

Boyle

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1967
PRELIMINARY
REPORT

ON

DODD LAKE PROPERTY

B.C.

(Boylan - Mickle Option)

VANCOUVER
MINING DIVISION

Vancouver, B.C.
August 15, 1967 S.H. Pilcher

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I N D E X

	Page
PRELIMINARY REPORT ON THE DODD LAKE PROPERTY 1967	----- 1,2,3.
TABLE 1 Drill Hole Data	
TABLE 2 Assay Data	
FIGURE 1 Location Map	----- 4
FIGURE 2 Claim Map	----- In Pocket
FIGURE 3 Bruce Group - Generalized Geology and Drill Hole Locations	----- 5
FIGURE 4 Mary V Group -Generalized Geology and Drill Hole Locations	----- 6

PRELIMINARY REPORT

ON THE

DODD LAKE PROPERTY

(Boylan-Nickle Option)

1 9 6 7

The Dodd Lake property, situated about 70 miles northwest of Vancouver, B.C. contains two separate copper showings located about 3 miles apart (fig. 1). The Bruce showing is on the Bruce #5 claim about 1,500 feet south of Dodd Lake (fig. 2). The Mary V showing is on the Mary V #1 claim, between the Tin Hat and Alaska Pine roads.

On the Bruce Group chalcopryrite occurs as irregular seams within several small masses of quartz and as fracture fillings in the surrounding granodiorite (fig. 3). The main "high grade" showings are found in and around the massive quartz. Small amounts of chalcopryrite are visible in the granodiorite up to 800 feet south of the quartz outcrops, confined mainly to an area of about 800 feet square.

The main showing on the Mary V Group contains chalcopryrite, primarily in disseminated form, occurring both in a strongly foliated granodiorite and in a porphyry near its contact with the granodiorite (fig. 4). A small amount of molybdenite is also present in the granodiorite and porphyry and in a small irregular mass of quartz. Most of the mineralized material observed came from a small pit and several trenches dug in the bed of an abandoned railroad grade. Very little of the "high grade" was seen in place. The copper mineralization, though impressive in its intensity and disseminated form, is confined to a relatively small area in the immediate vicinity of the pit and trenches. The surrounding outcrops are essentially barren.

During the period March - July, 1967 the two groups of claims were mapped geologically and prospected using both soil geochemistry and geophysics. For purposes of control a grid with lines spaced at 200 foot intervals was established on each group. Geologic mapping was done on a scale of 100 feet to the inch. Soil samples were collected at 100 foot intervals along the grid lines and analyzed for copper on the Bruce Group and for both copper and molybdenum on the Mary V. Geophysical surveys were made using magnetometer, E.M. 16, and self-potential equipment. On the Bruce Group a 160 foot trench was blasted into the main showing. A small amount of bulldozer stripping was attempted in the vicinity of the Mary V showing.

As a result of the mapping and other work done on the claim groups only those areas around the main showings, plus one zone at Beaver Lake, were found to be of sufficient interest to warrant drilling. A total of 5,368 feet of diamond drilling was completed, of which 3,713 feet were on the Bruce and 1,655 feet were on the Mary V. Holes, 1, 2, 3, 4, 5, 6, 8, 13 and 14 were drilled to test the areas of mineralization which are visible on the surface. The drilling of holes 7, 10, 11 and 12 was for the purpose of testing self-potential anomalies which occur in the vicinity of the showings. Hole 9 was drilled on a good E.M. anomaly located under Beaver Lake. Beaver Lake is at the extreme eastern end of the Bruce Group (fig.24).

The drilling indicates only very low grade copper mineralization and negligible amounts of molybdenite. On the Bruce Group a few 10 foot sections assayed as high as 0.4% copper but averages over 100 foot sections were 0.2% copper and less (table 2). Hole 9 failed to penetrate any sulfides or conductive material and the cause of the anomaly is not known. The few samples assayed from the Mary V gave values generally below 0.1% copper. One 10 foot section assayed 0.3%.

The drill holes were placed in what were judged to be the most favorable areas within the claim groups and in view of the low copper values obtained, no further work is contemplated. The option payment due on September 1, 1967 will not be made.

