

87-151-15856
3/88

Diamond Drill Report
Holes BAR 1-4
Bar Property (SC Group)

Kamloops Mining Division
NTS 82M/5W, 92P/8E
51°17.7' 120°00'

Owner & Operator
Corporation Falconbridge Copper
6415 - 64th Street
Delta, B. C. V4K 4E2

FILMED

Grade H.P.
March, 1987

15,856

GEOLOGICAL BRANCH
ASSESSMENT REPORT

CSAIR

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES

Rec'd

APR 9 1987

SUBJECT _____

FILE _____

VANCOUVER, B.C.

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Introduction

General

Corporation Falconbridge Copper owns in excess of 500 claim units in the Barriere area of the Kamloops Mining Division, British Columbia. For administration purposes these properties have been divided into several claim groups. This report presents the results of diamond drilling carried out in October 1986 on the SC Group.

Location and Access (Figure 1)

The claim group is located on a plateau between the North Thompson River and North Barriere Lake. The group is bounded by latitude $51^{\circ}16'$ and $51^{\circ}18'$ and longitude $119^{\circ}58'$ and $120^{\circ}02'$ (Figure 1).

Access is available from Highway 5 via the Barriere Lakes Road and smaller logging access roads from there.

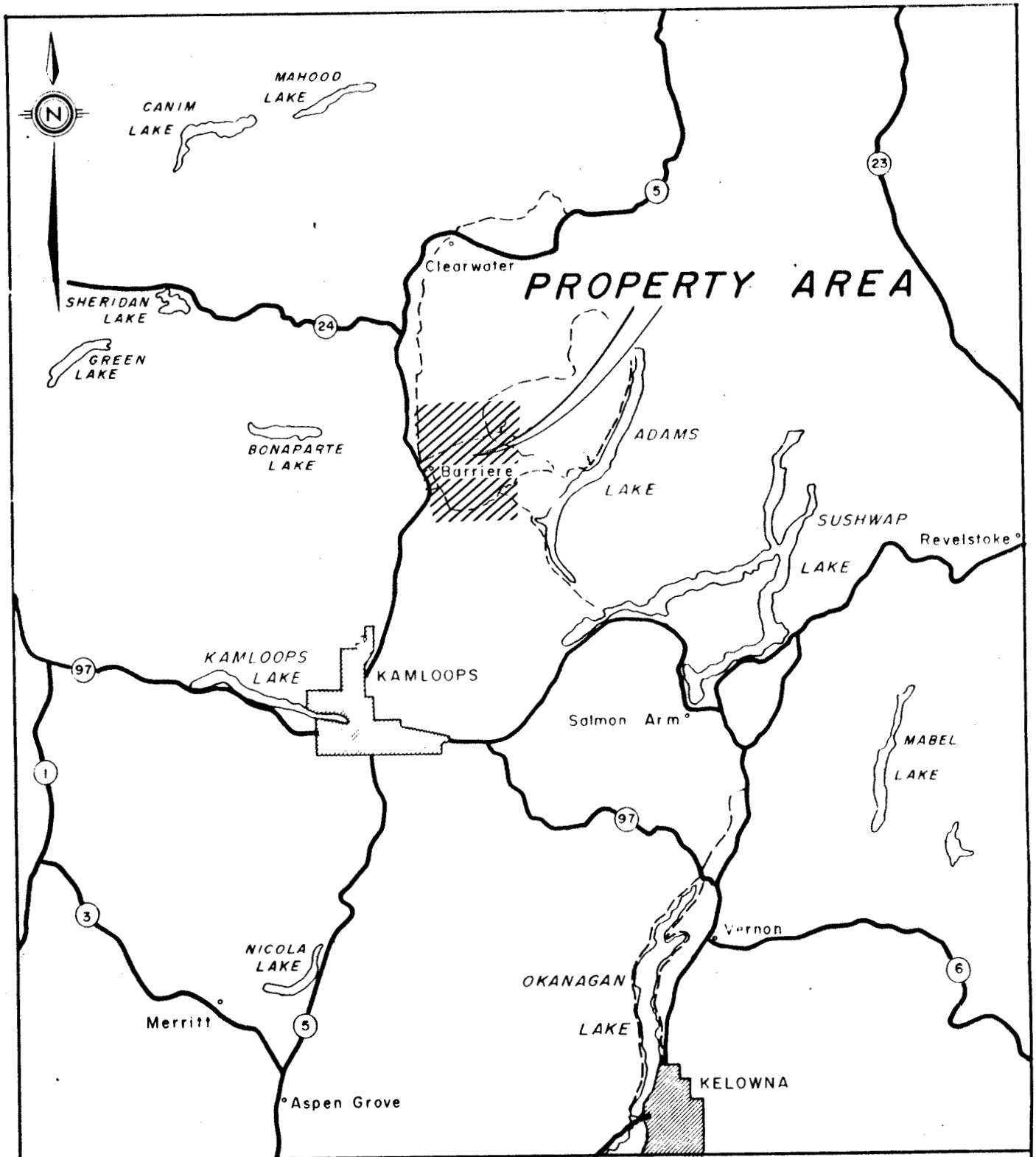
Physiography

The property lies between the elevations of 1000 and 1500m on the eastern edge a plateau with steeply incised creeks draining the level top. The area is covered by heavy spruce forest with active logging in many areas.

The climate is moderate with temperatures ranging from -30°C in the winter to $+30^{\circ}\text{C}$ in the summer. Rainfall is moderate in the area of the property with a snow free period only from June to October.

Property and Ownership (Figure 2)

Figure 2 shows the configuration of the SC 2 Group. Table 1 summarizes the pertinent claim data. The claims are all 100% owned and operated by CFC.

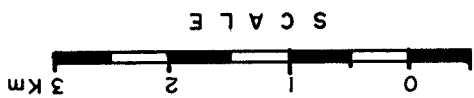


BAR PROJECT
- LOCATION MAP -

FIGURE 1

BAR PROJECT

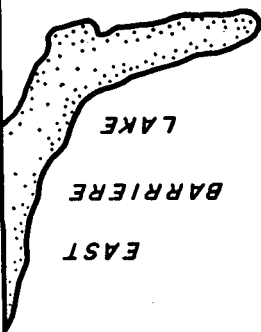
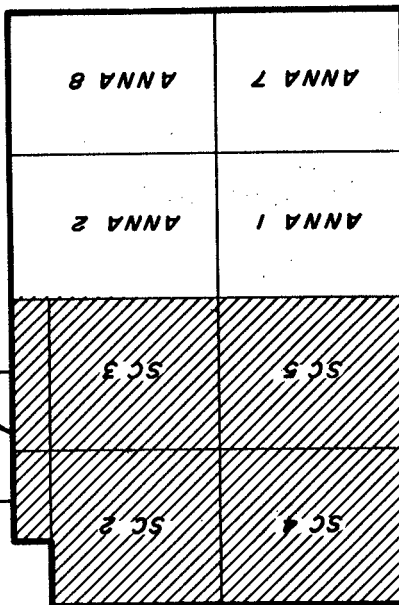
CLAIM CONFIGURATION



SC CLAIM GROUP

SC 6

SC 7



RIVER

BARRIERE

TO BARRIERE

CORPORATION FALCONBRIDGE COPPER

ALEX

BAR 1 BAR 2

BAR 3 BAR 4 BAR 5 BAR 6 BAR 7 BAR 8 BAR 9 BAR 10 BAR 11 BAR 12 BAR 13

FIGURE 2

Table 1

<u>Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Month</u>
SC2	5561	20	March
SC3	5562	20	March
SC4	5640	20	May
SC5	5641	20	May
SC6	5906	3	October
SC7	5907	6	October

History

The SC claims were acquired in the spring and fall of 1984 to cover favourable stratigraphy indicated by reconnaissance mapping and sampling. They contain stratigraphy correlative with the Chu Chua massive sulphide deposit 8kms to the north as well as felsic volcanic centres. The only evidence of previous work appears to be an airborne (Dighem) survey flown by Craigmont in 1978.

