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REPORT ON
FINCH-DUNDAS PROPERTY
CEDARVALE, B. C.

Oct. 23/69

D.H. Brown

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FINCH-DUNDAS PROPERTY

CEDARVALE, B. C.

SUMMARY

The Finch-Dundas property near Cedarvale, B. C. consists of 23 located claims straddling the Skeena River, 50 miles northeast of Terrace and is crossed by both the C. N. R. rail line and Hwy. 16 on the north and south sides of the river.

Interest in the property is centred around a granodiorite stock which occurs on both sides of Hwy. 16 and extends to the north side of the Skeena River and the C. N. R. rail line. The significant mineralization in the quartz diorite stock consists of minor molybdenite coatings on relatively wide-spaced fractures along with pyrite and traces of chalcopyrite. The showings on the north side of the Skeena River exhibit minor chalcopyrite-molybdenite mineralization in meta-sediments adjacent to a barren quartz diorite feeder dyke. The showings in Whiskey Creek and near the lake on claims Jay Dee 25 and 26 show a progressive zoning outward from the chalcopyrite-molybdenite mineralization in the quartz diorite stock to pyrite-pyrrhotite-chalcopyrite veins associated with granodiorite dykes as in Whiskey Creek to pyrite-pyrrhotite-sphalerite-galena veins as seen near the lake on Jay Dee 25 and 26,

CONCLUSIONS

The geological setting for a copper-molybdenum deposit on the Finch-Dundas is typical of other copper-molybdenum occurrences of significance in the area. However, the lack of significant alteration and intensity of mineralization over significant areas as evidenced by the geochemical soils sample results and continuous rock sample assays suggests that this prospect does not have sufficient economic significance to warrant further work.

REPORT
on
FINCH-DUNDAS PROPERTY
CEDARVALE, B. C.

INTRODUCTION

The Finch-Dundas prospect was referred to Dr. A. Smith in a letter dated November 23, 1968 from Mr. R. (Bob) McIvor, prospector from the Terrace area.

LOCATION

The Finch-Dundas claims are on both sides of the Skeena River in the area three miles northeast of Cedarvale, B. C. which is a point on Highway 16 approximately 50 miles northeast of Terrace. Both Hwy. 16 and the C. N. R. rail line to Prince Rupert pass through the property.

OWNERSHIP

The property consists of twenty-three located claims: five belonging to E. J. Finch of Terrace, B. C. and eighteen belonging to A. D. Dundas of New Hazelton, B. C.

TOPOGRAPHY

The claims lie near the bottom of the Skeena River valley which rises from gently to steeply, within the range of the claims on both the south and north sides of the river. The slopes are moderately to densely wooded and overburden ranges from negligible to heavy.

REGIONAL GEOLOGY

The area in the vicinity of Cedarvale is underlain by quartzites dark coloured argillites, siliceous siltstones and meta-sediments of unknown origin. The sediments generally strike northwesterly and show mild to moderate (40°) dips to the northwest. The sediments are

REGIONAL GEOLOGY (Con't)

frequently intruded by granodiorite dykes.

LOCAL GEOLOGY

Whiskey Creek flows from the east to the Skeena River along a set of N. 45° W. and N. 30° E., fractures cutting deeply into a sedimentary sequence consisting of siltstones, meta-argillites both light and dark coloured, calcareous quartzites and dark grey to black shales. These sediments are conformable, generally strike N. 80° and dip at angles to 30° N.E. Although significant folding is not evident, slump structures are common. Narrow to massive granodiorite dykes and sills intrude the sediments at angles from 40° to 80°.

Mineralization in the Whiskey Creek area is chiefly associated with the granodiorite dykes and their contacts. The dykes themselves exhibit minor amounts of disseminated, pyrite. At their contacts, however, veins of quartz, pyrite, arsenopyrite and pyrrhotite with minor chalcopyrite develop, generally, along sedimentary contacts. Although these veins are generally less than 1 in. in width they do reach 3 ft. in width and extend for over 100 ft. from the intrusive contact. A closely spaced quartz stockwork was noted at some points but the quartz is usually barren. Occasionally minor molybdenite was seen on the quartz vein contacts.

