

DIAMOND DRILLING REPORT

PEPPA GROUP

827165

Victoria Mining Division

NTS 92B/13W

Owner: Corporation Falconbridge Copper  
Operator: Corporation Falconbridge Copper

by A. J. Davidson

June 28, 1984

Claims

Rocky 1	CF Group #8	Lenora
Rocky 2	CF Group #13	Tyee
Rocky 3	CF Group #14	Key City
Rocky 4	CF Group #15	Richard III
Rocky 5	CF Group #16	Magic Fraction
Rocky 6 Fr.	CF Group #17	NT
Acme Fraction	CF Group #18	Golden Rod
CF Group #1	Banana	Nellena
CF Group #2	Acme M.C.	Moline Fraction
CF Group #3	Tony	Blue Bell
CF Group #4	Donagan	Estelle
CF Group #5	XL	Westholme
CF Group #6	Herbert	International Fraction
CF Group #7	Dixie Fraction	Donald
Thelma	Doubtful Fraction	International A Fr.
Imperial Fraction	Muriel Fraction	Westholme Fraction
Phil Fraction		

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## Introduction

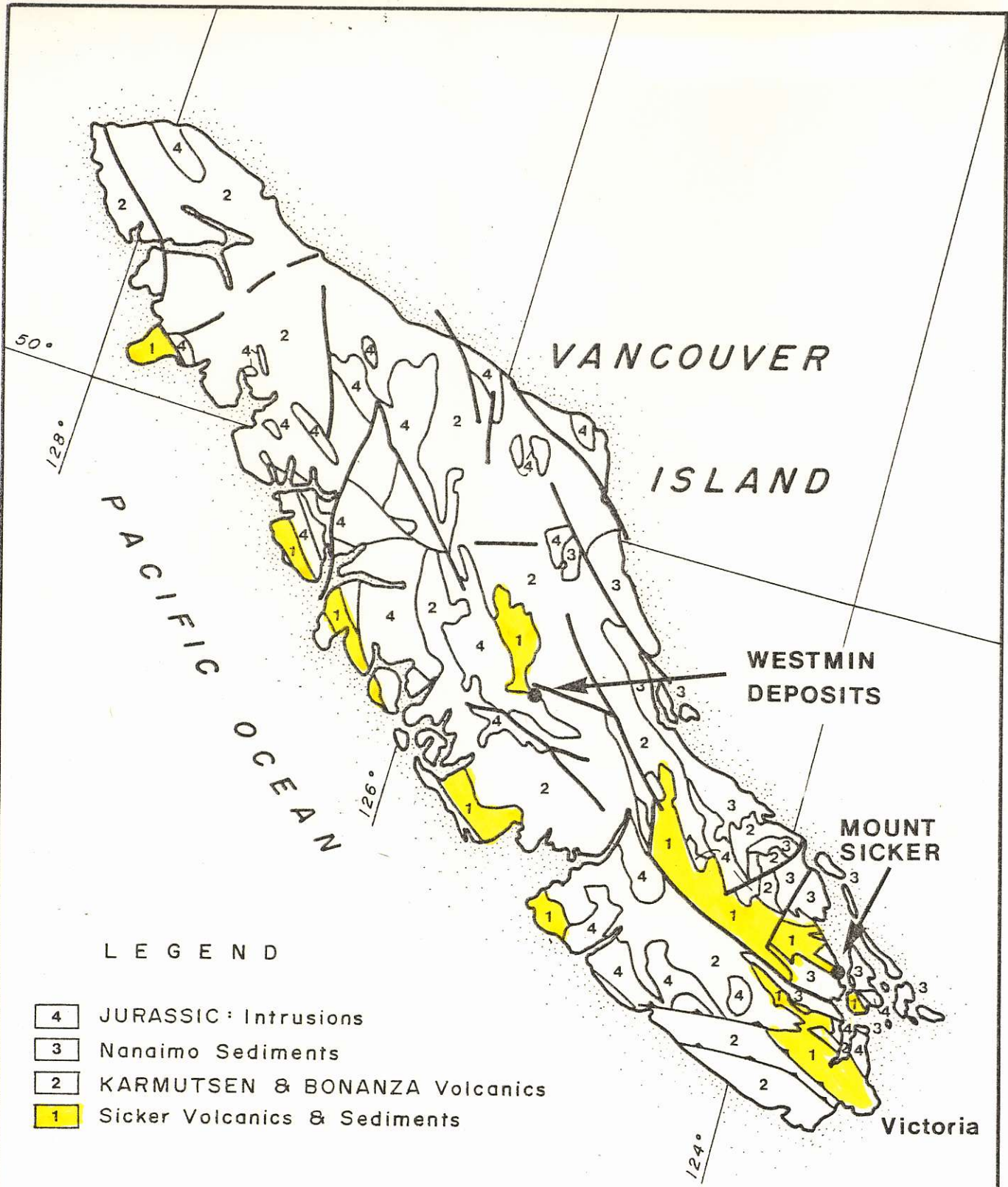
### Location and Access

The Peppa Option is located 13km north of Duncan, B. C. on the slopes of Big Sicker Mountain. Access is by 2 wheel drive vehicle (Figure 1).

### Property

The property consists of the following contiguous claims (Figure 2).

