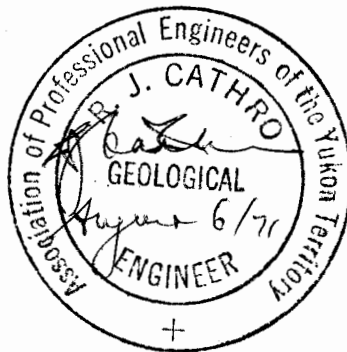


REPORT ON DIAMOND DRILLING  
for  
MITSUBISHI METAL MINING COMPANY LIMITED

on  
KL MINERAL CLAIM (KL 1 to 9 inclusive) AND MAK MINERAL CLAIM  
(MAK 4,6,8,15 to 28 inclusive,37,38 and 40) GROUP  
61°29'N, 136°45'W, LONG LAKE AREA 115 - H - 7  
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

by  
Robert J. Cathro, P. Eng.

August 6, 1971



08/31/71  
091324

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STATEMENT OF QUALIFICATION

Robert J. Cathro, P. Eng.

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## I. INTRODUCTION

In the period from June 14 to July 20, 1971, the staff of Mitsubishi Metal Mining Company Limited completed diamond drilling on the "KL" and "MAK" claim groups located in the Long Lake Area of the Yukon Territory on behalf of the above mentioned company, a mining company legally incorporated in Japan having its main office in Tokyo and one of its branch offices in Vancouver (404-900 West Hastings Street, Vancouver 1, B. C.).

The work was carried out with the objective of proving and expanding the significant copper showing which was located on the "KL" claim by the company staff in 1970.

Seven holes of diamond drilling (total 2,590 feet) were completed, and the herein described detail work was completed during the above mentioned period under the supervision of Robert Cathro, P. Eng.

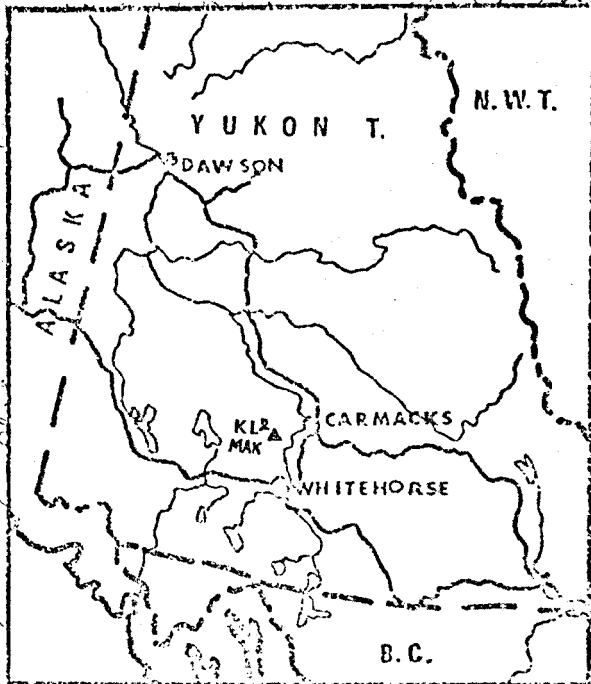
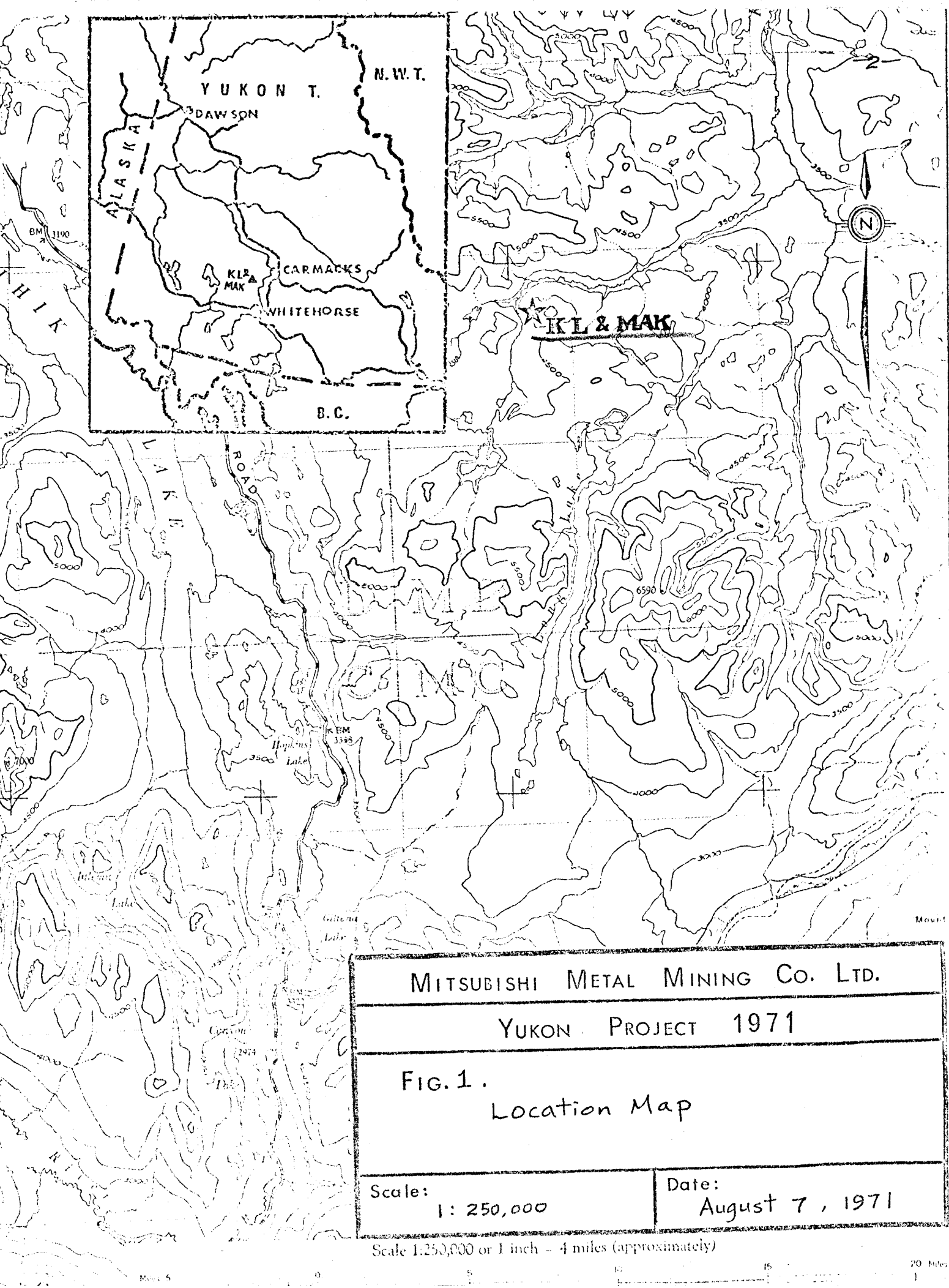
## II. GENERAL STATEMENT

### 1) Location, Access, and Geographic Features

The property ("KL" and "MAK" claim groups) is situated at about latitude  $61^{\circ}29'N$  and longitude  $136^{\circ}45'W$  in Long Lake Area of Claim Sheet 115-H-7, in the Whitehorse Mining District, Yukon Territory. It is about 75 air miles NW of Whitehorse. (See Figs. 1 and 2)

There is no access road into the property, although there is the Aishihik road about 10 air miles west of the property.

The mineral claim group is approximately 3800' to 5300' in elevation on a steep hill with some vegetation at the bottom and less at top.



