

2843

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2843 MAP _____

SUPPLEMENTARY REPORT
ON THE
NITHI MT GROUP, AND ADJOINING CLAIM GROUPS
FOR
NITHEX EXPLORATION AND DEVELOPMENT LTD.
OMINECA M.D.
LAT. $53^{\circ} 58' N$ LONG. $124^{\circ} 50' W$

BY
A. F. ROBERTS, P. ENG.

November 30, 1970

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MAPS:

* CLAIM MAP	[follows page 1]
ASSAY CERTIFICATE	[follows page 10]

REFERENCES:

- B. C. Department of Mines & Petroleum Resources,
Minister of Mines Reports, 1964, 1965, Endako Area
- B. C. Department of Mines & Petroleum Resources,
Aeromagnetic Maps, 1590G, 1589G

OTHER WORKS CONSULTED:

- Topographic Maps - Fraser Lake 93K/2W and E, 93F/15
- Geological Maps - Fort Fraser 630A
Nechako River 1131A
- Geology of Endako Molybdenum Deposit
E. T. Kimura, H. D. Drummond, C.I.M.M. 1966

* * * * *

SUMMARY

Thirty-seven of the Company's claim group remain to be thoroughly tested for commercial molybdenum sulphide. This area contains the Far claims 1-32, and those adjoining to the southeast.

It is recommended that a geochemical survey be made over the Far claims and the adjoining ground to the southeast.

The Nithi claims to the east of the geochemical anomaly have favourable geology, and geochemical assays from the oxidized material in the trenches is anomalous.

The one trench on the Tuff claims revealed favourable geology and one anomalous geochemical assay.

It is considered that the Jib, Skidoo, and Tuff claims are favourable for finding commercial ore, and if favourable terms can be had from the owners, a geochemical survey should be carried out on these claims at the same time work is done on the Far claims.

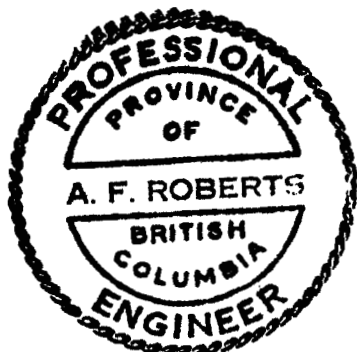
A Stage I Program for these claims would cost approximately	\$ 64,074.00
Stage II would approximate	\$ 185,000.00

Combining this work, and the work recommended in the August 1970 report -	
Stage I Total	\$ 137,300.00
Combined Stage II Total	\$ 575,000.00

