

Care is stored in Endako at my home

5018

93F/15W

NITHEX EXPLORATION & DEVELOPMENT LTD. [NPL]

ENDAKO, B. C.

LOG OF DDH N1-73 AND DDH H4-73

Long. 129°50'W

Lat. 53°58'N

OMINECA M. D.

By

A. F. ROBERTS, P.ENG.

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5018	MAP _____

December 19, 1973

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MAPS

- #1] Location Map.....[follows page 1]
- #2] Property Claim Map.....[follows page 2]
- #3] DDH LAYOUT MAP N1-73..... [back pocket]
- 6] Drill Hole Log N1-73 [4 pages]..... [end of report]
- 7] Drill Hole Log H1-73..... [end of report]
- 8] Assay Certificates H4-73..... [end of report]

REFERENCES

- 4] B.C. Department of Mines & Petroleum Resources, Endako Area, Eastern, April 1966, Geology by M. Carr
- 5] Report on the Nithi Mt. Property for Nithex Exploration & Development Ltd. [NPL], Fraser Lake, Omineca M. D., Lat. 53° 58' N., Long. 124° 50' W, by A.F. Roberts, P.Eng., January 30, 1971.

NITHEX EXPLORATION & DEVELOPMENT LTD. [NPL]

ENDAKO, B. C.

LOG OF DDH N1-73

Long. 129°50'W

Lat. 53°58'N

OMINECA M. D.

A. F. Roberts, P.Eng.

December 19, 1973

INTRODUCTION

A 375 foot, DDH, B core was drilled at the location shown on the enclosed claim map, ^{1]} and further identified by the partial geochemical map ^{2]} showing the proposed drill hole layout.

The core will be stored in a warehouse owned by Mr. M. Sherman, President of the Company, in Endako, B. C.

The writer logged the core on the property December 15, 16, 17, 1973.

GENERAL GEOLOGY ^{3]} ^{4]}

The rocks of the claim group are shown by the reference to be Casey quartz monzonites.

They are generally porphyritic, consisting of 40% quartz, 30% pink K-spar, 30% white to pale green plagioclase.

-
- 1] Location Map [follows page 1]
 - 2] Property Claim Map [follows page 2]
 - 3] DDH Layout Map N1-73 [back pocket]
 - 4] B.C. Department of Mines & Petroleum Resources, Endako Area, Eastern, April 1966, Geology by M. Carr

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. **5018** MAP. **#1**

Alteration consists of bleaching and kaolinization of the K-spar, and deepening of the colour of the plagioclase and kaolinization.

The MoS_2 occurs as grains to massive in fractures, and as rosettes disseminated in the country rock. Pyrite is not plentiful in surface showings. There is some sericitic alteration along fractures.

LOCATION

The hole is near the boundary between MJM 10 and Pine 2 claims. It is better identified by the geochemical grid as: Line B 24 S, 1W, as no legal surveys of the group exist.

DESCRIPTION 5] 6]