**KLB & MAK**

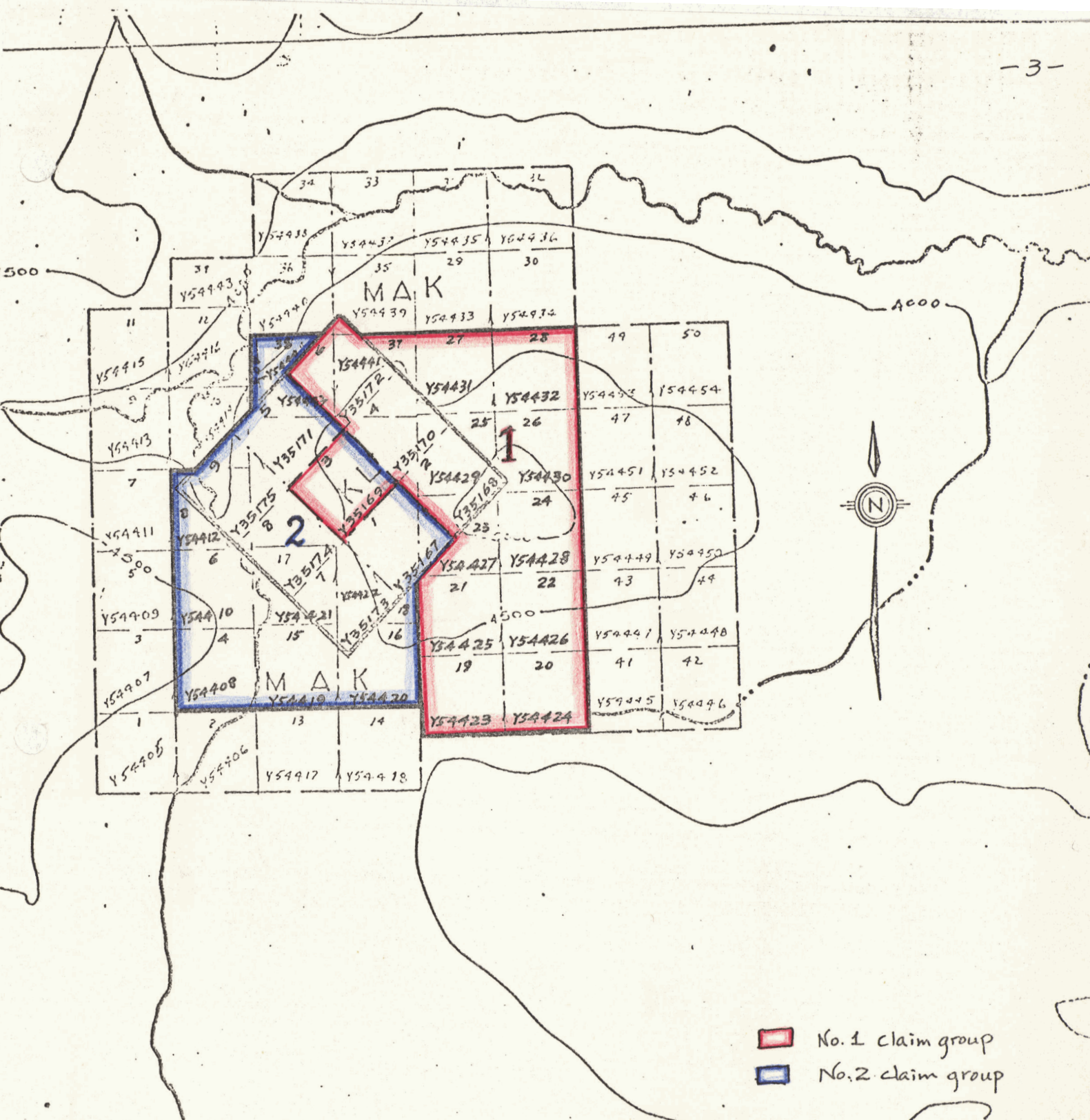
B.C.

ALASKA  
YUKON T.  
DAWSON  
CARMACKS  
WHITEHORSE



MITSUBISHI METAL MINING CO. LTD.	
YUKON PROJECT 1971	
FIG. 1. Location Map	
Scale: 1: 250,000	Date: August 7, 1971

Scale 1:250,000 or 1 inch = 4 miles (approximately)



MITSUBISHI METAL MINING CO. LTD.	
YUKON PROJECT 1971	
FIG. 2. KL and MAK claim group Claim Map	
Scale: 1 inch = 1/2 miles.	Date: August 7, 1971

2) History of Mineral Claims

a) "KL" Claim Group

The "KL" claim group was staked first by Takaaki Kashiwagi and W. E. Fraser in 1969, and transferred to Mitsubishi Metal Mining Co., Ltd. In 1970, representation work was done twice, the first time geochemical and geological surveys being done and the second time a geophysical survey carried out. These surveys were allowed as representation work entitling validation of the claim group until 1977.

References are:

- 1) Assessment Report, June 1970 by Toru Kikuchi, Ph.D., P. Eng.  
..... Ref. 1
- 2) Assessment Report, Jan. 1971 by Peer Norgaard, P.Eng., Ref. 2

b) "MAK" Claim Group

The "MAK" claim group was staked first by Noritaka Sato et al., and transferred to Mitsubishi Metal Mining Co., Ltd. Expiry date of the claim is August 17, 1971.

Mitsubishi Metal Mining Co., Ltd., the present owner of both "KL" and "MAK" claims, had sent the company staff to the property to carry out the detailed geological and geochemical surveys, trenching and diamond drilling. <sup>(in 1971)</sup> The result of the diamond drilling will be reported in the following items as an assessment work report in application to extend the expiry date of "MAK" claims 4, 6, 8, 15 - 28 inclusive, 37, 38 and 40, and "KL" 1 - 9 inclusive.

According to the Yukon Quartz Mining Act, before applying for a

Certificate of Work, an application will be made to group these twenty-nine (20 "MAK" claims and 9 "KL" claims) mineral claims into two claim groups, i.e. No. 1 Claim Group will include "KL" 2, 3, 4, 6, "MAK" 19-28 inclusive, 37 and No. 2 Claim Group will include "KL" 1, 2, 3, 5, 7, 8, 9, "MAK" 4, 6, 8, 15, 16, 17, 18, 38 and 40.

The location and status of the claims are shown in Fig. 3 and Table 1.

### 3) Work Done

The representation work covered by this report was completed during the period June 6 to July 20, 1971 by Mitsubishi Metal Mining Co., Ltd. with the field crew as follows:

Hiroshi Mori	Geologist, Mitsubishi Metal Mining Co., Ltd. 260-6080 Willow Street, Vancouver 13, B. C.
Kuang Ine Lu	Geologist, Mitsubishi Metal Mining Co., Ltd. 55-616 Lonsdale Avenue, North Vancouver, B. C.

The crew for the diamond drilling work which was contracted out to Arctic Diamond Drilling Ltd., was as follows:

L. Podlecki	Foreman, operator	)	Staff of Arctic Diamond
H. Calmegene	operator	)	Drilling Ltd., P.O. Box
J. Bajema	helper	)	3204, Harwell Area,
P. Aurala	helper	)	Whitehorse, Y. T.

A machine of BOYLESS BBS 1 type was used for the drilling.

Mitsubishi Metal Mining Company supplied room and board and all transportation from Aishihik Road to job site including helicopter transportation for the crew.

Table 1

## STAKING AND RECORDING SITUATION OF MAK &amp; KL CLAIM GROUPS

(See Fig. 2 for location)

Name of Claim	Date Located	Name of Locator	Date Recorded	Grant Number	Date Transf. to MMM	Expiry Date	Prepared to Extend Exp. Date by Assess. Work 1971
MAK - 1	10 Aug. '70	N. Sato	17 Aug. '70	Y54405	28 Sept. '70	17 Aug. '71	
" - 2	"	"	"	Y54406	"	"	
" - 3	"	"	"	Y54407	"	"	
" - 4	"	"	"	Y54408	"	"	*
" - 5	"	"	"	Y54409	"	"	
" - 6	"	"	"	Y54410	"	"	*
" - 7	"	"	"	Y54411	"	"	
" - 8	"	"	"	Y54412	"	"	*
MAK - 9	10 Aug. '70	W. Lewis	17 Aug. '70	Y54413	28 Sept. '70	17 Aug. '71	
" - 10	"	"	"	Y54414	"	"	
" - 11	"	"	"	Y54415	"	"	
" - 12	"	"	"	Y54416	"	"	
" - 13	"	"	"	Y54417	"	"	
" - 14	"	"	"	Y54418	"	"	
" - 15	"	"	"	Y54419	"	"	*
" - 16	"	"	"	Y54420	"	"	*
MAK - 17	10 Aug. '70	E. Teranishi	17 Aug. '70	Y54421	28 Sept. '70	17 Aug. '71	*
" - 18	"	"	"	Y54422	"	"	*
" - 19	"	"	"	Y54423	"	"	*
" - 20	"	"	"	Y54424	"	"	*
" - 21	"	"	"	Y54425	"	"	*
" - 22	"	"	"	Y54426	"	"	*
" - 23	"	"	"	Y54427	"	"	*
" - 24	"	"	"	Y54428	"	"	*
MAK - 25	10 Aug. '70	A. Murao	17 Aug. '70	Y54429	28 Sept. '70	17 Aug. '71	*
" - 26	"	"	"	Y54430	"	"	*
" - 27	"	"	"	Y54431	"	"	*
" - 28	"	"	"	Y54432	"	"	*
" - 29	"	"	"	Y54433	"	"	
" - 30	"	"	"	Y54434	"	"	
" - 31	"	"	"	Y54435	"	"	
" - 32	"	"	"	Y54436	"	"	
MAK - 33	10 Aug. '70	N. Grundy	17 Aug. '70	Y54437	28 Sept. '70	17 Aug. '71	
" - 34	"	"	"	Y54438	"	"	
" - 35	"	"	"	Y54439	"	"	
" - 36	"	"	"	Y54440	"	"	
" - 37	"	"	"	Y54441	"	"	*
" - 38	"	"	"	Y54442	"	"	*
" - 39	"	"	"	Y54443	"	"	
" - 40	"	"	"	Y54444	"	"	*
MAK - 41	10 Aug. '70	B. Mansinghka	17 Aug. '70	Y54445	28 Sept. '70	17 Aug. '71	
" - 42	"	"	"	Y54446	"	"	
" - 43	"	"	"	Y54447	"	"	
" - 44	"	"	"	Y54448	"	"	
" - 45	"	"	"	Y54449	"	"	
" - 46	"	"	"	Y54450	"	"	
" - 47	"	"	"	Y54451	"	"	
" - 48	"	"	"	Y54452	"	"	
MAK - 49	10 Aug. '70	B. Rouleau	17 Aug. '70	Y54453	28 Sept. '70	17 Aug. '71	
" - 50	"	"	"	Y54454	"	"	
KL - 1	31 May '69	T. Kashiwagi	11 June '69	Y35167	9 July '69	11 June '77	*
" - 2	"	"	"	Y35168	"	"	*
" - 3	"	"	"	Y35169	"	"	*
" - 4	"	"	"	Y35170	"	"	*
" - 5	"	"	"	Y35171	"	"	*
" - 6	"	"	"	Y35172	"	"	*
" - 7	"	"	"	Y35173	"	"	*
" - 8	"	"	"	Y35174	"	"	*
KL - 9	31 May '69	W.E. Fraser	11 June '69	Y35175	9 July '69	11 June '77	*

