrite. Tr cpy, sp (lt) in rare silicified zones.	Strong faults with clay gouge + broken rock. 206.3 - 207.1 207.6 - 208.0 208.8 - 209.2 210.0 - 210.3 Very strong fault with sand gouge + broken rock.
216.3 to 219.3 E.O.H.	ARGILLITE WITH WACKES	Colour - black - medium grey. Grain Size - fine - medium grained. - Well laminated argillite with wacke beds 20-50cm. - Wackes massive. - Occasional chips of mudstone in the argillite. Bedding @ 218.5m ----- 70		Occasional quartz-carb. veinlet.	15% pyrite bands in the argillite.	

Hole No. RG-132

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5586	188.6	190.1	1.5				2.2	0.065			51	37	68			
BCD5587	190.1	191.6	1.5	0.215	0.12	0.06	178	0.23						2.98	5.19	0.007
BCD5588	191.6	192.5	0.9	1.42	6.25	3.3	1650	2.6						3.18	48.13	0.076
BCD5589	192.5	194.4	1.9	0.017	0.01	0.02	12.8	0.14						2.82	0.37	0.004
BCD5590	194.4	195.4	1	0.364	0.04	0.02	350	0.3						2.69	10.21	0.009
BCD5591	195.4	196.4	1	0.406	0.08	0.02	318	0.47						2.79	9.28	0.014
BCD5592	196.4	198.5	2.1	0.272	0.06	0.03	210	0.42						3.03	6.13	0.012
BCD5593	198.5	200	1.5	0.18	0.05	0.04	82.1	0.21						2.99	2.39	0.006
BCD5594	200	201.5	1.5	0.243	1.14	0.51	209	0.5						3.07	6.1	0.015
BCD5595	201.5	203	1.5	1.22	1.4	0.46	293	0.6						3.14	8.55	0.018
BCD5596	203	204.5	1.5	0.259	0.64	0.34	113.8	0.4						2.94	3.32	0.012
BCD5597	204.5	206	1.5	0.05	0.37	0.18	24.6	0.27						2.99	0.72	0.008
BCD5598	206	208	2	0.057	0.13	0.1	17	0.43						3.11	0.5	0.013
BCD5599	208	209.5	1.5				19.6	0.265			700	1640	1000			
AVERAGE	191.6	203	11.4	0.45	0.86	0.41	306.5	0.55						2.97	8.94	0.016

# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-133	GRID	FIELD COORDS	LAT 95+84NW	DEP 6+30NE	ELEV	COLLAR BRNG 225°	COLLAR DIP -85°	HOLE SIZE NQ	FINAL DEPTH 212.1m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	96+02.8NW	6+36.1NE	1665.6m	DATE STARTED June 8/87	CONTRACTOR G & D			
PURPOSE							DATE COMPLETED June 11/87	CORE STORAGE		CASING Pulled
							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	
25.9	82°			149.7	211°	73°				
93.3	73°			210.6	205°	68°				
159.4	69°									

