

3546

REPORT ON
GEOCHEMICAL SURVEY
OF THE
NITHI CLAIM GROUP
OMINECA N.D.

93 F / 15 W

FOR

M. SHERMAN
Endako, B. C.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

BY

NO. **3546** MAP.....

A.F. ROBERTS, P.ENG.

November 20, 1971

TABLE OF CONTENTS

	<u>Page</u>
SUMMARY.....	1
INTRODUCTION.....	2
LOCATION, ACCESS, TOPOGRAPHY.....	2
CLAIM GROUP.....	3
GENERAL GEOLOGY.....	4
GEOCHEMISTRY.....	5
CONCLUSIONS.....	6
RECOMMENDATIONS.....	7
CERTIFICATE.....	8
ASSAYS.....	[End of report]

MAPS

- 1] LOCATION MAP.....[Follows page 2]
- 2] CLAIM MAP.....[Follows page 3]
- 3] PARTIAL MAGNETIC CONTOUR MAP.....[Follows page 4]
- 4] GEOCHEMICAL CONTOUR MAP.....[End of report]

REFERENCES

- 1] B.C. Department of Mines & Petroleum Resources, Minister of Mines Reports 1964, 1965, Endako, B. C. Area.
- 5] Geology Maps, G.S.C. Nos. 1131A, 630A.
- 6] B.C. Department of Mines & Petroleum Resources, Endako Area, Eastern, April 1966, Geology by M. Carr.
- 8] B.C. Department of Mines & Petroleum Resources, Aero Magnetic Maps 1590E, 1589E.
- 9] Report on the Nithi Mountain Property for Nithex Exploration & Development Ltd. [NPL], Fraser Lake, Omineco N.D., by A. F. Roberts, P.Eng., January 30, 1971.

SUMMARY

A geochemical survey on a 200 ft. x 200 ft. grid was done on Nithi claims 4, 5, 6, 19 and 20.

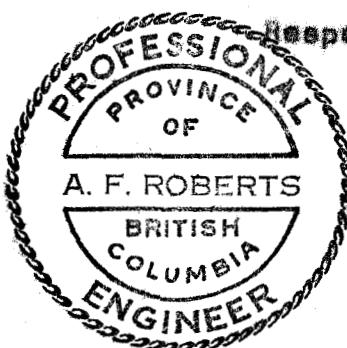
This survey showed an area 1,200 ft. by 800 ft. to be anomalous. This area is open to the east, and ties into an anomaly on the Nithex Exploration & Development Ltd. ground to the west.

There are also six small areas which are common to both properties.

In addition, there is an anomaly 600 ft. x 600 ft. on the Nithi group, and another 600 ft. x 400 ft. open at both ends.

As molybdenite mineralization has been found in fractures and veinlets in altered Casey quartz monzonite, in highly oxidized and leached areas, it is recommended that the geochemical survey be extended to cover the remaining claims.

The anomalous areas should then be trenched to fresh rock, and sampled. At the same time a detailed geological map of the group should be assembled.



Respectfully submitted,



A. F. Roberts, P. Eng.

REPORT ON
GEOCHEMICAL SURVEY
OF THE
NITHI CLAIM GROUP
OMINECA M.D.
FOR
M. SHERMAN
Endako, B. C.
BY
A.F. ROBERTS, P.ENG.
November 20, 1971

INTRODUCTION

This report was commissioned by Mr. M. Sherman, of Endako, B. C., owner of the group.

The work was done under the writer's direction, and is tied into the work done on the property of Nithex Exploration & Development Ltd., whose property adjoins on the west, and for which company the writer is also consultant.

Information from the Nithex property has been used freely in this report, with permission.