<u>Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Month</u>
Rocky 1	4	155	April
Rocky 2	8	156	April
Rocky 3	8	157	April
Rocky 4	8	158	April
Rocky 5	6	247	July
Rocky 6 Fr.	1	248	July
Acme Fraction	1	254	August
CF Group #1	1	14150	October
CF Group #2	1	14151	October
CF Group #3	1	14152	October
CF Group #4	1	14153	October
CF Group #5	1	14154	October
CF Group #6	1	14155	October
CF Group #7	1	14156	October
CF Group #8	1	14157	October
CF Group #13	1	14162	October
CF Group #14	1	14163	October
CF Group #15	1	14164	October
CF Group #16	1	14165	October
CF Group #17	1	14166	October
CF Group #18	1	14167	October
Banana	10	1073	August
Acme M.C.	1	4G	



LEGEND

- 4 JURASSIC: Intrusions
- 3 Nanaimo Sediments
- 2 KARMUTSEN & BONANZA Volcanics
- 1 Sicker Volcanics & Sediments

VANCOUVER ISLAND

GEOLOGY

SCALE: 1:2,000,000

% 1751, 21 MAY 70  
SUBJ. TO CONDITIONS  
RELEASE REQUIRED

J.V. 2 667 (9)	J.S. 1 637 (7)	J.J. 3 648 (8)
J.S. 2 681 (9)	J.S. 3 682 (9)	J.J. 661 661 (9)

MT. HALL

Chemainus (P.O.)

OAK 4  
172 (5)

OAK 3  
171 (5)

OAK 2  
170 (5)

OAK 1  
169 (5)

Brenton Lakes

MT. BRENTON

Holyoak L.

001  
116 (8)

002  
117 (8)

NUGGET 1  
745 (1)

BRENT I  
165 (5)

SILVER 1  
835 (5)

PROSPERITY  
270 (8)

78G  
700 (10)

FANG  
534 (5)

SNUGGET 2  
748 (1)

COPPER  
748 (1)

ROCKY 4  
109 (4)

VAL  
482 (2)

PEGGY FR.  
119 (9)

LEN  
483 (2)

TINE  
484 (2)

TINE  
484 (2)

SICKER 1  
624 (5)

ROCKY 3  
157 (4)

BANANA

LITTLE SICKER

SICKER 2  
625 (5)

13120  
13120  
13120

GEO 2  
692 (10)

GEO 1  
691 (10)

WHITE ENSIGN II  
744 (1)

WHITE ENSIGN  
743 (1)

MIN. 4 PARCELS  
600' EITHER SIDE  
% 1751, 21 MAY 70  
SUBJ. TO CONDITIONS  
RELEASE REQUIRED

ROCKY 2  
156 (4)

73002  
20G

BOB'S

VER  
16 (5)

Hospital

Fuller L.

ISLAND

Whitehouse

BOB'S

Stratford Crossing

BOB'S

Tony	1	18G	
Donagan M.C.	1	18G	
XL	1	19G	
Herbert	1	20G	
Dixie Fraction M.C.	1	21G	
Lenora	1	35G	
Tyee M.C.	1	36G	
Key City	1	37G	
Richard III M.C.	1	39G	
Magic Fraction M.C.	1	41G	
NT Fraction	1	43G	
Golden Rod M.C.	1	44G	
Nellena M.C.	1	47G	
Moline Fraction M.C.	1	50G	
Blue Bell M.C.	1	51G	
Estelle M.C.	1	53G	
Westholme M.C.	1	54G	
International Fraction	1	60G	
Donald	1	63G	
Thelma Fraction	1	85G	
Imperial Fraction	1	86G	
Doubtful Fraction	1	87G	
Muriel Fraction	1	108G	
International A Fr.	1	1119	October
Westholme Fr. M.C.	1	59G	
Phil Fraction	1	110G	

### History

The property is part of the Mt. Sicker Camp which has had a history of sporadic mining activity since 1897. The Tyee mine, part of the Peppa Group, produced 305,787 tons of 3.31% Cu, 7.51% Zn, 0.13 oz/ton Au and 2.75 oz/ton Ag from 1909-1952.

The Peppa Group was part of the Mt. Sicker property when Mt. Sicker Mines Ltd. was formed in 1966. In 1972 Ducanex made a reconnaissance geological map of the area and drilled a few holes.

Mt. Sicker Mines Ltd. was taken over by Peppa Resources and the property was optioned to S.E.R.E.M. in 1979. S.E.R.E.M. geologically mapped, soil sampled and ran VLF and some DEEPEM on the property. They drilled 16 holes totalling about 3000 metres testing geophysical targets.

S.E.R.E.M. dropped the option in 1982 and Corporation Falconbridge Copper optioned the property in 1983.

#### Work Done

Two diamond drill holes have been drilled on the property in this program. The first, MTS-4 was drilled on the Herbert claim, was 239.6 metres long, and was of BQ size.

The second, MTS-5, was drilled on the XL claim, was 154.5 metres long, and was of BQ size.

#### Technical Data

Hole MTS-4 was drilled to test the Lenora-Tyee horizon below the workings. The hole intersected mixed mafic and felsic volcanics and was stopped at 239.6 metres.

Hole MTS-5 was drilled to test the Lenora-Tyee horizon west of the old workings. The hole intersected diorite and mafic to felsic volcanics. The hole was stopped at 154.5 metres. Core from both holes is stored at 5215 Hykawy Road, Duncan, B. C.

#### Conclusions

The holes did not encounter Lenora-Tyee type mineralization but did intersect significant volcanics. Further drilling will be necessary to better define the geology.

