

2428

GEOCHEMICAL REPORT

ON

LONE MINERAL CLAIMS

TELKWA RANGE, OMINACA M.D.

1969

N.T.S. 93-L

Vancouver, B.C.

June 12, 1970

D. H. Brown

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Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 2428	MAP

GEOCHEMICAL REPORT

ON

LONE MINERAL CLAIMS 1 - 8

TELKWA RANGE

OMINECA MINING DIVISION

1969

LOCATION AND ACCESS

The Lone Group of eight claims is located on Gabriel Creek, an eastward flowing tributary of Thautil River. (See figure 1.) Access is by helicopter.

PERSONNEL

A crew consisting of a prospector-geologist and three soils-silts samplers spent ten days from July 14 to July 23 carrying out preliminary mapping, silt sampling of creeks and a soils grid over the property.

METHOD OF SURVEY

A total of 200 sediments were collected at 500 foot intervals on all creeks in the vicinity of the claims in order to determine the extent of the chalcopyrite mineralization over which the group was staked. In addition, 461 "B" horizon soil samples were taken at 200 foot intervals on pace and compass lines run east-west 200 feet apart.

GEOLOGY

Coast Range granodiorite intrudes Hazelton volcanics at several locations within and around the claims. The main intrusive body is a small plug about a mile in diameter which straddles Gabriel Creek, 8 miles south of Mooseskin Johnny Lake. Mineralization occurs

both in the granodiorite near its contact and within the intruded Hazelton volcanics. The mineralization consists chiefly of pyrite with minor disseminated chalcopyrite. In general the rocks are relatively unaltered, although minor chloritic alteration occurs along fractures.

GEOCHEMISTRY

Silt samples are shown on the accompanying 1 inch to 1 mile map. Soil samples are shown on the 1 inch to 400 ft. map. Copper and molybdenum values are as shown on the maps.

LABORATORY TECHNIQUE

The minus 80 mesh portions of the above dried samples were analyzed for copper and molybdenum by standard geochemical methods.

Molybdenum was determined by fusing 250 mg. of sample with alkaline flux to render the molybdenum soluble. The fusion was leached with demineralized water and an aliquot of the leach liquor treated with a 2.5 percent solution of hydroxylamine hydrochloride in hydrochloric acid and one percent dithiol solution. After shaking to develop the coloured molybdenum complex, the samples were compared with previously prepared standards to obtain the molybdenum concentration.

Copper was determined by atomic absorption using standard methods.

CONCLUSIONS AND RECOMMENDATIONS

Anomalous copper and molybdenum values are sporadic and of low intensity. No anomalies are present over the areas of low copper mineralization. However, stream silts improved slightly in Gabriel Creek below its junction with the southern tributary.

The following further work is recommended:

- (i) The existing samples should be analyzed for Ag.
- (ii) More detailed soil sampling should be carried out on the existing soil anomalies, and an attempt be made to reach bedrock by means of hand trenching.



D. H. Brown

Vancouver, B.C.
June 12, 1970



COAST DISTRICT

RANGE 5

COAST DISTRICT

RANGE 4

15'

127°00'

45'

FALCONBRIDGE NICKEL MINES LIMITED

1112 WEST PENDER STREET

VANCOUVER 1, B. C., CANADA

TELEPHONE: 682-6242

TELEX: 04-5938

June 12, 1970

The Mining Recorder,
Vancouver, B.C.

Dear Sir:

This is to certify that the geochemical work done on the Lone mineral claims was done under my supervision.

The analyses and evaluation of the results were done under the direction of Dr. I. L. Elliott, Chief Geochemist of Falconbridge Nickel Mines Limited. Dr. Elliott received his Doctorate from the Royal School of Mines, Imperial College, London, England. He has been in charge of geochemical surveys in Africa and the Dominican Republic in addition to four years in British Columbia.

I am a graduate in Geological Engineering from the University of B.C. and am a member of the Associations of Professional Engineers of Ontario and British Columbia.