Summary of Work Done

From October 15th to October 29th 1986 four holes were drilled for a total of 518.91m, by J. T. Thomas Diamond Drilling Ltd. These were logged and split for analysis and the results are provided herein. *Analyses were done by Mim-En of North Vancouver; the core is stored at Barriere in the company warehouse.*

Geology

O.F. 53 (Scharizza) identifies the volcanics and sediments on the claim group as belonging to the (Devonian - Permian) Fennell Formation. The SC claim group has a series of felsic volcanic centres with accompanying rhyolite flows and breccias interbedded with marine sediments. These strike 140 to 160o in the area of the drilling and dip 50 to 80° to the east.

Purpose

Drilling was focussed around the felsic centres to test zones for potential massive sulphides. Mapping and lithogeochem sampling had suggested the presence of favourable horizons which, combined with buried conductors from a MaxMin II survey, provided drill hole targets.

Results

The drill holes generally confirmed the geology inferred from surface mapping. The MaxMin II conductors turned out to be graphitic argillites but the holes intersected complex rhyolite flows and tuffs with significant alteration and enhanced gold values. Bar 3, which was the only hole to actually intersect a felsic dome (due to abandonment of Bar 4 in a fault), returned significant gold and silver values. These included a 13.98m section averaging 242 ppb Au and a 2.52m section averaging 4.45 gm/T Au. This latter section included 30cms of massive pyrite assaying 18 g/T Au and 134 g/T Ag. The quartz-feldspar porphyry rhyolite dome is silicified and sericitized with an extensive quartz-pyrite stockwork.

Conclusions

The area is confirmed as being a favourable environment for massive sulphide deposits and further drilling is recommended. No syngenetic massive sulphides have yet been found but excellent alteration was encountered. Gold mineralization in the quartz-pyrite stockwork should be given exploration priority and further sampling and drilling should be undertaken to better understand it's significance.

Itemized Cost Statement

Direct Drilling Costs (J. T. Thomas Diamond Drilling)

Bar 1	\$14,580.10
Bar 2	\$12,712.45
Bar 3	\$14,284.00
Bar 4	\$9,015.20

Total Direct Charges \$50,591.75

Preparation of Drill Roads and Pads

(Blackhawk Diamond Drilling)

D-8 30 hrs @ \$105 per hr \$ 3,150.00

Supervision and Core Logging

G. Evans 15 days @ \$250 per day \$ 3,750.00
(October 15 - October 29, 1986)

Core Splitting and Sampling

M. Clayton 15 days @ \$150 per day \$ 2,250.00
(October 15 - October 29, 1986)

Accommodation and Food - 30 days @ \$20 per day \$ 600.00

Truck Rental 15 days @ \$50 per day \$ 750.00

Analytical Costs (Min-En Labs, N. Vancouver)

81 Lithochemical samples (15 elements) @ \$20/sample \$ 1,620.00

94 Geochemical samples (Cu,Zn,Pb,Ag,Au) @ \$12/sample \$ 1,128.00

Report Preparation

Drafting 2 days @ \$150 per day \$ 300.00

Interpret. & Report 2 days G. Evans @ \$250 per day \$ 500.00

Miscellaneous (materials, copying, typing etc.) \$ 150.00

TOTAL \$64,789.75

Certificate of Qualifications

I, Graeme W. Evans certify that:

1. I am an Exploration Geologist residing at #46 - 1810 Summit Drive, Kamloops, B. C.
2. I have a BSc (Geol.) from the University of British Columbia (1983).
3. I have practiced my profession since 1983.
4. I personally carried out or supervised the work reported herein.

April 6 / 1987
Date

Graeme W. Evans
Graeme W. Evans

APPENDIX I

Logs of BAR 1-4 with geochemistry

CORPORATION FALCONBRIDGE COPPER

METRIC UNITS
 IMPERIAL UNITS

DRILL HOLE RECORD

HOLE NUMBER	GRID	FIELD COORDS	LAT.	DEP.	ELEV.	COLLAR BRNG.	COLLAR DIP	HOLE SIZE	FINAL DEPTH	
BAR #1	SC		L118N	101+50E		270°	-50°	NO	151.7m	
PROJECT	CLAIM #	SURVEY COORDS.				DATE STARTED:	CONTRACTOR: J. T. Thomas			
PN 215	SC2					DATE COMPLETED:	CORE STORAGE: Barriere CASING:			
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY	
ACID TESTS				TROPARI TESTS			MULTISHOT DATA			
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP	
0'	-50°									
140'	-52°									
316'	-53°									
473'	-52°									

HOLE NO BAR #1
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>
0-3.8	casing					
3.8-34.46	ARGILLITE	Colour - black Grain size - fine F.gr, massive black argillite with occasional 20-30cm bed of grey wacke and occasional fragment	bedding 45	Propylitic alteration on fractures Occasional qtz veinlet	1-2% diss. py	Casing to 25.53m with only 35% recovery Moderately conductive
34.46 to 89.58	SILTSTONE with ARGILLITE	Colour - grey with black Grain size - fine Interbedded siltstone with 30% argillite interbeds. Occasional slump breccia zone From 75m down there are occasional frags of felsic tuffs	bedding 40m-40 to 45 70m-60 86m-70	Occasional qtz veinlet Occasional chlorite on fractures	2-3% py blebs	Good recovery Soft sediment Slump structure at 43m indicates tops up hole Some zones weakly conductive (argillite) Faults at 62.16, 63.39, 65.95 with fault clay gouge for 5-10cm
89.58 to 98.58	RHYOLITE TUFF	Colour - lt. grey to lt. brown Grain size - fine F.gr. tuff; finely laminated with qtz + feldspar phenos approx. 1mm Occasional argillite interbeds and some bedding within tuffaceous unit	bedding 60 -70	Sericite alteration pervasive with occasional clay zone	Tr. py	Foliation parallel to bedding 90.46m: fault with clay gouge
98.58 to 112.80	GREYWACKE with ARGILLITE	Colour - grey to black Grain size - fine to med. Interbedded argillite and greywackes as well as occasional f.gr gravel with clasts 4-6mm of chert	bedding 75	Occasional qtz-carb alteration	py blebs = 1% py	Argillite can be very graphitic on fractures and is conductive Slumping indicates tops up hole at 98m.

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

ASSAY SHEET

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

MOLT NO BAR #1

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm. T Ag	gm. T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au					
			Cu	Zn																					
BAR 1021	145.00	146.00			1.00											38	120	16	0.4	15					
1022	149.00	150.00			1.00											26	102	14	0.3	5					

HOLE NO. BAR #1

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LITHOGEOCHEMISTRY

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

Hole No. BAR #1 Entered by _____ Logged by _____ Page No. 6

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

x METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER BAR #2	GRID SC	FIELD COORDS	LAT. L118	DEP. 100+35E	ELEV.	COLLAR BRNG. 270°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 171.08m
PROJECT PN 215	CLAIM # SC 2	SURVEY COORDS.				DATE STARTED: DATE COMPLETED:	CONTRACTOR: J. T. Thomas CORE STORAGE: Barriere CASING:		
PURPOSE								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH ()	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
0	-50°								
150'	-54°								
336'	-58°								
456'	-56°								

HOLE NO BAR #2
ZIPPY PRINT - BRIDGEPORT RICHMOND

LOGGED BY G. Evans

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

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

ASSAY SHEET

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

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

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

Hole No. BAR #2

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x METRIC UNITS
IMPERIAL UNITS

DRILL HOLE RECORD

HOLE NUMBER BAR #3	GRID SC	FIELD COORDS	LAT. L98N	DEP. 102E	ELEV.	COLLAR BRNG. 270°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 127.25m	
PROJECT PN 215	CLAIM # SC 2	SURVEY COORDS				DATE STARTED: Oct 23/86 DATE COMPLETED: Oct 26/86	CONTRACTOR: J. T. Thomas CORE STORAGE: Barriere CASING:			
PURPOSE To test west side of QFP dome								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	
0	-50°									
30	-52°									
60	-53°									
99	-54°									
127.25	130°									