### III. DIAMOND DRILLING

#### 1) Previous Work

Previously, in 1970, the company staff carried out the geological and geochemical surveys and found a good copper showing about 800 feet long and 350 feet wide in an elongated NE-SW direction (Cu 1000 ppm, max 7050 ppm) around the base point. (Refer to Ref. 1) I. P. survey was also carried out in the same year and the anomaly of chargeability (5200 mm sec.) rather coincided with that of the geochemical survey. (Refer to Ref. 2)

In June, 1971, the company staff carried out the detailed geochemical survey once more and trench work also was carried out on the copper showing area. This year's survey results show a geochemical anomaly coinciding with that of 1970's survey and much green copper (malachite?) stained in the brecciated dioritic rock was found along the trench lines, 0.3 % Cu in some places. (See Fig. 4)

These surveys proved that this copper showing was a porphyry type ore deposit, probably a minable orebody, so that the diamond drilling had been recommended.

#### 2) Present Work

Seven holes of diamond drilling (total 2,590 feet) were completed during the period from June 14 to July 20, 1971. The details are summarized as follows and the locations are shown in Fig. 4.

<u>Hole No.</u>	<u>Period</u>	<u>Depth - ft.</u>	<u>Location (Claim)</u>	<u>Direction</u>	<u>Dip</u>	<u>Core Recovery %</u>
DDH - 1	June 19 - June 24	500 ft.	Base Point (KL-3)	N45°W	-45°	94.6%
DDH - 2	June 24 - June 28	500 ft.	Base Point (KL-3)	S45°E	-45°	90.8%
DDH - 3	June 28 - June 30	99 ft.	Base Point (KL-3)	-	-90°	47.0%
DDH - 4	June 30 - July 3	500 ft.	155'W00'N from BP (KL-3)	-	-90°	92.2%
DDH - 5	July 4 - July 10	500 ft.	400'E 300'N from BP (KL-3)	N45°W	-45°	91.4%
DDH - 6	July 11 - July 13	191 ft.	800'E 600'N from BP (KL-2)	N45°W	-45°	66.0%
DDH - 7	July 14 - July 16	300 ft.	800'E 600'N from BP (KL-2)	-	-90°	87.3%

A machine of the BOYLESS BBS 1 type was used for the drilling. The ore mineralized cores were split in half using the core splitter and sent to the Whitehorse Assay Office to be analyzed for copper and molybdenum, some also being analyzed for nickel. About 50% of the cores were not analyzed due to low grade or no recognized ore mineralization.

The core logs and the results of assay are shown in the Diamond Drilling Records. Figure 5 shows the cross section of DDH 1, 2, 3 and 4.

The remaining cores are kept in the core storage, a small wooden house. The core storage was built at the camp site as shown in Fig. 3.

#### IV. SUMMARY AND RECOMMENDATION

This representation work, the diamond drilling, indicates a mineralization zone, elongating in a NE - SW direction, in which chalcocopyrite, molybdenite and pyrite accompanied by alteration products (such as carbonates, biotite, chlorite etc.) occur in brecciated dioritic rock. The results of the assay show that the copper content is around 0.1 - 0.2% in general.

A substantial copper showing has been outlined by the geochemical surveys and trenching in 1970 and 1971, and encouraging hopes for future exploration is indicated by the results of this year's diamond drilling. Therefore, further diamond drilling is recommended in the southwestern area of the geochemical anomaly where good ore mineral potential still remains.

V. STATEMENT OF EXPENDITURE

Diamond Drilling

Moving in, setting up	\$ 1,309.75
Moving out	1,001.00
Hole 1	6,115.76
Hole 2	5,763.00
Hole 3	1,595.40
Hole 4	5,632.50
Hole 5	6,093.50
Hole 6	3,162.35
Hole 7	3,569.75
Bombardier Rental - June	169.98
- July	566.60
	113.42

Room and Board

Camp Equipment - June	116.62
- July	149.94
Camp Charges - June	1,190.00
- July	1,530.00

Miscellaneous

Tent c/w Fly	154.80
bags of Polygel Mud (21)	152.25
Timber etc.	49.56
Tent Frames	<u>400.00</u>

TOTAL \$ 38,836.18

The invoices for these expenses are attached to this report.

The total expenditure (\$38,836.18) was used for both No. 1 and No. 2 Claim Groups. Therefore, half of the amount, \$19,000.00 shall be considered the expenditure made for each group. These amount, if accepted, is good for Four years for each Calim Group.

# ARCTIC DIAMOND DRILLING LTD.

P.O. Box 3204,  
Whitehorse, Yukon Territory

Marwell Area - Phone 668-2440

730 - 510 W. Hastings Street,  
Vancouver, B.C.

Phone 688-3328

Invoice # 827

July 5, 1971

IN ACCOUNT WITH:

Mitsubishi Metal Mining Co. Ltd.,  
404 - 900 West Hastings Street,  
Vancouver 2, B. C.

---

## Moving In & Setting Up

201.5 Man hours @ \$ 6.50 per man hour

\$ 1309.75

## Hole # 1 - 45° x BQ

### Cementing

20 man hours @ \$ 6.50           \$ 130.00

10 machine hours @ \$ 6.00       \$ 60.00           \$ 190.00

One bag of cement               \$ 9.10

Plus 10 %                         \$ 91               \$ 10.01

### Travelling Time

20 man hours @ \$ 6.50           \$ 130.00

### Penetrating Overburden

0 - 9 = 9 feet @ \$ 10.85       \$ 97.65

### Coring

9 - 500 = 491 feet @ \$ 10.85   \$ 5327.35

### Reaming Casing

9 - 48 = 39 feet @ \$ 9.25       \$ 360.75

\$ 6115.76

## Hole # 2 - 45° x BQ

### Moving

2 man hours @ \$ 6.50           \$ 13.00

1 machine hour @ \$ 6.00       \$ 6.00           \$ 19.00

JUL 28 1971

Mitsubishi Metal Mining Co. Ltd.....  

---

Travelling Time

12 man hours @ \$ 6.50 \$ 78.00

Transportation

26 man hours @ \$ 6.50 \$ 169.00

12 machine hours @ \$ 6.00 \$ 72.00 \$ 241.00Penetrating Overburden

0 - 44 = 44 feet @ \$ 10.85 \$ 477.40

Coring44 - 500 = 456 feet @ \$ 10.85 \$ 4947.60\$ 5763.00\$ 13188.51

# ARCTIC DIAMOND DRILLING LTD.

P.O. Box 3204,  
Whitehorse, Yukon Territory

Marwell Area - Phone 668-2440

730 - 510 W. Hastings Street,  
Vancouver, B.C.

Phone 688-3328

Invoice # 828

July 5, 1971

IN ACCOUNT WITH:

Mitsubishi Metal Mining Co. Ltd.,  
404 - 900 West Hastings Street,  
Vancouver 2, B. C.

---

## Camp Equipment

Rental of camp equipment from June 17<sup>th</sup> to 30<sup>th</sup>, 1971  
@ \$ 250.00 per month = 14 days @ \$ 8.33 per day \$ 116.62

## Camp Charges

Camp charges from June 17<sup>th</sup> to 30<sup>th</sup> = 14 days @ \$ 85.00 per day \$ 1190.00

## Bombardier Rental

Rental one only Bombardier S/N MM7-3641B - Eng # 120624-C at \$ 850.00  
per month - J<sup>u</sup>ne 25<sup>th</sup> to 30<sup>th</sup> = 6 days @ \$ 28.33 per day \$ 169.98  
\$ 1476.60

# ARCTIC DIAMOND DRILLING LTD.

P.O. Box 3204,  
Whitehorse, Yukon Territory

Marwell Area - Phone 668-2440

730 - 510 W. Hastings Street,  
Vancouver, B.C.

Phone 688-3328

Invoice # 843

July 20, 1971

IN ACCOUNT WITH:

Mitsubishi Metal Mining Co, Ltd.,  
404 - 900 West Hastings Street,  
Vancouver 2, B. C.