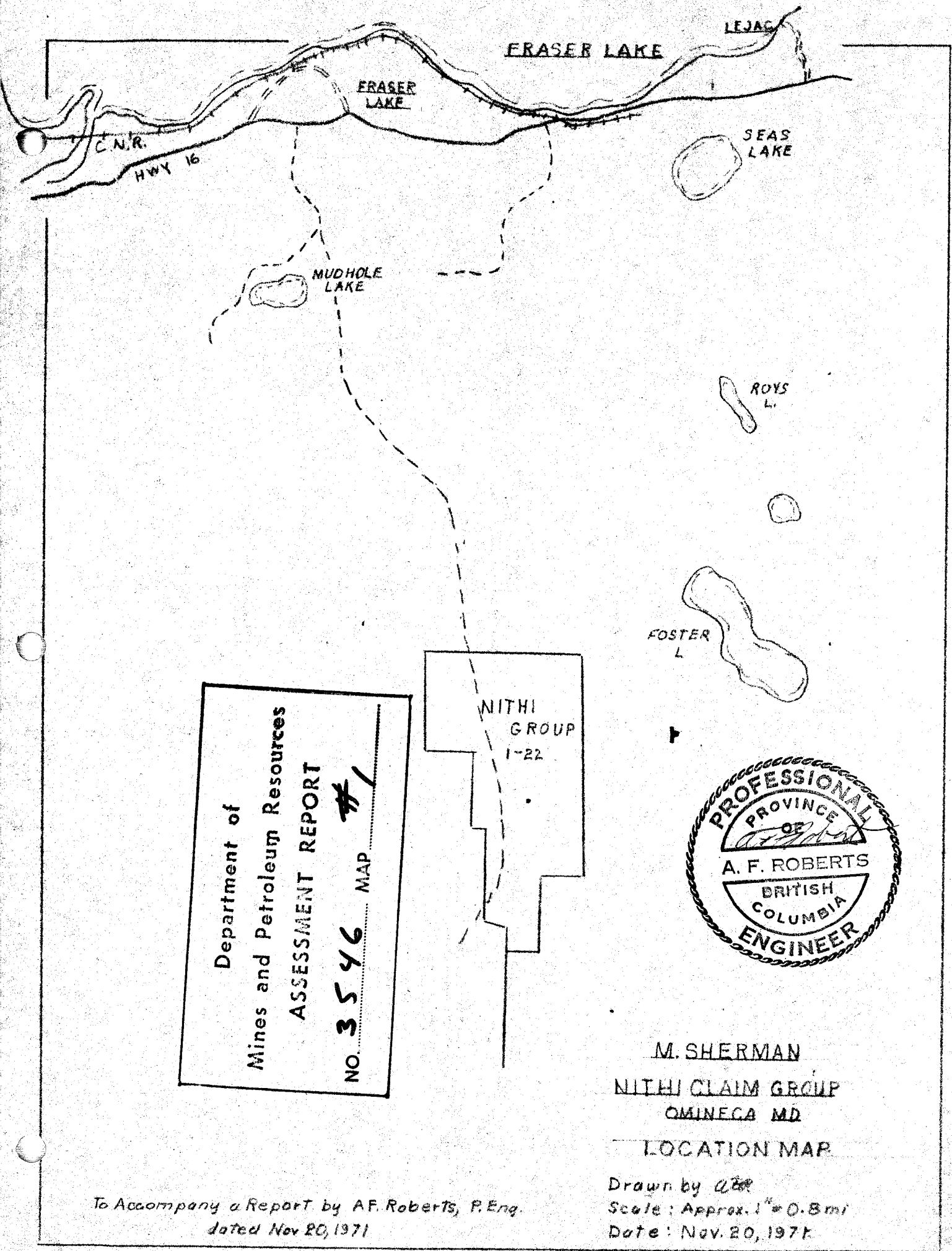
The property was visited in November, 1970, and November 20, 1971. Both before, and after November, 1970 the writer was on the Nithi Group, in conjunction with work on the Nithex Exploration & Development work.

LOCATION, ACCESS, TOPOGRAPHY [1]

This property is four miles south of the community of Fraser Lake, on Highway 16. It lies on the east slope of Nithi Mt., average elevation of 3,700 feet.

[1] Location Map

[follows page 2]



It is accessible, via old logging roads, and the Nithex road, via pickup in the dry season, and four-wheel drive the balance of the year.

Numerous old logging roads cross the area, which has been mostly logged off.

Generally, the topography is gentle, but there are a few deep gullies, and steep hills.

Timber is pine and timber, 50% of which is commercial timber.

CLAIM GROUP 2]

The group consists of the following twenty-two claims and one fraction:

Name	Record No.	Expiry Date
Nithi 1-19 incl.	67871-67889 incl.	March 31, 1972
Nithi 20-22 incl.	69793-69795 incl.	April 8, 1972
Nithi 23 Fraction	97938	March 24, 1972

These were checked in the Vancouver Office of the Mining Recorder.

NITHI 1-22 and 23 Frac
(M.SHERMAN)

Trenches

2	1	A	7
3		10	9
4			
6	5	12	11
20	14	13	
13	16	15	
20	18	17	
21	82		

23 Frac

CYPRUS EXPL

R&P METALS
NEW INDIAN
FRASER LAKE

MERCURY MINES

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

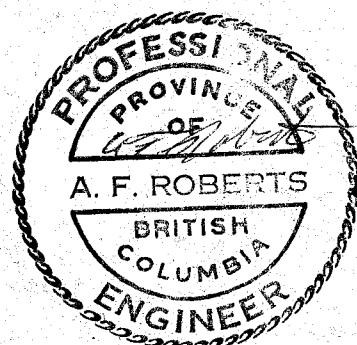
NO. 3546 MAP 972

To Accompany a Report by AF Roberts, P.Eng
dated Nov. 20, 1971

M SHERMAN
NITHI CLAIM GROUP
OMINECA MD

CLAIM MAP

Drawn by: a2R
Scale : Approx 1" = 3000'
Date : Nov. 20, 1971



GENERAL GEOLOGY 3] 4] 5] 6]

The area of the claim group is underlain by the Casey Quartz monzonite.

