

# 5365

DIAMOND DRILLING REPORT  
ON SHEBA MINERAL CLAIM GROUPS  
Lat.  $50^{\circ} 26'$ , Long.  $120^{\circ} 57'$ , KAMLOOPS MINING DIVISION  
BRITISH COLUMBIA

## 92I/7W

Work Done  
During Period May 26 to June 19, 1974

for  
SABA COPPER MINES LTD. (N.P.L.)  
The registered claim owner

<p>Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <u>5365</u> MAP</p>
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by  
Akiyoshi Komura, B. Sc.  
Chief Geologist  
Dowa Mining Co., Ltd.  
Optionee

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MAPS

#1 CLAIM MAP

#2 SHEBA PROJECT

1. SUMMARY

The property of Saba Copper Mines Ltd., comprises of 95 full-sized and fractional mineral claims, and is located in the Highland Valley, British Columbia. The Dowa Mining Co. has held a working option on the property in 1971, and conducted diamond drilling, geological mapping and geochemical prospecting for four years. In 1974, three holes of B.Q. core size were drilled for a total of 2,088 feet. No economic mineralization was encountered.

2. INTRODUCTION

The diamond drilling program was conducted between May 26 and June 19, 1974. Three B.Q.-W.L. diamond drill holes were drilled for a total aggregate footage of 2,088 feet. Field supervision of the project was carried out by A. Komura, chief geologist, Dowa Mining Co., Ltd. Diamond drilling was contracted to D.W. Coates Enterprises, Vancouver, B.C. Core samples were assayed by Warnock Hersey International Ltd., Vancouver, B. C.

All the drill core was split, sampled and logged. Samples were taken every ten feet and bagged. Select samples from each hole were analyzed for copper and total molybdenum. All the split drill core along with the unassayed samples were stored on the camp site of the property. The camp was located on Lynn No. 3 claim near DDH-S-72-1, beside the Highmont road.

3. DIAMOND DRILLING

The location of the three diamond drill holes appears on the Drill Holes Location Map. The particulars on the holes are given on page Two.

<u>D.D.H.</u>	<u>CLAIM</u>	<u>ALTITUDE</u>	<u>BEARING</u>	<u>ANGLE</u>	<u>DEPTH</u>	<u>DRILLING INTERVAL</u>
S-74-1	LYNN 7Fr	4,650'	Due E	-60°	698'	May 30-June 3, 1974
S-74-2	J-6	4,840'	Due E	-60°	688'	June 6-June 9, 1974
S-74-3	J-4	4,920'	Due E	-60°	702'	June 12-June 18, 1974
					<u>Total</u>	2,088'

4. GEOLOGICAL SUMMARY OF THE DRILL HOLES

Detailed logs and assay results of the drill holes are in the accompanying folder. Three east-west cross sections showing important geology and assays accompany this report. A summary of each drill hole is given below.

S-74-1

Overburden depth	110 feet
Rock Type	Bethlehem Quartz diorite
Alteration	Propylitic alteration consisting of chlorite argillite, green sericite in the first half, potash feldspar and argillite alteration in the later half.
Mineralization	very weak chalcopryrite, bornite, molybdenite.
Fault	Shear zone from 341 feet to 423 feet, from 462 feet to 546 feet, from 567 feet to 641 feet.

S-74-2

Overburden	20 feet
Rock type	Pink porphyrite from 20 feet to 193 feet, after that Bethlehem quartz diorite.
Alteration	Epidote alteration in the pink porphyrite, generally weak potash feldspar alteration in the Bethlehem quartz diorite.
Mineralization	generally weak copper mineralization, specially moderate from 510 feet to 640 feet. Assay result is as follows - 510 feet to 640 feet, 130 feet section 0.11% Cu., 0.02% Mo.
Fault	Shear zone from 135 feet to 140 feet, from 159 feet to 168 feet, from 193 feet to 208 feet, from 228 feet to 230 feet, from 373 feet to 376 feet, from 498 feet to 500 feet.

S-74-3

Overburden	10 feet
Rock type	Bathsaida quartz monzonite from 10 476 feet, after that Bethlehem quartz diorite
Alteration	Potash feldspar alteration in the first half, propylite alteration in the later half.
Mineralization	very very weak, occasionally chalcopyrite disseminated and veinlets.
Fault	from 235 feet to 241 feet, from 273 feet to 275 feet.

5. CONCLUSION

Since 1967, so many diamond drilling and percussion drilling were done on the property owned by Saba Copper Mines Ltd., (which measures about 15 square kilometers) by the following mining companies.

		D/D		P/D	
		Holes	Feet	Holes	Feet
Sumitomo Metal	1967	15	6,569	21	5,250
Anaconda	1969	7	5,214		
Dowa	1971-1974	36	26,102		
Total		<hr/>			
		58	37,885	21	5,250

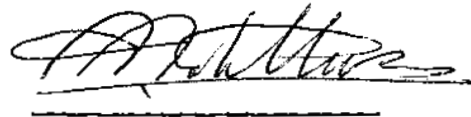
Of course Drilling targets were concentrated on the geochemical anomalies, I P anomalies, surface showing and good mineralized drill areas, but average drilling density is counted as 5.3 holes per square kilometer, and it means that spacing of drill holes is about 436 meters (1,330 feet).

We found several good mineralization in some diamond drill holes as follows:

	from	to	interval	CU%	MO%
S-71-10	160'	- 180'	20'	0.86	0.005
S-71-11	450'	- 500'	50'	0.78	0.022
S-72-4	350'	- 390'	40'	0.42	0.036
S-73-2	640'	- 680'	40'	0.58	0.006

However the diamond drilling program for 1974 encountered no economic copper mineralization. Assay results were negligible in all three holes. Further drilling will not be recommended.