Hole # 3-90° x BQ

Moving

12 man hours @ \$ 6.50                      \$ 78.00

6 machine hours @ \$ 6.00                      \$ 36.00                      \$ 114.00

Travelling Time

10 man hours @ \$ 6.50                      \$ 65.00

Penetrating Overburden

0 - 44 = 44 feet @ \$ 10.85                      \$ 477.40

Coring

44-99 = 55 feet @ \$ 10.85                      \$ 596.75

Reaming Casing

44 - 81 = 37 feet @ \$ 9.25                      \$ 342.25                      \$ 1,595.40

Hole # 4 - 90° x BQ

Travelling Time

12 man hours @ \$ 6.50                      \$ 78.00

Penetrating Overburden

0 - 27 = 27 feet @ \$ 10.85                      \$ 292.95

Coring

27 - 500 = 473 feet @ \$ 10.85                      \$ 5132.05

Reaming Casing

27 - 41 = 14 feet @ \$ 9.25                      \$ 129.50                      \$ 5,632.50

Invoice # 843

Page 2

Mitsubishi Metal Mining Co. Ltd.....

Hole # 5 - 45° x BQ

Moving

2 man hours @ \$ 6.50	\$ 13.00	
1 machine hour @ \$ 6.00	<u>\$ 6.00</u>	\$ 19.00

Using Mud

42 man hours @ \$ 6.50	\$ 273.00	
21 machine hours @ \$ 6.00	<u>\$ 126.00</u>	\$ 399.00

Travelling Time

30 man hours @ \$ 6.50		\$ 195.00
------------------------	--	-----------

Penetrating Overburden

0 - 17 = 17 feet @ \$ 10.85		\$ 184.45
-----------------------------	--	-----------

Coring

17 - 500 = 483 feet @ \$ 10.85		\$ 5240.55
--------------------------------	--	------------

Reaming Casing

17 - 23 = 6 feet @ \$ 9.25	<u>\$ 55.50</u>	\$ 6,093.50
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Hole # 6 - 45° x BQ

Moving

38 man hours @ \$ 6.50	\$ 247.00	
19 machine hours @ \$ 6.00	<u>\$ 114.00</u>	\$ 361.00

Using Mud

14 man hours @ \$ 6.50	\$ 91.00	
7 machine hours @ \$ 6.00	<u>\$ 42.00</u>	\$ 133.00

Travelling Time

12 man hours @ \$ 6.50		\$ 78.00
------------------------	--	----------

Penetrating Overburden

0 - 20 = 20 feet @ \$ 10.85		\$ 217.00
-----------------------------	--	-----------

Coring

20 - 191 = 171 feet @ \$ 10.85		\$ 1855.35
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Reaming Casing

20 - 76 = 56 feet @ \$ 9.25	<u>\$ 518.00</u>	\$ 3,162.35
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Invoice # 843

Page 3

Mitsubishi Metal Mining Co. Ltd.....

Hole # 7

Travelling Time

10 man hours @ \$ 6.50 \$ 65.00

Penetrating Overburden

0 - 24 = 24 feet @ \$ 10.85 \$ 260.40

Coring

24 - 300 = 276 feet @ \$ 10.85 \$ 2994.60

Reaming Casing

24 - 51 = 27 feet @ \$ 9.25 \$ 249.75 \$ 3,569.75

\$ 20,053.50

# ARCTIC DIAMOND DRILLING LTD.

P.O. Box 3204,  
Whitehorse, Yukon Territory

Marwell Area - Phone 668-2440

730 - 510 W. Hastings Street,  
Vancouver, B.C.

Phone 688-3328

INVOICE # 845

July 21, 1971

IN ACCOUNT WITH:

Mitsubishi Metal Mining Co. Ltd.,  
404 - 900 West Hastings Street,  
Vancouver 2, B. C.

## Supplies

21 bags Polygel Mud @ \$ 7.25 *per drilling report 3 bags for* \$ 152.25  
Timber and hardboard per General Enterprises  
Invoice # 1-08076 (attached) \$ 49.56

## Camp Equipment

Rental of camp equipment @ \$ 250.00 per month for  
period July 1 to 18 = 18 days @ \$ 8.33 \$ 149.94

## Camp Charges

Camp charges July 1 - 18 = 18 days @ \$ 85.00 per day \$ 1530.00

## Bombardier Rental

Rental of Bombardier at \$ 850.00 per month for period  
July 1 - 20 = 20 days @ \$ 28.33 \$ 566.60

Plus Balance to make up minimum of one months rental per contract \$ 113.42  
( \$ 169.98 charged on Inv. # 828 )

## Equipment left On Property

1 only 16' x 14' tent c/w Fly \$ 154.80

4 only pre-made tent frames @ \$ 200.00 \$ 800.00

Less 50 % \$ 400.00 \$ 400.00

\$ 3116.57

# ARCTIC DIAMOND DRILLING LTD.

P.O. Box 3204,  
Whitehorse, Yukon Territory

Marwell Area - Phone 668-2440

730 - 510 W. Hastings Street,  
Vancouver, B.C.

Phone 688-3328



INVOICE # 846

July 21, 1971

IN ACCOUNT WITH:

Mitsubishi Metal Mining Co. Ltd.,  
404 - 900 West Hastings Street,  
Vancouver, B. C.

---

Moving Out

Tearing down and moving out from property to highway

154 man hours @ \$ 6.50

\$ 1001.00

---

\$ 1001.00

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July 18 19 71

No.

Received of S. YABUTA, MITSUBISHI METAL MINING CO., LTD.

Thirty eight thousand, eight hundred & thirty six  $\frac{18}{100}$  Dollars

for your invoice # 827, 828, 843, 845, 846

ARCTIC DIAMOND DRILLING LTD.

\$ 38,836.18

X

*[Handwritten Signature]*

Invoice No.	Amount
827	\$13,188.51
828	1,476.60
843	20,053.50
845	3,116.57
846	1,001.00
Total	\$38,836.18

DATE July 9, 1971.  
 FILE NO. 0768-124

# ASSAY CERTIFICATE

Table 2

WHITEHORSE ASSAY OFFICE

P.O. BOX 346. WHITEHORSE. YUKON

Mitsubishi Metal Mining

RECEIVED FROM

SAMPLE NO.	<del>COBALT</del>	<del>SILVER</del>	Copper	Molybdenum	Nickel			
	OZ. PER TON	OZ. PER TON		MoS <sub>2</sub>				
D-1- 1			.07	TR	-			
2			.17	.002	-			
3			.10	.002	-			
4			.06	TR	-			
5			.13	TR	-			
6			.12	.003	-			
7			.15	.003	-			
8			.18	.002	-			
9			.14	.002	-			
10			.09	.002	-			
11			.12	.003	-			
12			.15	.002	-			
13			.20	.002	-			
14			.11	.002	-			
15			.07	.002	-			
16			.21	.007	-			
17			.16	.002	-			
18			.18	TR	-			
19			.11	TR	-			
20			.03	.022	-			
21			.15	.002	-			
22			.19	.003	-			
23			.12	.020	-			
24			.13	.002	-			
25			.16	TR	-			
26			.14	.007	-			
27			.14	.002	-			
28			.15	.002	-			
29			.12	.012	-			
30			.10	.002	-			
31			.15	TR	-			
32			.16	.002	-			
33			.03	TR	-			
D-2- 1			.14	.002	-			
2			.10	.002	-			
3			.10	TR	-			
4			.07	TR	-			
5			.03	.003	-			
6			.17	.002	-			
7			.17	.005	-			
8			.19	.015	-			
9			.18	.023	-			
10			.20	.003	-			
11			.16	.012	-			
12			.10	TR	-			
13			.11	TR	-			
14			.03	TR	-			
15			.05	TR	-			
16			.03	.002	-			
17			.07	TR	-			

ASSAYER

*Geo. Spaiden*

DATE July 9, 1971.  
 FILE NO. 6769-124 (cont'd)

# ASSAY CERTIFICATE

WHITEHORSE ASSAY OFFICE

P.O. BOX 346, WHITEHORSE, YUKON

RECEIVED FROM Mitsubishi Metal Mining

SAMPLE NO.	<del>XXXGOLD/XXXSILVER</del>		Copper	Molybdenum	Nickel			
	OZ. PER TON	OZ. PER TON		MoS <sub>2</sub>				
D-2- 18			.05	TR	-			
19			.04	TR	-			
20			.04	TR	-			
21			.05	TR	-			
22			.04	TR	-			
23			.03	TR	-			
24			.03	TR	.01			
25			.03	TR	TR			
26			.04	TR	.01			
27			.04	TR	TR			
D-3- 1			.11	TR	-			
2			.20	.003	-			
3			.14	TR	-			
4			.11	.002	-			
5			.11	.003	-			
D-3- 6			.16	.002	-			
D-4- 1			.16	.005	-			
2			.11	.017	-			
3			.11	.005	-			
4			.15	.017	-			
5			.13	.008	-			
6			.16	.003	-			
7			.21	.003	-			
8			.20	.005	-			
9			.17	.003	-			
10			.16	.003	-			
11			.20	.013	-			
12			.20	.003	-			
13			.03	.003	-			
14			.07	.005	-			
15			.14	.005	-			
16			.18	.005	-			
17			.17	.005	-			
18			.12	TR	-			
19			.31	.002	-			
20			.03	.002	-			
21			.03	.002	-			
22			.09	TR	-			
23			.13	.003	-			
24			.11	.002	-			
25			.29	.005	-			
D-2- 1			.17	.002	-			
2			.09	TR	-			
3			.13	.003	-			
4			.03	.003	-			
5			.11	.002	-			
6			.15	.003	-			
7			.10	TR	-			
8			.13	.003	-			
9			.18	TR	-			