# STATEMENT OF COSTS

F. BOISVENU DIAMOND DRILLING LTD.  
C/O 200 2695 GRANVILLE STREET  
VANCOUVER, B.C. V6H 3H4

## INVOICE

DATE: May 23, 1984

TO: Corporation Falconbridge Copper  
6415 - 64th Street  
Delta, B.C.  
V4K 4E2

FOR: Surface drilling  
May 16-18, 1984

Drilling <del>██████</del>	\$ 6,287.50	6247.50
Moving	<del>500.00</del>	
Materials	780.15	
Tropari testing	210.00	
	<u>\$ 7,837.65</u>	<u>7237.65</u>

+ CASING PLUGS	264.80
	<u>7501.65</u>

70580-600-205 - 100%

COMPANY CHECK NUMBER

MEMO NUMBER	DATE
F. BOISVENU DIAMOND DRILLING	MAY 23/84
ORDER NUMBER	AMOUNT
70580-600-205	7501.65

AD. [Signature] [Signature] 704-10

PEPPA GROUP



F. BOISVENU DIAMOND DRILLING LTD.  
C/O 200 2695 GRANVILLE STREET  
VANCOUVER, B.C. V6H 3H4

INVOICE

DATE: May 23, 1984

TO: Corporation Falconbridge Copper  
6415 - 64th Street  
Delta, B.C.  
V4K 4E2

FOR: Surface drilling  
May 1-15, 1984

Drilling	<del>\$40,300.50</del> 40189.50
Moving	2,644.00
Others	910.00
Materials	2,710.26
Tropari testing	560.00
Tractor	275.00
	<hr/>
	\$47,408.76 47288.76

70580-600-204 - 28526.41  
70580-600-205 - 18762.35

F. BOISVENU DIAMOND DRILLING MAY 23/84 1

70580 600 204 28526.41  
70580 600 205 18762.35

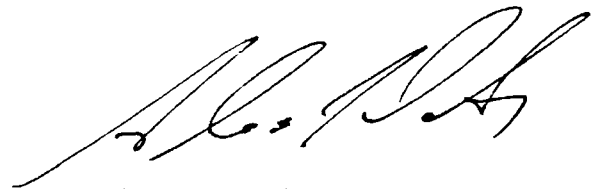
← PEPPA GROUP.

784-10

STATEMENT OF QUALIFICATIONS

I, Alex J. Davidson hereby certify that:

- 1) I hold a Bachelor of Science Degree (Geology Major) and a Master of Science Degree in Economic Geology from McGill University, Montreal, Quebec.
- 2) I have practised my profession in exploration continuously since graduation.
- 3) I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and the results of the field work conducted on the property.



Alex J. Davidson MSc.

Vancouver, British Columbia

## CORPORATION FALCONBRIDGE COPPER

\* METRIC UNITS  
IMPERIAL UNITS

## DRILL HOLE RECORD

HOLE NUMBER MTS 4	GRID CFC 1984 Grid	FIELD COORDS	LAT 9-00S	DEP 2+44.6W	ELEV	COLLAR BRNG 0°	COLLAR DIP 44°	HOLE SIZE BQ	FINAL DEPTH 239.6m
PROJECT 205	CLAIM Herbert	SURVEY COORDS	9-00S	2+50.7W	485.84	DATE STARTED May 11, 1984	CONTRACTOR F. Boisvenu Drilling Ltd.		
PURPOSE This hole was to test the mine horizon below the Lenora pit.							DATE COMPLETED May 14/84	CORE STORAGE Hykawy Rd, CASING Yes	
ACID TESTS			PROPARI TESTS			MULTISHOT DATA			
DEPTH, m	CORRECTED ANGLE	DEPTH, m	CORRECTED ANGLE	DEPTH, m	AZIMUTH	DIP	DEPTH, m	AZIMUTH	DIP
30.5m.	38.5°			50.6	359.5	41°			
60.96m	41°			209.4	360.0	42°			
91.44m.	41.0°			238.0	363.5	40°			
121.92m.	39.5°								
152.4m.	41.0°								
182.9m.	39.0°						Cased with PVC Sch 40 to 180.14m.		

HOLE NO. MTS 4  
ZIPPER POINT BRIDGEPORT RICHMOND

LOGGED BY D. Lefebvre

**CORPORATION FALCONBRIDGE COPPER**

**DRILL HOLE RECORD**

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER MTS 4	GRID GFC 1984 Grid	FIELD COORDS	LAT 9+00S	DEP 2+44.6W	ELEV	COLLAR BRNG 0°	COLLAR DIP 44°	HOLE SIZE BQ	FINAL DEPTH 239.6m
PROJECT 205	CLAIM # Herbert	SURVEY COORDS	9+00S	2+50.7W	485.84	DATE STARTED May 11, 1984	CONTRACTOR F. Boisvenu Drilling Ltd. CORE STORAGE Hykawy Rd, CASING Yes		
PURPOSE This hole was to test the mine horizon below the Lenora pit.								DUNCAN ROD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY
ACID TESTS				TROPARI TESTS			MULTISHOT DATA		
DEPTH (m)	CORRECTED ANGLE	DEPTH (m)	CORRECTED ANGLE	DEPTH (m)	AZIMUTH	DIP	DEPTH (m)	AZIMUTH	DIP
30.5m.	38.5°			50.6	359.5	41°			
60.96m	41°			209.4	360.0	42°			
91.44m.	41.0°			238.0	363.5	40°			
121.92m.	39.5°								
152.4m.	41.0°								
182.9m.	39.0°						Cased with PVC Sch 40 to 180.14m.		