S. H. Pilcher
S.H. Pilcher,
Geologist

Vancouver, B.C.
August 15, 1967

TABLE 1

DRILL HOLE DATA

BRUCE GROUP

Hole Number	Dip	Azimuth	Collar Elevation	Total Depth
1	90°	----	1,031'	308'
2	60°	170°	1,031'	290'
3	90°	----	1,064'	302'
4	90°	----	1,091'	299'
5	45°	350°	1,144'	504'
6	45°	170°	1,141'	501'
7	45°	350°	1,105'	507'
8	45°	350°	929'	300'
				<u>3,011'</u>

BEAVER LAKE

9	45°	230°	650'	702'
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MARY V GROUP

10	90°	----	1,389'	503'
11	90°	----	1,379'	302'
12	45°	315°	1,379'	302'
13	90°	----	1,314'	298'
14	45°	295°	1,159'	250'

1,655'

TOTAL FOOTAGE

5,368

TABLE 2

ASSAY DATA

HOLE NUMBER	RANGE OF VALUES OVER SECTIONS ASSAYED	LOCATION AND AVERAGE VALUES OVER SECTIONS ASSAYED		
(Bruce Group)	(% Cu)	(Footage)	(% Cu)	(% Mo)
1	0.03 - 0.34	5' - 97'	0.11	
		97' - 198'	0.09	
		198' - 308'	0.09	
		Entire Hole	0.10	
2	0.07 - 0.40	3' - 98'	0.20	
		98' - 198'	0.11	
		198' - 290'	0.10	
		Entire Hole	0.14	
3	0.07 - 0.29	5' - 98'	0.16	
		98' - 197'	0.10	
		197' - 302'	0.13	
		Entire Hole	0.13	
4	0.05 - 0.17	10' - 98'	0.12	
		98' - 198'	0.10	
		198' - 299'	0.10	
		Entire Hole	0.11	

HOLE NUMBER	RANGE OF VALUES OVER SECTIONS ASSAYED	LOCATION AND AVERAGE VALUES OVER SECTIONS ASSAYED			
5	0.04 - 0.11	144' - 202'	0.05		
		202' - 302'	0.05		
		302' - 402'	0.07		
		402' - 504'	0.05		
		144' - 504'	0.05		
6	0.02 - 0.06	25' - 133'	0.03		
7 (% Cu)	0.05 - 0.10	36' - 96'	0.08	0.008	
		(% Mo) 0.005 - 0.03	96' - 196'	0.07	0.011
		196' - 296'	0.08		
		296' - 396'	0.06		
		396' - 496'	0.05		
		36' - 496'	0.07		
8 (% Cu)	0.02 - 0.11	10' - 105'	0.08	0.007	
		(% Mo) 0.006 - 0.012	105' - 205'	0.05	
		205' - 300'	0.05		
		Entire Hole	0.06		
(Mary V Group)					
10 (% Cu)	0.03 - 0.30	68' - 78'	0.30		
		208' - 228'	0.11		
		255' - 275'	0.08		
		295' - 315'	0.05		
		377' - 392'	0.07		
		406' - 411'	0.03		
		418' - 498'	0.05		

HOLE NUMBER	RANGE OF VALUES OVER SECTIONS ASSAYED	LOCATION AND AVERAGE VALUES OVER SECTIONS ASSAYED
11 (% Cu)	0.04 - 0.12	25' - 114' 0.06
		166' - 186' 0.07
12 (% Cu)	0.03 - 0.07	19' - 59' 0.05
		73' - 113' 0.04
		168' - 206' Assay Not Completed
13 (% Cu)		15' - 35' " " "
		108' - 128' " " "



Fig. 1. Location Map of Dodd Lake, Bruce Showing (A),
And Mary V Showing (B).

Scale 1" = 20 Miles.