*Geo. D. ...*

DATE July 20, 1971.  
FILE NO. 6798-30

# ASSAY CERTIFICATE

WHITEHORSE ASSAY OFFICE

P.O. BOX 346. WHITEHORSE. YUKON

RECEIVED FROM

Mitsubishi Metal Mining

SAMPLE NO.	<del>GOLD</del>	<del>SILVER</del>	Copper					
	OX. PER TON	OX. PER TON						
D-5-								
2			.06					
3			.07					
4			.10					
5			.11					
6			.10					
7			.25					
8			.17					
9			.15					
10			.17					
11			.22					
12			.34					
13			.18					
14			.12					
15			.16					
16			.16					
17			.15					
18			.15					
19			.16					
20			.10					
21			.26					
D-7-								
1			.09					
2			.08					
3			.07					
4			.07					
5			.08					
6			.08					
7			.08					
8			.05					
9			.04					
10			.04					

ASSAYER

*Geo. Spalding*

ARCHER, CATHRO  
AND ASSOCIATES LTD.  
CONSULTING GEOLOGICAL ENGINEERS

WHITEHORSE, Y.T. 867-0413

1475 TWO BENTALL CENTRE, VANCOUVER, B.C. 688-2800

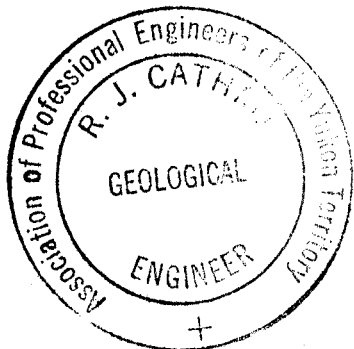
POST OFFICE BOX 1700  
WHITEHORSE, Y.T.

13th August 1971

CERTIFICATE

I, Robert J. Cathro, with business residence in Whitehorse,  
do hereby certify that:

- (1) I am a 1959 graduate in Geological Engineering  
from U.B.C., Vancouver.
- (2) I am a registered Professional Engineer in Yukon  
and B.C.
- (3) Following graduation, I worked for various mining  
companies in Yukon and N.W.T. until the end of  
1965, when I entered private practice as a consultant.  
I have devoted my entire professional career to the  
Yukon mineral industry since 1963.
- (4) I visited the KL-MAK property at the completion of  
the drilling program and have had complete access to  
the field data. The calibre of the work has been high  
and I concur fully with the statement presented in the  
report dated August 6, 1971.



Respectfully,

ARCHER, CATHRO & ASSOCIATES LTD.

R. J. Cathro, B.A.Sc. P. Eng.

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4520 FT. Started: June 19, 1971  
 Hole Number: 1 Length: 501 FT. Completed: June 24, 1971  
 Location: Base Point Dip: - 45° NW Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M Ft. Sec.	Col.	Description	Assay %			Remarks
			Sample No.	Cu	MoS <sub>2</sub>	
0		Dioritic rock. grey~dark grey; medium grained; strongly silicified & brecciated; mafic min. wholly alter. → biot. Pg. chl. Mt. calcite veinlets found elsewhere. (1mm±)	DI-1	0.07	Tr.	
10		Py 2~3% or less Green Cu in interstices poorly	"-2	0.17	0.002	
20			"-3	0.10	0.002	
30			"-4	0.06	Tr.	
40			"-5	0.13	Tr.	
50		Py 1%± Whiten~light grey; strongly silicified; sericitized; brecciated; Fe-hydroxide stained in interstices.	"-6	0.12	0.003	
60			"-7	0.15	0.003	
70		68.5 Green Cu rather rich light grey~dark grey; medium grained slightly brecciated, but shear zones found in some parts. mafic min. wholly alt → biot. chl. Mt. Py. (epi.) Calcite+chlorite-veinlets (1mm±) remarkably found elsewhere, and sometimes accom- panied with few points of Cp and/or Mo. Biotite remarkable but decreases <sup>in</sup> quantity downward.	"-8	0.18	0.002	
80			"-9	0.14	0.002	
90			"-10	0.09	0.002	
100			"-11	0.12	0.003	
110			"-12	0.15	0.002	
120			"-13	0.20	0.002	
130			"-14	0.11	0.002	
140			"-15	0.07	0.002	
150			"-16	0.21	0.007	
160			"-17	0.16	0.002	
170		ditto	"-18	0.18	Tr.	
180			"-19	0.11	Tr.	
190			"-20	0.08	0.022	
200		Mo Py 1~2% or less	"-21	0.15	0.002	
210			"-22	0.19	0.003	
220			"-23	0.12	0.020	
230			"-24	0.13	0.002	
240		ditto	"-25	0.16	Tr.	
250			"-26	0.14	0.007	
			"-27	0.14	0.002	
			"-28	0.15	0.002	

△△ brecciated  
 ore mineralization  
 Calcite veinlets  
 Fe veinlets

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4520 FT. Started: June 19, 1971  
 Hole Number: 1 Length: 501 FT. Completed: June 24, 1971  
 Location: Base Point Dip: 45° NW Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M. Ft. Sec.	Col.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
250	Mo 13	Dioritic rock Grey-greenish grey; <sup>fine</sup> medium grained; rather massive and compact.  Calcite + chlorite veinlets recognized elsewhere but decrease in quantity downward.  Chloritization rather strong at upper part and weak at <sup>lower</sup> bottom part.	DI-29	0.12	0.012	
260			DI-30	0.10	0.002	
270			" -31	0.15	Tr.	
280			" -32	0.16	0.002	
			Ave. 0.1286 0.135			
350		Py poor				
		ditto.				
		"				
388.5		Strongly silic. Several g. veinlets found	DI-33	0.06	Tr.	
395						
400		" medium grained. rather fresh; unaltered hornblende found (hb > chl. > biot)				
		Py very poor				
450						
500						

502 FT

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4520 FT. Started: Jun. 24, 1971  
 Hole Number: 2 Length: 500 FT Completed: Jun. 28, 1971  
 Location: Base Point Dip: -45° SE Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M Ft.	Col. Sec.	Description	Assay %				Remarks
			Sample No.	Cu	Moss Mo	Ni	
		Dioritic rock whitish grey; medium grained strongly silicified and brecciated; partly strongly bleached mafic min. wholly altered → biot., chl., Py., Mt., a few point of Cp found by Rupe.	DII-1	0.14	0.002		
			" -2	0.10	0.002		
			" -3	0.10	Tr.		
28		Bad core Recovery (≅ 3%) dark grey; fine grained dioritic rock. strongly brecciated and silicified; no ore minerals recognized	" -4	0.07	Tr.		
44		Dioritic rock grey ~ dark grey; medium grained; strongly brecc. in some parts; silicified; slightly sericitized; mafic min. wholly altered → biot., chl., Py., Mt., (biot > chl.)	" -5	0.08	0.003		
50			" -6	0.17	0.002		
		Py 3%± Fe-hydroxides stained at joint plane remarkably	" -7	0.17	0.005		
		Calcite + chlorite veinlets (1mm±) remarkable and accompanied with several points of Cp, Mo in some places. Green Cu poorly.	" -8	0.19	0.015		
		Py 1%±	" -9	0.18	0.023		
		Py 1~2% no Cp, Mo found by Rupe. from here	" -10	0.20	0.003		
		Py 3% grey ~ greenish grey; coarse grained rather massive Strongly chloritized; epidote found in some parts; Biotitization recognized decreasing tendency downward.	" -11	0.16	0.012		
		Py 1%± or less	" -12	0.10	Tr.		
		Py 3~5%	" -13	0.11	Tr.		
		Py 1%± Calcite + chlorite stringers found elsewhere and accompanied with Py in some parts	" -14	0.06	Tr.		
		Py: rather good in some parts, py veinlets also found.	" -15	0.05	Tr.		
			" -16	0.06	0.002		
			" -17	0.07	Tr.		
			" -18	0.05	Tr.		
			" -19	0.04	Tr.		
			" -20	0.04	Tr.		
		Py veinlets (2~5mm) alteration decreasing tendency downward.	" -21	0.05	Tr.		
			" -22	0.04	Tr.		
		Py 1~3% [Hornblende accumulated (6 or 8 vol.%) in some parts. (slightly chloritized)]	" -23	0.03	Tr.		
		Py veinlets (2~4mm)	" -24	0.03	Tr.	0.01	
		Py 1~3%	" -25	0.03	Tr.	Tr.	
			" -26	0.04	Tr.	0.01	
			" -27	0.04	Tr.	Tr.	
243		Felsite "dyke"					

