84-#343 - 12172-

DIAMOND DRILLING REPORT

NUGGET CREEK GROUP

Victoria Mining Division

NTS 92B/13W 48°52.5′ 173°47

Owner: Corporation Falconbridge Copper

Operator: Corporation Falconbridge Copper

by A. J. Davidson May 25, 1984

Claims

Little Nugget Beatrice
Chemainus Morley Jane Fr.

Belle Bonnie I

Dunsmuir Bonnie II

Seattle Bonnie III

Copper King Bonnie IV
Copper Queen Bonnie V

Copper Queen Bonnie V
Queen Bee Bonnie VI

Alliance Fr. CR I

atricia Jane Fr. CR II

Patricia Jane Fr. CR II

Peggy Fr.

GEOLOGICAL BRANCH ASSESSMENT REPORT

12,172

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INTRODUCTION

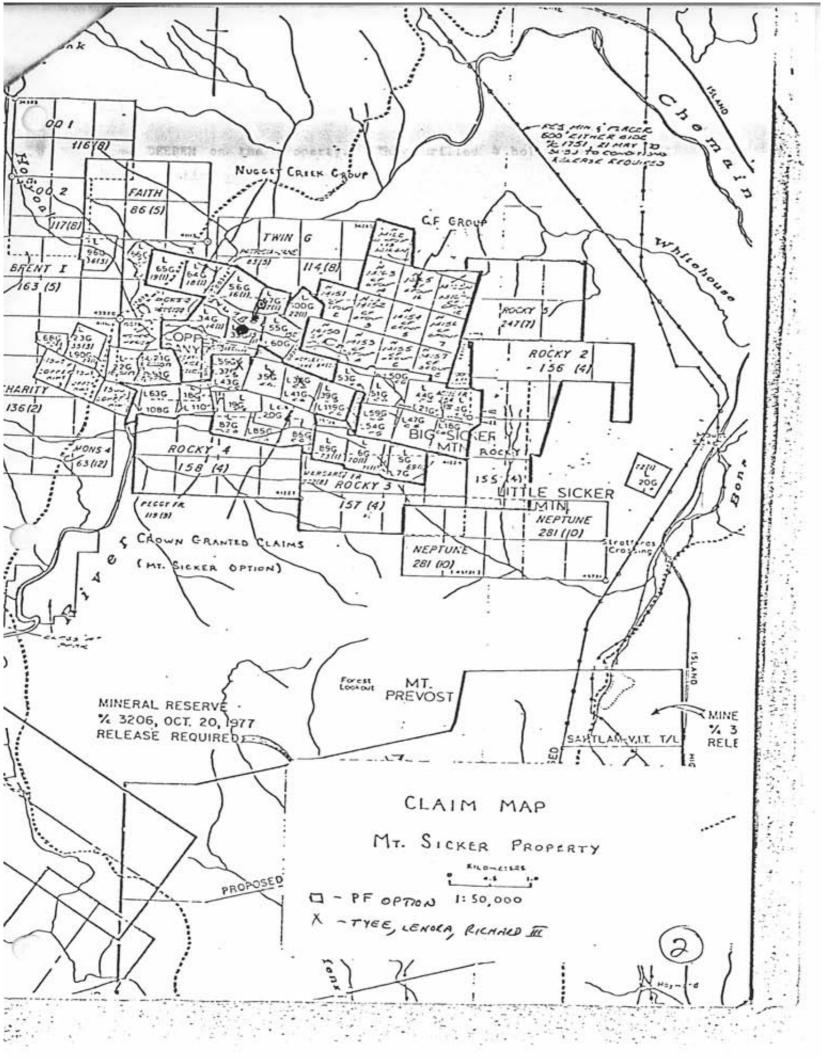
Location and Access

The Postuk-Fulton Option is located 13 km north of Duncan, B. C. on the northwest slope of Big Sicker Mountain. Access is by 2 wheel drive vehicle (Fig. 1).

Property

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

Name	Record #	Month
Little Nugget	13	January
Chemainus	14	January
Belle	15	January
Dunsmuir	16	January
Seattle	17	January
Copper King	1.8	January
Copper Queen	19	January
CRI	929	May
CR II	930	May
Queen Bee	22	January
Alliance Fraction	120	September
Patrica Jane Fr.	83	May
Morley Jane Fr.	84	May
Peggy Fraction	1.1.9	September
Beatrice	121	September
Bonnie I	41.5	September
Bonnie II	41.6	September
Bonnie III	41.7	September
Bonnie IV	418	September
Bonnie V	422	0ctober
Bonnie VI	423	0ctober



History

The property is part of the Mt. Sicker Camp which has had a history of sporadic mining activity since 1897. The Tyee mine adjacent to the Nugget Creek Group produced 305,787 tons of 3/31% Cu, 7.51% Zn, 0.13 oz/ton Au and 2.75 oz/ton Ag from 1949 - 1952.

The Nugget Creek 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 866 feet in two diamond drill holes on the Queen Bee and Seattle claims.

The claims were staked by the present owners Dr. P. Postuk and Mr. S. B. Fulton of Duncan and were optioned in 1979 by S.E.R.E.M. Ltd. S.E.R.E.M. geologically mapped, soil sampled and ran VLF and some DEEPEM on the property. They drilled 4 holes totalling 591 metres testing geophysical responses.

S.E.R.E.M. dropped the option in 1982 when they pulled out of the entire Mt. Sicker area.

WORK DONE

One diamond drill hole has been completed on the Seattle Claim (17(January)). The hole was drilled a total of 175.6 metres and was of BQ size.