HOLE NO MTS 4  
ZIPPER POINT - BRIDGEPORT RICHMOND

LOGGED BY D. Lefebvre

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
0 - 6.7	Overburden						
6.7 to 17.4	Diorite	Gray	f.g.	Euhedral, white phenocrysts and glomerophenocrysts (< 6mm) in chloritized ferromagresian matrix. Chilled margin (15.95 to 17.4) shows with decreasing grain size, fewer feldspar phenocrysts. Basal contact lost in drilling.		Minor carbonate veinlets.	
17.4 to 27.2	Feldspar Dacite Tuff?			Euhedral white feldspar phenocrysts (< 2mm, ~ 20%)		Minor chloritic alteration.	< 1% diss. py.
27.2 to 29.95	Interbedded Tuff			F.g., gray, foliated at top, more siliceous in centre. Qtz-chlorite vein from 27.75 to 27.9.		Minor chlorite	barren
27.95 to 37.2	Feldspar Dacite Tuff(?)			Similar to 17.4 to 27.2		Small carbonate veinlets at high angle to core common between 33.5 and 34.8. Hematite on fractures.	Qtz vein with associated minor chlorite and diss. py (< 2%) from 33.1 to 33.4
37.2 to 67.57	Intermediate Tuff	Green	F.g.	Subhedral feldspar phenocrysts (< 2mm) in f.g. matrix of ferromagnesian minerals. Similar to overlying unit but more mafic. Feldspars are sausseritized.		Carbonate and purplish hematite on fractures. Epidote patches with silica from 51.7 to ~61.0m. Silicified from 66.7 to 67.3m.	Barren
67.57 to 67.7	Gouge & Qtz vein						
67.7 to 67.95	Bedded Int.			F.g. green & white bedded ash.	60°		Barren

HOLE NO. MTS 4

ZEPHYRUS BRIDGEPORT RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
67.95 to 87.87	Intermediate Tuff(?)			Grades from aphanitic to f.g. over 2m. Becomes similar to f.g. diorite below 72m.		Epidote occurs as 1/2cm patches in f.g. ash. Patches occasionally up to 3cm across. Carbonate veinlets with hematite borders.	Barren
87.87 to 154.1	Mafic Tuff(?)			Top portion (87.87 to 88.9) is bedded. Change to aphanitic chloritic mafic volcanic which grades into f.g. ash tuff similar to 67.95 to 87.87m. at ~93.4m. Minor gouge and qtz vein at 88.0 to 88.45m. Broken rock at 93.05 to 93.4 Good internal contact at 102.5m. Feldspar phenocrysts up to 2mm prominent in certain sections. Foliated with qtz vein at basal contact. Little indication of fault.	60°  55°	Silicification. Hematite and silicification pronounced from 93.6 to 102m. Below 128m, hematite on fractures disappears. Moderate chlorite in some f.g. sections.	Barren except for occasional traces of pyrite.
154.1 to 159.89	Banded Chert Mafic Tuff and Chlorite			Thin beds (1/2 to 1cm) wide of gray chert, ash and chloritic ash. Becomes more siliceous towards base.		Moderate chlorite in some ash(?) layers.	Diss. pyrite (1-3%) associated with chloritic layer and chert. Chert(?) layer of 156.0m contains 25% sulphides (8% cp, 17% py) over 1cm.
159.89 to 160.57	Cherty Rhyolite?			Massive chert to siliceous rhyolite.			1-2% diss. py.
60.57 to 172.88	Rhyolite Lapilli Tuff			Cherty fragments in a chloritic matrix. Fragments subhedral, up to 5cm.		Matrix strongly chloritized from 160.57 to 166m.	1-2% diss. py.

MTS 4

HOLE NO \_\_\_\_\_

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
172.88 to 173.62	Mafic Dyke			Top contact sharp and slightly irregular.	70°	Carbonate veinlets.	Barren
173.62 to 180.83	Felsic Lapilli Tuff			Similar to unit above dyke but more siliceous material, fragments less clear. May be contorted bedding or fragments at 175m.		Minor chlorite. Veinlets and small patches of creamy, white mineral.	Pyritic band from 176.22 to 176.26m. 30% py & 5% cp. Generally 2-5% py associated with chert.
180.83 to 190.2	Rhyolite Flow?			Occasional quartz eyes (< 2mm, 1-2%) set in massive siliceous rhyolite.		Creamy, white mineral as small veinlets.	Trace pyrite.
190.2 to 196.23	Felsic Lapilli Tuff			Weak foliation in upper part of unit.	45°		1-5% py as diss.
196.23 to 199.3	Chloritized Felsic Lapilli Tuff			Dark green chloritic rock with patches and bands of chert.		Intensely chloritic.	0-7% diss. py.
199.3 to 199.98	Semi-Massive Sulphides in a Chert Breccia			Gray chert forms matrix to chert fragments.			10-40% py in matrix of a chert breccia.
199.98 to 211.88	Felsic Lapilli Tuff?			Gray felsic rhyolite with sections which appear to contain fragments.		Minor sericite and chlorite.	Trace pyrite.
211.88 to 232.57	Rhyolite with Scattered Qtz Eyes			Massive white to green rhyolite with small (< 1mm) Scattered qtz eyes? Qtz eyes difficult to distinguish.		Silicified from 218.15 to 219.45.	Barren.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
232.57 to 233.89	Mafic Dyke?	Gray	Aphanitic	Massive, soft. Sharp contacts.		Chloritic.	Barren.
233.89 to 235.57	Rhyolite with Scattered Quartz Eyes	White		Small scattered Qtz eyes, white, massive rhyolite.			Barren.
235.57 to 236.5	Mafic Dyke or Tuff.			Aphanitic, similar to 232.57 to 233.89, gradational upper contact.		Chloritic, soft.	Barren.
236.5 to 239.6	Rhyolite with Scattered Qtz Eyes			Similar to 233.89 to 235.57.		Creamy white coloured veinlets more pronounced. Sometimes associated with quartz. Feldspar?	Barren.
239.6	EOH						