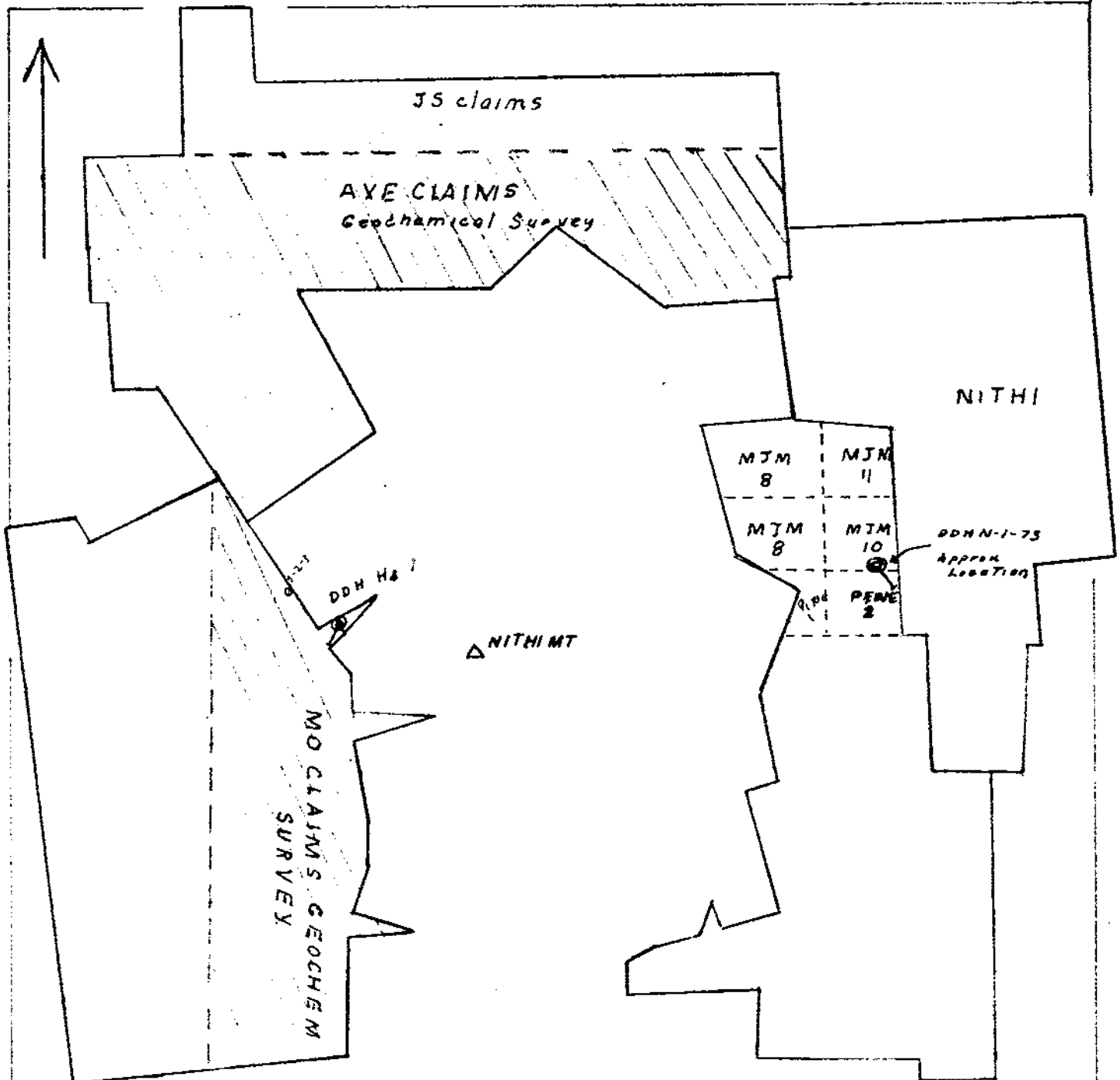
Without exception, the entire core shows varying degrees of alteration as described above. In addition, in two places the pink K-spar has been crushed so as to have the appearance of cobalt bloom on kaolin.

Pyrite is rare and very fine. There was an increase in pyrite in the few places containing MoS_2 . This has not been observed previously in surface showings.

There were very rare fractures $\frac{1}{2}$ " to 1" long and $\frac{1}{6}$ " wide filled with hematite.

5] Report on the Nithi Mt. Property for Nithex Exploration & Development Ltd., Fraser Lake, Omineca M.D., Lat. $53^{\circ} 58' \text{N}$, Long. $124^{\circ} 50' \text{W}$, by A.F. Roberts, P.Eng., January 30, 1971.

6] Log of DDH N1-73, 4 sheets [end of report]



NITHEX EXPLORATION

8

DEVELOPMENT LTD (NPL)

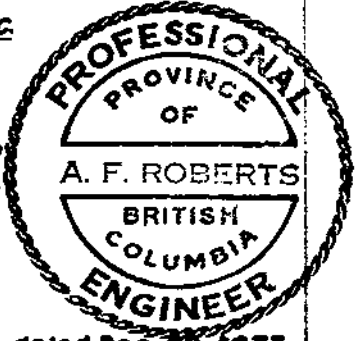
ENDAKO, B.C.

CLAIM MAP

DRAWN BY *AFR*

SCALE 1" = 1/2 mile

DATE DEC 20, 1973



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **5018** MAP **#2**

To Accompany Report by A F ROBERTS, PEng dated Dec 20, 1973 and Dec 19, 1973

The core did not break up badly, but it is well fractured although the fractures are tight. Many fractures are filled with white, watery quartz. Some show definite offsets from $\frac{1}{4}$ " to 1".

Broken fractures usually were filled with limonite, Mn O₂ stain, kaolin and chlorite.