HOLE NO RG-133  
ZIPPY PRINT BRIDGEPORT MICHIGAN

LOGGED BY G. Evans

<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 to 159.9	MAFIC PYRO- CLASTICS					N.B. sulphides Gal, cpy, sp, tet in quartz veins in several zones (no ore widths).
159.9 to 168.3	MAFIC TUFF	Colour - light green. Grain Size - fine grained. - Finely laminated mafic tuff. - Dissem. & round frags of syng. pyrite. - Occasional 10cm beds of quartzite. Bedding @ 164m -----	60	Intensely sericite altered + some silicified zones.	15-20% syng. pyrite as dissem. + frags. 168.3 - 168.4 Quartz vein with selvages with mineralization. Avg. 10% tet blebs, 3-4% cpy dissem. 166.9 - 167.9 Quartz vein with gash veins with tr-1% dissem. tet.	Strong fault with clay gouge and rock chips. 162.5 - 162.8 164.2 - 164.5 Fault with clay gouge near vertical. 168.2 10cm fault with clay gouge + quartz vein.
168.3 to 191.0	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. Well laminated with a cherty matrix with dissem. py + lam. + occasional argillite + mudstone frags avg. .5 - 1.0cm. Bedding @ 169.4m Bedding @ 181.8m -----	70	Some silicification.	Avg. 20-30% syng. py. Silicified zones + dissem. throughout. Avg. 1% lt sp, tr tet. Later quartz veins milky white = 2-3% sp with 1% gal dissem., tr tet.	174.2 - 174.4 Fault with clay gouge. 178.4 - 179.9 Fault zone with clay gouge + broken rock. 183.0 - 183.2 Fault with clay 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>
191.0 to 197.2	WACKES + QUARTZITE	Colour - light grey. Grain Size - medium - coarse grained. - Grades from medium grained wackes @ top into coarse grained quartzite at the bottom. - Well laminated with quartzite having quartz grains and ang. argillite chips to 3mm. - Small mafic tuff comp. in quartzite. Bedding @ 195m -----	50	15% milky white quartz veins. - Sericite alteration to mafic tuff.	✓ Avg. 1% py blebs.	
197.2 to 212.1 E.O.H.	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Matrix is a mafic tuff with beds and rounded 1-2cm chert frags. - Occasional matrix dominated by argillite. - A lot of soft sed. deformation with slumping + folding. Bedding @ 198.5m ----- Bedding @ 209m -----	65 70	- Some silicification by milky quartz veins. - Intense sericite alteration to mafic tuff.	✓ Avg. 1% dissem. py with zones up to 10% dissem. py.	

Hole No. RG-133

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5676	165.3	166.8	1.5				5.3	0.095			90	162	109			
BCD5677	166.8	168.3	1.5	0.034	0.09	0.02	20.2	0.23						2.84	0.59	0.007
BCD5678	168.3	169.8	1.5	0.61	0.52	0.64	660	1.95						2.96	19.25	0.057
BCD5679	169.8	171.8	2				72	1.4			890	2800	2040		2.1	0.041
BCD5680	171.8	173.8	2	0.036	0.22	0.11	46.2	3.5						2.87	1.35	0.102
BCD5681	173.8	175.8	2	0.11	0.6	0.34	94	1.06						2.98	2.74	0.031
BCD5682	175.8	177.8	2	0.021	0.39	0.23	24.4	0.55						2.86	0.71	0.016
BCD5683	177.8	179.8	2				39	0.17			2.85	1260	990			
BCD5684	179.8	181.8	2				15.5	0.125			126	640	430			
BCD5685	181.8	183.8	2				22	0.12			205	480	480			
BCD5686	183.8	185.8	2	0.03	0.27	0.1	32.2	0.24						2.81	0.94	0.007
BCD5687	185.8	187.8	2				13.3	0.2			215	1100	620			
BCD5688	187.8	189.8	2				5.6	0.095			162	1550	410			
AVERAGES	168.3	173.8	5.5	0.21	0.32	0.29	223	2.31						2.91	6.5	0.067



**CORPORATION FALCONBRIDGE COPPER**

**DRILL HOLE RECORD**

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-134	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG 230°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 204.2m
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	96+03.5NW	6+38.3NE	1665.3m	DATE STARTED June 11/87	DATE COMPLETED June 15/87	CONTRACTOR G & D CORE STORAGE CASING Pulled	
PURPOSE								RQD 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
30.1	53°			132.6	219°	58°			
104.5	53°			193.5	217°	57°			
138.1	52°								
182.8	54°								
204.2	55°								