Yours very truly,

FALCONBRIDGE NICKEL MINES LIMITED



D. H. Brown, P.Eng.

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.

In the Matter of

GEOCHEMICAL REPORT ON
LONE MINERAL CLAIMS
OMINECA MINING DIVISION

To Wit:

I, David H. Brown

of Vancouver, B.C.

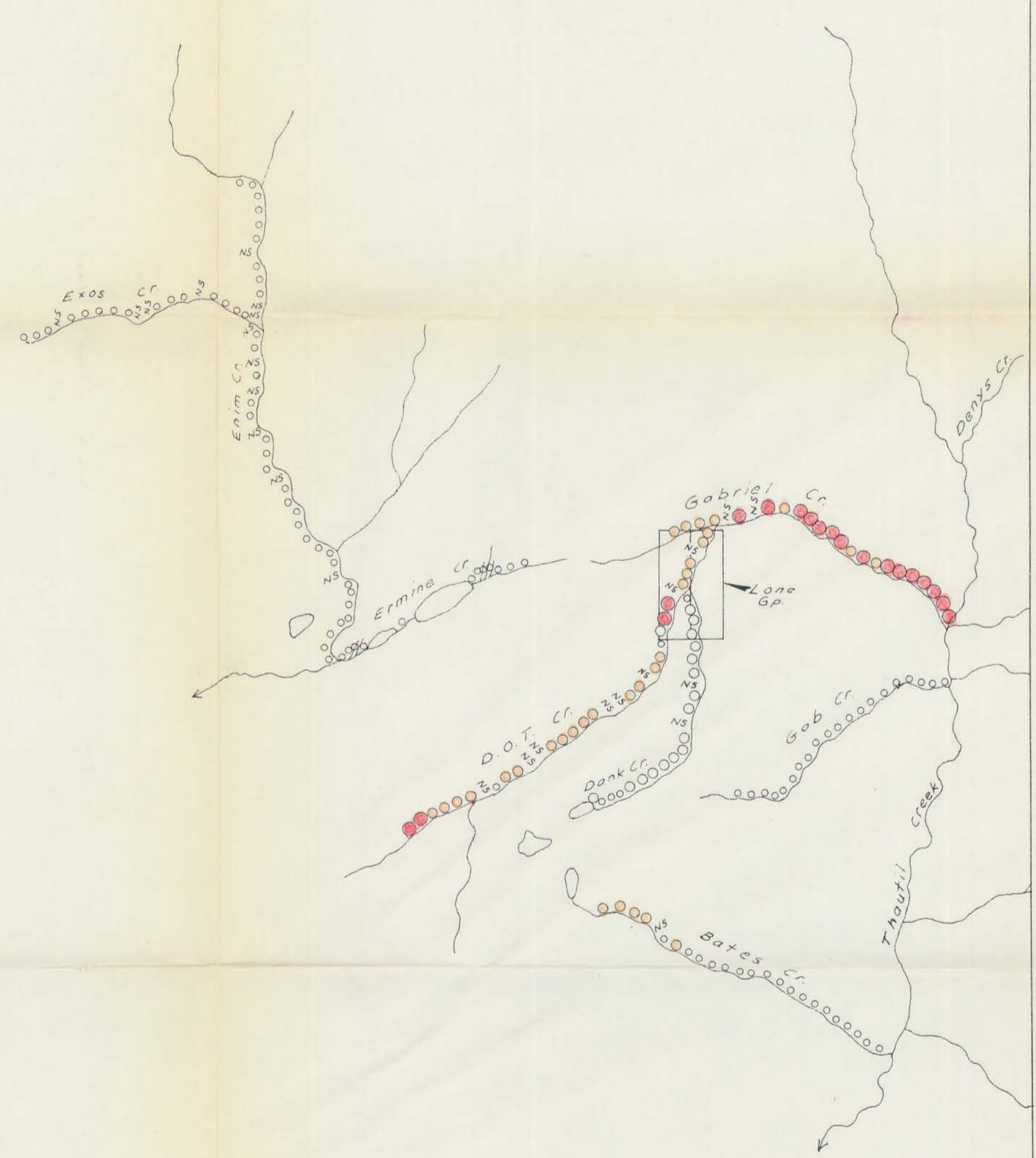
in the Province of British Columbia, do solemnly declare that the following work was done:

R. Samuelson - Prospector-Geologist July 14 - July 23, 1969 10 days at \$40.00/day	\$ 400.00
D. Skidmore - Party Chief, Geochemical Operator July 14 - July 23, 1969 10 days at \$37.50/day	375.00
J. Rotzien - Sampler July 14 - July 23, 1969 10 days at \$32.50/day	325.00
J. Scott Murray - Sampler July 14 - July 23, 1969 10 days at \$28.50/day	<u>285.00</u>
	1,385.00
Laboratory Charges: 661 Samples at \$3.00/sample	<u>3,966.00</u>
	\$5,351.00 =====
To be applied to the Lone 1 - 8 incl. mineral claims Two years at \$800.00/year	<u>\$1,600.00</u>

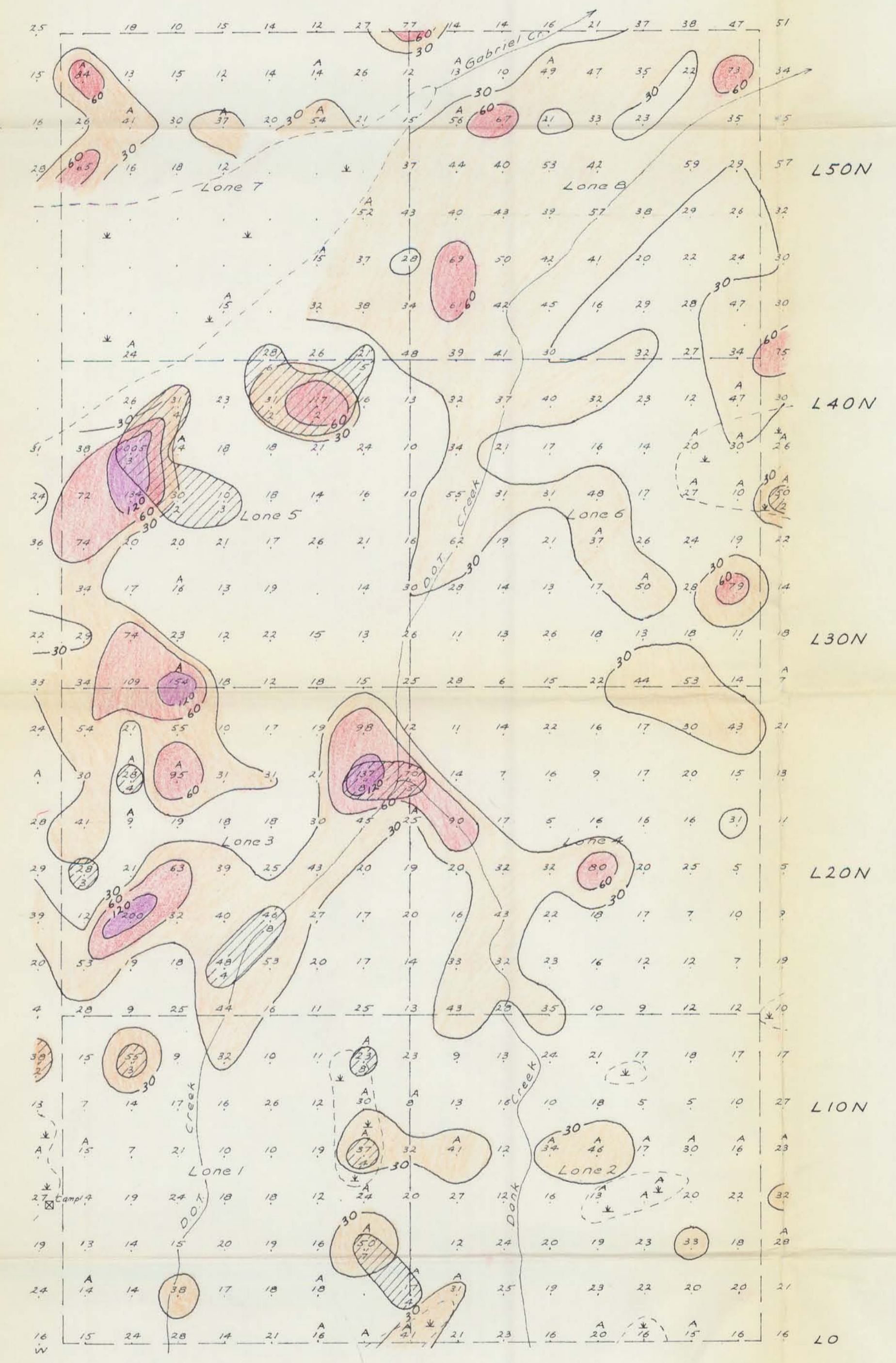
And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 12th
day of June 1970, A.D.