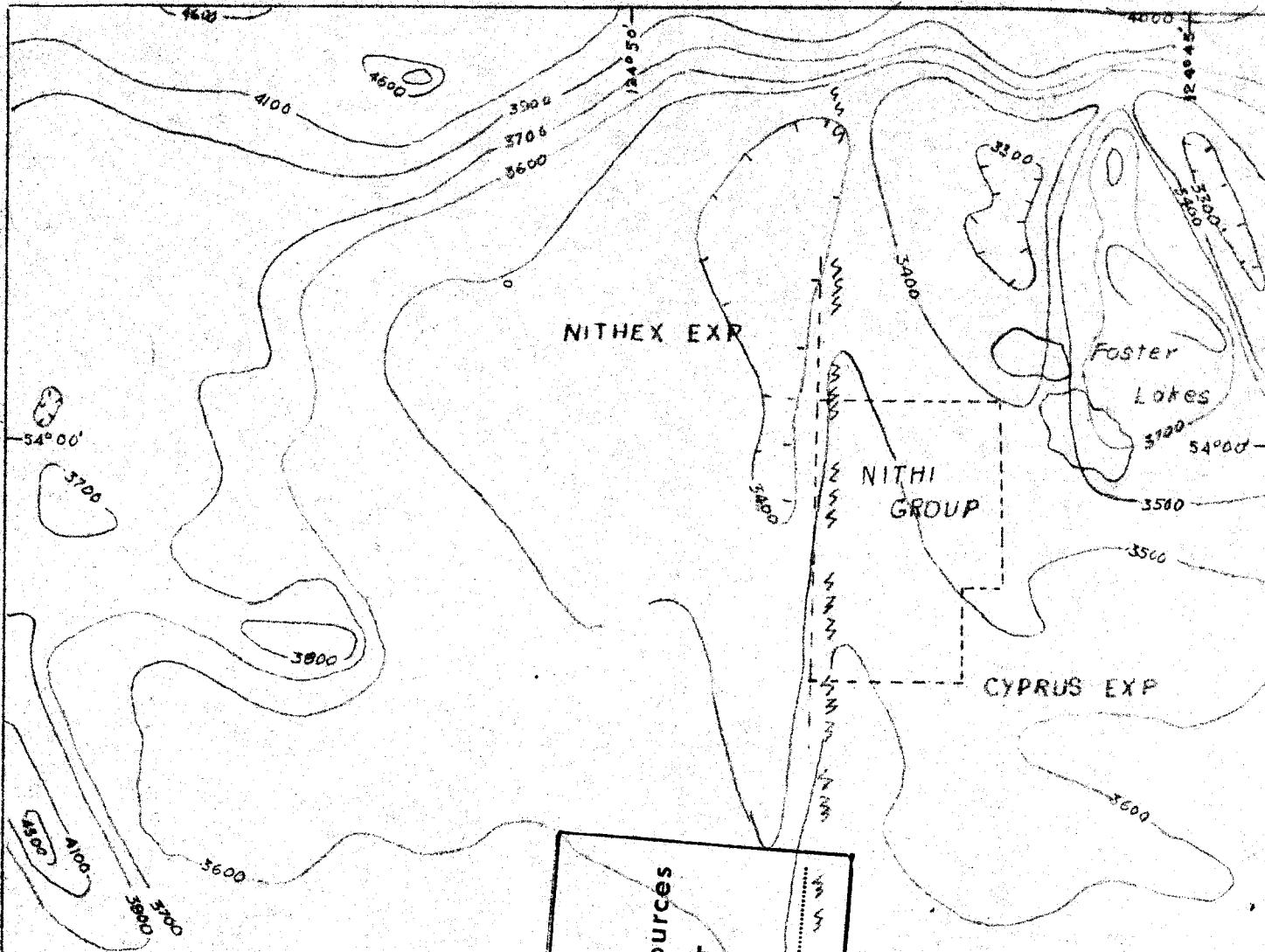
This rock, when unaltered is fine grained, with all minerals about 1 mm, and consists of 40% white to black quartz, 30% pink K-spar, 30% white to pale green plagioclase. Dark minerals are generally absent, though in certain small areas there may be 1 - 2% biotite.