CONCLUSIONS

This hole did not show the mineral content expected from surface showings and the geochemical survey.

There was more pyrite with the few MoS₂ filled fractures than had been noted in surface work.

It is possible that a few miles of I.P. survey would help to locate future drill holes to better advantage than geochemistry alone. Attention would have to be paid to very low I.P. response.

Respectfully submitted,



A. F. Roberts, P. Eng.



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., 1951].
- 2] I am registered as a Professional Engineer of the Province of British Columbia, and I 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-Williams Gold Mines Ltd., Mogul Mines Ltd., Kerr Addison Gold Mines Ltd., Atlantic Coast Copper Corp. Ltd., Wasamac Mines Ltd., Brenda Mines Ltd., T. C. Explorations Ltd. Since 1969 I have been an independent consultant.

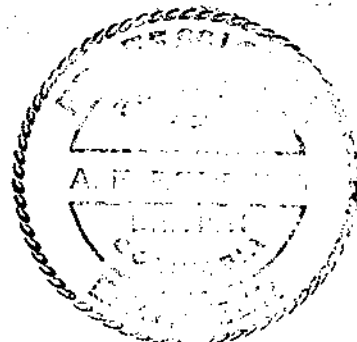
Previous to University I had worked underground as a miner. During University, I worked on various mining and exploration projects.

- 4] The accompanying report is based on a personal logging of the core December 15, 16, 17, 1973 and on references quoted in the text.
- 5] I have not, nor do I expect to receive any interest, direct or indirect, 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 the City of Vancouver, in the Province of British Columbia, this 19th day of December, 1973.

A. F. Roberts

A. F. Roberts, P. Eng.



DIAMOND DRILL LOG

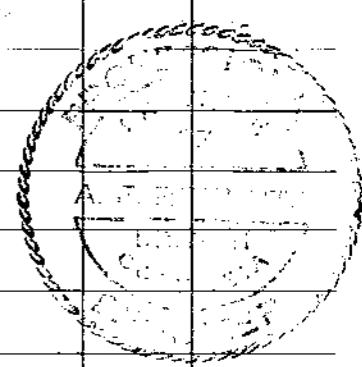
COLLAR:---

LAT.
 DEP.
 ELEVATION
 AZIMUTH **162°, -45°**

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

PROPERTY Nithex Exploration & Development Ltd.
 HOLE NO. **N1-73** **B core**
 COMMENCED **Dec. 11, 73**
 FINISHED **Dec. 17, 73 @ 374**
 PURPOSE OF HOLE **Geology, Sampling**
 LOGGED BY: **A. F. Roberts, P. Eng.**

FOOTAGE	DESCRIPTION	Recovery %	CORE SAMPLES											
			SAMPLE NO.	FROM	TO	WIDTH	ASSAY	WIDTH X ASSAY	SAMPLE NO.	FROM	TO	ASSAY		
0 - 20	Casing from collar - 2' in bedrock	0												
20 - 26	Pink qtz monzonite, broken, limonite, Manganese oxide on fractures.													
26 - 30	Fractures 60°, 45°, 90°, 20°, 10° to core	55												
	As previous, sl. kaolinization of K-spar													
30 - 38	Plagioclase yellow to green alt. Well fractured	100												
	Gradual loss of pink in K-spar to overall greenish colour													
38 - 40.5	Greenish tinge, with narrow bands of pink K-spar.													
	Scattered pink K-spar in balance of core. Rare fine pyrite 1/16" MoS ₂ @ 39.5 @ 90° to core and 1 parallel to core.	100												
40.5 - 42.5	Pink tinge - K-spar	100												
42.5 - 51	Greenish tinge, kaolin in fractures, rare fine pyrite, considerable rust	95												
	Broken, rusty, considerable kaolin	100												
54 - 64	Variable pink to greenish, mostly pink 1/16" - 1/2" dikes of aplite	100												



DIAMOND DRILL LOG

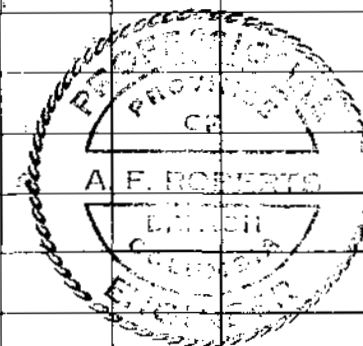
COLLAR:—

LAT.
 DEP.
 ELEVATION
 AZIMUTH 162° , 45°

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

PROPERTY **Nithex Exploration & Development Ltd.**
 HOLE NO. **N1-73** **B core**
 COMMENCED **Dec. 11, 73**
 FINISHED **Dec. 17, 73 @ 374**
 PURPOSE OF HOLE **Geology, Sampling**
 LOGGED BY: **A. F. Roberts, P. Eng.**