## CORPORATION FALCONBRIDGE COPPER

### DRILL HOLE RECORD

X METRIC UNITS  
IMPERIAL UNITS

HOLE NUMBER MTS 5	GRID CFC 1983 Grid	FIELD COORDS	LAT	DEP	ELEV	COLLAR BRNG 0°	COLLAR DIP -45°	HOLE SIZE BX	FINAL DEPTH 154.5m.	
PROJECT 205	CLAIM# XL	SURVEY COORDS	8+15.7S	5+33.8W	459.50	DATE STARTED May 15/84	CONTRACTOR Boisvenu	CORE STORAGE Hykawy Road,CASING Yes		
PURPOSE To test the extension of the Lenora-Tyee horizon to the west near altered felsic tuff.								Duncan ROD LOG COLLAR SURVEY	PULSE EM SURVEY MULTISHOT SURVEY	
4 ACID TESTS				2 TROPARI TESTS			MULTISHOT DATA			
DEPTH (m)	CORRECTED ANGLE	DEPTH (m)	CORRECTED ANGLE	DEPTH (m)	AZIMUTH	DIP	DEPTH (m)	AZIMUTH	DIP	
61.0	42.5°			96.62	7.5°	-40°				
91.4	40.0°			150.0	13.5°	-34°				
121.9	35.5°						Cased PVC to 154.8 metres.			
18.3	43.0°									

HOLE NO. MTS 5  
ZIPPY PRINT - BRIDGEPORT, NH 03040

LOGGED BY Marc Legault

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
0 - 12.2m.	Casing						
12.2 to 45.7	Diorite (mafic intrusive)	Dk Green	fine-medium	<p>generally feldspar porphyritic 25% subhedral - up to 2mm - average 1.0mm with glomerocrysts 1% scattered - 3-5mm.</p> <p>in a green matrix of ferro-magnesian material (chlorite-actinolite) of the pyroxene? phenocrysts.</p> <p>Chilled? and sheared beginning at 41.2m.</p> <p>Real chill at 45m.</p>	60°	<p>carbonate ubiquitous - in veins 1cm wide (with up to 30% quartz in larger veins) - random? orientations making up generally less than 5% of core.</p> <p>- in intrusive ground-mass 2-3% calcite (weak ankerite or ferrodolomite).</p> <p>Hematite</p> <p>- rare, in irregular slips and gouge, over less than 1cm width. No real pattern discerned.</p> <p>- chloritic veinlets become abundant (1-2% 2mm wide) in chill along with weak quartz-epidote carb. coloration.</p>	<p>nil.</p> <p>Rock variably magnetic Generally weak to none at chill zone.</p>
45.7 to 65.5m	Intermediate to felsic ash tuff (quartz phenocrysts rare to none)	Pale Grey	ash 2mm	<p>- mm sized light coloured fragments(?) seen in some areas - lost in zones of strong schistosity particularly at:</p> <p>45.7-45.8 - moderate</p> <p>47.3-47.6m - paper pulp</p> <p>Schistosity generally well developed throughout except zones of Sil bleaching.</p>	60-50 70° at 60	<p>wk-mod sericite- gives rock paper schist at 47.3 - 47.6m.</p> <p>wk chlorite sericite</p> <p>silica sericite - narrow 3-4m section ~48.4m. (increase in hardness).</p>	<p>Trace - 1% fine disseminated pyrite occurs throughout.</p> <p>up to 20% dissem. pyrite with occasional chalcopyrite along 5cm wide sections at 46.5 py 5cm in zone of sericitization</p> <p>50.2 - 1% cpy/2cm</p> <p>61.35 - 10cm 30-40% diss py.</p>

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
45.7 to 65.5m Con't	Coarse Ash Tuff(?) near base at 65m.		(ash)	gradually darkens and became grainy and has weak banding toward 65.0m. (banding due to bleaching/chloritization?) 15%, mm sized dark sub-angular fragments in pale matrix.		silicified(?) less sheared, bleached massive looking. 55.0-56.9m (still has mottled look. 58.6-59.0 ditto. Carbonate/quartz carb veins weakly developed throughout < 2mm wide.	65.1- 2cm 30% pyrite with Tr. cpy. 65.5 - 2cm 30% cpy at contact with 3cm section of silicified material.
65.5 to 67.4m	Mafic Volcanic Ash Tuff?	Dark Green	Fine ash <.5mm	Tuffaceous texture/look with 1-2% dark green fragments. Tr. - 1% 1.5mm quartz to mafic filled amygdules??  Wavy - foliation developed - "weakly kinked at 67.0m.	60-50°	Weak moderate chloritic alteration probably function of mafic character. - give soft.  - weak carbonate (calcite) veinlets 1% through section.	Tr - 1% dissem. fine pyrite. Occasionally 5-7% fine pyrite in pea sized clusters stretched(?) out along foliation.
67.4 to 67.5m.	Mafic Intrusive (feldspar porphyry) or crystal bearing tuff?	Green	Fine <1.0mm	Feldspar porph phytic 10-15% mm subhedral euhedral creamy feldspars irregularly distributed in dark matrix. Contact sharp between aphanitic mafic volcanic and feldspar phytic section. No banding, feldspars in clots.	~ 35°		1% disseminated pyrite (not seen in diorites logged previously in other holes).
67.5 to 68.9m.	Mafic Volcanic ash tuff? (same as 65.5-67.4m) or coarse flow?	Dark Green	fine (ash?) <.5mm	Trace 2-4mm qtz amygdules (or pheno?)		Weak - moderate chloritic alteration gives softish character to section.  Tr very fine carbonate veinlets.	Tr - fine disseminated pyrite. Often 2-3mm clusters aligned (stretched) along foliation (or bedding).