Alteration causes the K-spar to be bleached, and the plagioclase to assume an apple green colour. Severe alteration kaolinizes the feldspars, leaving only quartz granules.

Mineralization consists of molybdenite, with some fine pyrite in fractures and quartz veinlets up to 4" wide, none of which are known to be continuous for more than a few feet. These fractures may vary in frequency from $\frac{1}{2}$ " to several inches apart, and may be stained with manganese and iron oxides.

Fractures on the Nithex Exploration ground, which carry mineralization bear N 70° E, dip 40°-50° S. But on the Nithi Group the same set of fractures bear N 76° E, dip 70°-80° S. The difference may be due to a strong fault

- 3] B.C. Department of Mines & Petroleum Resources, Minister of Mines Reports 1964, 1965, Endako, B.C. Area.
- 4] Map B.C. Department of Mines & Petroleum Resources, Endako East, April 1966, by M. Carr.
- 5] Geology Maps, G.S.C. Nos. 1131A, 630A.
- 6] B.C. Department of Mines & Petroleum Resources, Aero Magnetic Maps 15906, 15896.



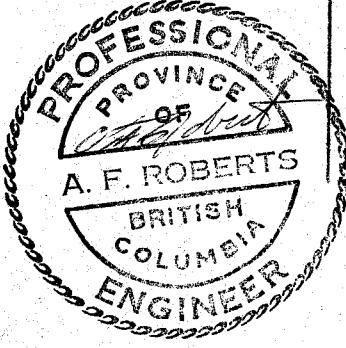
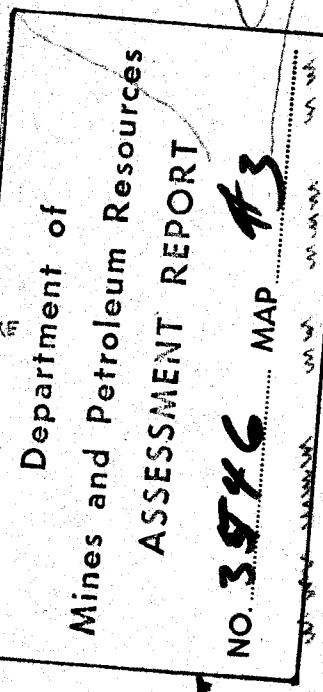
NOTE ADAPTED FROM MAG MAPS
1589G HALLETT LAKE, 1590G-FRASER LAKE

M SHERMAN
ENDAKO, B.C.
NITHI CLAIM GROUP
CIMINCA, M.D.

PARTIAL MAGNETIC CONTOUR MAP
TO SHOW RELATIONSHIP OF
CURRENT WORK TO MAGNETIC LOWS
AND ASSUMED FAULT

DRAWN BY: *ata*
DATE Nov. 20 1971

SCALE 1" = 1 mile



To Accompany a Report by
A F Roberts, P. Eng dated
Nov. 20, 1971.

indicated on the aero magnetic maps, which lies on the boundary between the two groups.

Trenches on the Nithi group²⁾ were heavily oxidized and leached, so that accurate sampling was impossible. Therefore oxidized material was sent for geochemical assays with the following results:

<u>Location</u>	<u>Assay</u>
Nithi #3 claim	Mo 8 ppm
Nithi #2, and #4 claim	Mo 11 ppm
Nithi #2 claim	Mo 10 ppm

GEOREMISTRY T1 9 J10)

The grid for this survey was tied into the Nithax Exploration grid by extending their grid across the Nithi group, and cutting a new N-S base line within the group. Sampling was on a spacing of 200 feet by 200 feet, using the "B" horizon for the sample.

Assays were done by Acme Analytical Laboratories Ltd.,
6455 Laurel Street,
Burnaby 2, B. C.

and T.S.L. Laboratories Ltd.,
325 Howe Street,
Vancouver 1, B. C.

Both companies used the -80 mesh fraction, and the results of a cross check were comparable with minimum of differences.

- 7) Geochemical Contour Map [follows last page]
9) Report on the Nithi Mt. Property for Nithex Exploration & Development Ltd. [NPL] Fraser Lake, Omineca M. B., by A. F. Roberts, P. Eng., January 30, 1971.
10) Geochemical Assays [end of report]

The assays are plotted on 400 scale on the enclosed map, with pertinent assays from the Nithex Exploration work across the boundary.

There are 135 assays covering the work done on Nithi claims Nos. 4, 5, 6, 19 and 20. As these are too few to establish an independent background, the data from Nithex Exploration work was used as a basis:

0 - 5 ppm	Background
5 - 10 ppm	Weakly anomalous
10 - 20 ppm	Moderately to strongly anomalous
+ 20 ppm	Definitely anomalous

Contouring was done at the +5, and +20 levels for simplicity.