HOLE NO BAR #3
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 3.08	CASING					
3.08 to 62.54	QFP RHYOLITE INTRUSIVE	Colour - lt. green to lt. grey Grain size - Med. Matrix extremely silic glassyrock with qtz + feldspar porphs from 1-3mm Rock is flooded with a stockwork of Qtz veins +/- sericite		Intense silicification +/- sericite veinlets. Propylitic alteration on fracture and rarely chl. In areas feldspar porphs are black (TiO2 alteration? or Mn) 49.2m-62.54m: Sericite alteration increasing	3-5% diss py with 1-2% py as veinlets (avg.=4-7%) 6.91-7.2m: zone with 60% py Occasional bleb of pyrrhotite	Qtz veins to 20cm
62.54 to 88.23	ARGILLITE	Colour - black to dark grey Grain size - fine Finely laminated argillite with siltstone interbeds Occasional slump breccia Rare 2cm thick rhyolite tuff band From 86m-88m occasional Rhyolite Tuff fragment	bedding 75 to 85	Graphite on fracture	1% diss py From 70-73m 2-4% py	Moderately conductive
88.23 to 94.50	QFP RHYOLITE TUFF	Colour - lt. green Grain size - fine Massive f.gr. tuff with occasional lapilli tuff zone with 1-2cm round frags		Weak sericite alteration with feldspars broken down	Tr py with rare py veinlets	Contact has loading of argillite by rhyolite tuff at 94.5m (tops up hole)
94.50 to 101.24	ARGILLITE	Colour - black to dark grey Grain size - fine to med. Finely laminated argillite with siltstone interbeds Occasional slump breccia	bedding 50 to 70		1-2% diss py cubes	Some argillite weakly conductive

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

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
3001	3.08	5.01			1.93											9	51	14	0.2	5			
3002	5.01	7.53*			2.52					1.65	} 4.45 gm/T over 2.52m					20	57	75	1.0	1400			
3003	6.88	7.18			0.30	RESPLIT (BAR 3A) Au - 17.6 g/T Ag - 134 g/T			25.20							103	74	148	8.0	18000			
3004	7.53	9.28			1.75											9	49	20	0.2	750			
3005	9.28	11.18			1.90											7	15	14	0.2	50			
3006	11.18	13.60			2.42											6	11	10	0.2	40			
3007	13.60	15.43			1.83											8	12	42	0.1	10			
3008	15.43	17.30			1.87											7	7	7	0.2	20			
3009	17.30	19.30			2.00											10	26	64	0.2	10			
3010	19.30	20.81			1.51											8	49	19	0.3	10			
3011	20.81	22.77			1.96											10	100	13	0.2	470			
3012	22.77	25.12			2.35											9	35	8	0.2	210			
3013	25.12	27.07			1.95											11	21	9	0.2	195	} 242ppb/13.98m		
3014	27.07	29.07			2.00											9	53	14	0.1	155			
3015	29.07	30.76			1.69											7	12	8	0.2	185			
3016	30.76	33.27			2.51											11	30	26	0.2	215			
3017	33.27	34.79			1.52											15	45	10	0.1	280			
3018	34.79	36.77			1.98											11	61	12	0.2	45			
3019	36.77	38.77			2.00											10	18	18	0.3	85			
3020	38.77	40.83			2.06											10	21	10	0.2	5			

Bar #3

* Except 6.88-7.18

HOLE NO

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ZIPPY PRINT - BRIDGEPORT RICHMOND

ASSAY SHEET

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

Bar #3

HOLE NO

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ZIPPY PRINT - BRIDGEPORT, RICHMOND

LITHOGEOCHEMISTRY

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

Hole No. _____ Bar #3 _____

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LITHOGEOCHEMISTRY

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

Hole No. _____ Bar #3 _____

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LITHOGEOCHEMISTRY

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

Hole No. Bar #3

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DRILL HOLE RECORD

X METRIC UNITS
IMPERIAL UNITS

HOLE NUMBER Bar #4	GRID SC	FIELD COORDS	LAT. L99N	DEP. 104E	ELEV.	COLLAR BRNG. 270°	COLLAR DIP -50°	HOLE SIZE NQ	FINAL DEPTH 68.88m
PROJECT PN 215	CLAIM # SC 2	SURVEY COORDS.				DATE STARTED: Oct 27/86 DATE COMPLETED: Oct 29/86	CONTRACTOR: J. T. Thomas CORE STORAGE: Barriere CASING:		
PURPOSE To test east side of QFP dome								RQD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH (m)	CORRECTED ANGLE	DEPTH ()	CORRECTED ANGLE	DEPTH ()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
0	-50°								
39.9	-50°								

HOLE NO Bar #4
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 3.08	CASING					
3.08 to 68.88 EOH (abandoned)	QFP RHYOLITE FLOW	Colour - med. grey to dark grey Grain size - med. gr Very silicic massive grey matrix with feldspar phenos (70%) 1-3mm Qtz phenos (30%) 1-2mm Dark grey zones indicate greater % argillite in matrix		Propylitic alteration on fracture Some weak bleaching by qtz veinlets 46m: chl and a lt. blue oxide replace propylitic alteration on fractures	Tr py	Very fractured with fracture every 5-10cm recovery approx. 90% 19.20-19.60m: Fault with clay gouge 22.86-31.85m: Major fault zone with 56% recovery (very rubbly) Fault at 56.5m with chl gouge (Abandon) End hole in fault at 66.45-68.88m 16% recovery and loss of bit

ASSAY SHEET

Sample Number	From (m)	To (m)	Estimate		Length (m)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO ₂	% TiO ₂	% Na ₂ O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
			Cu	Zn																			
4001	4.98	5.98			1.00											11	62	30	0.6	5			
4002	10.02	11.02			1.00											14	60	19	0.2	5			
4003	14.94	15.94			1.00											10	29	18	0.2	10			
4004	20.00	21.00			1.00											11	32	22	0.1	5			
4005	26.11	27.20			1.09											9	35	20	0.2	5			
4006	35.09	36.09			1.00											10	30	23	0.2	10			
4007	40.08	41.08			1.00											N/S	7						
4008	43.90	45.00			1.10											11	33	18	0.1	20			
4009	49.00	50.00			1.00											13	34	22	0.2	10			
4010	53.90	54.90			1.00											13	39	23	0.1	20			
4011	59.00	60.00			1.00											14	36	35	0.3	10			
4012	65.00	66.00			1.00											13	44	28	0.1	40			