FOOTAGE	DESCRIPTION	Recovery	CORE SAMPLES										
			SAMPLE NO.	FROM	TO	WIDTH	ASSAY	WIDTH X ASSAY	SAMPLE NO.	FROM	TO	ASSAY	
64 - 74	Generally pink, 1' greenish with chlorite and kaolin on fractures at 69'. Rare fine pyrite.												
	Rusty, MnO ₂ stain on fractures	100											
74 - 91	1' aplite 74.5 - 75.5. Balance pale pink. 1' broken aplite 80 - 81, also 1/16" - 1/2" aplite 76 - 77. Considerable oxidation of pyrite.												
	MnO ₂ stain	100											
91 - 106	More pink and green with very dark qtz. Pyrite, fine, associated with MoS ₂ in 1/32" crossfractures at 91', 91.5', 92.6'. From 98' - 106' orange coloured due to limonite. Dark bands of qtz. -												
	MnO ₂ stain. Rare fine pyrite	100											
106 - 116	Mottled pin-gray. Chlorite and MnO ₂ stain in fractures. 0.5' @ 103' partly kaolinized	100											
116 - 136	Regular mottled pink-gray. Aplitic dike 135-136. limonite, Mn O ₂ stain. Rare fine pyrite	100											



DIAMOND DRILL LOG

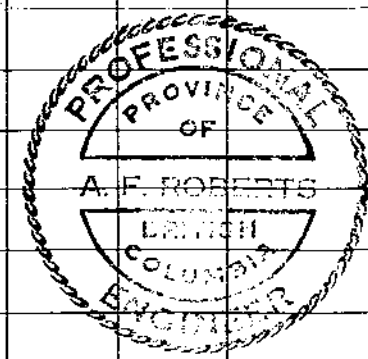
COLLAR:—

LAT.
 DEP.
 ELEVATION
 AZIMUTH 162°, -45°

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

PROPERTY **Nóthex Exploration & Development Ltd.**
 HOLE NO. **N1-73** **B core**
 COMMENCED **Dec. 11, 73**
 FINISHED **Dec. 17, 73 @ 374**
 PURPOSE OF HOLE **Geology, Sampling**
 LOGGED BY: **A. F. Roberts, P. Eng.**

FOOTAGE	DESCRIPTION	Recovery %	CORE SAMPLES											
			SAMPLE NO.	FROM	TO	WIDTH	ASSAY	WIDTH X ASSAY	SAMPLE NO.	FROM	TO	ASSAY		
136-154	Generally pink-gray mottling. Surface and fracture oxidation - kaolinization	100												
154-170	Pink to brown with oxidation and kaolinization. All core fairly soft. Mn. stain. Pink bloom due to crushing of pink K-spar without kaolinization (?)	100												
170 - 190	MoS ₂ in fractures @ 78.5, 79.6. Pale pink rock. Very broken and oxidized with kaolinization. Exception 78' 80' - darker and greener than rest of section, with chlorite on fractures	100												
190 - 199	As previous, but more broken and kaolinized	100												
199 - 232	Finer grained. Pinkish cast almost eliminated. Generally gray-green occasional narrow (1/4") bands of pink K-spar on quartz-filled fractures. Rusty on opened fractures	100												
232 - 237	Aplite dyke	100												
242 - 251	Pink and green feldspars 50/50. Slight kaolinization													



DIAMOND DRILL LOG

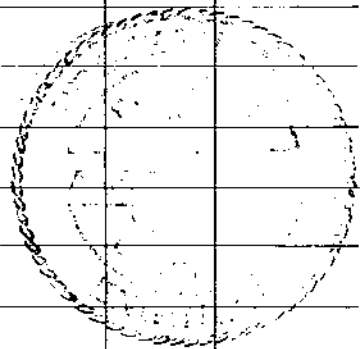
COLLAR:—

LAT.
 DEP.
 ELEVATION
 AZIMUTH 162°, -45°

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

PROPERTY Nithex Exploration & Development Ltd.
 HOLE NO. NI-73 B core
 COMMENCED Dec. 11, 73
 FINISHED Dec. 17, 73 @ 374
 PURPOSE OF HOLE Geology, Sampling
 LOGGED BY: A.F. Roberts, P. Eng.