This work indicates that the anomalies on the Nithex Exploration ground cross the boundary into the Nithi group and particularly in the southern section of the survey, [an area 1,200 ft. by 800 ft.] still open to the east.

In addition, there is an anomaly at C 10 N, 14E, 600 ft. x 600 ft., and another at C 12 N, 32 E, 600 ft. x 400 ft., open at both ends.

CONCLUSIONS

The Nithi claim group has been shown, by surface examination to contain geological conditions favourable for an economic deposit of molybdenite.

Further, the minor amount of trenching has revealed molybdenite in place in fractures and veinlets.

The small areas of the geochemical survey has revealed anomalous areas of fairly large extent, which tie into anomalous areas on the Nitrex Exploration ground and are open to the east.

RECOMMENDATION

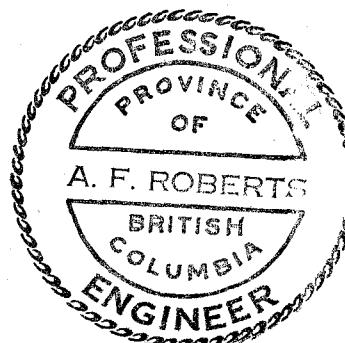
It is recommended that:

- 1] The geochemical survey be extended to cover the balance of the claim group.
- 2] On the completion of 1], that an attempt be made to trench through the oxidized zone in the strongest indicated zones, and sample fresh rock.
- 3] In conjunction with 2], detailed geological mapping of the property should be carried out.

Respectfully submitted,



A. F. Roberts, P. Eng.
November 20, 1971



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:

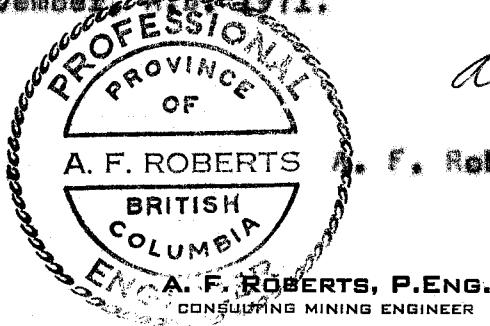
- 1] I am a graduate of the University of British Columbia [B.A.Sc.] in Mining Engineering, 1951.
- 2] I am registered as a Professional Engineer of the Province of British Columbia, and am a member of the Canadian Institute of Mining and Metallurgy.
- 3] I have practiced my profession since 1951 with Quatsino Copper-Gold Mines Ltd., Giant mascot Mines Ltd., Cochenour-Willens Gold Mines Ltd., Mogul Mines Ltd., Kerr Addison Gold Mines Ltd., Atlantic Coast Copper Corp. Ltd., Wacsmac Mines Ltd., Brenda Mines Ltd., and T.C. Explorations Ltd. Since January of 1970, I have been an independent Consultant.

I am Vice-President and a Director of Bathurst Inlet Mining Corp. Ltd.

Previous to military service, and during University, I worked as a miner underground, and on several exploration-development projects.

- 4] The accompanying report is based entirely on my personal evaluation of the data referred to in the report, visits to the property in November 1970, November 20-21, 1971, and the adjoining Nitrex Exploration & Development Ltd. property over the past two years.
- 5] I have not, nor do I expect to receive any interest directly or indirectly in these properties, or any of their securities.

DATED at Vancouver, British Columbia, this 25th day of November, 1971.



A. F. Roberts

A. F. Roberts, P. Eng.

Telephone:
683-0368

201-569 Howe Street
Vancouver 1, B.C.

November 25, 1971

TO:

Mr. M. Sherman
Box 73,
Endako, B. C.

For Professional Services re Nithi Report

2 Field Days Nov. 20, 21, 1971	\$250.00
3 Office Days	<u>225.00</u>
	\$ 475.00

Expenses:

Airfare, Prince George-Vancouver	78.00
Hotel	37.50
Meals	7.50
Taxis	8.00
Typing	25.00
Printing & Xerox	12.51
Miscellaneous supplies	<u>6.75</u>
	175.26

10% Overhead	<u>17.53</u>	192.79
		<u>\$ 667.79</u>

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 20
day of March 1971, A.D.

THIS IS MY BILL

M. Sherman

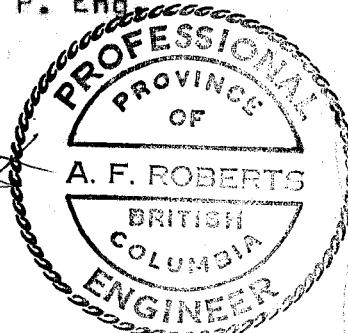
A. F. Roberts, P. Eng.