Ave. 0.~250' 0.08%

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4520 Started: Jun. 24, 1971  
 Hole Number: 2 Length: 500 FT. Completed: Jun. 28, 1971  
 Location: Base Point Dip: -45° SE Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M. Ft. Sec.	Col. Sec.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
250						
80		Py 1% ± Dioritic rocks greenish grey ~ dark greenish grey; coarse grained; chloritized; calcite + chlorite veinlets (1mm ±) found elsewhere Hornblende accumulated (60-80 vol.%) in some parts (slightly chloritized)				
90						
300						
100						
350		Py 1% ± rather fresh dioritic rock. mafic min. 1/2 ~ 3/4 altered. (chl → epidote)				
110						
120						
400		Magnetite accumulated				
130						
450		Py poorly more fresh mafic min 1/4 ~ 1/2 altered fresh hornblend found in general.				
140		Py veinlets (3mm; 1cm)				
150						
500						

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4520 FT. Started: Jun. 28, 1971  
 Hole Number: 3 Length: 99 FT. Completed: Jun. 30, 1971  
 Location: Base Point Dip: -99° Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M Ft. Sec.	Col. Sec.	Description	Assay %			Remarks
			Sample No.	Cu	MoS <sub>3</sub>	
		None core				
		Bad core recovery (≈25%) Grey, fine grained dioritic rock, strongly brecciated and silicified, mafic min. wholly altered → biot., chl., Py. Py 2~3%	D-1	0.11	Tr.	
		strongly sheared; clayey; calcite veinlets remarkable Fe-hydroxides stained to brown in color. Green Cu a little	"-2	0.20	0.003	
		Dioritic rock. light grey ~ greenish white; brecciated; sericitized; mafic min. wholly altered → chl., biot., Py, Mt., Py 1%±	-3	0.14	Tr.	
		Fe-hydroxide stained in interstices several calcite + chlorite veinlets (2" ~ 4" -)	-4	0.11	0.002	
		Py peaty	-5	0.11	0.003	
		" Bad core recovery (± 10%) — shear zone Green Cu a little	-6	0.16	0.002	
			Ave. 14~99 0.126			

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4520 FT. Started: Jun. 30, 1971  
 Hole Number: 4 Length: 500 FT. Completed: July 3, 1971  
 Location: 155' W, 00' N from B.P. Dip: -90° Date Logged: \_\_\_\_\_  
 Purpose: Center of Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M Ft. Sec.	Col.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
		Bad core recovery (≈5%) Strongly brecciated & silicified; light grey; fine grained dioritic rock. mafic min. wholly altered → Biot, chl., Py rare (mainly → Fe-hydroxides)	DIV-1	0.16	0.005	
		Dioritic rock light grey ~ creamy white; fine ~ medium grain. brecciated and strongly sheared in some parts. mafic min. wholly altered → chl., Biot.	"-2	0.11	0.017	
		Py 1% or less	"-3	0.11	0.005	
		Fe-hydroxides stained in interstices of joint remarkably	"-4	0.15	0.017	
		Calcite + chlorite veinlets in some places.	"-5	0.13	0.008	
		" (chl. > Biot) Py 3-5%	"-6	0.16	0.003	
		mafic min. wholly alt. → Biot., chl., Py, Mt.	"-7	0.21	0.003	
		Calcite + chlorite veinlets (1mm±) remarkable	"-8	0.20	0.005	
		Py: ~2% in general but 3-5% in some parts. Mt: remarkable	"-9	0.17	0.003	
		Green Cu rich in some places Several points of Cp sometimes found.	"-10	0.16	0.003	
		" (Biot > chl.) Green Cu rather good Py 1%	"-11	0.20	0.013	
		" "Felsite" dyke whiter creamy white strongly silicified.	"-12	0.20	0.003	
		"-13	0.08	0.003		
		"-14	0.07	0.003		
		Dioritic rock. grey ~ greenish grey; medium grained slightly brecciated; mafic → biot, chl., Calcite + chlorite veinlets remarkable	"-15	0.14	0.005	
		Py 1-2%	"-16	0.18	0.005	
		(Biot > chl.) Py 3-5%	"-17	0.17	0.005	
		Green Cu stained in some places.	"-18	0.12	Tr.	
		Unaltered mafic min. (Hornblende) found a little	"-19	0.31	0.002	
		Green Cu rich. No Cp recognized				
		Py 2%	Ave.	0.200	0.158	
		"				
		Py 1%± (chl. > Biot)				

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4520 FT. Started: Jun. 30, 1971

Hole Number: 4 Length: 500 FT. Completed: July 3, 1971

Location: 155' W, 00' N from B.P. Dip: -90° Date Logged: \_\_\_\_\_

Purpose: Center of Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M Ft. Sec.	Col.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
230		"				
80		"				
		Py rare (chl. > Biot.)				
290		"				
298		"	298			
300		(Biot. >> chl.) Cp Mo	298	0.08	0.002	
		Py 3%± light grey; medium grained mafic min. wholly altered again Biotite remarkable Several points of Cp, Mo recognized by Rupe	300	0.08	0.002	
		(Biot. >> chl.)	310	0.09	Tr.	
		Green Cu good	320	0.13	0.008	
350		"	330	0.11	0.002	
		Though few points of Cp or Mo recognized, the quantity decrease downward.	340	0.29	0.005	
		(Chl. > biot.)	350			
		Py 1~3%	Ave. 290~350' 0.13%			
400		(Biot. > chl.)				
		Py 1~3% Magnetite				
450		(Biot. >> chl.)				
400		"	Ave. 0~200' +290~350' 0.15%			
		Py 1%				
		"				
		(Biot. > chl.)				

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4675 FT. Started: July 4, 1971  
 Hole Number: 5 Length: 500 FT. Completed: July 10, 1971  
 Location: 400'E, 300'N, from B.P. Dip: -45° NW Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M Ft. Sec.	Col. Sec.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
		None core				
		Dioritic rock	11			
		(Chl. > Biot)	D-2	0.06		
		light grey; in some parts strongly bleached to creamy white.	20			
		brecciated; silicified and sericitized.	" -3	0.07		
		(Biot. >> chl.) mafic min wholly altered to Biot. chl, Py., Mt.,	30			
		Py 3% ±	" -4	0.10		
		(partly 5%) calcite + chlorite veinlets remarkable	40			
		(Chl. > Biot.)	" -5	0.11		
50		Green Cu rich	50			
		"	" -6	0.10		
		Py 1~3%	60			
		"	" -7	0.25		
		Py 3%	70			
		"	" -8	0.17		
		Green Cu good	80			
		Py 3%	" -9	0.15		
		Py veinlets (1mm ±)	90			
		"	" -10	0.17		
100		Py 3%	100			
		"	" -11	0.22		
		Green Cu	110			
		Py 3%	" -12	0.34		
		"	120			
		Py 1 1/2 ±	" -13	0.18		
		"	130			
		Py veinlets (1mm ±)	" -14	0.12		
		"	140			
150		Py 1 1/2 ±	" -15	0.16		
		"	150			
		(Biot. > chl.)	" -16	0.16		
		"	160			
		Py 1~3 1/2	" -17	0.15		
		"	170			
		Py 3% ±	" -18	0.15		
		Py veinlets (1mm ±)	180			
		"	" -19	0.16		
		Green Cu rather good	190			
		Py 3% ±	200			
		Py veinlets (1mm ±)	" -20	0.10		
		"	200			
		Green Cu poorly				
		grey ~ greenish grey	Ave. 11~200	0.154		
		(Chl. ± Biot.)				

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4675 FT. Started: July 4, 1971  
 Hole Number: 5 Length: 500 FT. Completed: July 10, 1971  
 Location: 400'E, 300'N. from B.P. Dip: -45° NW Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: B a Logged By: \_\_\_\_\_

Depth M. Ft. Sec.	Col. Sec.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
250		Green Cu little (chl. > Biot.)				
280						
300		(chl. > Biot.)				
320		Py poor				
350		(chl.)				
380		Py poor				
400		Green Cu Poorly				
420		Py 1%±				
435		Green Cu rich	DT-21	0.26		
450		Several points of Cp.				
480		(chl.)				
500						

Diamond Drilling Record

Property Name: KL claim, Yukon Elevation: 4665 FT. Started: July 11, 1971  
 Hole Number: 6 Length: 191 FT. Completed: July 13, 1971  
 Location: 800'E, 600'N from B.P. Dip: -45° NW Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