FOOTAGE	DESCRIPTION	Recovery %	CORE SAMPLES										
			SAMPLE NO.	FROM	TO	WIDTH	ASSAY	WIDTH X ASSAY	SAMPLE NO.	FROM	TO	ASSAY	
251 - 258	Gray-greenish, slightly kaolinized	100											
258 - 306	Mottled pink and green. Rusty fractures. Slight kaolinization	100											
306 - 341	Generally pink, some grayish. Oxidation on surface, and on fractures from rare pyrite. Grading to aplite in last foot	100											
341 - 365	Aplite	100											
365 - 374	Pinkish, finer grain than usual. Minor quartz-filled fractures. Oxidation on fractures	100											
END OF HOLE													
A. F. Roberts, P. Eng.													



LOG OF DDH ~~14~~ 4-73
 LOCATED ON MO #1 FRAC.
 LINES 59S, 8E

INTRODUCTION

This hole was drilled to test a number of fractures containing MoS_2 , and to check geology and alteration. It was drilled with a Winkie Drill, "E" core.

The same references are used for this report as for DDH N1-73.

This hole was drilled on October 31, 1973.

LOCATION 2]

This hole is on the west side of Nithi Mt. on the MO #1 Fraction.

Better reference is to the geochemical survey lines as 59S, 8E.

GENERAL GEOLOGY 4]

The rocks of this side of the mountain are defined as Nithi quartz monzonites by Carr. To the writer there are no obvious differences other than as you move west and north, they grade to quartz diorites with magnetite outside the MO boundaries, and in the westerly Axe claims.

2] Property Claim Map [follows page 2]

4] B.C. Department of Mines & Petroleum Resources, Endako Area, Eastern, April 1966, Geology by M. Carr.

DESCRIPTION 7]

Core recovery was very poor, as is to be expected using small core in fractured ground, near the surface.

The feldspars are highly altered with bleaching and kaolinization of the K-spar, and green alteration of the plagioclase.

Pyrite, as noted in observations elsewhere, is scarce.

MoS₂ was noted as specks in most of the core, but there was so little core, only the three best sections were assayed.

Assays 8] gave a weighted average of 0.16% MoS₂ for 43 feet, assuming the balance of the core did not contain any values, which is not strictly true.

CONCLUSIONS

This hole was drilled strictly on observed mineralization and where geochemical response was only background, although increasing to threshold values towards the toe of the hole.

Recently it has been noted that there appears to be a greater concentration of pyrite with good mineralization of MoS₂ than was seen in surface material. It is therefore suggested that a few miles of I.P. be run to seek higher

7] Drill Hole Log H4-73	[end of report]
8] Assay Certificate Hole 4-73	[end of report]

pyrite areas, and test the anomalous areas for greater than average MoS_2 content.

It will be necessary to evaluate even the lowest I.P. response, as only very low response can be expected.

Some doubt is cast upon the true value of a geochemical survey, as this hole, H₄, and several other locations with very low geochemical response are in areas of good mineralization, whereas Hole N-1 was drilled across a high geochemical anomaly with poor success. This may be due to thin overburden with high leaching by surface runoff.

The high geochemical samples were not taken in humus.

Respectfully submitted,



A. F. Roberts, P. Eng.



TO _____
 Nitrex Expl. Dev. Ltd.,
 Box 73, Endako, B. C.

ACME ANALYTICAL LABORATORIES LTD.

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

Tel: 299-5242

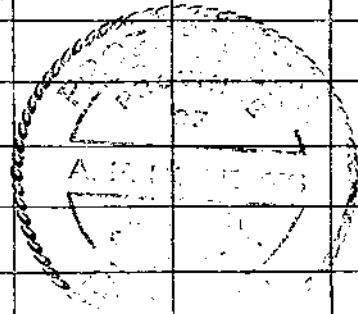
File No. 2770

Type of Sample Cores

Disposition 1 year

ANALYSES CERTIFICATE

No.	Sample	Total MoS ₂ %					No.
1	3136	.265	1.5'				1
2	3137	.830	0.5'				2
3	3138	1.960	3'				3
4				Weighted Av for core assayed (5') 1.35% } <i>ATD</i>			4
5				v v v Total core (73') 5.16% } <i>ATD</i>			5
6				Assumes that last core plus remaining core (38')			6
7				had no impurities, whereas most of core			7
8				had impurities of MoS ₂ in the remaining section.			8
9							9
10							10
11							11
12							12
13							13
14							14
15							15
16							16
17							17
18							18
19							19
20							20



All reports are the confidential property of clients.