Respectfully submitted,



Akiyoshi Komura, B.Sc.  
Senior Geologist  
The Dowa Mining Co., Ltd.

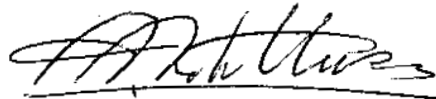
Vancouver, B. C.

January 24, 1975.

6. STATEMENT OF QUALIFICATION

I, Akiyoshi Komura, hereby certify that:

1. I am a graduate of the Tohoku University, Japan.  
(B. Sc., Geology and Mineralogy, 1955)
2. I am a member of the Society of Mining Geologist of Japan,  
and of the Canadian Institute of Mining and Metallurgy.
3. I have been practising my profession continuously in Japan,  
Australia and Korea for the past sixteen years and in Canada  
for three years.
4. I am presently employed by the Dowa Mining Co., Ltd., Vancouver  
Canada, as a chief geologist.
5. I have no direct or indirect interest in the property, nor do  
I anticipate receiving any such interest.
6. The original data in this report is based on my personal  
study and work at the property during the period May 26 to  
June 19, 1974.



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Akiyoshi Komura, B.Sc.

Vancouver, B. C.  
January 24, 1975



7. STATEMENT OF EXPENSES

I, Akiyoshi Komura, B. Sc., managing senior geologist of the work, hereby certify that my expenses for the work described in this report follows:

<u>Name of Group*</u>	<u>Diamond Drilling</u>	<u>Assay</u>	<u>Total</u>
North	8,624.05	90	8,704.05
Middle	8,624.05	220	8,844.05
South	8,624.05	150	8,774.05
<hr/>			
Total	25,872.15	450	26,322.15

The detailed breakdown is on the following pages.



Akiyoshi Komura, B. Sc.,  
Managing Senior Geologist  
of the Work.

Note \* These three new groups has been applied.


ASSAY CHARGE

Warnock Hersey International Limited

June 24, 1974

\$450.00

I paid this for the company.



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Akiyoshi Komura, B.Sc.

June 25, 1974.

Receipt is on the following pages.



WARNOCK HERSEY  
INTERNATIONAL LIMITED

PROFESSIONAL  
SERVICES  
DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone 878-4111 - Telex 04-54360

DATE June 24, 1974	CLIENT'S ORDER NO.	CODE 1461	OUR ORDER NO. 19352	CLIENT NO.
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Dowa Mining Company Ltd.,  
1102 - 1111 West Hastings Street  
Vancouver, B.C.

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DATE OF REPORT	REPORT NO.		
		26 assays for copper @ \$ 4.00 each	\$ 104.00
		26 assays for molybdenum @ \$ 6.00 each	156.00
			<u>260.00</u>
		Less 10% discount	<u>26.00</u>
		<b>TOTAL</b>	<b><u>\$ 234.00</u></b>

Cheque No. <u>1455</u>	
Date <u>June 25/74</u>	
Amount Paid <u>TOTAL - 450.00</u>	
Section <u>Alpha 7G</u>	

INVOICE NO.	461	37371
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THIS IS AN ACCOUNT FOR PROFESSIONAL SERVICES AND IS DUE ON PRESENTATION  
PLEASE REMIT TO: 125 EAST 4th. AVE., VANCOUVER 10, B.C.



WARNOCK HERSEY  
INTERNATIONAL LIMITED

PROFESSIONAL  
SERVICES  
DIVISION

125 East 4th Ave., Vancouver 10, B.C. Phone 876-4111 - Telex 04-54360

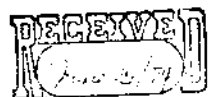
DATE June 24, 1974	CLIENT'S ORDER NO.	CODE 1461	OUR ORDER NO. 19365	CLIENT NO.
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Dowa Mining Company Ltd.,  
1102 - 1111 West Hastings Street  
Vancouver, B.C.

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DATE OF REPORT	REPORT NO.			
		24 assys for copper @ \$ 4.00 each	\$ 96.00	
		24 assays for molybdenum @ \$ 6.00 each	144.00	
			<u>240.00</u>	
		Less 10% discount	24.00	
			<u>216.00</u>	
		TOTAL		<u>\$ 216.00</u>



INVOICE NO. 461 37372

THIS IS AN ACCOUNT FOR PROFESSIONAL SERVICES AND IS DUE ON PRESENTATION  
PLEASE REMIT TO: 125 EAST 4th. AVE.,VANCOUVER 10, B.C.

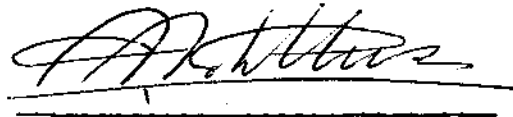
DIAMOND DRILLING CONTRACTOR'S CHARGE

D. W. Coates Enterprises Limited

May 26 to June 18, 1974

\$25,872.15

I paid this for the company.



Akiyoshi Komura, B.Sc.

June 28, 1974.

Receipt is on the following pages.

The Dowa Mining Co. Ltd.,  
1102 - 1111 West Hastings Street,  
Vancouver, B.C.

INVOICE

D.W. COATES ENTERPRISES LTD.

1668 - 1st AVENUE WEST  
VANCOUVER 9, B.C.

INVOICE NO.: 735

JOB NO.: 237

Date: June 25, 1974.

