5353

104I/6E & 11E

GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT

ON THE

EAGLE CLAIMS 145-148, 154, 156
LAT. 58°30' LONG. 129°10'
104 I (6E/11E)
LIARD MINING DIVISION
BRITISH COLUMBIA

FOR

IMPERIAL OIL LIMITED
#314 - 1281 WEST GEORGIA
 VANCOUVER, B.C.

Department of

Mines and Petroloum Resources

ASSESSMENT REPORT

NO 5353 MAD

J.M. MARR JANUARY 22, 1975

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#☐ Map 2	Claims and Geology (1" = ½ mi.)	In Pocket
11.79	Soil Copper Values (1" = 400')	
الم در		In Pocket
·· ·· ·· <u>-</u> -	Soil Molybdenum Values (1" = 400')	In Pocket

Introduction

This report is submitted to obtain assessment credits on the Eagle claims 145-148, 154 and 156, located in the Liard Mining Division, northern B.C. The claim block is located two miles to the southeast of Eaglehead Lake (see Map 2 - coloured section), and some thirty miles to the east of Dease Lake (see location map, next page). The six claims are contiguous with valid Company claims to the southeast and are flanked by four claims on the southwest which will be allowed to expire on February 6th, 1975 (153, 155,162, 164).

The six claims in question were recorded on February 6th, 1973 and cash was paid in lieu of assessment work on February 6th, 1974. Sixteen assessment-years (\$3,200) are now being applied for on these claims as follows: (see following itemized list).

<u>C</u> :	Laims	Record Nos.	No. of Years	New Expiry Date
	56	69313 69315 69304-69307	2 2 3 each	February 6, 1976 February 6, 1976 February 6, 1977

These claims are jointly owned by Imperial Oil Limited (60%) and Nuspar Resources Limited (40%). The work in question was entirely paid for by Imperial Oil Limited. Imperial Oil personnel carried out a geological and geochemical evaluation of the area covered by the claims between July 26th and August 7th, 1974.

Eagle Property

9200/22/75 2.

Normal access to the area is by fixed wing aircraft to Eaglehead Lake and by helicopter from there to the property. In this case, the camp was mobilized and supplied from a company base camp on Rainbow Lake.

Supporting Work

The N 45° W baseline (3000') and 1200' of the 00W crossline, (see Maps 3 and 4), were cut and cleaned out to survey standard by Sam Quock and Ray Nehass, of Dease Lake, between July 28th and 30th, 1974. The remaining part of the grid was blazed, flagged and chained at 100 foot intervals by K. Lum and R. Thornhill prior to the survey. Total grid established amounted to 24,600 feet, differentiated according to quality on Maps 3 and 4.

Geology

Mapping along the grid lines and with the assistance of air photographs revealed only one outcrop within the six claim block. The area is almost entirely masked by glaciofluvial deposits. In order, therefore, to complete the geological picture adequately, mapping was continued in surrounding areas until a 2 square mile area had been covered. Map 2 shows the results of this work. The mapping was done by J. Marr between July 26th and 28th, 1974 with help from K. Lum and R. Thornhill.

The mapping suggests that the claims are underlain by a NW-SE trending contact of unknown type between an intrusive body to the northeast and a sedimentary sequence to the southwest. The intrusive is a fresh, homogeneous biotite granodiorite in which no mineralization was observed. No minor intrusive phases were identified. The unit appears to be part of the Cassiar Batholith.

The sedimentary sequence is composed of an interbedded sequence of conglomerate, greywacke and argillite. The unit is reported to be of Lower Jurassic age (G.S.C. Map 29 - 1962). The outcrops mapped (Map 2) indicate a general decrease in grain size southwestwards from the contact. The conglomerate, which forms a prominent ridge, is a polymictic, massive unit with mainly volcanic clasts in a brown, rough weathering epiclastic matrix. This is followed by a massive, light weathering quartzo-feldspathic arkose sequence which is apparently succeeded to the southwest by poorly outcropping, thinly laminated black argillite and massive black greywacke beds. Although the entire sequence is thought to become younger in this direction, there is no hard evidence to support this. The sequence appears to be derived mainly from intermediate volcanic rocks (which are not exposed in this area).

The beds have a consistently steep dip, vertical in the conglomerate, steeply north in the argillite. No sign of folding was observed. No mineralization was encountered anywhere within this sequence.

Geochemistry

The soil sampling program was carried out by K. Lum and R. Thornhill between August 3rd and 7th, 1974. Both men were third year geology students. Both had received company instruction in sampling procedures and both had done the work previously.

115 'B' horizon soil samples were collected at 200 foot intervals on the grid. This horizon was sampled with a stainless steel garden trowel after an initial hole had been opened with a grubhoe. The samples, which came from an average depth of four inches, were generally reddish brown in colour and silty in texture. The brown forest type soil profile was thin but quite well developed in most localities, especially so on the gently-sloping, buckbrush-covered ground on either side of the creek. In these areas, the organic accumulation was generally found to be thin (< 1"), overlying a thin (2 - 3") B horizon which graded downwards into a yellowish, stony, C horizon. Much of the bedrock surface on the slopes appeared to have a covering of boulder till which locally "outcropped" as boulder fields. Samples collected in the broad valley bottom were more variable, ranging from very poorly developed horizons on glacial outwash or mounds to greatly thickened organic horizons in dried up drainage hollows.

9200/22/75 5.