HOLE NO RG-134  
ZIPPY PRINT - BRDLE POINT REEFING CO

LOGGED BY G. Evans

<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 151.1	MAFIC PYRO- CLASTICS					
151.1 to 162.0	ARGILLITE WITH WACKES	Colour - black - medium grey. Grain Size - fine-medium grained. 60% finely laminated argillite beds with 10-20cm wacke beds. - Occasional 5cm bed of 80% fine grained syng. pyrite. - Slumping indicates tops up hole. Bedding @ 154.3m ----- Bedding @ 160.7m -----	80 80	Some silicification by milky quartz veinlets.	Avg. 5% bedded pyrite.	Fault zone with broken rock & clay gouge - 151.1 - 152.3.
162.0 to 163.9	MAFIC TUFF	Colour - light green. Grain Size - fine grained. - Finely laminated mafic tuff with occasional rounded py frag. Bedding @ 162.5m -----	85	Intense sericite alteration to the mafic tuff.	Avg. 10% py as veinlets, dissem. + frags.	
163.9 to 174.9	ARGILLITE	Colour - black. Grain Size - fine grained. Finely laminated argillite with minor mudstone + wacke beds. - Occasional 80% py bed fine grained syng. - Slumping indicates tops up hole. Bedding @ 166.7m ----- Bedding @ 174.0m -----	90 85	Rare quartz veinlet.	Avg. 8% pyrite in fine grained beds.	
174.9 to 178.5	"MUDDY TUFF"	Colour - black. Grain Size - fine grained. - An argillite matrix with ang. chips of chert and mudstone. Bedding @ 176.0m -----	70	5% quartz-carb. veinlets.	1-2% dissem. py.	

178.5 to 181.0	MAFIC TUFF	Colour - light green. Grain Size - fine grained. - Fine grained well laminated mafic tuff. - Has 30% Quartz-Carb. veins with mineralization.	Intense sericite alteration to mafic tuff. - 30% Quartz Carb veins.	Qtz-Carb veins avg. 5% dissem. py, 3-5% dissem. tet.	Fault zone with clay gouge 180.6 - 180.8
181.0 to 191.2	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. A well laminated pyritic mud with ang. chips and frags of chert. - Approx. 40% syng. py in the matrix. Bedding @ 186.0m ----- 70 Bedding @ 190.0m ----- 70	<u>184.6 - 185.1</u> Large Qtz-carb vein.	Approx. 40% fine grained pyrite in matrix (syng.).	Strong fault with clay gouge + broken rock 186.1 - 186.5.
191.2 to 199.1	CHERT WITH ARGILLITE	Colour - light grey - black. Grain Size - aphanitic - fine grained. 60% chert beds + frags in a argillite matrix. - Chert beds contorted by soft sed. + frags 1-5cm rounded. - A slump breccia?		Avg. 10% py in argillite matrix.	Argillite is mod. conductive.
199.1 to 204.2	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. 70% well laminated mafic tuff with 1cm chert beds and 1-2cm rounded chert frags. Bedding @ 198.3m ----- 65 Bedding @ 204.0m ----- 70	- Intense sericite alteration to mafic tuff. - Occas. milky white quartz vein.	Avg. 5% dissem. py in the mafic tuff.	

Hole No. RG-134

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5689	177	178.5	1.5				1.3	0.01			44	91	23			
BCD5690	178.5	181	2.5	0.017	0.18	0.24	4.3	0.12						2.86		
BCD5691	181	184	3				1.1	0.05			25	98	16			

## CORPORATION FALCONBRIDGE COPPER

### DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-135	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG	COLLAR DIP -90°	HOLE SIZE NQ	FINAL DEPTH 248.4m
PROJECT PN 312	CLAIM # REA #1	SURVEY COORDS	96+36.6NW	6+72.2NE	1661.85	DATE STARTED June 11/87 DATE COMPLETED: June 15/87	CONTRACTOR G & D CORE STORAGE CASING 10' LOI		
PURPOSE								ROD 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
72.2	88°								
118.0	85°								
163.1	82°								
205.4	78°								