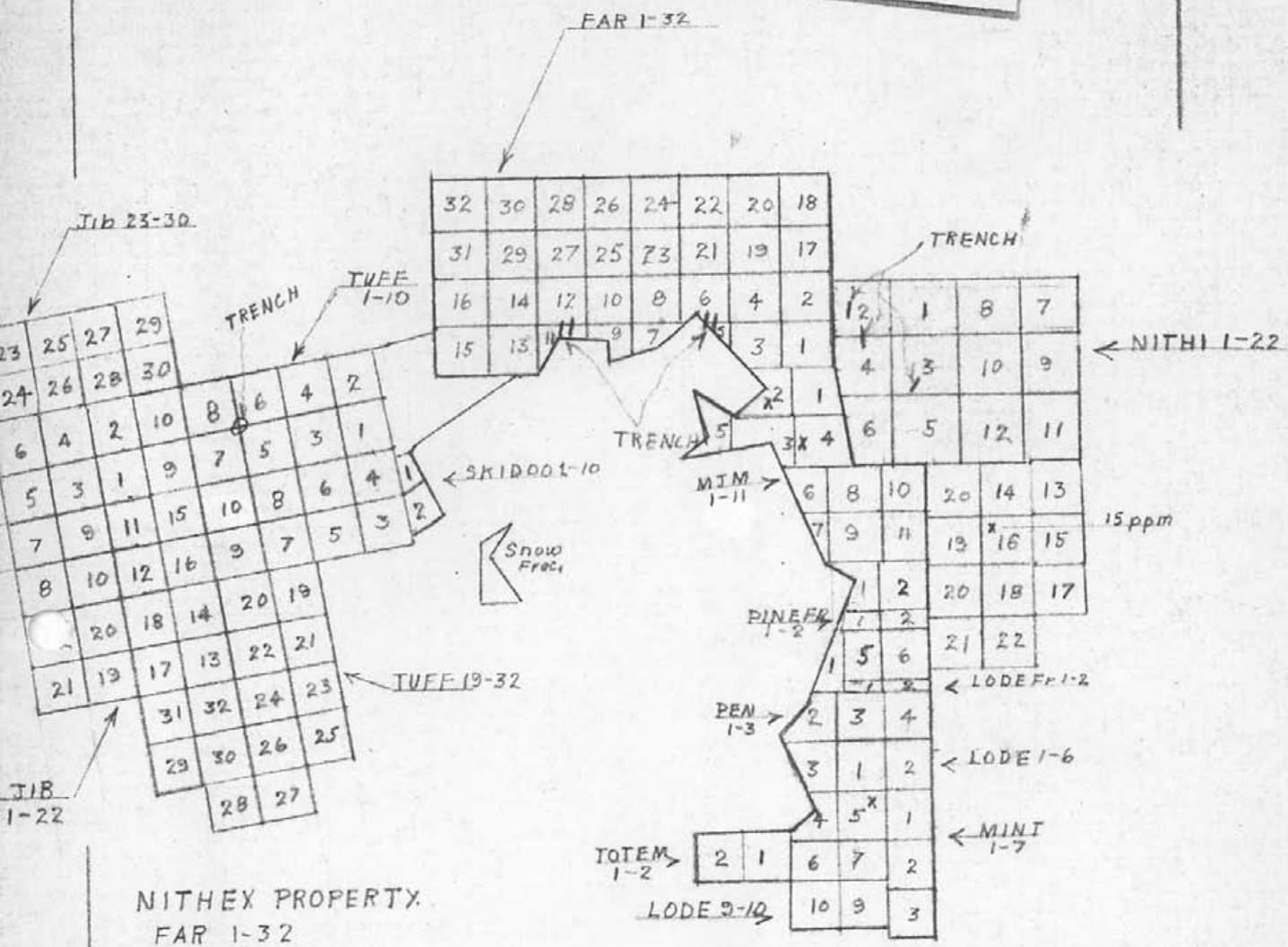
Respectfully submitted,

A. F. Roberts

A. F. Roberts, P. Eng.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2843 MAP #1



NITHEX PROPERTY
 FAR 1-32
 LODE 1-6
 LODE 9-10
 MJM 1-11
 PEN 1-3
 MINT 1-7
 TOTEM 1-2
 PINEFR 1-2
 LODE Fr 1-2



NITHEX
 EXPLORATION & DEVELOPMENT LTD
 ENDAKO, BC

CLAIM LOCATION MAP

Date Nov 30, 1970
 Scale 1" = 1 Mile
 Drawn by: *AR*
 Accuracy not guaranteed

SUPPLEMENTARY REPORT ON THE
NITHI MT GROUP, AND ADJOINING GROUPS
FOR
NITHEX EXPLORATION AND DEVELOPMENT LTD.
OMINECA M.D.
LAT. 53° 58' N LONG. 124° 50' W
A.F. ROBERTS, P.ENG. NOVEMBER 30, 1970

INTRODUCTION:

This report is supplementary to the reports of June 12th and August 20, 1970.

Its purpose is to examine the potential of the Far Group of claims in the NitheX property, and whether or not it is advisable to acquire the Nithi Group of 22 claims, the Skidoo Group of 10 claims, the Tuff Group of 24 claims, and the Jib Group of 30 claims. These claims are all adjoining the presently held claims. ^{1]}

The examination was carried out between November 24th and 29th, 1970.