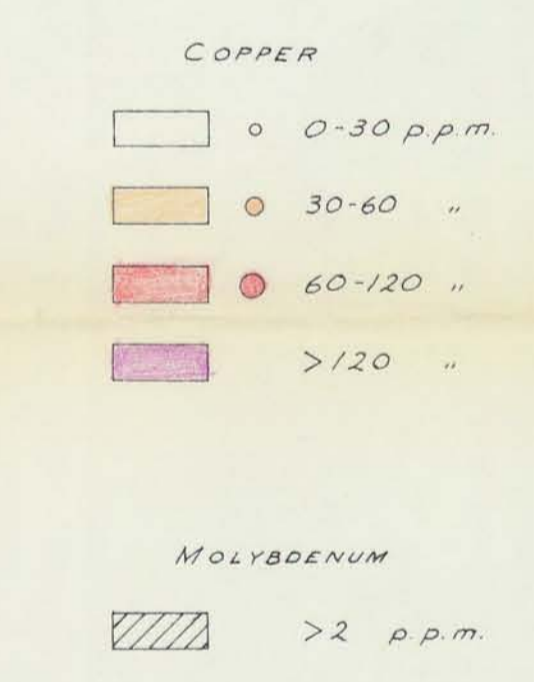
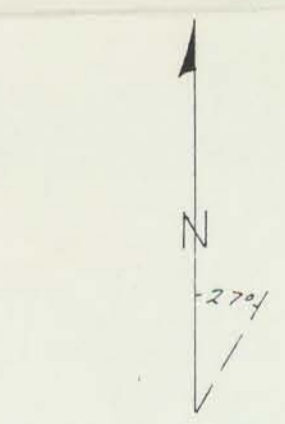
D H Brown
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.
G Phillips
SUB-MINING RECORDER



Scale: 1" = 1 Mi.



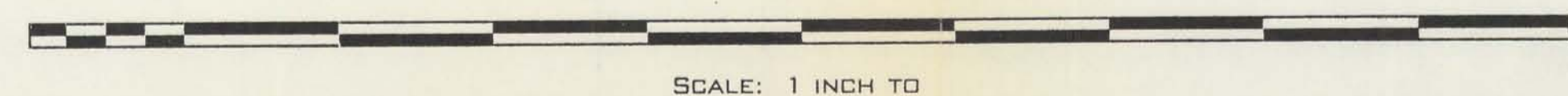
Scale: 1" = 400'



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2428** MAP **#2**

2428

D.H. Brown P. Eng.



SCALE: 1 INCH TO

COMPANY . . . FALCONBRIDGE NICKEL MINES LTD.
PROPERTY . . . LONE CLAIMS
LOCATION . . . SMITHERS, B.C.

WORKING PLACE . . .
TYPE OF MAP . . . GEOCHEMICAL
BASED ON . . . SOIL & SILT SAMPLING

DATE . . . 28 OCT 69
DRAWN BY . . . D.H.H.
DATE OF WORK . . . JULY '69