HOLE NO RG-135  
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

<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 to 180.1	MAFIC PYRO- CLASTICS					
180.1 to 197.3	MAFIC TUFF	Colour - light green. Grain Size - fine grained. - Finely laminated mafic tuff with mafic phenos? - Occasional lapilli flattened with mafic phenos + qtz vesicles. Bedding or foliation? @ 181m ----- Bedding or foliation? @ 191m -----	70 70	- Intense sericite alteration. - Qtz-carb veinlet flooding with qtz-carb knots. - Some lam. + phenos chl altered.	Avg. 1-2% dissem. py <u>181.0 - 181.2</u> Quartz vein with 5% dissem. py, 2% dissem. gal. <u>192.8 - 195.4</u> 15% py blebs, 10% lt sp blebs, 5-6% dissem. gal, 1% dissem. cpy in a quartz vein with frags of mafic tuff. <u>196.4 - 196.7</u> Quartz vein with 10% py blebs, 10% lt. sp. blebs, 5% gal dissem.	N.B. a case where maybe altered mafic pyroclastics, very hard to distinguish. Strong fault with clay gouge - broken rock + quartz vein 194.2 - 195.4.
197.3 to 235.4	"MUDDY TUFF"	Colour - dark grey. Grain Size - fine grained. - A good example of muddy tuff with a finely laminated argillite-pyritic matrix with rounded frags 1-3cm of chert + argillite in a slump breccia. Bedding parallel to foliation @ 203.3m ----- 220.5m ----- 235.0m -----	75 65 70	Occasional milky quartz veinlets. Some silicified zones with mineralization.	<u>200.2 - 202.0</u> 5-7% silicified zones with 10% dissem. tet, 5-6% dissem. sp (lt), 10% coarse pyrite.	198.0 - 202.0 Strong shear zone with clay gouge + broken rock. Faults with clay gouge + broken rock. 202.2 - 202.5 206.7 - 207.0

<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>	
		<p>197.3 - 229.5 30-40% lam. + dissem. syng. pyrite.</p> <p>229.5 - 235.4 60-70% lam. + dissem. syng. pyrite (chert content decreases).</p>			<p>202.0 - 220.1 Approx. 1% silicified zones, 1-3cm with 2-3% lt. sp dissem., 3-6% dissem. gal, 1-2% dissem. tet, 1-2% ga. dissem.</p> <p>220.1 - 221.8 5% silicified zones with 30% tet veinlets, 15-20% lt. sp.</p> <p>221.8 - 229.5 1-2% silicified zones with 5% lt. sp. dissem., 2-3% dissem. tet, 1% gal dissem.</p>		
235.4 to 246.2	QUARTZ VEIN IN MUDSTONE	<p>Colour - milky white - light brown. Grain Size - aphanitic - fine grained. A milky white quartz vein intruded into a mudstone. - Mudstone a well bedded unit of grey-buff beds. - Quartz vein massive with vugs + occasional carb. patches. Bedding @ 243m -----</p>	65	Some beds have a weak mafic tuff component which is sericite altered.	Avg. 5% py blebs otherwise barren.		
246.2 to 248.4 E.O.H.	ARGILLITE	<p>Colour - black. Grain Size - fine grained. Finely bedded argillite with interbeds of wacke 10cm thick. Bedding @ 247.8m -----</p>	75	Occasional quartz veinlet.	2-3% dissem. py.		

Hole No. RG-135

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5662	191.3	192.8	1.5				1.2	0.005			76	215	118			
BCD5663	192.8	194.2	1.4	0.239	6.05	3.86	28	0.15						3.25	0.82	0.004
BCD5664	194.2	195.4	1.2	0.167	1.89	1.35	10.2	0.08						2.98	0.3	0.002
BCD5665	195.4	196.9	1.5				3.2	0.015			63	5900	3200			
BCD5666	200.2	202	1.8	0.057	0.24	0.14	26.4	0.05						2.82	0.77	0.001
BCD5667	218.6	220.1	1.5				81	0.06			2260	4200	2280			
BCD5668	220.1	221.8	1.7	0.032	0.13	0.09	10	0.04						2.91	0.29	0.001
BCD5669	221.8	223.3	1.5				22.4	0.045			610	2160	560			
BCD5670	223.3	224.8	1.5				36	0.05			670	2400	1300			
BCD5671	235.5	237	1.5				1.4	5.9			172	47	26			0.17
BCD5672	237	238.5	1.5				0.9	4.3			49	19	23			0.125
BCD5673	238.5	240	1.5				0.2	1.8			17	13	22			0.053
BCD5674	240	241.5	1.5				0.7	4.5			95	10	11			0.13
AVERAGES	192.8	195.4	2.6	0.206	4.13	2.7	19.8	0.12						3.13	0.58	0.003
	235.5	241.5	6				0.8	4.125							0.02	0.12