LOCATION, ACCESS, TOPOGRAPHY:

The property is five miles south of Fraser Lake and off Highway 16.

The NitheX property covers the northeast and south slopes of Nithi Mt. at elevations of 2,500 to 3,500 feet.

The 32 claim Nithi Group adjoins immediately to the east. The Skidoo, Tuff and Jib Groups are on the west slope of the mountain adjoining the west end of the Far Group.

^{1]} Claim Map follows page 1.

Access from Fraser Lake is by old logging roads, and company-built access roads. Four-wheel drive vehicles are required at all times.

Timber cover varies from stripped logged land to commercial size timber.

Water on the property is only sufficient for drilling. Major water supplies can be obtained from the larger lakes and rivers in the area.

Power could be obtained from the lines that serve the communities of the area and Endako Mines Ltd.

The C.N. Prince Rupert line is within five miles of the property, and the area is well served by commercial bus and truck lines.

CLAIM GROUP:

The claim group has been increased by two staked claims, Totem 1, 2, and four internal fractions, Lode 1, 2, and Pine 1, 2, since the last report.

There are now 67 claims and fractions in the property.

All claims are in good standing for at least one year.

On the claims open for acquisition:

Nithi 1 - 22, work has been filed for one year,
Skidoo 1 - 10, work has been filed for one year,
Jib 1 - 30, Tuff 1 - 10, 19 - 32, these were acquired
by staking between October 21 and October 25, 1970.

GEOLOGY AND MINERALIZATION:

The area of the claim group is underlain by the Casey quartz monzonite. ^{2]}

This rock is altered in various degrees to an extreme where only quartz crystals are left in Kaolin.

Quartz veins from hair line to 4" wide are seen throughout the stripped areas, the frequency varying from less than 1" apart to several feet.

Two sets of fractures carry mineralization:

1] 70° Dip 40° - 50° S

2] 160° Dip 40° - 50° S

Mineralization occurs mostly as MoS₂, with pyrite in quartz, and possibly as coatings in fractures, and disseminated in the country rock. In size, the MoS₂ may be very fine specks in quartz, or in fine specks to $\frac{1}{4}$ " rosettes in the wall rock. Small amounts of specular hematite occur with the quartz veins.

Fractures are stained with limonite and manganese oxide which effectively conceals the molybdc oxide stain.

STRUCTURE:

There is one fault at 70° E at the end of the north showing, and several creeks through the property suggest there are parallel faults at the same angle.

The aero magnetic maps ^{3]} indicate a fault along the easterly boundary of the claim group at 124° 53' W striking

^{2]} B.C. Department of Mines & Petroleum Resources, Minister of Mines Reports, 1964, 1965, Endako Area.

^{3]} B.C. Department of Mines & Petroleum Resources, Aero-Magnetic Maps 1590G, 1589G.

slightly east of north. This may be a major structural feature.

TRENCHING:

As there had been up to 12 inches of snow in the area before the date of this examination, a D4 bulldozer was used to clean out the trenches. This permitted examination of the walls, and partial examination of the bottoms.

All trenches were heavily leached and oxidized, and were not fresh enough for conventional sampling. Therefore grab samples were taken along the walls to be assayed for MoS_2 by geochemical methods.

These samples would be quite deep in the "C" zone, and would not give optimum results.

In the geochemical program of July - August 1970, the values to 5 ppm were considered as background,

5 - 10 ppm as slightly anomalous,
 10 - 15 ppm as moderately anomalous,
 15 - 20 ppm as strongly anomalous
 20 + ppm as definitely anomalous.

Fragments of unaltered rock within the oxidized zone are the same as in the area previously soil sampled. Descriptions of the trenches are as follows:

1] Far Claims on #5 and #6:

Heavily oxidized and altered. Trench strikes 130°
 Fractures @ 70° , Dip 80° S
 Sampled as geochemical Mo 12 ppm

2] Far Claims #5 and #6 West of 1] 200 ft.:

Heavily oxidized
Fractures @ 70° Dip ?
Sample not possible.