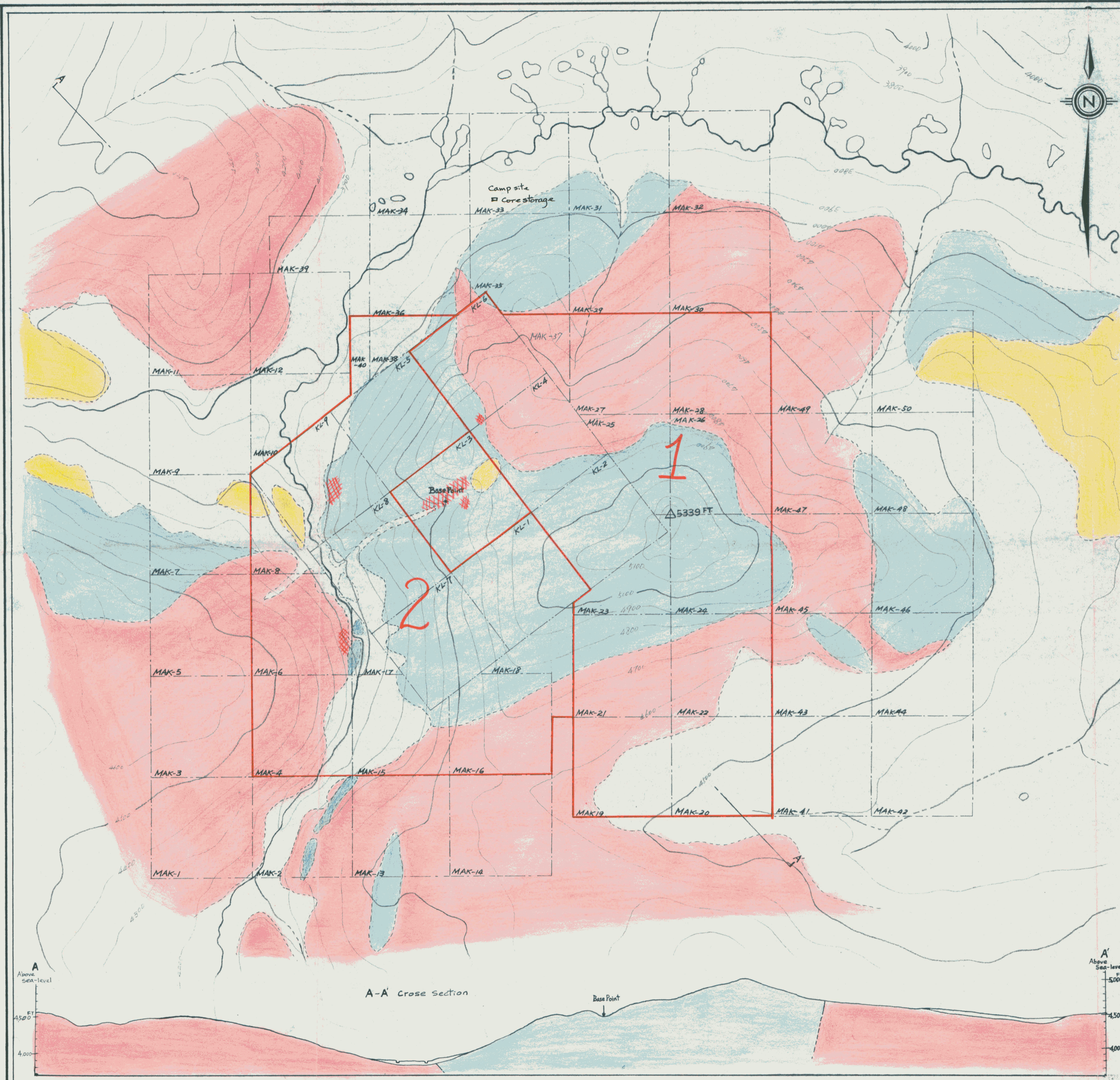
Depth M Ft. Sec.	Col. Sec.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
		None core				
		Glacial Deposits fragments of granite, schist, Quartzite, slate.				
10	35.5	light grey ~ creamy white; coarse grained diorite brecciated mafic min.: Hb > chl. > Biot. Fe-hydroxides stained in interstices				
		Clay and sand				
20		Py 1% or less " fine grained				
		clay clay "				
30	100	clay and sand, brown in color				
40		grey ~ greenish grey, medium grained diorite mafic min.: chl. > Biot > Hb.				
50	150	clay and sand				
60	191	dark grey ~ greenish grey, fine grained dioritic rock strongly brecciated Py 1-2% mafic min.: chl. > Biot > Hb calcite + chlorite veinlets (1mm ±) remarkable accompanied with fine Cp spot.				
70	200					
250						

Diamond Drilling Record

Property Name: KW claim, Yukon Elevation: 4665 FT. Started: July 14, 1971  
 Hole Number: 7 Length: 300 FT Completed: July 16, 1971  
 Location: 800'E, 600'N from B.P. Dip: -90° Date Logged: \_\_\_\_\_  
 Purpose: Geochem. Anomaly Core Size: BQ Logged By: \_\_\_\_\_

Depth M Ft. Sec.	Col. Sec.	Description	Assay %			Remarks
			Sample No.	Cu	Mo	
		None core				
50	44	Strongly bleached Dioritic rock grey-greenish grey; fine grained strongly brecciated; partly sericitized mafic min. wholly alt. → chl., Biot. Epi. Py. Mt. calcite + chlorite veinlets remarkable				
		No Cp recognized (Biot. > chl.)				
		Py 1-2%				
100		(Chl. > Biot.)	100	Dm-1	0.09	
		Py 3%±	110	"-2	0.08	
		"	120	"-3	0.07	
		"	130	"-4	0.07	
		"	140	"-5	0.08	
150		Py 3-4%	150	"-6	0.08	
		(Hornblende accumulated in some places ...)	160	"-7	0.08	
		"	170	"-8	0.05	
		Py 3-4%	180	"-9	0.04	
		"	190	"-10	0.04	
200		(Chl.)	200			
		Py 3-4% (partly 5%)				
		"				
250		(Chl. strongly)				
				Ave 100'-200'	0.068	





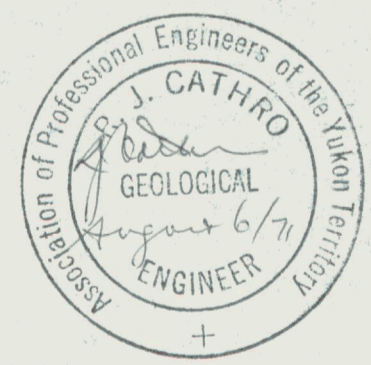
**LEGEND**

- Alluvium.
- Glacial deposits.
- JURASSIC ~ CRETACEOUS**
- Dioritic rocks.
- Granite.
- Zones of Pyritization.
- KL claim group.
- MAK claim group.
- Area applied for 1971 Assessment Work
- 1, 2.** Number of Claim Group (KL-3 claim common to both claim Group)

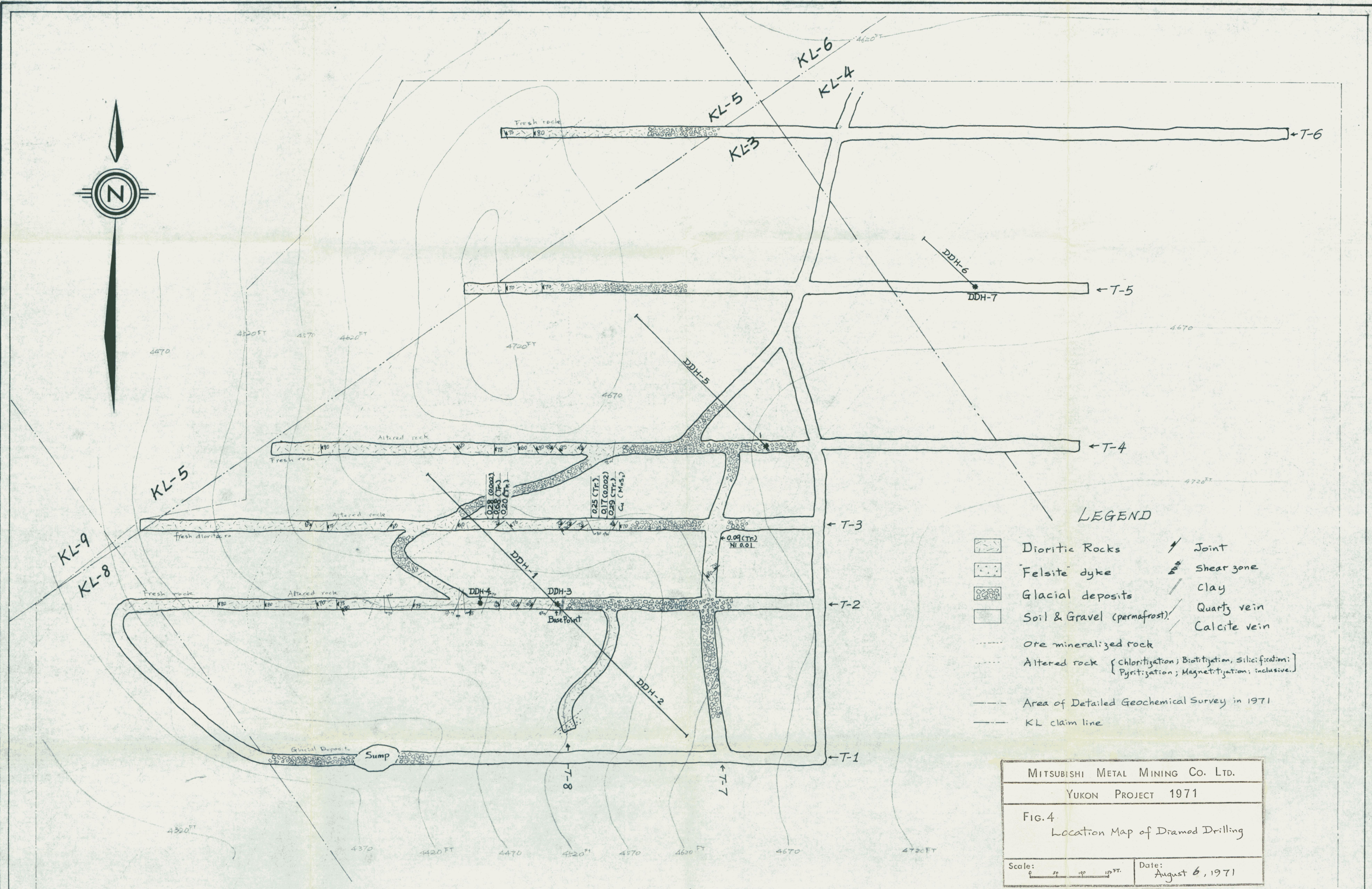
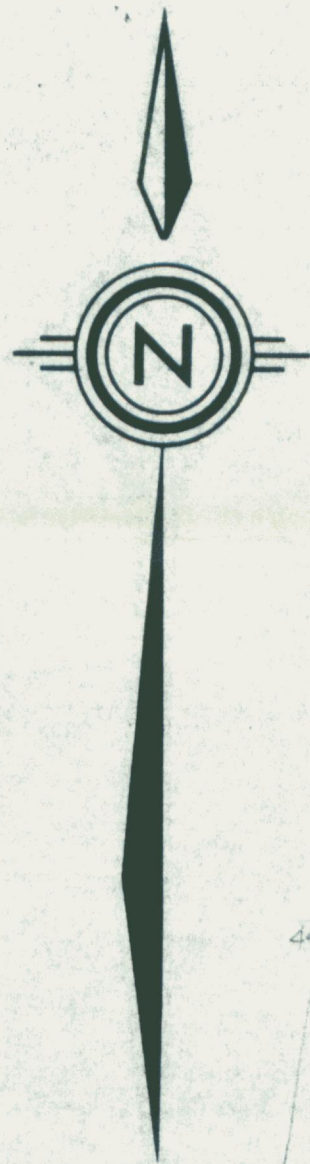
**Scale**