TECHNICAL DATA

The hole was drilled to test the western strike extent of sulphide mineralization found 200 metres east of the hole. The hole encountered 35.4 metres of mixed andesite-rhyolite and then 140.2 metres of quartz diorite. The hole was stopped at 175.6 metres. Core is stored at 5215 Hykawy Road, Duncan, B. C.

CONCLUSIONS

The hole did not extend the previously known mineralization and encountered a substantial thickness of quartz diorite. Further drilling will be necessary to better define the geology.

11.11.41.

STATEMENT COSTS OF

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 MTS-/

April 27 to April 30, 1984

Drilling MTS-/ Moving Materials Tropari testing

\$ 9,628.00 **9588.**00 660.00 904.79 140.00 ~

,332 79 10632.79

70580-600-204. -100%.
Affands

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.

THUNDER BAY, ONTARIO.

ALEX J. DAVIDSON MSc.

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

X METRIC UNITS

			,									
HOLE NUMBER MTS 1	GRID CFC GRID	(1983)	FIELD COORDS	3+12N	DEP. 2+22W	ELEV	COLLAR BRNG. 200	0	COLLAR DIP -52	HOLE SIZE BX	FINAL	H 175.6m
PROJECT Postuk-Fulto	n CLAIM#		SURVEY COORDS	3+17.5	1 2+22.8W	337.11	DATE STARTED: DATE COMPLETE	April 28/84 ED: MAY 1/84	CONTRACTOR. F	Hykawy Road,	Orilling La CASING: Ye	td. s
PURPOSE 1) to test the strike project of the SRM 16 exhal 2) to extend the massive chlorite alteration tren					ated at surfa	ice.				Duncan ROD L COLLAR SUR		PULSE EM SURVEY
	ACID 1	TESTS				TROPARI TESTS			MUI	TISHOT DATA		
DEPTH(m)	CORRECTED ANGLE	DEPTH()	CORRECT ANGLE	ED	DEPTH(m)	AZIMUTH	DIP	DEPTH(, A	ZIMUTH	DIP	
19.8	42°				25.9	208	47.0°					
61.0	44.5°				174.0	213.5	42.0°					
96.0	43.5°											
121.9	44°											
1												
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										Me.	11.	47
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	1113	1	
HOLE NO			

LOGGED BY D. Lefebure

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
0 to 16.38	Overburden						
16.38 to 22.01	Intermediate Lapilli and Ash tuff.		f.g. to m.g.	 fine grained to aphanitic at top of unit grading downwards into medium-grained clastic rock siliceous clasts most pronounced, angular, irregular shapes weak foliation @ 60° to CA quartz (minor carbonate) veinlets 	20-35 [°]	NIL	- diss. cp and py (< 1%) - 18.58 to 18.68 - 5% py.
22.01 to 22.85	Gray Massiv Chert or Rhyolite	e Gray	Aphan- itic	 upper contact irregular with fragments of siliceous unit in overlying lapilli and ash tuff massive 		NIL	Barren
22.85 to 27.43	Mafic Ash Tuff	Dark Green	f.g.	 some portions are aphanitic, massive with possible amygdules filled with chlorine carbonate veinlets 	е 30 [°]	Chlorite in tuff and filling amygdules.	Trace diss. py.
27.43 to 27.48	Layered Chert	Grey	aphan.	layers partially broken upbasal contact	50°	NIL	Barren
27.48 to 29.63	Mafic Ash Tuff			- similar to 22.85 to 27.43		Also strong chlorite on fractures.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
29.63 to 35.4	Feldspar Diorite Porphyry	Light Greenish Grey	f.g.	 plagioclase phenocrysts are white with blocky shapes but blurred boundar - 4mm. in a matrix of feldspar ferromagnesion minerals and minor quartz contains scattered amygdul up to 5mm filled with quar occasional halos gradational contact into underlying unit 	es(?)	- carbonate veinlets with associated carbonate, chlorite, specularite at varying angles to core.	h Barren
35.4 to 175	Quartz Diorite	Grey	f.g.	- strongly magnetic - equigranular, fine-grained mixture of plagioclase, magnetitle, amphigole and quartz - 15-20% quartz 53.34-55.5 Shear zone with pronounced foliation, quartz veins with associated chalcopyri 73.5-76.9 mylonitic zone 89.81-94.07		- amphibole is chlori- tized and plagioclase is sausseritized - veinlets of carbonate and chlorite - 5-10cm patches of epidotized diorite occur from 65-72.5 - quartz starts to acquire a pinkish ting from 71-82.7 - magnetite altered to a light brown colour from 75 to 79	
				mylonitic zone more chloritized			- trace pyrite (<< 1%) - 5% pyrite over 2cm at beginnning of mylonitic zone
		-		103.22-103.55 f.g. flow-banded mafic dyke			- make dyke contains 3% diss. pyrite.
				159.82-161.68 shear zone	• • •		- 2cm qtz vein in shear zone with 40% pyrite.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
35.4 to 175 con't				168.98-170.73 - shear zone with quartz-carbonate veinlets with silicified wallrock.			10% sulphides over 10cm with 3% cp and 7% py.
				172.78-172.90 173.15-173.33 173.76-174.62 andesite dykes - f.g. grey with amygdules in the dyke at 173.15 to 173.33m.			
175m	ЕОН						
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						·	
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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES
				Minor chalcopyrite occur are to be assayed for go 4. No fault was encountered	intermedi z diorite yrite and s in some ld. in the dr	ate lapilli and ash tuff are silicified and chlori quartz-carbonate veins ar quartz veins. Several sa illing. The quartz diori	similar to outcrops east tized with a weak mylonitic e common in the shear zones mples from the shear zones