Fig. 3

Falconbridge Nickel Mines Limited
 Dodd Lake Property - Bruce Group

Generalized Map of Geology
 And Drill Hole Locations
 Main Showing Area

Scale: 1"=100' Aug 7, 1967

SHP

Map Symbols

- Biotite Groundrocks
- Fine-grained Granite
- Diorite
- Granite Porphyry
- Massive Quartz

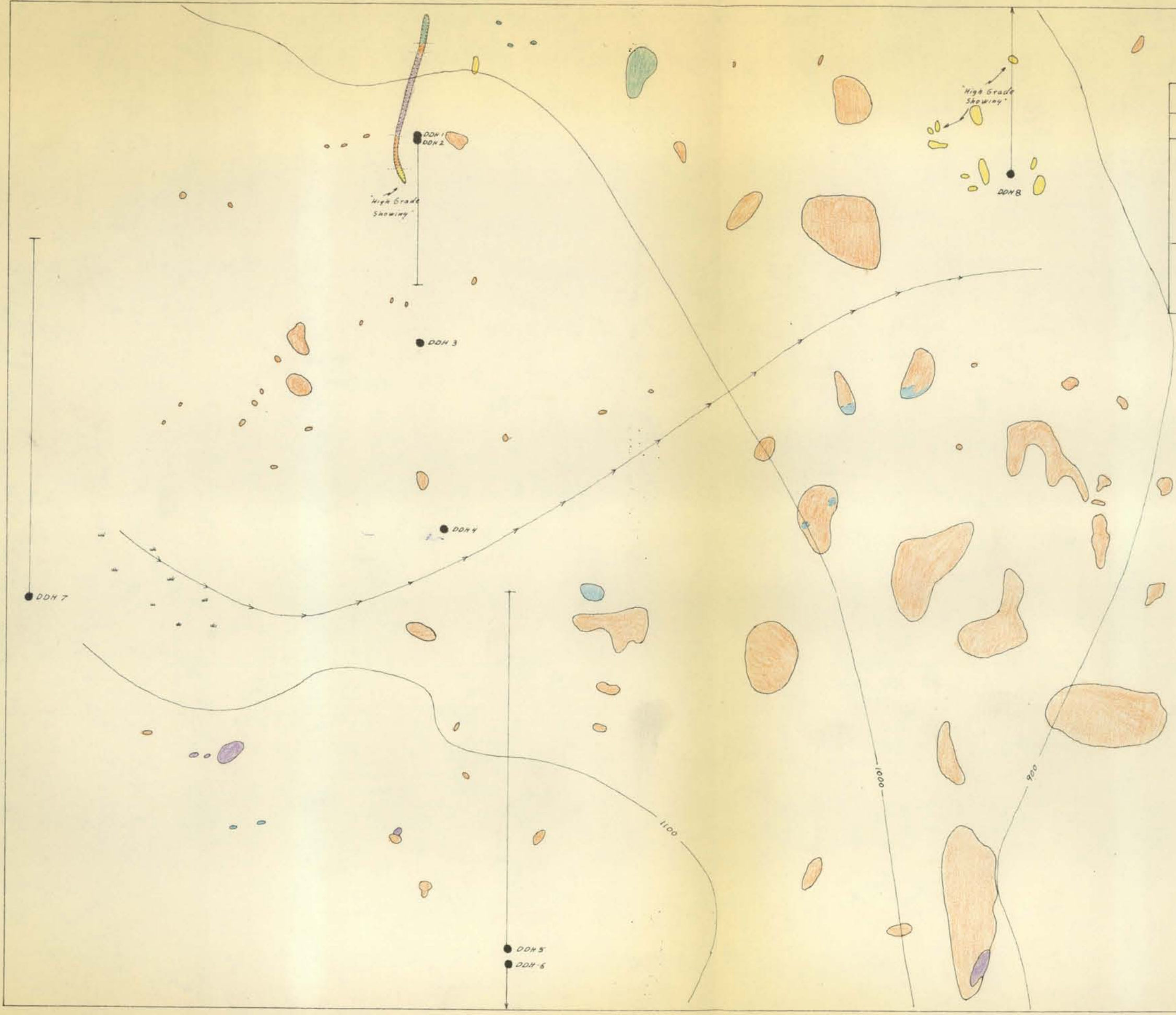


Fig. 4.

Falconbridge Nickel Mines Limited
Dodd Lake Property - Mary V Group

Generalized Map of Geology
And Drill Hole Locations
Main Showing Area

Scale: 1" = 100'

Aug 7, 1967

SHP

Map Symbols

- Biotite Granodiorite
- Fine-grained Granite
- Massive Quartz