RE: Sheba Project Drilling.

PERIOD: June 1 - 18, 1974.

Board Charges

L. Stonehocker: 51 meals @ \$3.50/meal  
(Core Splitter)

\$ 178.50

E. & O.E.

Cheque No.	1462
Date	June 24/74
Amount Paid	178.50
Section	Sheba 70

RECEIVED  
June 24/74

v

The Dowa Mining Co. Ltd.,  
1102 - 1111 West Hastings Street,  
Vancouver 1, B.C.

INVOICE

D.W. COATES ENTERPRISES LTD.

1668 - 1st AVENUE WEST  
VANCOUVER 9, B.C.

INVOICE NO.: 729

JOB NO.: 237

Date: June 24, 1974.

RE: Sheba Project Drilling.

PERIOD: June 1 - 18, 1974.

Drilling Detail	\$ 18,984.70
Transportation	425.00
Moving, Setup & Teardown	422.40
Core Boxes	(56.00)
Drilling with Mud	150.00
Core Splitting	611.50
Reducing & Reaming	1,441.65
	<hr/>
	\$ 21,979.25
	<hr/>

E. & O.E.

Cheque No.	1462
Date	June 28/74
Amount Paid	21,979.25
Section	Sheba 6



Drilling Detail

<u>Hole #</u>	<u>Size</u>	<u>From</u>	<u>To</u>	<u>Footage</u>	<u>Rate/Foot</u>	<u>Amount</u>
74-1	NQ	252	500	248	\$10.70	2,653.60
"	NQ	500	556	56	11.45	641.20
"	BQ	556	698	142	10.15	1,441.30
74-2	NQ	0	11	11	11.40	125.40
"	NQ	11	476	465	10.70	4,975.50
"	BQ	476	500	24	9.40	225.60
"	BQ	500	702	202	10.15	2,050.30
74-3	NQ	0	20	20	11.40	228.00
"	NQ	20	192	172	10.70	1,840.40
"	BQ	192	500	308	9.40	2,895.20
"	BQ	500	688	188	10.15	1,908.20
				<u>1836'</u>		<u>\$ 18,984.70</u>

Transportation

Demobilization: 50% x \$850.00 \$ 425.00

Moving, Setup & Teardown

<u>Date:</u>	<u>Memo</u>	<u>Man Hours</u>	<u>Tractor</u>
June 3 D	Make road to Hole #2	11	3
" 4 D	" " " " #2	20	-
" 5 D	Moved to Hole #2	24	-
" 6 D	Finished Setup	20	-
" 8 D	Move Rods to Hole #2	<u>4</u>	<u>1</u>
		79	4
	Coates' Portion:	<u>50</u>	29 0 4
June 10 D	Make road to Hole #3	22	3
" 11 D	Setup - Hole #3	<u>32</u>	<u>4</u>
		54	7
	Coates' Portion:	<u>50</u>	4 0 7
		33	11

Calculation:

Labour: 33 hours @ \$9.60 \$ 316.80  
 Tractor: 11 " @ 9.60 105.60 \$ 422.40

✓



Core Boxes

Credit: 16 BQ Boxes @ \$3.50/box \$ (56.00)

Drilling with Mud:

<u>Date</u>	<u>Hole #</u>	<u>Quick Gal</u>	<u>Quick Trol</u>
June 8 D	74-2	2	-
" 15 D	74-3	-	7
" 16 D	"	-	7
" 16 N	"	3	-
" 17 D	"	7	7
" 17 N	"	6	3
" 18 D	"	<u>1</u>	<u>-</u>
		19	24

19 Bags Quick Gal @ \$4.80	\$ 91.20	
24 " " Trol @ 2.45	<u>58.80</u>	\$ 150.00

Core Splitting

L. Stonehocker - June 3 - 19:

17 days @ \$30.00/day	\$ 510.00	
Plus 15% Benefits	<u>76.50</u>	\$ 586.50

Transportation: Vancouver to Kamloops - Airfare	<u>25.00</u>	\$ 611.50
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✓

Reducing NQ to BQ & Reaming

(a) Labour & Equipment:

<u>Date</u>	<u>Memo</u>	<u>Man Hours</u>	<u>Drill</u>
June 2 D	Reduced @ 556' - Hole #1	4	2
" 2 N	" " " "	2	1
" 3 D	Pulling NQ Rods " "	2	1
" 4 D	Hammering NQ Rods - Hole #1	20	10
" 8 D	Reaming NQ - Hole #2	8	4
" 8 N	Reduce to BQ @ 476' - Hole #2	6	3
" 10 D	Hammering NQ Rods - Hole #2	8	4
" 14 D	Reamed for 110' - Hole #3	4	2
" 14 N	Reduced to BQ @ 192'	6	3
" 18 D	Pull NQ Rods	4	2
		<u>64</u>	<u>32</u>

Calculation:

Labour:	64 hours	@ \$9.60	\$ 614.40	
Drill :	32 "	@ 7.20	230.40	
Pumps :	32 "	@ (2 x .75)	<u>48.00</u>	\$ 892.80

(b) Material:

3 NQ Wireline Rods - Lost in Hole #1	@ \$40.50	\$ 121.50	
4 NW 10' Casing - " " " #1	@ 46.65	186.60	
1 NW Casing Shoe - " " " #1		<u>240.75</u>	548.85

TOTAL REDUCING & REAMING:

\$ 1,441.65

AK

The Dowa Mining Co. Ltd.,  
1102 - 1111 West Hastings Street,  
Vancouver 1, B.C.