# CORPORATION FALCONBRIDGE COPPER

## DRILL HOLE RECORD

x METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER RG-136	GRID	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG 225°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 81.4m	
PROJECT PN 312	CLAIM # REA 1	SURVEY COORDS	98+54.4NW	6+18.5NE	1541.2m	DATE STARTED June 15/87 DATE COMPLETED June 16/87	CONTRACTOR CORE STORAGE	G & D Casing	Pulled	
PURPOSE								RQD 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	
36.6	49°			79.6	219°	48°				
81.4	48°									

RG-136

LOGGED BY G. Evans

<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 3.1	OVERBURDEN					
3.1 to 15.4	MAFIC PYRO-CLASTICS	Colour - medium green. Grain Size - fine grained. - Lapilli in a fine grained mafic matrix. - Lapilli rounded + flattened with remnant mafic phenos + quartz filled vesicles. Bedding @ 6m -----	80	Matrix + Lapilli strongly sericite altered. - 5% quartz veins + veinlets <u>8.8 - 17.4</u> Fract. strongly hematite altered.	Avg. 1-2% dissem. py	
15.4 to 51.5	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Matrix consists of finely laminated mafic tuff with beds of chert and round chert frags .5 - 4cm. - Some soft sed. deformation i.e. folding of the units. Bedding @ 23m ----- Bedding @ 38m ----- Bedding @ 50m -----	85 80 80	- Mafic tuff intensely sericite altered with some chl alteration in bands. - 5% milky white quartz veins.	5-10% dissem. py, 2-3% py + chl veinlets.	Fault with clay gouge + broken rock. <u>31.4 - 31.6</u> <u>35.2 - 35.3</u> <u>43.1 - 43.2</u> <u>50.9 - 51.3</u>

<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>
51.5 to 65.7	QUARTZ VEIN "SILVER ZONE"	Colour - milky white. Grain Size - aphanitic. 90% Quartz vein material injected into Mafic Tuff - Muddy Tuff contact. - Mafic Tuff with chert to 52.9m.		Mafic tuff strongly sericite altered while the rest silicified.	51.5 - 54.9 1-2% dissem. gal in quartz vein, 1% lt. sp dissem in quartz vein, tr-1% dissem tet, 2-3% dissem. py . 54.9 - 57.9 5% gal veinlets in quartz vein, 4-5% tet blebs in quartz vein, 3-4% lt. sp. blebs in quartz vein, 3-4% cpy blebs + dissem. in quartz vein, 10% py dissem. 57.9 - 65.7 1-2% dissem. tet in quartz vein, tr-1% cpy blebs, 5% dissem. py.	- Rock badly broken a fault zone with clay gouge @ 54.0 - 54.9 (50% recovery) 59.0 - 61.4 (20% recovery) generally 70-80% recovery.
65.7 to 81.4 E.O.H.	"MUDDY TUFF"	Colour - medium grey. Grain Size - fine grained. An argillite-pyrite matrix with 65.7 - 72.0 fine grained mafic tuff laminations + round chert frags .5-20cm Bedding @ 67m ----- 80 72.0 - 81.4 Argillite - pyrite matrix with angular chips .2-.4cm of argillite and chert. - Some soft sed. deformation. Bedding @ 81m ----- 75		Mafic tuff intense sericite alteration. - 3-4% quartz veinlets.	65.7 - 72.0 20% fine grained syng. py. dissem. 72.0 - 81.4 Avg. 60% up to 80% locally syng. py as dissem. + laminations.	Intense fault with clay gouge + graphite 73.5 - 74.0