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
68.9 to 70.2m	Intermediate to felsic (silicified) ash tuff	Pale Gray	Fine ash <1.0mm	Almost massive looking in section - weakly sheared. Tr. mm. sized quartz phenocrysts? Darks towards 70.2m.		V. weak chloritic alteration. Subtle green mottling in more bleached zones.  2mm. wide carb. filled fractures form less than 1% of core.	Tr 2% disseminated pyrite throughout.
70.2 to 70.5m.	Mafic volcanic (tuff?)	Green to pale grey		1-2% 2-3mm carb filled amygdules? in very fine-grained mafic. Looks almost tuffaceous?		Weak carbonate veinlets.	Nil.
70.5 to 71.3m.	Mafic Intrusive		f.g. 1-2mm	Fine grained along borders 1.0mm grain size. Feldspars abundant in sub-hedral to anhedral mass (2.0mm in size) in centre of dyke. Upper contact irregular Lower contact Contact beings at 71.0m.	30° 0-5°	Bleached in coarse core.	Tr.-1% pyrite near Lower contact zone.
71.3 to 71.5m.	Fine grained mafic tuff? with cherty clots	Dark Green	Fine	Fine grained look of mafic tuff seen above. Probably dilated by these dykes.		Chloritic	1-5% disseminate pyrite.
71.5 to 71.6m.	Finely banded light coloured cherty like sediment/tuff.			Thin mm thick alternating bands (with v. fine disseminated pyrite in some dark bands). - Parting along bands. - Weak slump/fault structures.	Parallel to Core	Weakly Chloritic.	Tr. fine pyrite.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
71.6 to 72.7m.	Feldspar ash tuff Porphyry (intermediate composition)	Light to Medium Green	ash 1-2mm Phenos	Up to 20-25% subhedral feldspar phenocrysts 0.5-2mm in size zones? corroded cores often seen. Do see occasional mm Quartz eye? Lower contact marked by 2-3cm wide pyrite zone and <u>Cherty horizon</u> (3 cm?) thick.		Feldspars are saussuritized? to a pale yellow green colouring. Often with altered cores. Weak chloritic alteration. Some local siliceous areas which may represent silicified zones. Weak carbonate (1%) veinlets.	71.8m. 2cm wide (almost conformable pyrite with 20% possible sphalerite. Tr.-1% fine disseminated pyrite throughout. 40% semi conformable? pyrite over 2-3cm over lower contact.
72.7 to 78.6	Feldspar (to lapilli) tuff porphyry			Same as above except: variable feldspar 5-25% 75.9 - 5cm wide section contact - stretched light coloured feldspar phyrlic fragment 3X 1cm in size - alligned with foliation. -Tr. 1% 2-3mm quartz eyes (amyg?) -foliation ----- -mafic mm sized fragments visible, abundant near 75.5-76.4m. -cherty - siliceous zone with 1-2% feldspars at 74.8m to 75m.	60°	Saussurization of feldspars generally.  Chloritic shears 3mm wide at 75.3m 76.1m	76.5 m. - cm wide pyrite chalcopyrite.
78.6 - 78.7	Intermediate to felsic weakly feldspar phyrlic tuff	Pale Gray Green	Fine <1.0m	Trace quartz phenocrysts (1.0mm). Saussuritized feldspar occur (up to 2%) within the section but are not homogeneously distributed schist/foliation	35-45°	Weak pervasive sericite chlorite alteration. Chlorite is spotty, visible in planes of schistosity. Weak (quartz) carb. veinlets.	Tr pyrite in this fractures and disseminations.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
79.7 - 84.4	Felsic Tuff		Fine to Coarse Ash	- Tr quartz phenocrysts (more abundant than last section). - Fragment size varies but generally coarser down section - may see occasional mm sized fragments at 80-82m. - up to 15-20% visible dark fragments up to 3.0mm long (1mm thick) average 2.0mm.			
84.4 - 84.5	Mafic Intrusive (or tuff)	Dark Green	Fine <0.5mm	Massive looking. Upper Lower	35° ~ 30°	Chloritic. 5-7% 2mm irregular carbonate veinlets.	Nil.
84.5- 84.6	Felsic fine tuff	Light Grey	Very Fine	Same as 79.7 - 84.4			
84.6 - 85.0	Mafic(?) to Intermediate tuff	Medium green to light grey	fine <0.5mm	Dark chloritic looking at 84.6 grading into light coloured fine tuff at 85.0 good schistosity developed	40°	Moderate chlorite alteration throughout, evidenced by good schistosity. 3-5% carb veinlets in dark material at 84.7.	3-5% py in 5cm section near 84.9m along schistosity.
85.0	2cm true thickness dark chloritic mafic fine tuff	dark green	Very Fine barely visible	Contact parallel to schistosity.	35°	Weak-moderate pervasive chlorite (not sure of significance).	3-4% disseminated fine pyrite along schistosity.
85.0 - 89.2	Felsic Tuff	Light-medium grey	Fine ash <0.5mm	Occasional quartz eyes, abundant near 88.9- 1.2% 1-3mm anhedral quartz. Hard to impossible to see fragments with even moderate schistosity lower contact at	~ 25° 25°	Moderate to weak sericite on whole, micaceous but hard. cm wide chite quartz veins make up 1% of core.	87.7 conformable (?) 0.5-1cm wide 40% py with 5% cpy. Tr. disseminated pyrite throughout.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
89.2 - 89.5	Fine mafic tuff (or mafic intrusive)	Dark Green	Fine 1.0 mm avg.	Weakly feldspar phyric 1-2% mm sized subhedral phenocrysts. Discern. mafic fragments (?) (or poorly crystallined ferro magnesian). 2-3mm fragment seen?		1-2% fine carbonate veinlets - hair like & 1% large irregular carbonate veins - 5mm thick.	1-2% fine pyrite in matrix and along carbonate veins.
89.5 - 104.2m	Fine to coarse felsic tuff	Light Grey	Range < 2mm Avg. < 0.5mm	Tuffaceous to massive looking massive sections grade in and out rapidly. Has a speckled appearance.  Tr Quartz eyes - phenocrysts subrounded anhedral, 1.0mm.  Moderate schistosity developed	35°	Weak pervasive sericite alteration throughout.  Thin 3-5mm thick chloritic slips (along schistosity) occurs throughout less than 1% of core with 2-5% disseminated associated. At 101.6 - 20cm wide zone thick carb (quartz) veins - 25% of core.	94.2-94.4 cm thick pyrite stringers cutting across schistosity. Tr 1% py - disseminated from 93.0-97.0m along schistosity. Tr. pin sized cpy in a few small areas along section.
104.2 - 104.4m	Mafic very fine ash tuff	Light grey	vv Fine	Has a tuffaceous grin, soft-barely discern what may be 0.5mm grit.  Lower contact parallel to schistosity	~ 30°	Weak chlorite alteration?	Tr. dissem. pyrite in a few clots 3-4mm in size.
104.4 - 119.7	Fine ash felsic tuff			Tr quartz phenocrysts/eye anhedral 1.0mm average. Core has speckled appearance with pepper grain like fragments(?) throughout schistosity moderately developed	~ 45°	Very weak sericite chlorite alteration. Chlorite moderate defining schistosity near 114.2. Weak bleaching in zones of strong quartz-carb veining 2cm thick white veins near 115.9, 116.3, 116.5, 116.7, 117.5m.	1% Tr disseminated fine pyrite throughout. 3-5% dissm pyrite over 3-4 cm at 114.2m.