INVOICE

INVOICE NO.: 724

JOB NO.: 237

D.W. COATES ENTERPRISES LTD.

1668 - 1st AVENUE WEST  
VANCOUVER 9, B.C.

Date: June 10, 1974.

RE: Sheba Project Drilling.

PERIOD: May 26 - 31, 1974.

Drilling Detail	\$ 2,883.40
Transportation	425.00
Core Boxes	406.00
	\$
	<u>3,714.40</u>

E. & O. E.

Cheque No.	1462
Date	June 29/74
Amount Paid	3,714.40
Section	Sheba 6

RECEIVED

Drilling Detail:

<u>Hole #</u>	<u>Size</u>	<u>From</u>	<u>To</u>	<u>Footage</u>	<u>Rate/Foot</u>	<u>Amount</u>
74-1	NQ	0	50	50	\$11.40	\$ 570.00
"	NQ	50	100	50	12.75	637.50
"	NQ	100	110	10	15.65	156.50
"	NQ	110	252	<u>142</u>	10.70	<u>1,519.40</u>
				252'		\$ 2,883.40

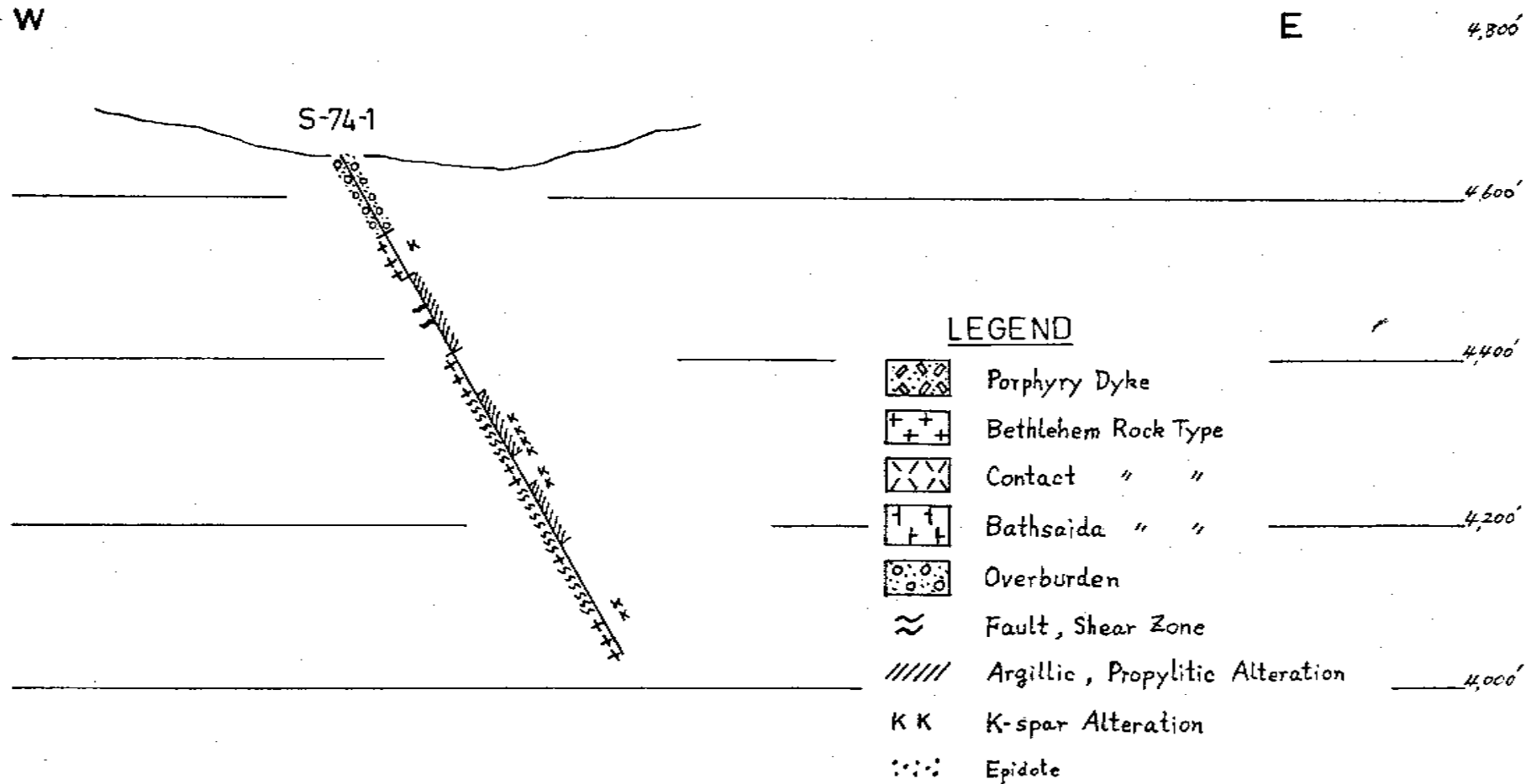
Transportation:

Mobilization:	50% x \$850.00	\$ 425.00
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Core Boxes:

60	NQ	Core Boxes	@	\$3.50/box	\$ 210.00	
56	BQ	"	"	@ 3.50/box	<u>196.00</u>	\$ 406.00

# S-74-1 Drill Cross Section

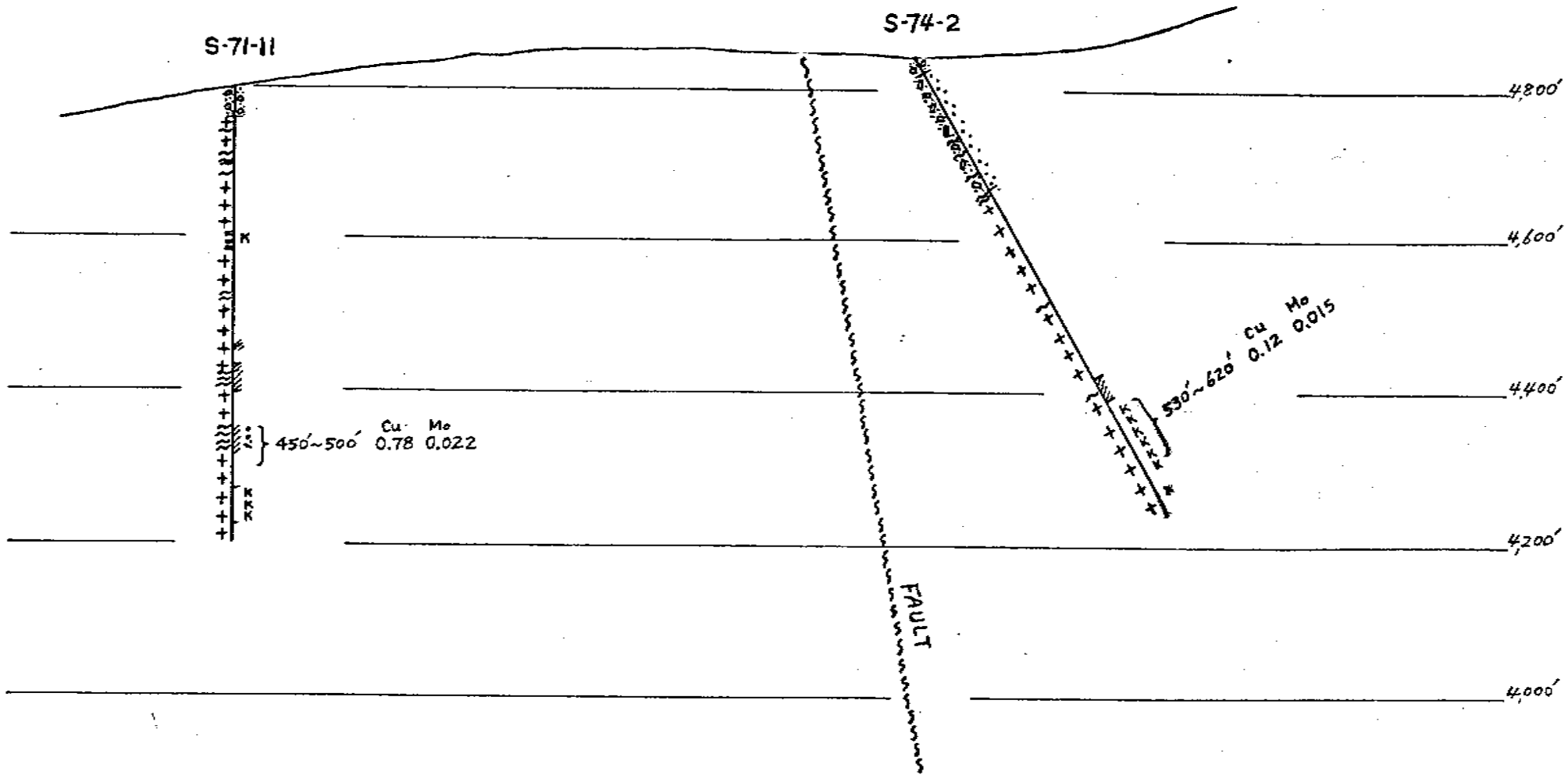


# S-71-11, S-74-2 Drill Cross Section

W

E

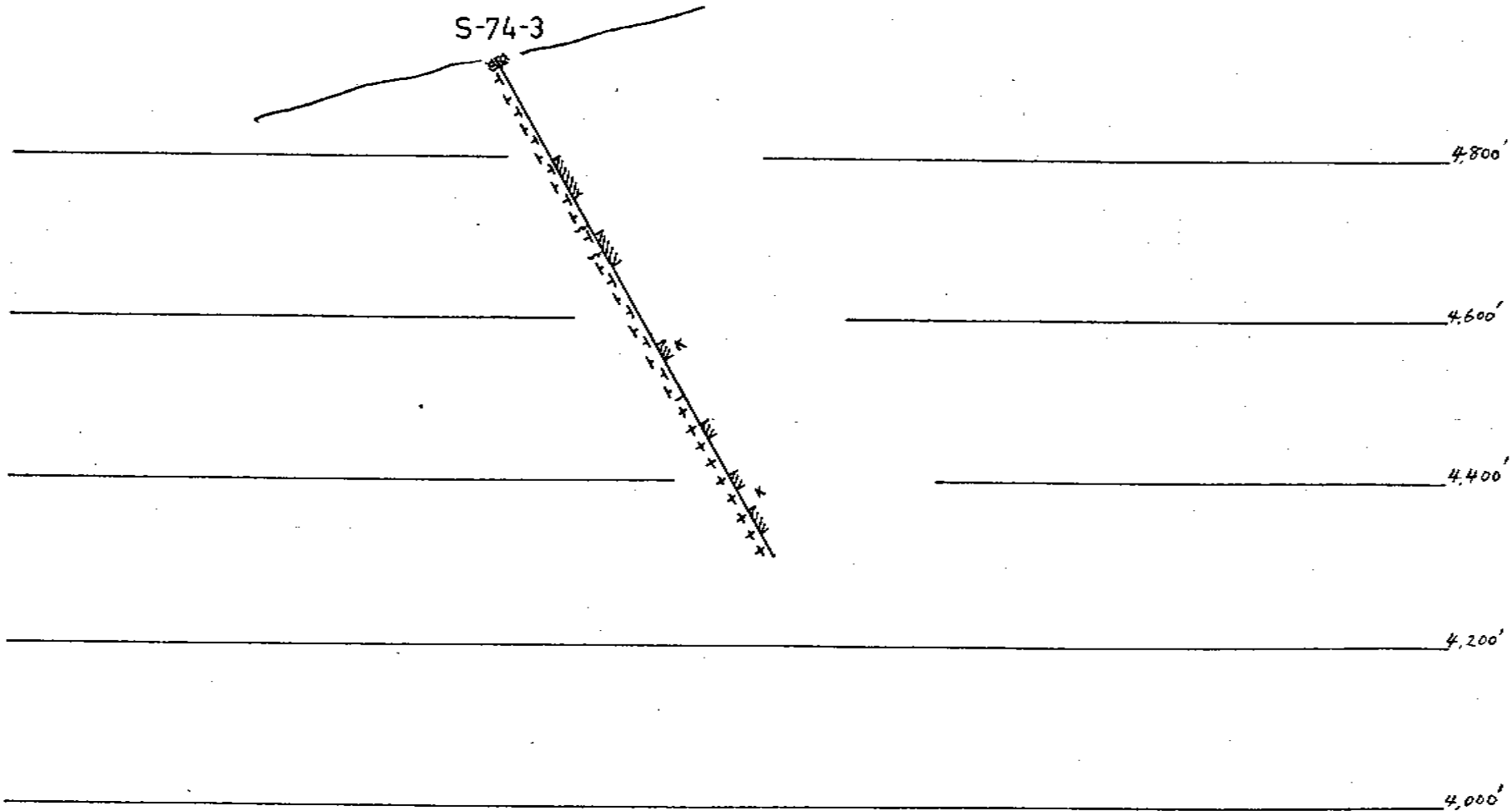
5,000'



# S-74-3 Drill Cross Section

W

E



LIST OF TERMS, ABBREVIATIONS & SYMBOLS


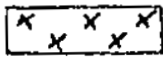
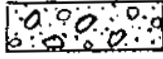
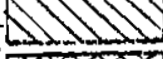

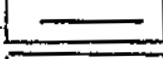
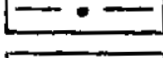
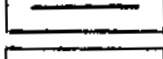
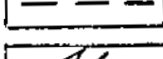
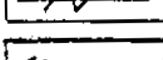
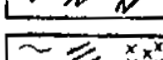
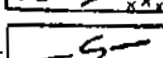
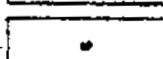

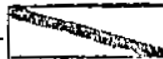
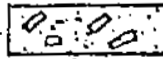
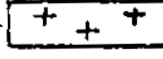
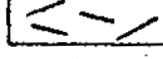
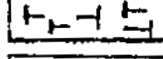
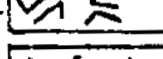
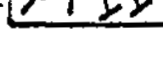

Sheba Phase 2, 1972

GENERALAdjectiveNoun

Leucocratic	<del>Leu</del> (leu)	
Mesocratic	<del>Mes</del> (mes)	
Breccia	<del>Bx</del> (bx) brec.	Brec.
Fault	ft.	Ft.
Fracture	fr.	Fr.