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

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

Hole No. _____ Bar #4 _____

Entered by _____

Logged by _____

Page No. 4 _____

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

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

Hole No. Bar #4

Entered by _____

Logged by _____

Page No. 5

LITHOGEOCHEMISTRY

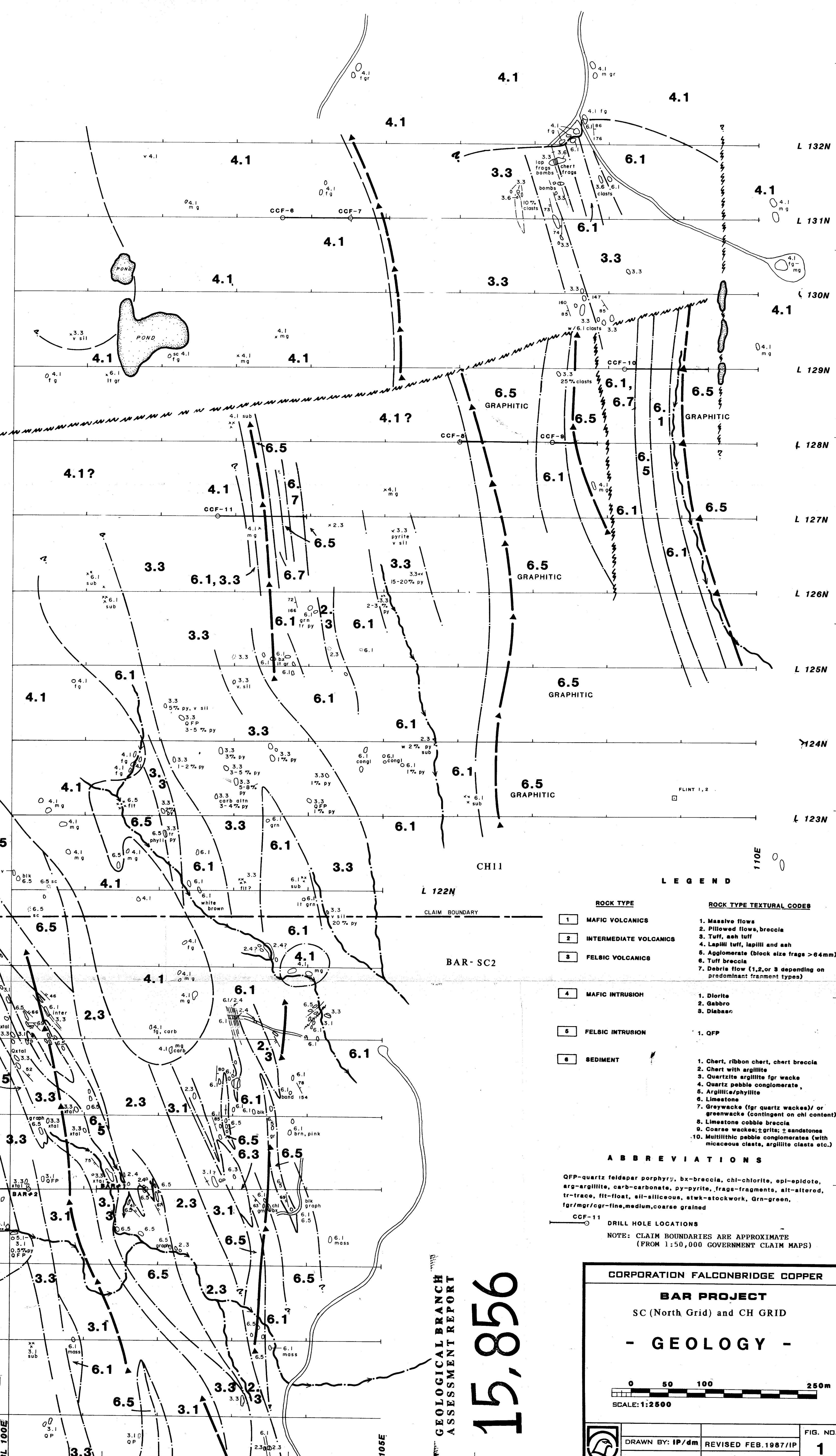
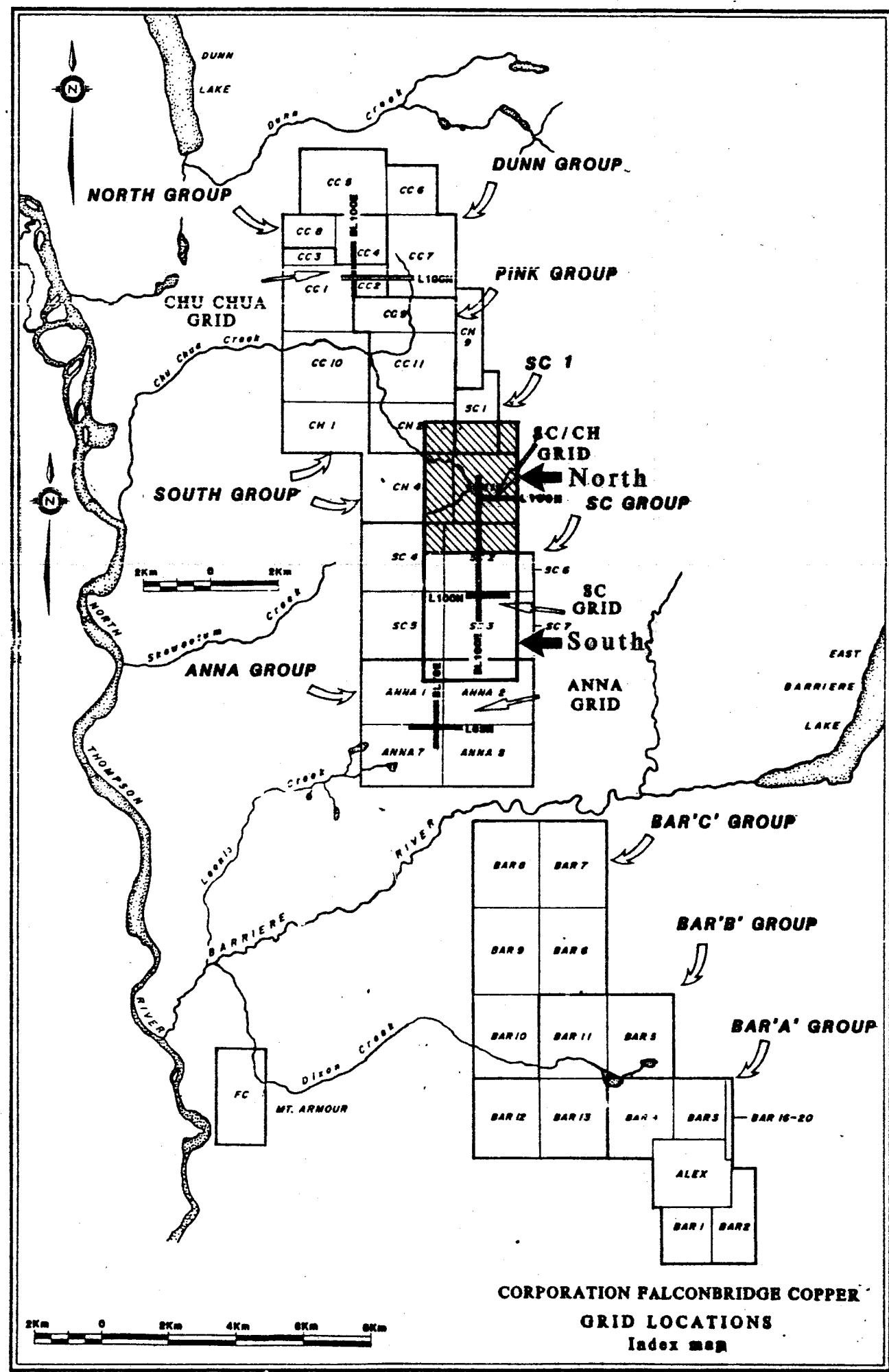
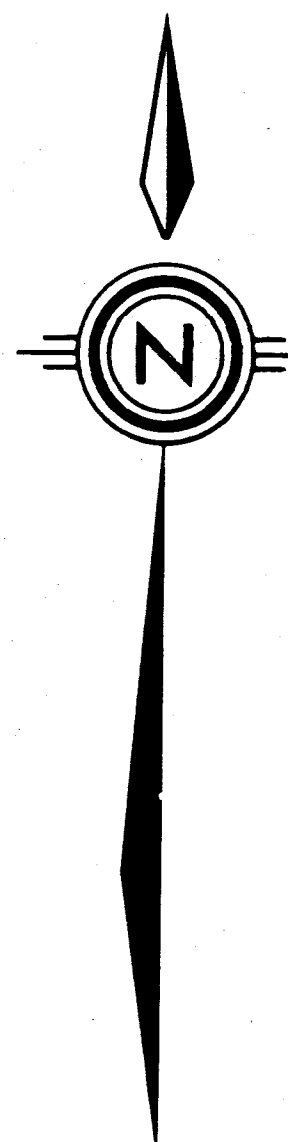
SAMPLE NUMBER	FROM (m)	TO (m)	MAJOR OXIDES										TRACE ELEMENTS							Rock Type	Alt	Min	Zr	Total	
			SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	% Pb	ppm Ag	ppb Au								
421	62.60	65.53	70.47	14.63	0.53	0.37	1.63	8.37	1.82	0.07	0.28	.097	8	46	.005							.019	98.27		
422	65.53	68.88	69.78	15.23	0.17	0.29	1.48	8.75	2.24	0.06	0.24	.105	12	44	.005							.020	98.37		

Hole No. Bar #4

Entered by _____

Logged by _____

Page No. 6



- SYMBOLS**
- Outcrop
 - Fault
 - Fragments
 - Foliation
 - Schistosity
 - Bedding
 - Geological contact (conformable)
 - Geological contact (intrusive)
 - Max. min. anomaly
 - Creek
 - Road

LEGEND

ROCK TYPE	ROCK TYPE TEXTURAL CODES
1 MAFIC VOLCANICS	1. Massive flows
2 INTERMEDIATE VOLCANICS	2. Pillowed flows, breccia
3 FELSIC VOLCANICS	3. Tuff, ash tuff
	4. Lapilli tuff, lapilli and ash
	5. Agglomerate (block size frags > 64mm)
	6. Tuff breccia
	7. Debris flow (1,2, or 3 depending on predominant fragment types)
4 MAFIC INTRUSION	1. Diorite
	2. Gabbro
	3. Diabase
5 FELSIC INTRUSION	1. QFP
6 SEDIMENT	1. Chert, ribbon chert, chert breccia
	2. Chert with argillite
	3. Quartzite argillite for wacke
	4. Quartz pebble conglomerate
	5. Argillite/phyllite
	6. Limestone
	7. Breccia (for quartz wackes) or greenwacke (contingent on chert content)
	8. Limestone cobble breccia
	9. Coarse wackes/grit; 2 sandstones
	10. Multilithic pebble conglomerates (with micaceous clasts, argillite clasts etc.)