Hole No. RG-136

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5651	50	51.5	1.5				12.9	0.1			144	152	96			
BCD5652	51.5	53	1.5	0.279	0.12	0.18	319	0.53						2.87	9.3	0.015
BCD5653	53	54.5	1.5	0.36	2.63	1.73	294	0.63						2.72	8.58	0.018
BCD5654	54.5	56	1.5	0.682	3.1	5.8	955	1.37						3.01	27.85	0.04
BCD5655	56	57.9	1.9	1.64	3.51	2.83	1095	3.13						2.86	31.94	0.091
BCD5656	57.9	59.4	1.5	0.808	0.27	0.06	970	2.78						2.79	28.29	0.081
BCD5657	59.4	60.9	1.5	0.06	0.02	0.02	71.8	0.03						2.67	2.09	0.001
BCD5658	60.9	62.4	1.5	0.547	0.41	0.2	585	0.92						2.84	17.06	0.027
BCD5659	62.4	63.9	1.5	0.002	0.01	0.01	5.8	0.05						3.01	0.17	0.001
BCD5660	63.9	65.7	1.8	0.012	0.27	0.03	9.7	2.55						2.72	0.28	0.074
BCD5661	65.7	67.2	1.5				1.2	0.05			39	43	35			
AVERAGES	51.5	62.4	10.9	0.662	1.51	1.59	630.5	1.41						2.82	18.4	0.041



<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 4.3	OVERBURDEN					
4.3 to 14.8	MAFIC PYRO-CLASTICS	Colour - medium green. Grain Size - fine grained. - Flattened + rounded lapilli in a fine grained matrix. - Lapilli have remnant mafic phenos and occasional quartz filled vesicles. Bedding @ 11m -----	45	- Matrix and lapilli intensely sericite altered +5% quartz veinlets. - 4.3 - 12.0 Fractures strongly hematite altered due to weathering.	Avg. 5-8% dissem. py.	4.3 - 5.8 Strong rubble
14.8 to 47.0	MAFIC TUFF WITH CHERT	Colour - light green. Grain Size - fine grained - aphanitic. - Finely laminated mafic tuff with chert beds and rounded frags .5-2.0cm. - Some soft sed. deformation i.e. slumping + bed contortions + some microfaults. - Chert is white. Sedding @ 17m ----- Bedding @ 39m -----	45 45	- Mafic tuff intensely sericite altered. - 5% silicification by quartz veinlets.	Avg. 5-8% dissem. py. Also 2-3% py-chl stringers.	10cm faults with clay gouge + broken rock. 19.2m 28.4m 30.9m
47.0 to 53.7	QUARTZ VEIN "SILVER ZONE"	Colour - milky white. Grain Size - aphanitic. - A milky quartz vein hosted in mafic tuff + quartzite? - Vein has zones with a quartzite appearance and seems to be fault controlled.		Intense sericite alteration of mafic tuff + silicification.	47.0 - 49.0? relatively barren, 2% py, tr cpy, tr gal. 49.0 - 53.7 3-4% blebs of cpy, 1-2% lt. sp., 1-2% gal dissem., 3-4% blebs + dissem. of tet.	Faults with strong clay gouge. 47.0 - 47.3 51.2 - 51.5 (47.9 - 50.3) only 50% recovery

<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>
53.7 to 60.7	MASSIVE SULPHIDES "SILVER ZONE"	Colour - metallic grey - brown. Grain Size - fine-medium grained. Finely laminated sulphides = 80+% hosted. 53.7 - 56.7 In mafic tuff 56.7 - 60.7 In chert Bedding @ 56.6m ----- Bedding @ 60.5m -----	45 45	Silicification by quartz veins + silicified zones. - Mafic tuff intensely sericite altered.	<u>53.7 - 54.2</u> 80% laminated sulph. in a siliceous matrix. 35% dissem. lt. sp. 35% dissem. tet 5% dissem. cpy. <u>54.2 - 55.5</u> 80% sulph. in siliceous matrix, 3-5cm blebs of py 70%. 3-4% lt. sp. rimming py, 2-3% tet dissem. rimming, 1-2% gal rimming py (dissem.). <u>55.5 - 56.7</u> Milky quartz vein hosted in altered mafic tuff, 10% py blebs, 10% blackjack sphal. blebs, 7-8% tet blebs mineralization in the quartz vein. <u>56.7 - 60.7</u> 40-70% finely laminated sulphides in silicified chert, 20-30% fine grained py (syng.), 10-15% lt. sp. laminated, 5-10% fine grained tet laminated, 5-10% gal dissem.	