The three trenches on Nithi ground are east of what is believed to be a major fault. The fractures believed to be the main mineral carriers have a slight change of direction from bearing 70° to 76° , and the dip may be steeper. [75 - 80 S ?].

3] Nithi Claim #3:

Heavily oxidized, leached. Trench strikes 32° - 200' long. Fractures @ 320° and 70° . Dips ?
Sampled as geochemical Mo 8 ppm

4] Nithi #2 and #4:

Heavily oxidized, leached, considerable quartz.
No visible MoS_2 .
Fractures @ 330° Dip 60° S
 76° Dip 85° S
Sampled as geochemical Mo 11 ppm

5] Far #11, #12 boundary:

Oxidized, leached
Fractures 70° , and 330°
Sampled as geochemical Mo 14 ppm

6] Far #11, #12, West of previous trench:

Heavy alteration and oxidation
Fractures @ 160° , 320° , 70° Dips ?
Sampled for geochemical Mo 1 ppm

7] Tuff at Junction of #5, #6, #7 and #8:

Fractures @ 70° Dip 50° - 55° S

136° Dip 45° W

100° Dip 85° E

Fault in lower quartz dipping west [?]

No fresh rock

Geochemical sample

Mo 22 ppm8] Nithi #2 Strike 300°:

Heavy alteration and oxidation

Fractures @ 76° Dip steep [70° S ?]

Geochemical sample

Mo 10 ppm

In addition, a geochemical soil sample taken in August on Nithi #16 ran 15 ppm.

CONCLUSIONS:Far Group:

This group is known to contain the same type of rock as the claims previously geochemically sampled, and on which an anomaly was found. This anomaly extends into the east end of the Far claims. The trenches on these claims have indicated geochemical values in excess of background values.

Nithi Group:

The rock type is the same as on the Nithex property. Anomalous values have been found in the rock and soil. And the Nithex geochemical anomaly appears to extend into this ground.

Tuff, Jib, Skidoo Groups:

Only one trench was sampled in this area, and it was anomalous. Rock types are believed to be of the same type as the other claims.

The owners report finding mineral in place on all these claims, and presented specimens, and indicated on the map where they were found, but weather conditions prevented personal examination.

With the geochemical values indicated in the present work and knowledge of the rocks of the area from past work it is concluded that all the claims are worth a systematic examination to find a commercial orebody provided reasonable terms can be obtained from the owners.

RECOMMENDATIONS:

As the Far Group is already part of Nithex, extend the N-S base line through it, and cut an E-W baseline to the end of the Tuff claims. Cut a N-S base line through the Jib claims.

From these base lines take soil samples for geochemical analysis on the Far Group, on 200 ft. by 200 ft. grid.

If a suitable working option is obtained, repeat on the Nithi, Jib, Skidoo, and Tuff groups.

When anomalous areas are found they should be stripped and trenched, if possible, for physical examination.

Diamond drill geochemical highs, and follow-up, if successful, with a major diamond drill program.

Have contour maps, and enlarged photos made by Lockwood Surveys Ltd. to assist in geological mapping and location of boundaries, outcrops, etc.

This program should be tied in with the work to be done in the report of August, 1970.

COST ESTIMATE:Stage I:

Base Lines -	8 miles @ \$125/mile	\$ 1,000.00
Geochemical sampling	117 claims @ \$150/mile	7,020.00
Assaying	6,100 samples @ \$1.75/sample	10,675.00
Supervision, consultant		2,000.00
Truck rental and expenses		1,000.00
Board and room	@ \$20.00/day	1,200.00
Airphoto derived contour map		2,000.00
Travel expenses		1,000.00
Diamond drilling	1,500 ft. @ \$15.00/foot	22,500.00
DC8 with rippers	[100 hours] @ \$35.00/hour	3,500.00
Assaying drill core - 300	@ \$ 5.00/sample	1,500.00
		<u>\$ 53,395.00</u>
Overhead and Contingencies - 20%		10,679.00
	Total	<u><u>\$ 64,074.00</u></u>

Stage II:

Diamond Drilling -	10,000 feet @ \$15.00/foot	\$150,000.00
Assaying	- 1,000 @ \$ 5.00	5,000.00
		<u>\$155,000.00</u>
Overhead and Contingencies - 20%		30,000.00
	Total	<u><u>\$185,000.00</u></u>

No provision has been made for acquisition of the adjoining claim groups.