ABBREVIATIONS

QFP-quartz feldspar porphyry, bx-breccia, chl-chlorite, epi-epidote, arg-argillite, carb-carbonate, py-pyrite, frags-fragments, alt-altered, tr-trace, ill-float, sil-siliceous, stwk-stockwork, Grn-green, fgr/frgs/frg-fine, med, med, coarse grained

CCF-11 DRILL HOLE LOCATIONS

NOTE: CLAIM BOUNDARIES ARE APPROXIMATE (FROM 1:50,000 GOVERNMENT CLAIM MAPS)

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
15,856

CORPORATION FALCONBRIDGE COPPER

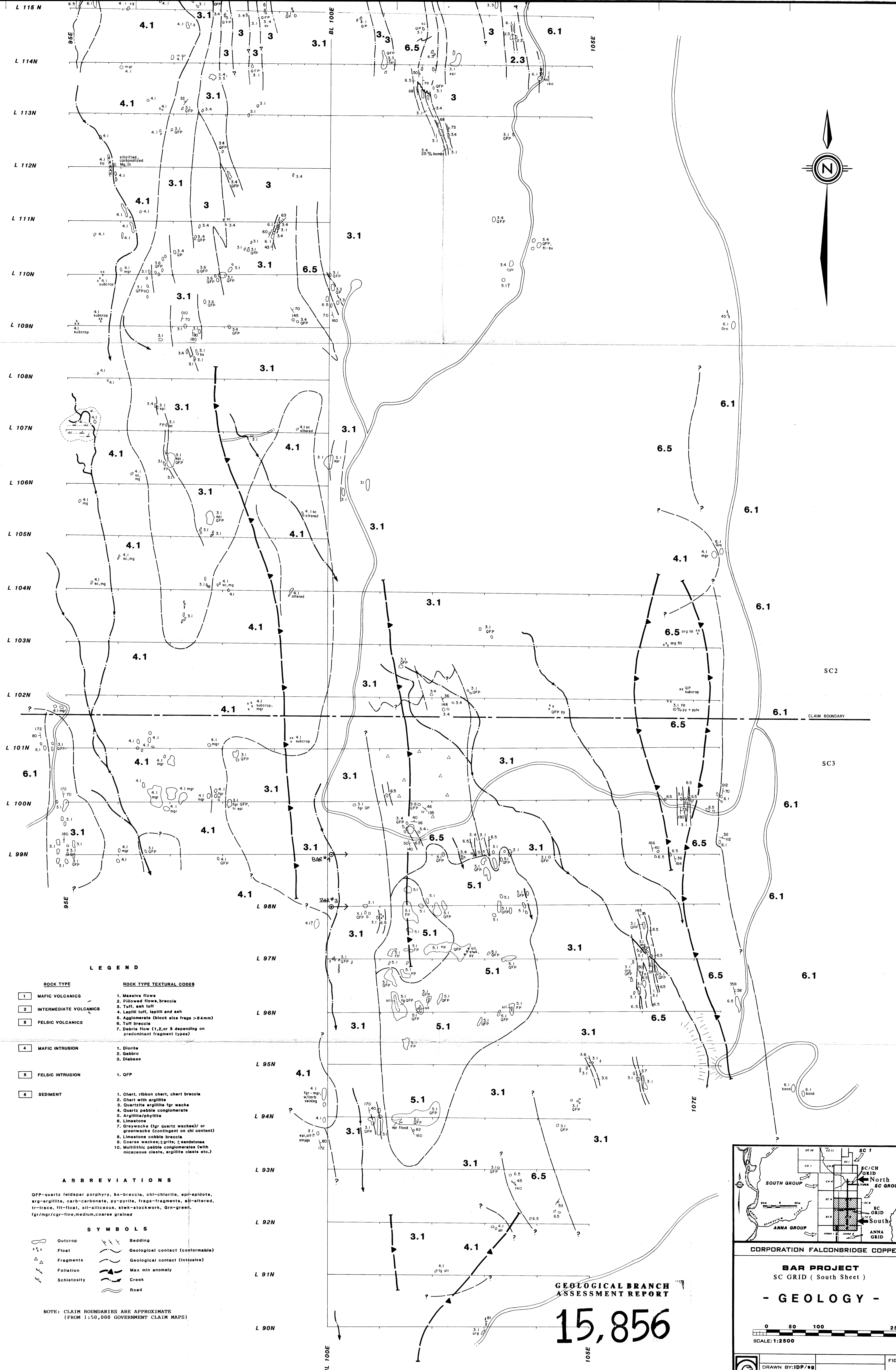
BAR PROJECT
 SC (North Grid) and CH GRID

- GEOLOGY -

0 50 100 250m
 SCALE: 1:2500

DRAWN BY: IP/dm	REVISED FEB. 1987/IP
DATE: NOV. 1986	N.T.S. 82M/4,02P/1

FIG. NO.:
1



LEGEND

- | ROCK TYPE | | ROCK TYPE TEXTURAL CODES | |
|-----------|------------------------|--------------------------|--|
| 1 | MAFIC VOLCANICS | 1. | Massive flows |
| 2 | INTERMEDIATE VOLCANICS | 2. | Pillowed flows, breccia |
| 3 | FELSIC VOLCANICS | 3. | Tuff, ash tuff |
| 4 | MAFIC INTRUSION | 4. | Lapilli tuff, lapilli and ash |
| 5 | FELSIC INTRUSION | 5. | Agglomerate (block size frags > 64mm) |
| 6 | SEDIMENT | 6. | Tuff breccia |
| | | 7. | Debris flow (1, 2, or 3 depending on predominant fragment types) |
| | | 1. | Diorite |
| | | 2. | Gabbro |
| | | 3. | Diabase |
| | | 1. | QFP |
| | | 1. | Chert, ribbon chert, chert breccia |
| | | 2. | Chert with argillite |
| | | 3. | Quartzite argillite for wacke |
| | | 4. | Quartz pebble conglomerate |
| | | 5. | Argillite/phyllite |
| | | 6. | Limestone |
| | | 7. | Greywacke (fgr quartz wackes) or greenwacke (contingent on chl content) |
| | | 8. | Limestone cobble breccia |
| | | 9. | Coarse wackes; grits; sandstones |
| | | 10. | Multituffic pebble conglomerates with micaceous clasts, argillite clasts etc.) |

ABBREVIATIONS

QFP-quartz feldspar porphyry, bx-breccia, chl-chlorite, epi-epidote, arg-argillite, carb-carbonate, pyrrhite, frags-fragments, alt-altered, tr-trace, fit-float, sil-siliceous, stwk-stockwork, Grn-green, fgr/mgr/cgr-fine, medium, coarse grained