MTS 5

HOLE NO

ZIPPY PRINT \* - BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
119.7 - 120.6	Quartz-phyric felsic ash tuff.	Medium Grey	Fine Ash	1% mm sized quartz phenocrysts rounded to elliptical shapes. May see rare mm sized fragment, tuffaceous looking. Siliceous zone at 119.7 in contact with chloritic material up-hole. Weak schistosity.	50° 50°	Very weak sericite throughout.	Tr. to nil fine disseminated pyrite along schistosity.
120.6 - 139.2	Felsic Tuff	Medium -Light Grey	Fine Ash 0.5mm	Tr quartz eye - 1.0mm sized rarely seen. Minor mm sized chloritic zones suggestive of bedding? parael to schistosity (127.0) (131.0) at 131.1 - chewed up core and cleavage/schistosity is poor and at low angle to core axis -----	45° 40° 0° - 10°	V. weak sericitic alteration, sericity defining schistose as before, Weak chloritic streaks are often seen in core throughout. 130.1-130.4 - chloritic dark zone cutting along length of core - 40% of core. Weak spotty chlorite in zone between 141.5-145.6 136.7-137 - moderate sericite giving paper thin schistosity.	Tr. fine disseminated pyrite ubiquitous. 123.5 5cm section of 1-2% fine disseminated pyrite 142.6 Tr. cpy in cm thick chloritic zone with 20% pyrite along schistosity
139.2- 139.8	Quartz phyric Felsic Tuff	Medium Grey	Fine Ash	1-2% 2mm sized rounded quartz 'blebs' give rock a mottled look. distinctive but no real contacts up or down hole - likely a phase of felsic ash tuff schistosity.	20° - 25°	V. weak sericite, weak silicification?	Tr to nil pyrite - finely disseminated.
139.8- 149.7	Felsic Tuff	Light Grey	Fine Ash 0.5mm	same as before, weak schistosity.	25°	V. weak sericite, weak chloritic streaks help define schistosity planes.	Tr - nil fine disseminated pyrite.



FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
149.7 - 154.5 (EOH)	(Feldspar phyric)felsic Tuff			Tr 1% white feldspar pheno- crysts 0.5-2mm in size average 0.5mm, euhedral to anhedral, generally subhedral. Tr quartz 'eyes' 1.0mm average.  152.6 bedding contact schistosity	35°-40° 35°	Weak sericite and v. weak chlorite streaks define schistosity planes.	Tr - Py 2mm fine dissem- inated pyrite throughout.



Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources  
MINERAL RESOURCES BRANCH-TITLES DIVISION

MINERAL ACT

SUB-RECORDER  
RECEIVED  
JUL 24 1984  
M.R. # ..... \$ .....  
VANCOUVER, B.C.

# STATEMENT OF EXPLORATION AND DEVELOPMENT

I, A. J. Davidson ..... Agent for Corporation Falconbridge Copper  
(Name) (Name)  
6415 - 64th Street 6415 - 64th Street  
..... (Address) ..... (Address)  
Delta, B. C. V4K 4E2 Delta, B. C. V4K 4E2  
..... Valid subsisting F.M.C. No. 265189 ..... Valid subsisting F.M.C. No. 266316 .....

STATE THAT

1. I have done, or caused to be done, work on the Herbert and XL  
..... Mineral ..... Claim(s)  
Record No.(s) lot 20G and 19G .....  
Situate at Mount Sicker ..... In the Victoria ..... Mining Division,  
to the value of at least \$26,264 ..... dollars. Work was done from the 11 day  
of May ..... 19 84 ..... to the 17 day of May ..... 19 84 .....

2. The following work was done in the 12 months in which such work is required to be done:

(COMPLETE APPROPRIATE SECTION(S) A, B, C, D, FOLLOWING)

**A. PHYSICAL** (Trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails)

(Give details as required by section 13 of regulations.)

	COST
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
TOTAL PHYSICAL	.....

I wish to apply \$ ..... of physical work to the claims listed below.  
(State number of years to be applied to each claim, its month of record, and identify each claim by name and record no.)

.....  
.....  
.....  
.....  
.....

**B. PROSPECTING** (Details in report submitted as per section 9 of regulations.)  
(The itemized cost statement must be part of the report.)

	COST
.....	.....
.....	.....

I wish to apply \$ ..... of this prospecting work to the claims listed below.  
(State number of years to be applied to each claim, its month of record, and identify each claim by name and record no.)

.....  
.....  
.....  
.....  
.....

<b>C. DRILLING</b> (Details in report submitted as per section 8 of regulations.) (The Itemized cost statement must be part of the report.)	COST
	\$26,264.00
<b>D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL</b> (Details in report submitted as per section 5, 6, or 7 of regulations.) (The Itemized cost statement must be part of the report.) (State type of work in space below.)	
<b>TOTAL OF C AND D</b>	
\$26,264.00	

Who was the operator (provided the financing)? Name .....

Address .....

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) account(s):		
Name of Owner		
(May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.)	1. ....	
	2. ....	
	3. ....	
	4. ....	
<b>TOTAL WITHDRAWAL</b>		
<b>TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL</b>		

I wish to apply \$ 24,300. .... of this work to the claims listed below.

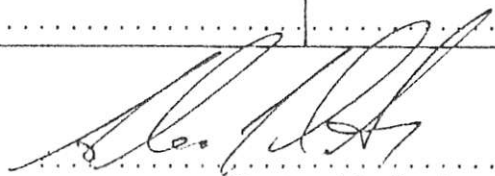
(State number of years to be applied to each claim, its month of record, and identify each claim by name and record no.)

See attached list

Value of work to be credited to portable assessment credit (PAC) account(s).

(May only be credited from the approved value of C and (or) D not applied to claims.)

Name		AMOUNT
In owner(s) name.	1. Corporation Falconbridge Copper	\$1964.00
	2. ....	
	3. ....	
In operator(s) name (party providing the financing).	1. ....	
	2. ....	
	3. ....	

  
 (Signature of Applicant)

July 18, 1984

Name	Record #	Month	Units	Years	Work	\$
Rocky 1	155	April	4	2	\$1600	80
Rocky 2	156	April	8	2	3200	160
Rocky 3	157	April	8	2	3200	160
Rocky 4	158	April	8	2	3200	160
Rocky 5	247	July	6	2	2400	120
Rocky 6 Fr.	248	July	1	1	200	10
Banana	1073	August	10	6	9000	450
International A Fr.	1119	October	1	6	900	45
Acme Fraction	254	August	1	3	<u>600</u>	<u>30</u>
					24,300	1215

**BRITISH COLUMBIA MINING RECEIPT**

Mining Division Victoria

Issued at Vancouver

No 216822 E

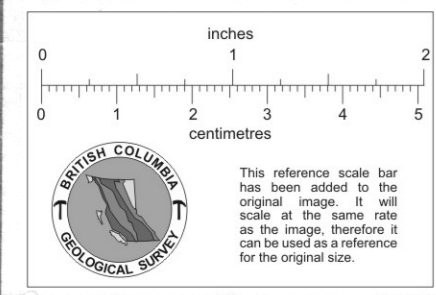
Date July 24 19 84

RECEIVED from Corporation Falconbridge Copper  
the sum of Forty thousand hundred & seventy five <sup>57</sup>/<sub>100</sub> Dollars,

in payment of Leasing work (\$24,300.00) on  
ROCKY #1-5, 6 FR, BANANA, INTERNATIONAL A FR,  
ACME FR. (47 units) plus penalty (\$260.00)  
on ROCKY 5 & 6 FR.

Signature Jill Turner  
Office SUB-RECORDER

\$ 1475.00



0 50 100  
1:5000



CORPORATION FALCONBRIDGE COPPER

**MT. SICKER AREA**

**(DRILL HOLE PLAN)**

0 50 100 500  
SCALE: 1:5000

DRAWN BY: DL	FIG. NO.:
DATE: APRIL 1984	N.T.S. 92 B/13