Joe Turner

Sub-Mining Recorder

A Commissioner for taking Affidavits within British Columbia
A Notary Public in and for the Province of British Columbia

A. F. ROBERTS, P.ENG.
CONSULTING MINING ENGINEER



TO Nithex Exploration
& Development Ltd.,
Box 73,
Endako, B. C.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis
6455 Laurel St., Burnaby 2, B.C.

Tel: 299-5242

File No. 160-B

Type of Samples Pulps

Disposition 6 months

ANALYSES CERTIFICATE

No.	Sample	Total MoS ₂	No.
01	CE810S V8999	34	01
02	CE10+ 2S	33	02
03	CE10+ 4S	14	03
04	CE10+ 6S	10	04
05	CE10+ 8S	12	05
06	CE10+10S	26	06
07	CE10+12S	15	07
08			08
09			09
10			10
11	C12E+ 2S	11	11
12	C12E+ 4S	8	12
13	C12E+6S V8999	10	13
14	C12E+ 8S	7	14
15	C12E+10S	7	15
16	C12E+12S	5	16
17	C12EBL	14	17
18			18
19			19
20			20
21	C14E+ 2S	13	21
22	C14E+ 4S	8	22
23	C14E+ 6S	9	23
24	C14E+ 8S	19	24
25	C14E+10S	15	25
26	C14E+12S	15	26
27			27
28			28
29			29
30	V8999		30
31	C16E+ 2S	17	31
32	C16E+ 4S	11	32
33	C16E+ 6S	9	33
34	C16E+ 8S	13	34
35	C16E+10S	9	35
36	C16E+12S	8	36
37			37
38			38
39			39
40			40

All reports are the confidential property of clients.

in ppm.

DATE SAMPLES RECEIVED Aug. 18/71

DATE REPORTS MAILED Aug. 19/71

ANALYST D. Seay

TO Nithex Exploration & Development Ltd.,
Box 73,
Endako, B. C.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis
6455 Laurel St., Burnaby 2, B.C.

Tel: 299-5242

File No. 160-B

Type of Samples Pulps

Disposition 6 months

ANALYSES CERTIFICATE

No.	Sample	Total. MoS ₂											No.
01	C30E+ 8N	5											01
02	C30E+10N	4											02
03	C30E+12N	29											03
04	C30E+14N	9											04
05													05
06													06
07													07
08													08
09													09
10	V8999												10
11	C32E+8-8N	13											11
12	C32E+10N	23											12
13	C32E+12N	6											13
14	C32E+14N	4											14
15													15
16													16
17													17
18													18
19													19
20													20
21	C34E+ 8N	29											21
22	C34E+10N	6											22
23	C34E+12N	3											23
24	C34E+14N	4											24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
32													32
33													33
34													34
35													35
36													36
37													37
38													38
39													39
40													40

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DATE SAMPLES RECEIVED Aug. 18/71

DATE REPORTS MAILED Aug. 19/71

ANALYST R. J. Taylor

T S L

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

ASSAYERS
CHEMISTS
GEOCHEMISTS

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

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM NITH-EX EXPLORATIONS DEV.LTD. N.P.L.

REPORT NO.
V8983-1

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	A + 2E						1	
2	A E 2 + 2S						1	
3	4						2	
4	6						12	
5	8						2	
6	10						<1	
7	12						2	
8	A E 2 + 14S						6	
9	A + 4 E						2	
0	A E 4 + 2S						1	
1	A E 4 + 4S						2	
2	6						1	
3	8						1	
4	10						2	
5	12						<1	
6	A E 4 + 14S						5	
7	B E 10						2	
8	B E 10 + 2S						4	
9	4						3	
0	B E 10 + 6S						2	

DATE

July 22, 1971

SIGNED



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

T S L

Laboratories Limited

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CHEMISTS
GEOCHEMISTS

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

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM NITH-S EXPL. DEU. LTD. N.P.L.

REPORT NO.

08983-2

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	BE10 + 8S						1	
2	10						1	
3	BE10 + 12S						<1	
4	BE 12						<1	
5	BE 12 + 2S						4	
6	4						4	
7	6						4	
8	8						3	
9	10						4	
0	BE 12 + 12S						1	
1	BE 14						3	
2	BE 14 + 2S						1	
3	4						1	
4	6						8	
5	8						5	
6	10						5	
7	BE 14 + 12S						3	
8	BE 16						2	
9	BE 16 + 2S						3	
0	BE 16 + 4S						<1	

DATE

July 22, 1971

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CHEMISTS
GEOCHEMISTS

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

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM NITH-Ex EXPL. DEV. LTD. N.P.L.

REPORT NO.