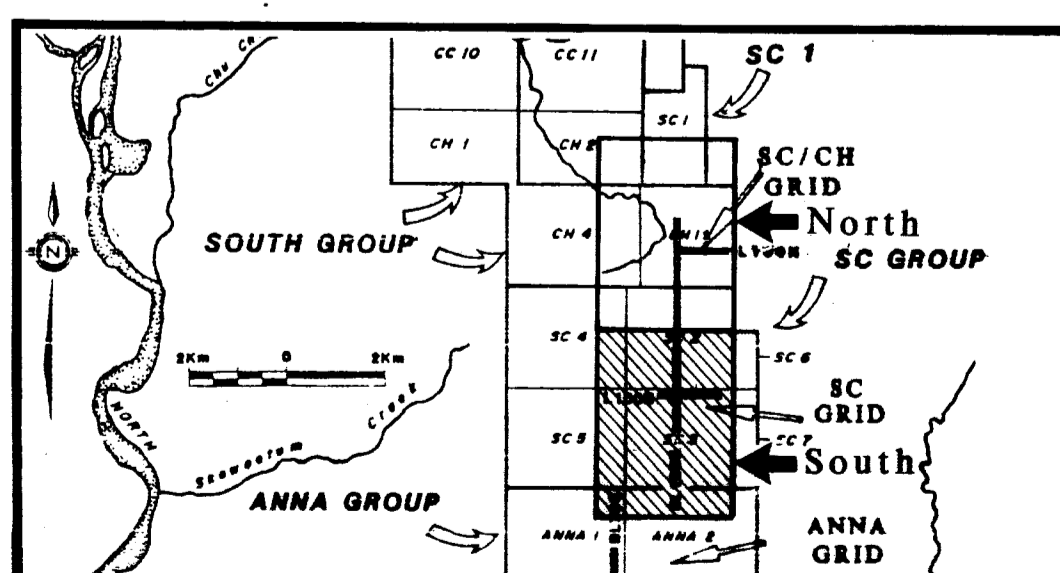
SYMBOLS

- | | | | |
|--|-------------|--|----------------------------------|
| | Outcrop | | Bedding |
| | Float | | Geological contact (conformable) |
| | Fragments | | Geological contact (intrusive) |
| | Foliation | | Max min anomaly |
| | Schistosity | | Creek |
| | Road | | |

NOTE: CLAIM BOUNDARIES ARE APPROXIMATE (FROM 1:50,000 GOVERNMENT CLAIM MAPS)

GEOLOGICAL BRANCH ASSESSMENT REPORT

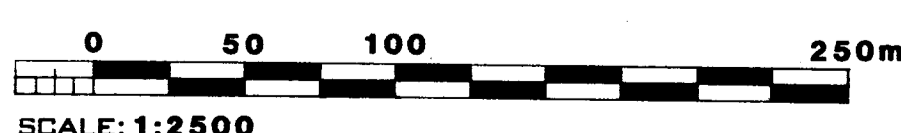
15,856



CORPORATION FALCONBRIDGE COPPER

BAR PROJECT
SC GRID (South Sheet)

- GEOLOGY -



	DRAWN BY: IDP/gg	FIG. NO.:
	DATE: OCT. 1988	N.T.S. 82M4/92P1

2

99+00 E

100+00 E

101+00 E

102+00 E

W

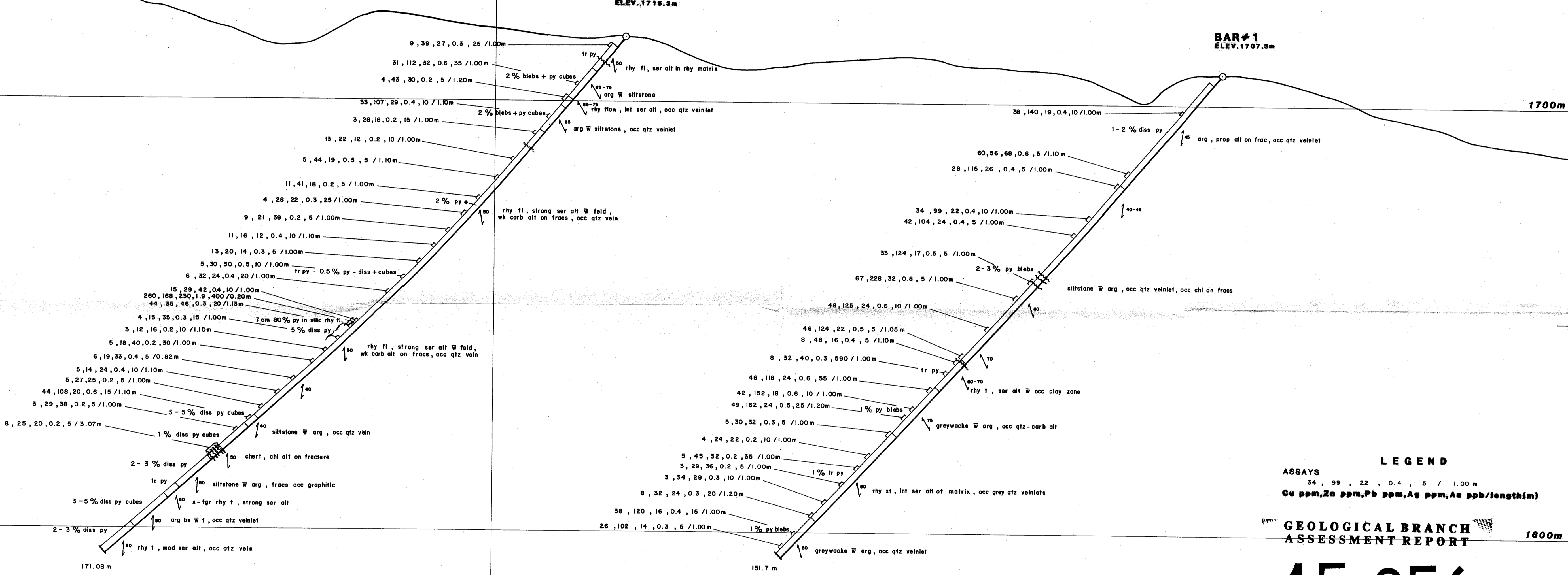
E

BAR#2
ELEV. 1716.3m

BAR#1
ELEV. 1707.3m

1700m

1600m



LEGEND

ASSAYS
 34, 99, 22, 0.4, 5 / 1.00 m
 Cu ppm, Zn ppm, Pb ppm, As ppm, Au ppb/length(m)

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

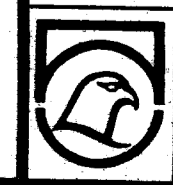
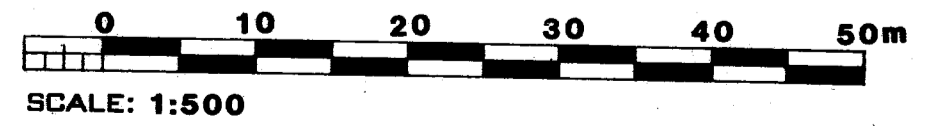
15,856

ABBREVIATIONS

QFP-quartz feldspar porphyry, bx-breccia, chl-chlorite, epi-epidote, arg-argillite, carb-carbonate, py-pyrite, frags-fragments, alt-altered, tr-trace, fit-float, sil-siliceous, stwk-stockwork, Grn-green, vol-volcanic, fgr/mgr/cgr-fine, medium, coarse grained, qtz-quartz, monz-monzonite, frac-fracture, inclus-inclusion, dlor-diorite, cpy-chalcopyrite, congl-conglomerate, w-with, t-tuff, lt-lapilli tuff, xt-crystal tuff, x-crystal, dk-dyke, rhy-rhyolite, wk-weak, and-andesite, feid-feldspar, ser-sericite, prop-propylitic, occ-occasional

CORPORATION FALCONBRIDGE COPPER

BAR PROJECT
 SC GRID
 BAR#2, BAR#1
 SECTION 118+00 N
 GEOLOGY/ASSAYS



DRAWN BY: IP/sg
 DATE: DEC. 1986 N.T.S. 82M, 92P

FIG. NO.:
 3

99+00 E

100+00 E

101+00 E

102+00 E

W

E

BAR#2
ELEV. 1715.3m

BAR#1
ELEV. 1707.3m

1700m

1600m

171.08 m

151.7 m

LEGEND

4, 28, 0.005, 820
Cu, Zn ppm, Pb%, Ba ppm

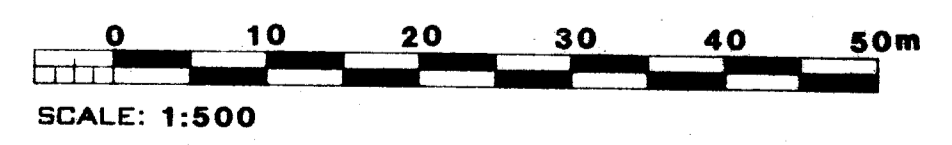
74.24, 14.98, 1.03, 0.71, 0.57, 3.76, 2.82, 0.07, 0.42, 0.005
SiO₂, Al₂O₃, CaO, MgO, Na₂O, K₂O, FeO, MnO, TiO₂, Zr %