Shear	sh.	Sh.
vein	vn.	Vn.
Veinlet	vnlt.	Vl.
Replacement	<del>R</del> repl.	Repl.
Disseminated	<del>D</del> diss.	Diss.
Shattered	<del>St</del> st.	St.
Mafic	<del>M</del> mf.	Mf.
Strike-slip ft.	SS	
Dip-slip ft.	DS	
Oblique-slip ft.	OS	
very fine	vf	
fine	f	
medium	m	
coarse	c	
very coarse	vc	
Porphyritic	<del>Por</del> (por)	
Porphyry	<del>Por</del> (por)	Por.
black	blk	
Grey	gry	
green	grn	
pink	pk	
buff	buf.	
drab	db	
deep	dp	
associated	assoc.	
silicified	sil	
Altered	<del>Alt</del> (alt.)	Alt.
blocky	by.	



SYMBOLS

Shatter Zone - - - - -		St. zone
Breccia - - - - -		Brec. zone
Overburden - - - - -		Ob.
Shear Zone - - - - -		Sh. zone
Fault Zone - - - - -		Ft. zone
Geological boundary - - - - -		
Alteration boundary - - - - -		
Major division - - - - -		
Minor division - - - - -		
Graduation boundary - - - - -		
Fault - - - - -		Ft.
Mineralization zone - - - - - Along fracture, Generally, Spot		
Break (or elimination) - - - - -		
Mafic or diss. Mineralization - - - - -		
Fracture or vein Mineralization - - - - -		Fr.
Dyke - - - - -		
Porphyry - - - - -		Por.
Bethelehm rock type - - - - -		Bm.
Contact Phase rock type - - - - -		Cp.
Bethsaida rock type - - - - -		Ba.
Guichon rock type - - - - -		Gu.
Chataway rock type - - - - -		Chy.