U8983-3

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	BE16 + 6S						5	
2	8						2	
3	10						2	
4	BE16 + 12S						3	
5	BE18						2	
6	BE18 + 2S						7	
7	4						2	
8	6						3	
9	8						4	
0	BE 18 + 10S						2	
1	BE 18 + 12S						1	
2	BE 20						2	
3	BE 20 + 2S						3	
4	4						1	
5	6						<1	
6	8						4	
7	10						4	
8	BE 20 + 12S						4	
9	CE 10						20	
0	CE 10 + 2S						4	

DATE

July 22, 1971

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

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM NITH-EX EXPL. DEV. LTD. N.P.L.

REPORT NO.

U8983-4

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	CE 10 + 4N						1	
2	6						4	
3	8						3	
4	10						28	
5	CE 10 + 12N						1	
6	CE 12						8	
7	CE 12 + 2N						1	
8	4						1	
9	6						3	
0	CE 12 + 8N						10	
1	CE 12 + 10N						41	
2	CE 12 + 12N						2	
3	CE 14						20	
4	CE 14 + 2N						3	
5	4						9	
6	6						7	
7	8						7	
8	10						1	
9	CE 14 + 12N						1	
0	C + 16 E						6	

DATE

July 22, 1971

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

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM NITH-EX EXPL. DEV. LTD. N.P.L.

SAMPLE(S) OF SOIL

REPORT NO.
U8983-5

RESULTS IN PARTS PER MILLION

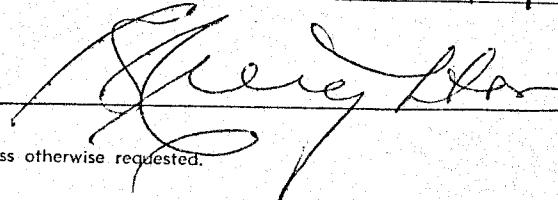
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	CE 16 + 2N						<1	
2	4						3	
3	6						7	
4	8						4	
5	10						3	
6	CE 16 + 12N						5	
7	C + 18E						6	
8	CE 18 + 2N						1	
9	4						3	
0	CE 18 + 6N						2	
1	CE 18 + 8N						2	
2	10						2	
3	CE 18 + 12N						3	
4	C + 20 E						7	
5	CE 20 + 2N						3	
6	4						1	
7	6						3	
8	8						3	
9	10						5	
0	CE 20 + 12N						4	

DATE

July 22, 1971

SIGNED

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




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Canadian Testing
Association

T S L

ASSAYERS
CHEMISTS
GEOCHEMISTS

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

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

TELEPHONE 688-3504
AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM NITH-EX EXPL. CO. LTD. N.P.L.

SAMPLE(S) OF SOIL

REPORT NO.
U8983-6

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	C + 22 E						1	
2	CE 22 + 2A1						1	
3	4						3	
4	6						5	
5	8						2	
6	10						2	
7	CE 22 + 12 N						5	
8	C + 24 E						6	
9	CE 24 + 2N						1	
0	CE 24 + 4 N						<1	
1	CE 24 + 6 N						<1	
2	8						1	
3	10						3	
4	CE 24 + 12 N						2	
5								
6								
7								
8								
9								
0								