DATE SAMPLES RECEIVED Oct 26, 1973

DATE REPORTS MAILED Oct 30, 1973

ANALYST

Dean Toye

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER

DIAMOND DRILL LOG

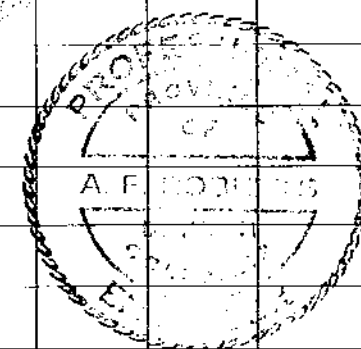
COLLAR:---

LAT. See Soil Sampling Map MD Group
 DEP.
 ELEVATION
 AZIMUTH 210° - 55°

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

PROPERTY Nithex Exploration & Development Ltd.
 HOLE NO. H4 Winkie Core
 COMMENCED Oct. 21, 73
 FINISHED do.
 PURPOSE OF HOLE Geology, Sampling
 LOGGED BY: A. F. Roberts, P. Eng.

FOOTAGE	DESCRIPTION	Recovery %	CORE SAMPLES						SAMPLE NO.	FROM	TO	WIDTH	ASSAY	WIDTH X ASSAY	SAMPLE NO.	FROM	TO	ASSAY
			SAMPLE NO.	FROM	TO	WIDTH	ASSAY	WIDTH X ASSAY										
0 - 8	Casing all qtz. dark clear glassy																	
8 - 10	50% qtz., 80% yellow-green alt. of feldspar.																	
	Flecks of MoS ₂	75																
10 - 12	30% qtz., 70% yellow-green alt. of feldspar. Kaolinization of K-spar. Rusty patches. MnO ₂	60																
12 - 15	40% qtz. Alt. as above. Occasional flecks MoS ₂	75																
15 - 16.5	¼" band MoS ₂ @ 15.1'. Rock as above	80	3136	15'	16.5	1.5	0.265	0.3975										
16.5 - 17	Qtz. + MoS ₂	90	3137	16.5	17	0.5	0.830	0.4150										
17 - 20.5	Rusty, broken 40% alt. feldspar flecks MoS ₂	60																
20.5 - 22	Broken alt. feldspars, 40% qtz. Flecks MoS ₂	50																
22 - 25	Broken rusty patches. Alt. feldspar, qtz.	20																
25 - 27	40% qtz. Alt. kaolinized feldspar. Rusty patches																	
	Flecks MoS ₂	20																
27 - 28	Rusty broken - Mostly qtz.	10																
28 - 29	As above	25																
29 - 30.5	As above	15																
30.5 - 32	30% qtz. alt. feldspar	80																



DIAMOND DRILL LOG

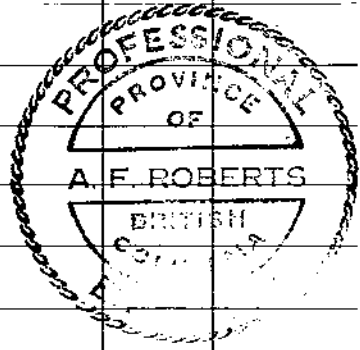
COLLAR:—

LAT. See Soil Sampling Map MQ Group
 DEP.
 ELEVATION
 AZIMUTH 210° - 55°

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

PROPERTY Nitrex Exploration & Development Ltd.
 HOLE NO. H4 Winkie Core
 COMMENCED Oct. 21, 73
 FINISHED do.
 PURPOSE OF HOLE Geology, Sampling
 LOGGED BY: A. F. Roberts, P. Eng.