0 1500 3000 FEET

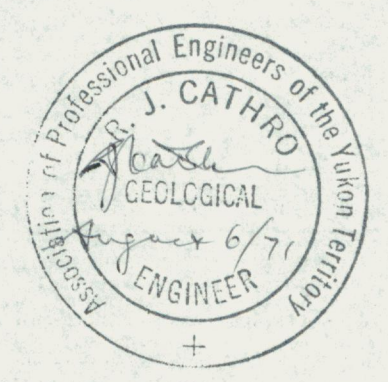
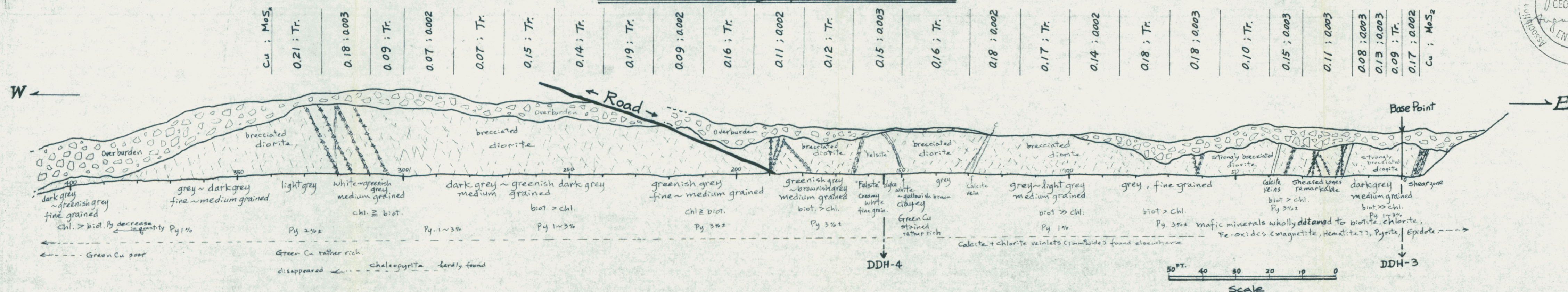
0 500 1000 METERS



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FIG. 3. Geologic Map of KL and MAK claims Area	
Scale: 1 : 10,000	Date: August 6, 1971

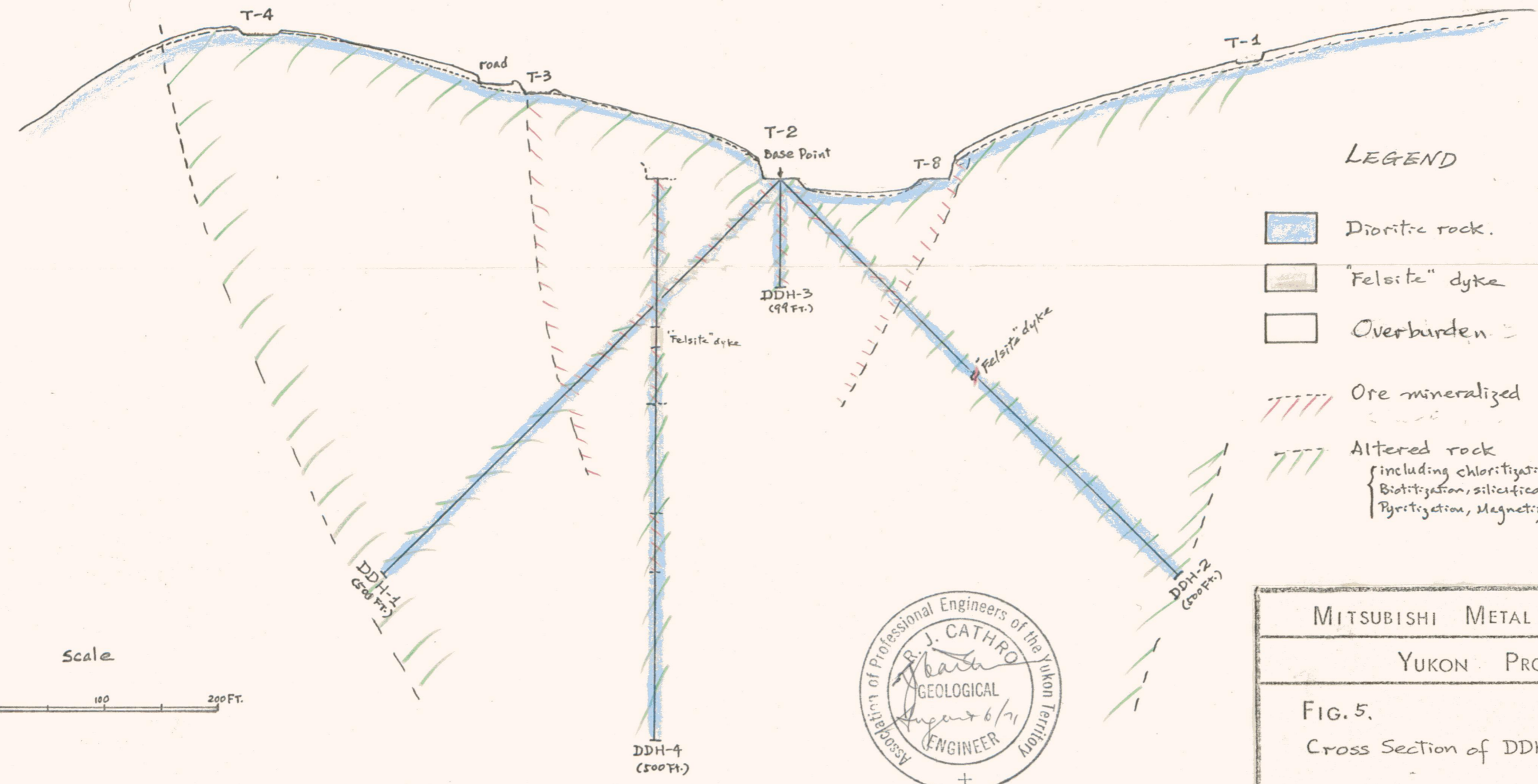


Sketch of the North Wall of T-2 and the Assay of Rock Sample



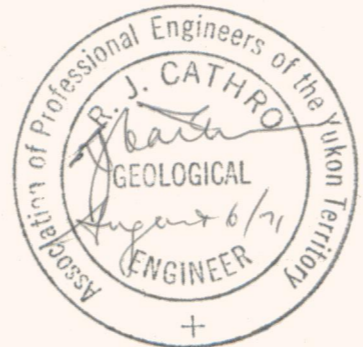
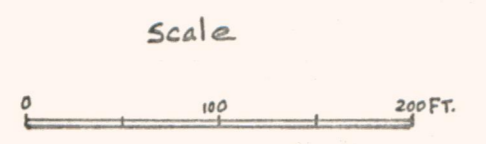
NW ←

→ SE



LEGEND

- Dioritic rock.
- "Felsite" dyke
- Overburden
- Ore mineralized
- Altered rock  
 { including chloritization  
 Biotitization, silicification  
 Pyritization, Magnetization



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FIG. 5. Cross Section of DDH-1, 2, -3 and 4.	
Scale:	Date: August 6, 1971