Values in Cu and Mo in parts per million for the -30 mesh fraction are plotted on Maps 3 and 4 respectively. Details of the analytical method employed in the Company laboratory are described separately in the Appendix.

Interpretation

Nothing was observed during the geological work which would indicate economic potential in the area. However, the soil copper values (see Map 3) indicate a broadly anomalous zone trending approximately through claims 146 and 148. This is weakly supported by the Mo values. The cumulative frequency plot for the Cu data (next page) indicates an excess of higher values beyond a breaking point at 10 ppm (75% cum.freq.) Various statistical parameters from the data are shown there. This type of plot was not attempted for Mo since the range in values is too limited to make it meaningful.

The fact that this area is gently sloping (to the southwest) and is probably thinly overburden-covered suggests that the anomaly is in place and is reflecting an increased copper content in bedrock. The data do not provide any means of estimating the volume or tenor of this mineralization since none was actually observed.

J.M. Marr

0.15 aper Pelleties 280 Econ. Geo Vol. 64 1969 px 538-5501 0.00

COST STATEMENT

1.	WAGES		
	J. Marr - Geology & Report Compilation - July 26-28, 1974 3 d.x \$50/d. \$150 - Jan.20-22, 1975 3 d.x \$50/d. 150		
	<pre>K. Lum - Linecutting & Geochemistry - July 26-28, 1974 3 d.x \$26/d.</pre>		
	R. Thornhill - Linecutting & Geochemistry - July 26-28, 1974 3 d.x \$28/d. 84 - Aug, 3-7, 1974 5 d.x \$28/d. 140		
	R. Nehass - Linecutting - July 28-30, 1974 3 d.x \$40/d. 120		
	S. Quock - Linecutting - July 28-30, 1974 3 d.x \$40/d. 120		
	Stenographic - 1 d.x \$50/d. <u>50</u>		
		\$1	,022
2.	CAMP EXPENSES 25 man days @ \$20/day	\$	500
3.	SERVICES (Freight, etc.)	\$	12
4. (a)	TRANSPORTATION Scheduled Transport J. Marr (Vancouver - Watson Lake) 180 K. Lum (Vancouver - Watson Lake) 25% 45 R. Thornhill (Vancouver-Watson Lake) 25% 45	ş	270
of .	Vancouver, in the City Vancouver, in the ce of British Columbia, this 27 January 1975, A.D.	•	

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4. TRANSPORTATION

(b) Helicopter

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July	30	.83	hr.			
Aug.	3	.67	hr.			
Aug.	7	1.33	hr.	_	demobilizati	on
-		5.00	hrs.	@	\$260/hr.	

\$1,300

5. LABORATORY

118	samples	a	\$1.50/	'samples
(2	determina	ati	ons) ·	

\$ 177

TOTAL:

\$3,281

Declared before me at the City

of Variable of the , in the

Province of British Columbia, this 27

day of January 1975, A.D.

A Commissioner for taking Mildavits within Private of Lenbia or A Notazy Public in and for the Province of Erithman and antibia.

Sub-mining Recorder

STATEMENT OF QUALIFICATIONS

I. John M. Marr, of North Vancouver, B.C. hereby certify the following qualifications:

- (a) I obtained a B.Sc.(Hons.) degree in Geology (1968) from St. Andrews University, Fife, Scotland.
- (b) I obtained an M.Sc. degree in Geology (1970) from the University of Manitoba, Winnipeg, Manitoba.
- (c) I have been practising my profession as a geologist in Canada since that time.

John M. Marr

- Hang the bagged sample in the drying oven at 50°C overnight or longer if necessary.
- Sieve the sample to -80 mesh and retain this sieved portion in a plastic vial bearing the sample number.
- Prepare a cross reference sheet to identify the samples during analysis.
- 4. Weigh 0.50 ± 0.01 gm. of the sieved sample and transfer to a Coors crucible, cover and place in its designated location on a stainless steel tray.
- 5. Place tray of samples in the muffle oven and ash at 500° C for 45 minutes (approximately $1\frac{1}{2}$ hours is required to reach 500° C).
- 6. Remove samples from the muffle oven after it is cooled down and transfer to test tubes for digestion.
- 7. A. All Elements Except Molybdenum:
 - I. Add 5.0 ml. of HNO₃ and stir.
 - II. Transfer to heating blocks and digest for l_2^1 hours at 100° C.
 - III. Transfer to plastic racks; cool and dilute with 10 ml. of deionized water.
 - B. Molybdenum Plus Other Elements Requested at Same Time:
 - I. Add 1.5 ml. HNO_3 and stir.
 - II. Transfer to heating blocks and digest for ½ hour at 100°C.
 - III. Add 0.5 ml. HCl and leave in heating blocks for an additional 2 hours.
 - IV. Transfer to plastic racks, cool and dilute with 7.8 ml. of 1,500 ppm Na₂SO₄ in deionized water.
- 8. Leave samples sit overnight, stir and analyze on the atomic absorption spectrophotometer for the elements requested after they are settled and the liquid clear.
- 9. Set scale expansion on the instrument at 1 ppm standard equal 34 on 7 A digestion and 1 ppm equal 20 on the 7 B digestion.

PRODUCT N RESEARCH AND TECHNICAL SERVICE LABORATORY CALGARY, ALBERTA

GEOCHEMICAL LABORATORY REPORT

	i. ,								
Laboratory Repo					Analysis Req	uested by _	Jac "AA	K Ma	5 L L
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