FOOTAGE	DESCRIPTION	Recovery %	CORE SAMPLES											
			SAMPLE NO.	FROM	TO	WIDTH	ASSAY	WIDTH X ASSAY	SAMPLE NO.	FROM	TO	ASSAY		
32 - 34	40% Alt. feldspars @ 34', 0.2' pink K-spar with pyrite	60												
34 - 36	Alt. feldspar, more pink K-spar, & pyrite	70												
36 - 39	Mostly qtz., MoS ₂ (Lamp dike ?)	50	3138	36	39	3	1.960	5.880						
39 - 43	Only 2" pink K-spar, pyrite to represent this	4												
<p>NOTE: Only 5' sent for assay. Balance contains occasional flakes of MoS₂ plus occasional MnO₂ stain. Quartz content is high, and is a good "live" quartz, varying from dark to clear. Alteration is very strong throughout, consisting of yellow to green plagioclase, and kaolinitization of the K-spar. Pink K-spar with minor pyrite was seen at only as shown in the log of 34' - 36'. Poor core recovery probably also lost mineralization.</p> <p>Rusty zones at 30' indicate that the hole never completely penetrated the oxidized zone.</p> <p>Weighted average over 43' from 5' of core assayed = 0.18% MoS₂.</p> <p>This assumes that 38' of core was without any mineralization, whereas most of recovered core had specks of MoS₂. High core loss probably lowered overall results.</p>														



404-470 Granville St.,
Vancouver, B. C.
V6B 1Y9

January 4, 1974


TO Nithex Exploration & Development Ltd.

For Professional Services December 21, 1973

Geochemical Survey Report	400.00
Logging core - 5 days N1-73, H4-73	<u>750.00</u>
	\$1,150.00

Expenses:

Air Fare Prince George	\$ 78.00	
Meals	5.50	
Copying	5.00	
Supplies	25.00	
Typing - \$14.00, Mrs. Ahlberg 70.00	84.00	
Blueprinting	<u>12.53</u>	210.03
		<u>1,360.03</u>
Plus 10% overhead		<u>136.00</u>
TOTAL		<u>\$1,496.03</u>


A. F. Roberts, P. Eng.

Declared before me at the

of

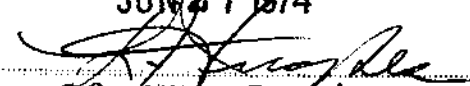
, in the

Province of British Columbia, this

VANCOUVER, B. C.

, A.D.

JUN 27 1974


Sub-Mining Recorder
A Notary Public in and for the Province of British Columbia.

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

SUB-MINING RECORDER
RECEIVED
JUN 27 1974
M.R.# 90419E
\$ 100.00
VANCOUVER, B. C.

SCHEDULE A

NITHEX EXPLORATION AND DEVELOPMENT LTD. (N.P.L.)

Expenditure for period August 1, 1973 to October 31, 1973

Recording fees	\$ 415.00
License	160.00
Chamber of Mines dues	50.00
Wages and employee benefits	680.70
Field supplies	150.57
Camp supplies	115.33
Bookkeeping	254.53
B.C. Telephone	305.40
Drill repairs	288.75
Gas and oil	251.48
Bank service charges	2.40
Royal Bank interest	140.40
Royal Bank loan repaid	\$,100.00
Travel expense	,127.65

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **5018** MAP

\$ 7,042.2

SCHEDULE A

NITHEX EXPLORATION AND DEVELOPMENT LTD. (N.P.L.)

Expenditure for period November 1, 1973 to January 31, 1974

Recording Fees	\$ 646.00
License	400.00
Legal	2,727.42
Maintenance (Canada Permanent Trust)	553.55
Engineering reports	574.00
Audit	1,250.00
Wages and employee's benefits	6,689.26
Cat work and drilling	2,491.25
Drill supplies & field supplies	2,158.71
Assays and freight on assays	1,556.62
Camp supplies	523.59
Printing and office supplies	729.71
Bookkeeping	186.00
Telephone	135.62
Gas, oil & diesel	750.86
4 x 4 truck rentals	900.36
Travel expense	1,651.10
	<hr/>
	\$ 24,924.06