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,856

CORPORATION FALCONBRIDGE COPPER

BAR PROJECT
SC GRID
BAR#2, BAR#1
SECTION 118+00 N
LITHOGEOCHEMISTRY



DRAWN BY: IP/sg	FIG. NO.:
DATE: DEC. 1986	4
N.T.S. 82M, 92P	

99+00 E

100+00 E

101+00 E

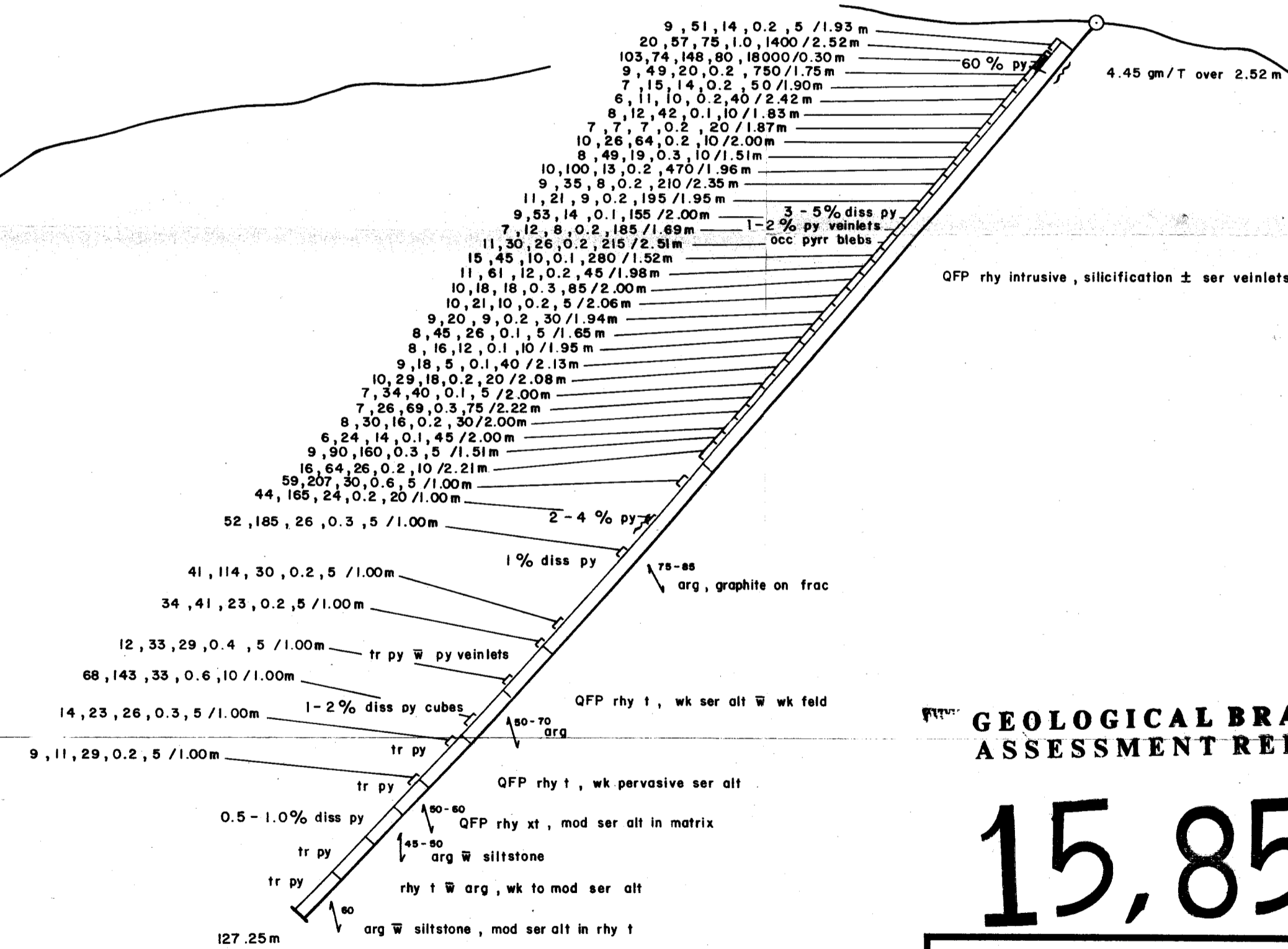
102+00 E

W

E

1600m

BAR#3
ELEV. 1576.2m

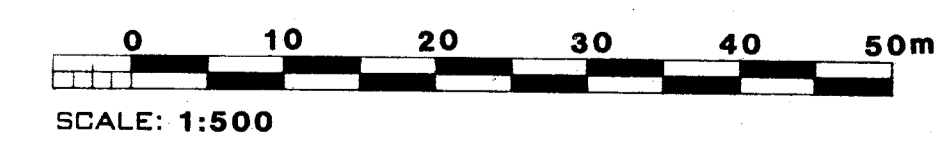


GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,856

CORPORATION FALCONBRIDGE COPPER

BAR PROJECT
SC GRID
BAR#3
SECTION 98+00 N
GEOLOGY/ASSAYS



LEGEND

ASSAYS
34, 41, 23, 0.2, 5 / 1.00 m
Cu ppm, Zn ppm, Pb ppm, Ag ppm, Au ppb/length(m)

ABBREVIATIONS

QFP-quartz feldspar porphyry, bx-breccia, chl-chlorite, epi-epidote, arg-argillite, carb-carbonate, py-pyrite, frags-fragments, alt-altered, tr-trace, flt-float, sil-siliceous, stwk-stockwork, Grn-green, vol-volcanic, fgr/mgr/cgr-fine, medium, coarse grained, qtz-quartz, monz-monzonite, frac-fracture, Incls-inclusion, dior-diorite, cpy-chalcopyrite, congl-conglomerate, w-with, t-tuff, lt-lapilli tuff, xt-crystal tuff, x-crystal, dk-dyke, rhy-rhyolite, wk-weak, and-andesite, feld-feldspar, ser-sericite, prop-propylitic, occ-occasional



DRAWN BY: IP/sg
DATE: DEC. 1986 N.T.S. 82M,92P

FIG. NO.:
5

99+00 E

100+00 E

101+00 E

102+00 E

W

E

1600m

1500m



LEGEND

8.92, 0.005, 1390
Cu, Zn ppm, Pb%, Ba ppm

72.57, 15.55, 0.02, 0.58, 3.87, 2.94, 2.35, 0.01, 0.26, 0.017
SiO₂, Al₂O₃, CaO, MgO, Na₂O, K₂O, FeO, MnO, TiO₂, Zr%