To the east of Whiskey Creek on claims Jay Dee 25 and 26, the north side of a small lake is underlain by silicified grey wacke and meta-sediments intruded by a small biotite-quartz monzonite stocks. Near the contact of the stock with the meta-sediments and associated with a strong fracture striking N. 60° W. and dipping 45° N. are two old workings on a narrow vein exhibiting heavy pyrite, arsenopyrite,

LOCAL GEOLOGY (Con't)

pyrrhotite mineralization, with minor chalcopyrite, galena and sphalerite. No similar occurrences of this type of mineralization were found in the vicinity.

The The road cut on Hwy. 16, 3,600 ft., west of Whiskey Creek is made in a relatively small granodiorite or quartz diorite stock. This unit is relatively fresh and unaltered but is moderately fractured. The fractures, which occur in three directions are usually quartz-filled. Pyrite and sericite are found coating some fracture faces and moderate showings of molybdenite form coatings on some quartz-filled fractures.

The railway cut showing on the north side of the Skeena River on claim Jay Bird # 1 occurs in siliceous to calcareous quartzite and dark grey argillite to shale. These sediments are cut by a 20 ft. quartz diorite dyke striking N. 70° E. and dipping 75° N. The dyke appears to be unmineralized but the quartzite and argillite adjacent to the dyke is strongly fractured and mineralized by quartz, pyrite and minor molybdenite. It was noted that there appears to be three sets of fractures as in the Hwy. 16 road cut showing but only one set shows molybdenite mineralization. It was also noted that, although molybdenite mineralization may be found for 100 ft. on either side of the quartz diorite dyke, the greatest concentration of quartz veining and molybdenite occurs adjacent to the dyke and hence is likely to be associated with it. Outcrop on the north side of the river is limited and although bedrock was uncovered in the course of prospecting, no further occurrences of molybdenite mineralization were encountered.

SURVEYING AND SAMPLING

A base line measuring 9,000 ft. in an east-west direction was cut across the property from which north-south soil lines were run.

SURVEYING AND SAMPLING (Con't)

324 soil samples were taken on 200 ft. centres. Sixteen rock samples 25 ft. in length were taken across the road cut on Hwy. 16 and eight rock samples of 25 ft. length were taken across the railway cut on the north side of the river. Sixty feet of rock trench was blasted on claim Jay Bird #6. Assay results are shown in the accompanying schedule and on the accompanying geochemical map.

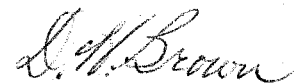
CONCLUSIONS

The main significance of the Finch-Dundas prospect near Cedarvale, B. C. lies in the presence of molybdenite in a quartz diorite stock and the adjacent meta-sediments. Examination showed that:

1. The quartz diorite stock lacked significant alteration.
2. Although the stock is fractured in at least three directions, the molybdenite mineralization is confined mainly to quartz veinlets in one direction only.
3. Where mineralization is present in the meta-sediments adjacent to the intrusive, the intrusive itself appears to be barren suggesting a low degree of mineralization.
4. This low degree of mineralization is borne out by both the soils sample results and the rock sample results which show low and insignificant values.

Vancouver, B. C.

October 23, 1969



D. H. Brown

Falconbridge Nickel Mines Ltd.,

504 - 1112 West Pender Street

Vancouver, BC.