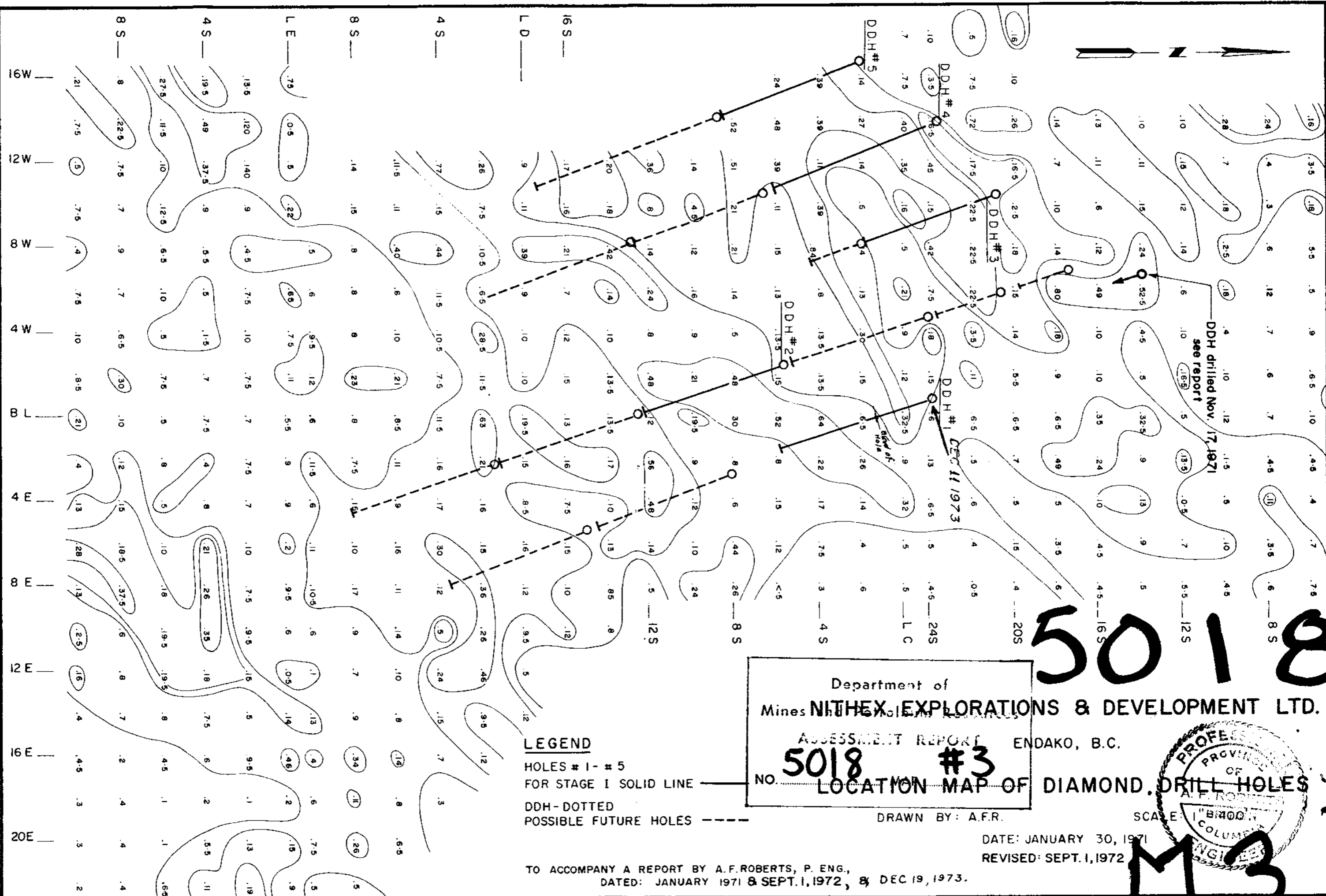
SCHEDULE A

NITHEX EXPLORATION AND DEVELOPMENT LTD. (N.P.L.) 24

Expenditure for period February 1st, 1974 to April 30, 1974 30

Maintenance (Canada Permanent Trust)	\$ 133.50
Engineering reports	1,496.03
Cat work and snow plowing	2,004.92
Drill supplies and field supplies	570.48
Camp supplies	278.93
Bookkeeping	108.00
Telephone	182.41
Bank service charges	1.00
Travel expense	1,050.00

\$ 5,825.27



5018

Department of
Mines **NITHEX EXPLORATIONS & DEVELOPMENT LTD.**
ASSESSMENT REPORT ENDAKO, B.C.
NO. **5018 #3**
LOCATION MAP OF DIAMOND DRILL HOLES
DRAWN BY: A.F.R.



LEGEND
HOLES # 1 - # 5
FOR STAGE I SOLID LINE
DDH - DOTTED
POSSIBLE FUTURE HOLES - - - -

DATE: JANUARY 30, 1971
REVISED: SEPT. 1, 1972

TO ACCOMPANY A REPORT BY A.F. ROBERTS, P. ENG.,
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