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,856

CORPORATION FALCONBRIDGE COPPER

BAR PROJECT
SC GRID
BAR#3
SECTION 98+00 N
LITHOGEOCHEMISTRY

0 10 20 30 40 50m
SCALE: 1:500

	DRAWN BY: IP/sg	FIG. NO.:
	DATE: DEC. 1986	N.T.S. 82M, 92P

6

102+00E

103+00E

104+00E

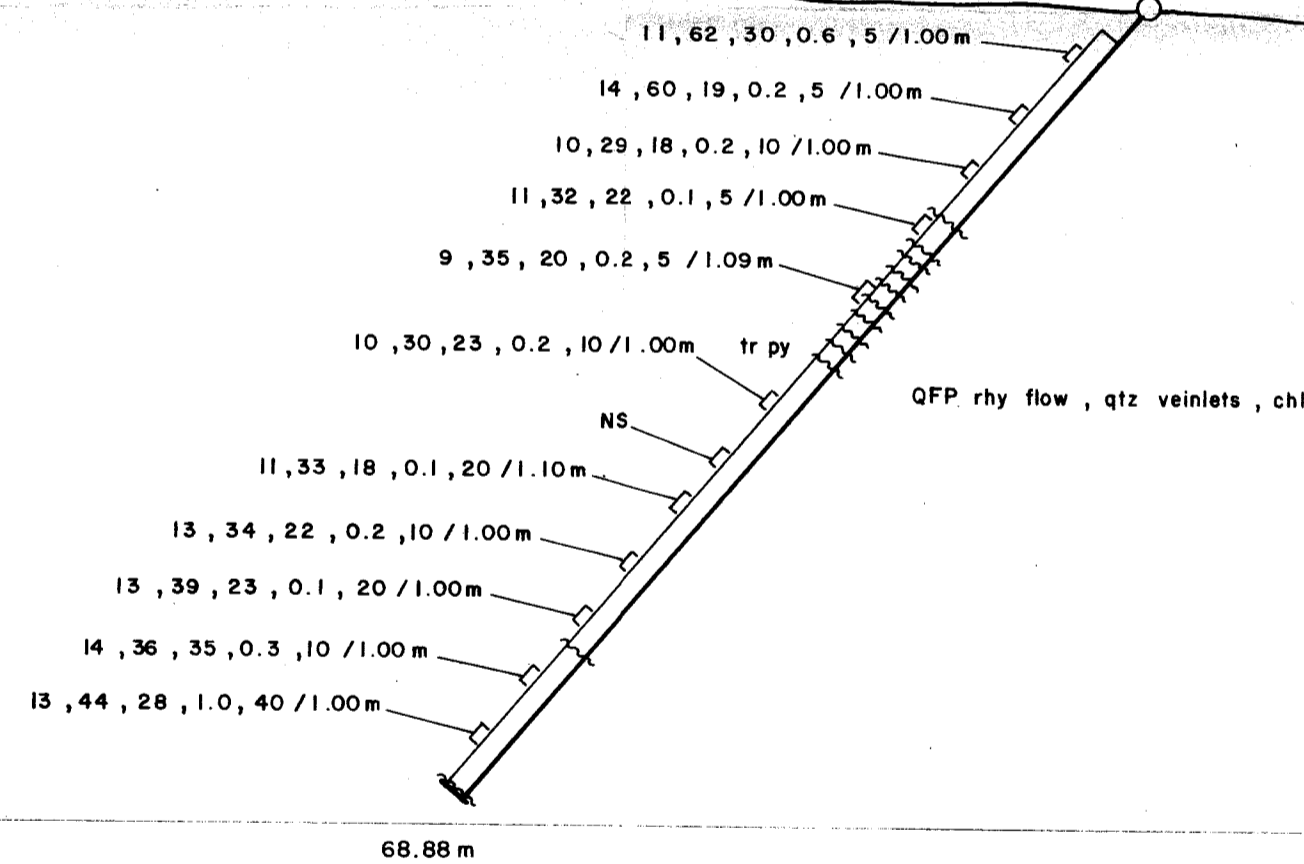
105+00E

1600m

W

E

BAR#4
ELEV. 1554.8m



LEGEND

10, 30, 23, 0.2, 10 / 1.00m
Cu ppm, Zn ppm, Pb ppm, Ag ppm, Au ppb / length(m)

GEOLOGICAL BRANCH
ASSESSMENT REPORT 1500m

15,856

ABBREVIATIONS

QFP-quartz feldspar porphyry, bx-breccia, chl-chlorite, epl-epidote, arg-argillite, carb-carbonate, py-pyrite, frag-fragments, alt-altered, tr-trace, flt-float, sil-siliceous, stwk-stockwork, Grn-green, vol-volcanic, fgr/mgr/cgr-fine, medium, coarse grained, qtz-quartz, monz-monzonite, frac-fracture, Inclusion-inclusion, dior-diorite, cpy-chalcopyrite, congl-conglomerate, w-with, t-tuff, lt-lapilli tuff, xt-crystal tuff, x-crystal, dk-dyke, rhy-rhyolite, wk-weak, and-andesite, feld-feldspar, ser-sericite, prop-propylitic, occ-occasional

CORPORATION FALCONBRIDGE COPPER

BAR PROJECT
SC GRID
BAR#4

SECTION 99+00 N

GEOLOGY/ASSAYS



SCALE: 1:500



DRAWN BY: IP/eg

DATE: DEC. 1986

N.T.S. 82M, 92P

FIG. NO.:

7

102+00E

103+00E

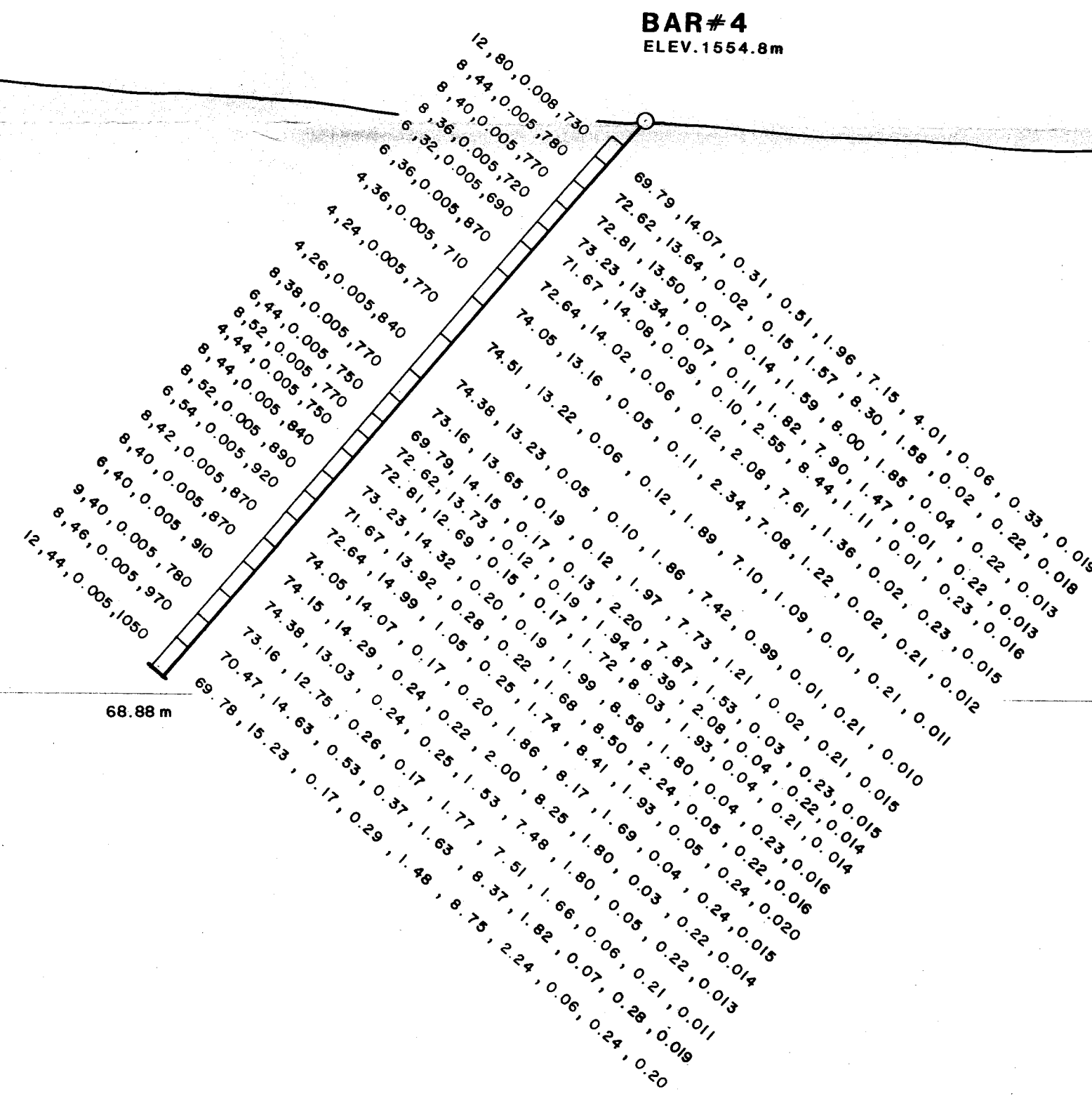
104+00E

105+00E

1600m

W

E



LEGEND

4, 24, 0.005, 770 Cu, Zn ppm, Pb%, Ba ppm	74.51, 13.22, 0.06, 0.12, 1.89, 7.10, 1.09, 0.01, 0.21, 0.010 SiO ₂ , Al ₂ O ₃ , CaO, MgO, Na ₂ O, K ₂ O, FeO, MnO, TiO ₂ , Zr %
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GEOLOGICAL BRANCH
ASSESSMENT REPORT 1500m

15,856

CORPORATION FALCONBRIDGE COPPER

BAR PROJECT
SC GRID
BAR#4

SECTION 99+00 N
LITHOGEOCHEMISTRY

SCALE: 1:500

	DRAWN BY: IP/sg	FIG. NO.:
	DATE: DEC. 1986	N.T.S. 82M, 92P

8