MINERALS

Anhydrite	Ah.
Apatite	Ap.
Biotite	Bi.
Bornite	Bo.
Calcite	Cal.
Chalcopyrite	Cp.
Epidote	Ep.
Feldsper	Fel.
Gypsum	Gyp.
Hornblende	Hb.
Kaolinite	Kao.
Limonite	Lm.
Magnetite	Mag.
Molybdenite	Mo.
Montmorillinite	Mm.
Orthoclase	Or.
Plagioclase	Pg.
Quartz	Qz.
Sericite	Sc.
Talc	Tk.
Tourmaline	Tl.
Zeolite	Ze.
Malachite	Mal.
Azurite	Az.

### ROCK TYPES

Quartz diorite	QD
Quartz monzonite	QM
Granodiorite	GD
Porphyry	Por
Dyke	Dy
Diorite	Dio
Aplite	Ap

### ROCK PHASES

Bethsaida	Ba
Bethlehem	Bm
Contact Phase	CP
Guichon	Gu
Chataway	Chy

### ALTERATION

Propylitic	Prop.
Argillic	Arg.
K-spar	K-spar
Quartz-sericite	Q.S.

### INTENSITIES OF ALTERATION & MINERALIZATION

Very weak	1
weak	2
moderate	3
strong	4
Intense	5





















ROCK TYPES	DESCRIPTION	Drawing	Footage & Recovery	FRACTURE			ALTERATION									MINERALIZATION					ASSAY								
				N/Sect	Angle	Filling	Quartz	Sericite	Argillite	Chlorite	Biotite	K-Spar	Epidote	Calcite	Hematite	Gr Sc.	Kaolinite	CPY	bo	mo	PY	Cu	Mo						
		+ +																											
		+ +																											
		+ +	400	1	45°	Di. Cr. K-spar																√	0.02	0.01					
		+ +																											
Bm. QD.		+ +	420																			√	0.03	0.01					
		+ +																											
		+ +	440																										
		+ +																											
		+ +	460																										
		+ +																											
		+ +	466																			√	0.02	0.01					
		+ +																				√	0.04	0.01					
		+ +	480																			√	0.05	0.01					
	undefined																												
		+ +	500				072.5 500 Ft																						
		+ +																											
		+ +	520		60	Cr																√	0.10	0.01					

