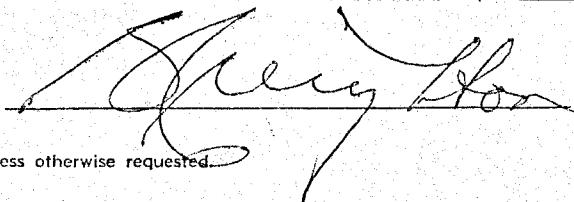
$$MoS_2 = Mo(\text{ppm}) \times 1.66$$

< = LESS THAN

DATE

July 22, 1971

SIGNED



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



Member
Canadian Testing
Association

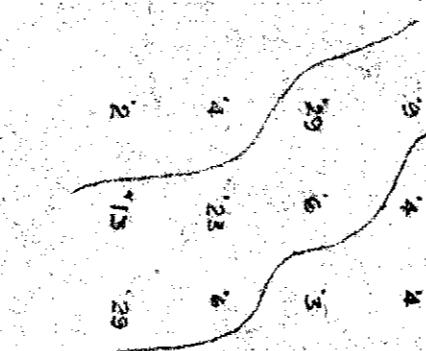
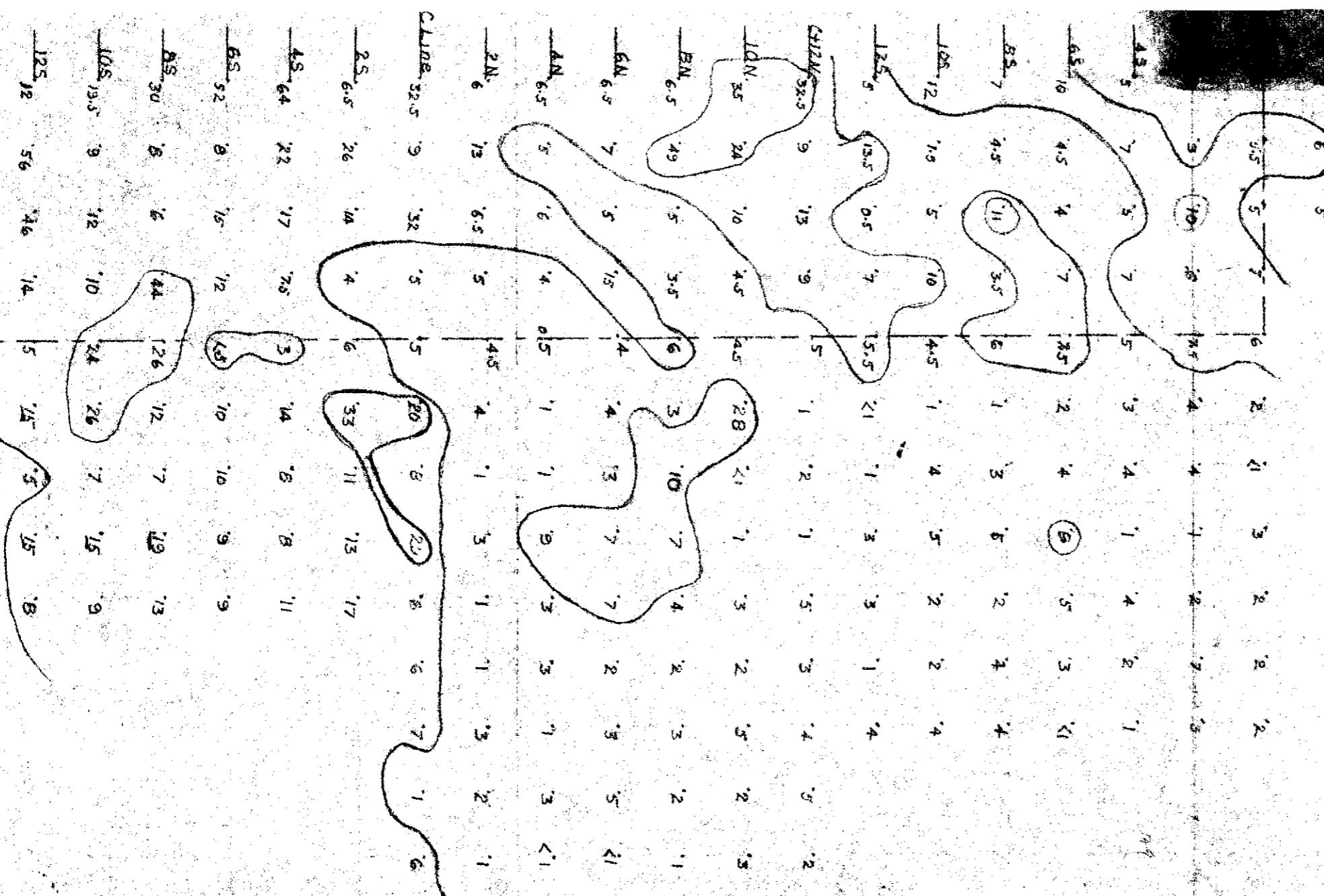
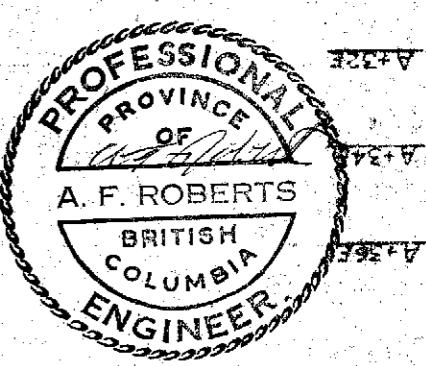
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3546 MAP #4

LEGEND Mo
 0-5 BACKGROUND
 5-10 WEAKLY ANOMALOUS
 10-15 MODERATELY TO
 STRONGLY ANOMALOUS
 20 PLUS DEFINITELY
 ANOMALOUS
 BOUNDARY

M.SHERMAN
NITH CLAIM GROUP
 OMINECA M.D.

PARTIAL GEOCHEMICAL
 SURVEY

Drawn by AFR
 Scale: 1" = 400'
 Date: Nov 20, 1971



To Accompany a Report by A.F. Roberts, P.Eng.
 Dated Nov 20, 1971.

NITEX EXPLORATION

M SHERMAN