<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>
60.7 to 78.5	"MUDDY TUFF"	Colour - light grey. Grain Size - fine grained - aphanitic. - A well laminated pyritic chert with fine grained syng. py laminations 30%. - Occasional sub angular .5-1.0cm frag of chert + argillite. Bedding @ 62m ----- 45 Bedding @ 72m ----- 45		Zones silicified with mineralization.	<u>60.7 - 66.1</u> 30% silicified zones carrying 10-15% lt. sp. blebs, 10% gal blebs, 4-5% tet blebs + dissem. 10-40cm bands. Avg. 40% syng. py laminations in the rest. <u>66.1 - 78.5</u> 2-3% silicified bands with 10% lt. sp blebs, 10% tet dissem., 5% gal dissem. Avg. 30% syng py laminations throughout. <u>75.2 - 75.3</u> Bed of 80% laminated + coarse pyrite.	- Maybe better classed as pyritic chert? <u>62.5 - 62.8</u> Fault with clay gouge. <u>75.4 - 75.5</u> Fault with broken rock. <u>76.0 - 76.5</u> Fault with broken rock + clay gouge.
78.5 to 87.3 E.O.H.	MAFIC TUFF + WACKES	Colour - light green. Grain Size - fine-medium grained. - Finely laminated mafic tuff with interbedded wackes? - Some load casts. Bedding @ 83m ----- 45		- Intense sericite alteration to mafic tuffs. - 10% milky quartz veins cross-cutting tuff.	10-15% fine grained dissem. py.	Fault zone with clay gouge + broken rock. <u>79.8 - 81.5</u>



Hole No. RG-137

Sample #	From(m)	To(m)	Length(m)	% Cu	% Zn	% Pb	gm/t Ag	gm/t Au	% Sb	% As	ppm Cu	ppm Zn	ppm Pb	S.G.	oz/t Ag	oz/t Au
BCD5426	45.5	47	1.5				4.8	0.01			265	35	28			
BCD5427	47	49	2	0.02	0.01	0.01	0.2	0.01						2.67	0.01	0.001
BCD5428	49	50.5	1.5	0.95	0.7	0.3	1270	1.8						2.76	37.04	0.053
BCD5429	50.5	52	1.5	0.285	0.34	0.1	222	0.2						2.78	3.48	0.006
BCD5430	52	53.7	1.7	0.5	0.77	0.21	515	0.86						2.87	15.02	0.025
BCD5431	53.7	54.2	0.5	12.85	13.6	7.55	19600	21.3						3.82	571.67	0.621
BCD5432	54.2	55.5	1.3	2.2	7.6	2.02	2710	6.6						3.82	79.04	0.193
BCD5433	55.5	56.7	1.2	0.73	2.13	0.44	798	1.73						3.05	23.28	0.05
BCD5434	56.7	58.5	1.8	0.91	4.97	2.95	925	1.44						3.13	26.98	0.042
BCD5435	58.5	60.7	2.2	1.53	4.75	3	900	1.91						3.33	26.25	0.056
BCD5436	60.7	62.2	1.5	0.037	0.42	0.1	14.3	0.37						2.92	0.42	0.011
BCD5437	62.2	63.7	1.5	0.122	2.57	1.2	70.2	0.24						2.89	2.05	0.007
BCD5438	63.7	65.2	1.5	1.02	3.08	2.29	412	1.07						3.13	12.02	0.031
BCD5439	65.2	67.2	2	0.24	0.25	0.16	82	0.39						3.01	2.39	0.011
AVERAGES	49	60.7	11.7	1.53	3.55	1.69	1798	2.78						3.14	52.5	0.081
	63.7	65.2	1.5	1.02	3.08	2.29	412	1.07						3.13	12.02	0.031