PHONE 272-1111
TELETYPE 272-1111
CABLE ADDRESS
ELDRIDGE

Certificate of Assay
COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION
WARNECK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

FILE NO. A.3-F.2-69-6092

DATE June 9, 1969

We Herby Certify that the following are the results of assays made by us upon submitted ORE samples

MARKED	GOLD		SILVER	Copper (Cu)	Total Molybdenum	PER CENT.	PER CENT.	PER CENT.	PER CENT.	
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT. (Mo)					
34701	Trace	\$ -	Trace	Trace	0.01	width	Location			
34702	Trace	-	0.9	0.03	0.01	8'	Trench #1	Jay Bird #6		
34703	Trace	-	0.1	0.03	0.01	20'	✓ #2	✓	✓	
34704	Trace	-	Trace	0.21	0.01	3'	✓ #3	✓	✓	
34705	0.01	0.35	Trace	0.03	0.005	1'	Jay Dee Lake Showings.			
34706	Trace	-	Trace	0.02	0.01	2 1/2'	Wall rock	Lake Vein wing		
34726	Trace	-	Trace	0.02	0.04	0.5'	Vein	Lake Vein wing		
34727	0.01	0.35	0.1	0.02	0.01					
34728	Trace	-	Trace	0.02	0.005					
34729	Trace	-	Trace	Trace	0.005					
34730	Trace	-	Trace	0.02	0.005					
34731	0.01	0.35	Trace	0.02	0.015					
34732	Trace	-	Trace	Trace	0.01					
34733	Trace	-	Trace	Trace	0.015					
34734	Trace	-	Trace	0.02	0.01					
						- 25'	continuous samples across Hwy. 16 road cut. east to west.			

Gold calculated at \$ per ounce

Note. Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

/jip

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

H. J. [Signature]

Provincial Assayer

TO:

Falconbridge Nickel Mines Ltd. (2)



PROFESSIONAL SERVICES DIVISION
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