Combining costs of the August report for the Nithex claims that had the geochemical survey completed, the total costs are:

Stage I:

August report	\$ 72,250.00
November report	64,074.00
Total	<u>\$ 137,324.00</u>

Stage II:

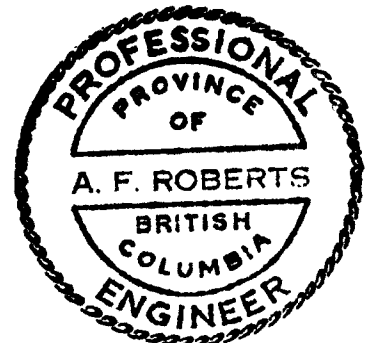
August report, eliminating items repeated in November	390,000.00
November report	185,000.00
Total	<u>\$ 575,000.00</u>

Respectfully submitted,

A. F. Roberts

A. F. Roberts, P. Eng.

November 30, 1970



T S L

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM NITHEX EXPL. & DEV.

REPORT NO.
V 8443-1

SAMPLE(S) OF (ROCK)

RESULTS IN PARTS PER MILLION

	SAMPLE No		Cu	Pb	Zn	Ag	Ni	Mo	Co	
x	1	19139	Far Location line 546						12	
x	2	19140	NITHI 3						8	
	3	19141	NITHI 294						11	
	4	19142	Far						14	
	5	19143	Far						1	
	6	19144	Tuff 5678						22	
	7	19145	Nithi 2						10	
	8									
	9									
	0									
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	0									

DATE Dec 1/70

SIGNED *AB Ditcher*



N.B. Samples discarded after 3 months unless otherwise requested.

C E R T I F I C A T E

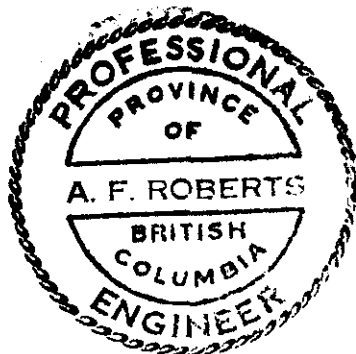
I, A. F. Roberts of 812 Fairbrook Crescent, Richmond, B. C., do hereby certify that:

- 1] I am a graduate of the University of British Columbia, [B.Ap.Sc.] in Mining Engineering, 1951.
- 2] I am registered as a Professional Engineer of the Province of British Columbia, and am a member of the Canadian Institute of Mining and Metallurgy.
- 3] I have practiced my profession since 1951 with Quatsino Copper Gold Mines Ltd., Giant Mascot Mines Ltd., Cochenour Willans Gold Mines Ltd., Mogul Mines Ltd., Kerr Addison Gold Mines Ltd., Atlantic Coast Copper Corp. Ltd., Wasamac Mines Ltd., Brenda Mines Ltd., and T.C. Explorations Ltd.

I am Vice-President, and a Director of Bathurst Inlet Mining Corporation Ltd., Vice-President of Bathurst Norsemines Ltd., and a Director of Central Arctic Copper Mines Ltd. Previous to University I had worked underground as a miner.

- 4] The accompanying report is based on a personal examination of the property between June 2nd and June 10th, 1970, and November 24th and November 29th, 1970.
- 5] I have not, nor do I expect to receive, any interest, directly or indirectly in these properties, or any of their securities.
- 6] I consent to the use of this report in, or in connection with a prospectus, or a statement of material facts relating to the raising of funds for this project.

DATED at Vancouver, B. C., this thirtieth day of November, 1970.




A. F. Roberts, P. Eng.