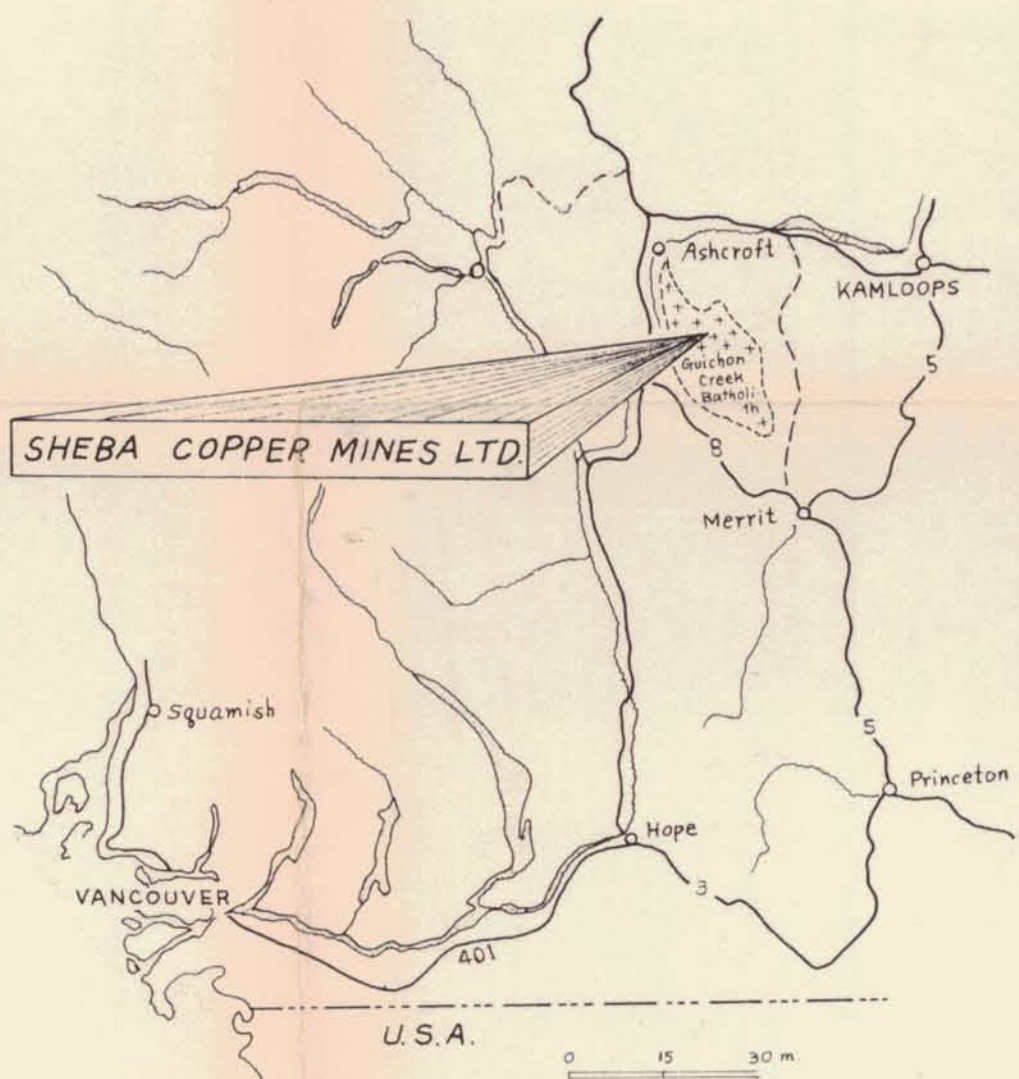
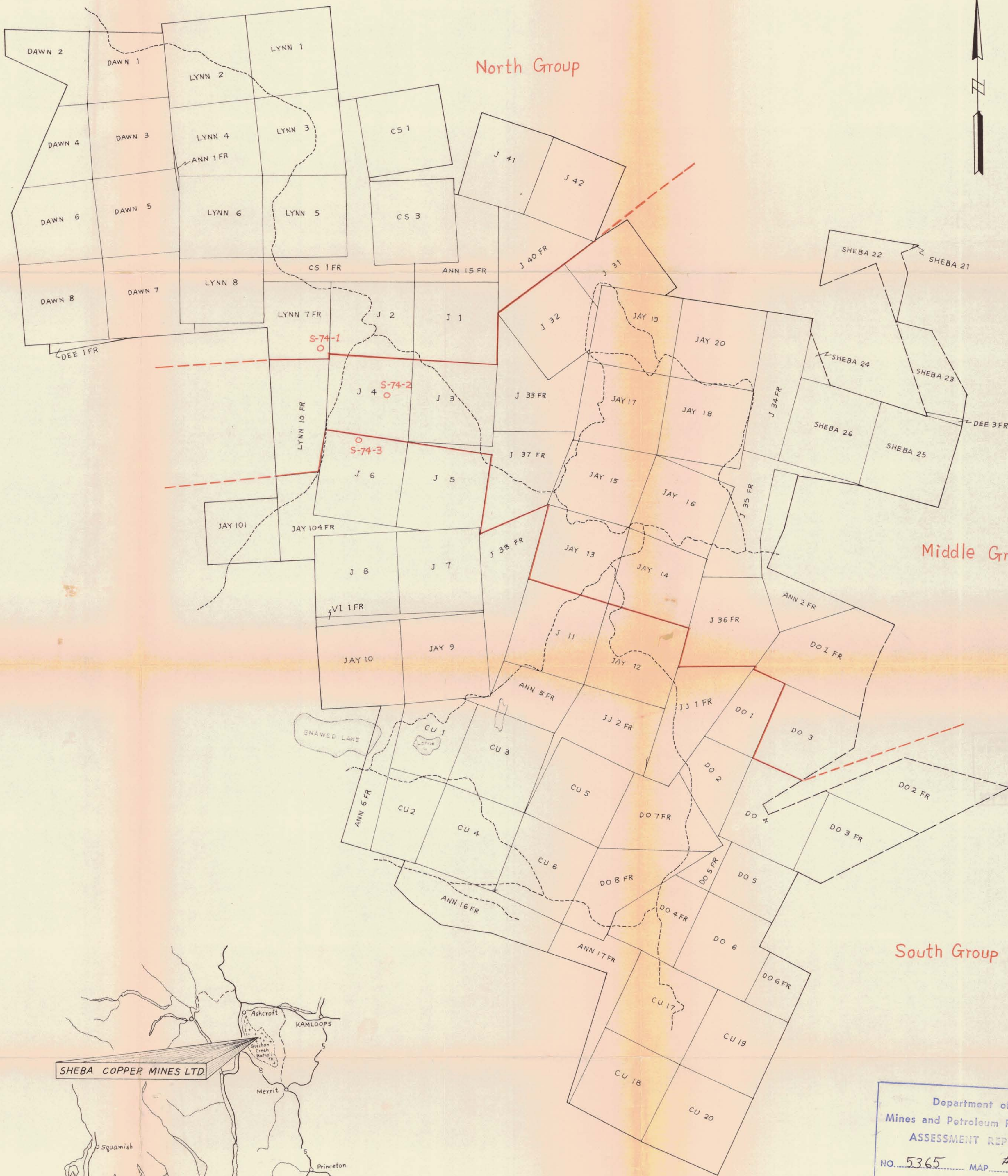




North Group

Middle Group

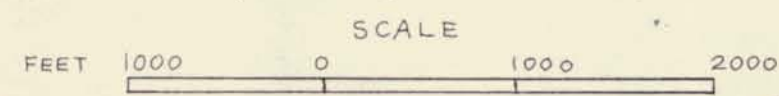
South Group



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5365 MAP #1

DOWA MINING COMPANY LTD. **5365**  
SHEBA PROJECT **MAP 1**  
HIGHLAND VALLEY KAMLOOPS M.D., B.C.

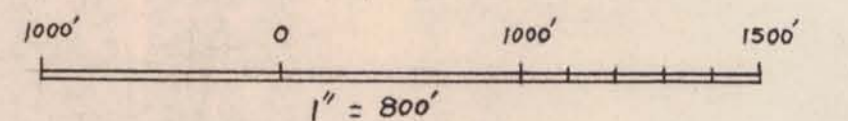
MINERL CLAIM MAP  
North, Middle, South Group



*[Handwritten signature]*  
Jan. 1975

ATTACHED TO:  
 DIAMOND DRILLING REPORT  
 ON SHEBA MINERAL CLAIM GROUPS  
 Lat. 50° 26', Long. 120° 57', KAMLOOPS MINING DIVISION  
 BRITISH COLUMBIA  
 by Akiyoshi Komura, January 24, 1975

DOWA MINING COMPANY LTD  
 SHEBA PROJECT  
 HIGHLAND VALLEY KAMLOOPS M.D. B.C.



Legend

- Drilling on the Sheba property
- △ Bethlehem Drilling

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 5365 MAP #2