Certificate of Assay

COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

WARNOCK HERSEY INTERNATIONAL LIMITED

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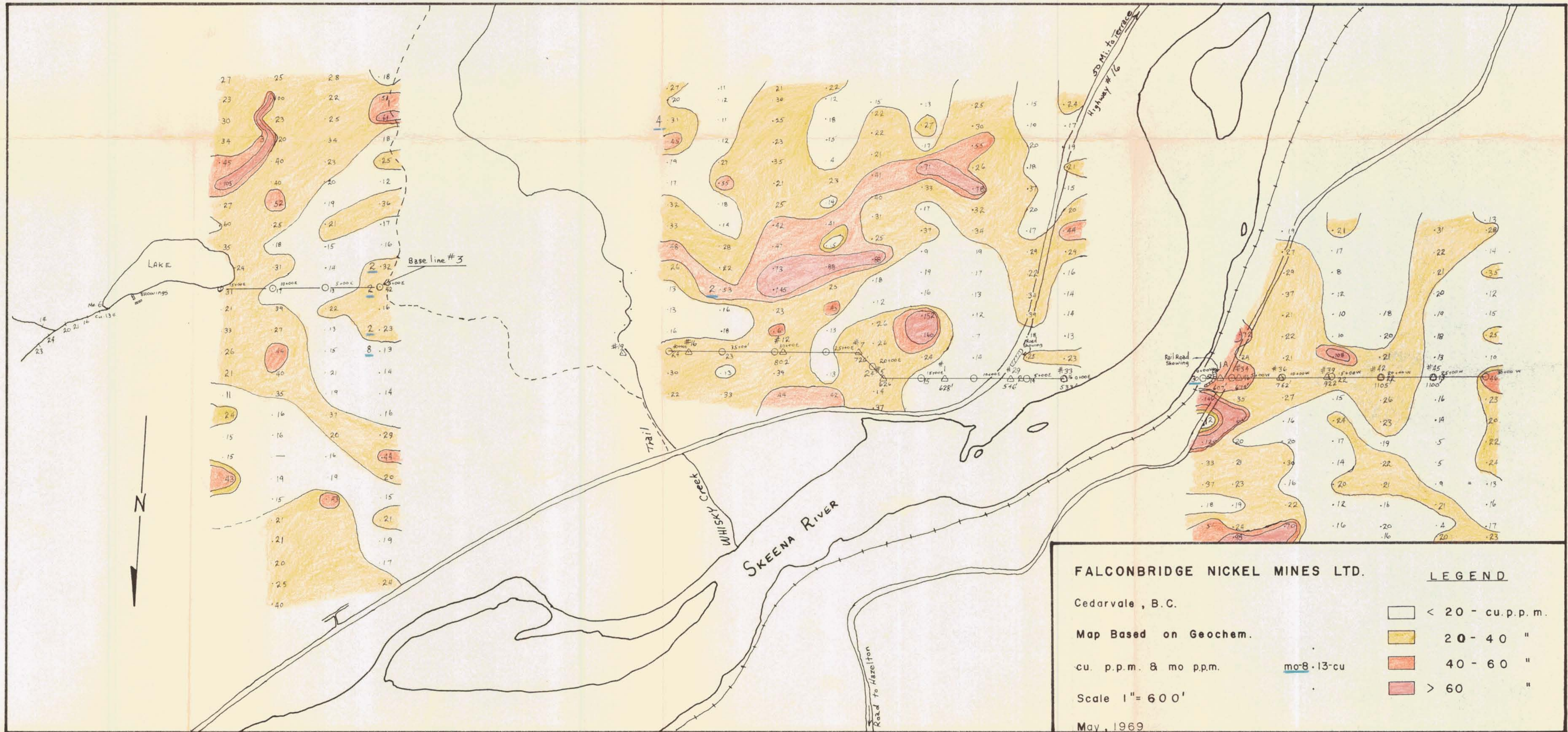
MARKED	GOLD		SILVER	Copper (Cu)	Total Molybdenum	PER CENT.	PER CENT.	PER CENT.	PER CENT.
	OUNCES PER TON	VALUE PER TON	OUNCES PER TON	PER CENT.	PER CENT. (Mo)				
34735	Trace	-	Trace	0.02	0.01	- 25'	Continuous samples across Hwy 16 road cut east to west.		
34736	Trace	-	0.1	Trace	0.015				
34737	Trace	-	Trace	0.02	0.015				
34738	Trace	-	Trace	0.02	0.015				
34739	Trace	-	0.1	0.02	0.01				
34740	Trace	-	0.3	0.02	0.01	- 25'	Continuous samples across Railroad rock cut east to west.		
34741	Trace	-	0.1	0.02	0.005				
34742	Trace	-	0.1	0.02	0.015				
34743	Trace	-	0.1	0.02	0.025				
34744	Trace	-	Trace	0.02	0.01				
34745	Trace	-	Trace	0.02	0.005	- 25'	Continuous samples across Railroad rock cut east to west.		
34746	Trace	-	Trace	0.02	0.01				
34747	Trace	-	Trace	0.02	0.01				
34748	Trace	-	Trace	0.02	0.01				
34749	Trace	-	Trace	Trace	0.03				

Gold calculated at \$ per ounce

Note: Rejects retained one week.
Pulps retained one month.
Pulps and rejects may be stored for a maximum of one year by special arrangement.

Unless it is specifically stated otherwise, gold and silver values reported on these sheets have not been adjusted to compensate for losses and gain inherent in the fire assay process.

Provincial Assayer



FALCONBRIDGE NICKEL MINES LTD.

Cedarvale, B.C.

Map Based on Geochem.

cu. p.p.m. & mo p.p.m.

Scale 1" = 600'

May, 1969

LEGEND

- < 20 - cu.p.p.m.
- 20 - 40 "
- 40 - 60 "
- > 60 "

mo 8.13-cu



FALCONBRIDGE NICKEL MINES L.T.D.
 CEDARVALE B.C.
 LOCATION MAP SHOWING BASE LINES & CLAIMS
 SCALE 1"=600'
 MAY, 1969