

3319

REPORT on the CINDY GROUP OF CLAIMS

FRANKLYN ARM, CHILKO LAKE

CLINTON MINING DIVISION

for

SHOREWEST MINING CO. LTD. (N.P.L.)

92 N / 1E

by

JOHN R. POLONI, B.Sc. P.Eng.

October 5, 1971.

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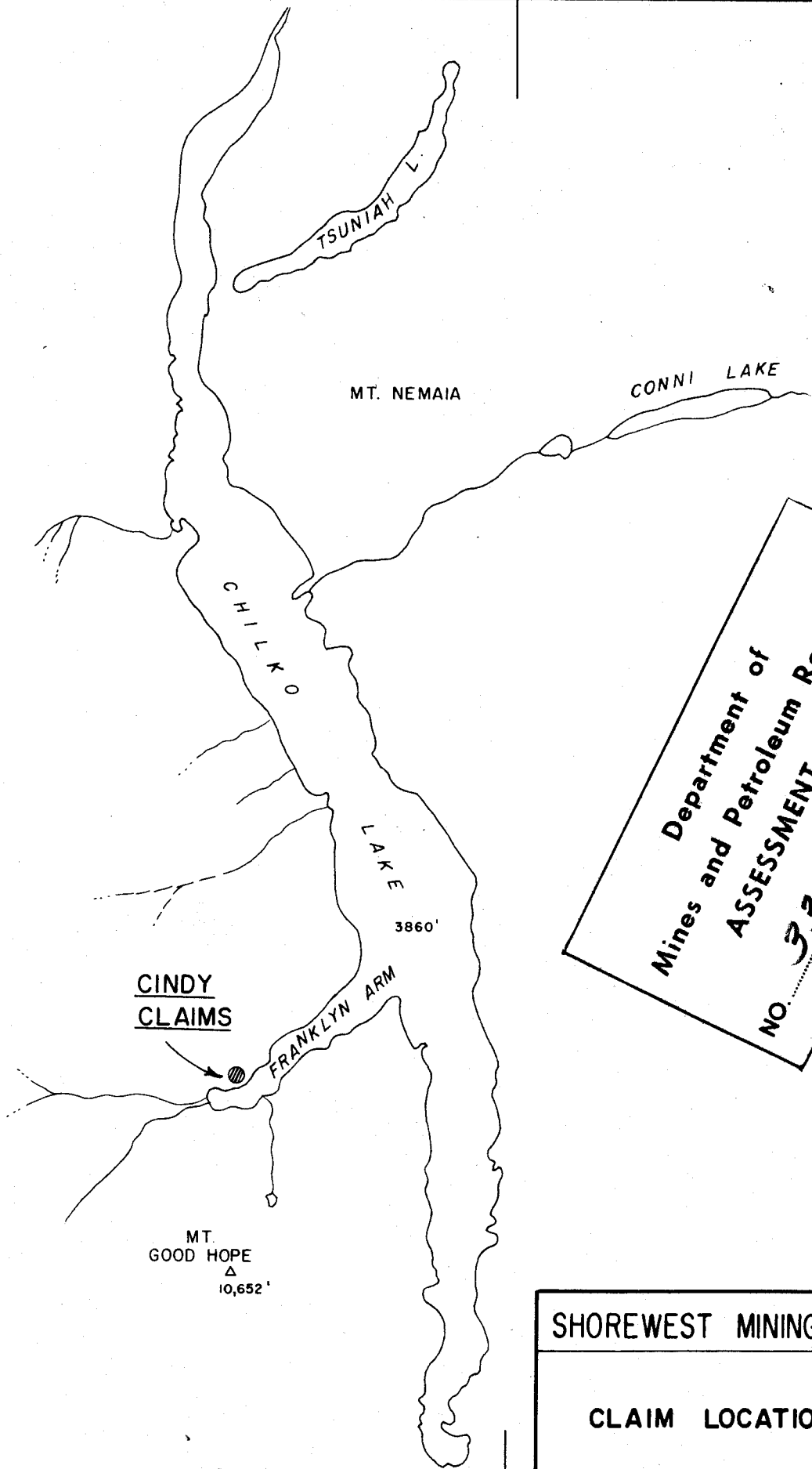
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INTRODUCTION

This report was prepared on behalf of Shorewest Mining Co. Ltd. as a summary of the preliminary field program conducted on the Cindy (16-41) group of claims located on the north-west side of Franklyn Arm, Chilko Lake at  $51^{\circ}10'$  north latitude and  $124^{\circ}10'$  west longitude. Geological mapping and geochemical sampling were conducted along chain and compass lines run in a north-south direction. Four pits were blasted in areas of interest to examine rock types and to expose existing mineralization.

LOCATION MAP

FIG. #1



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3319 MAP #

FIG. 1

SHOREWEST MINING CO. LTD.	
CLAIM LOCATION MAP	
CLINTON M. D.	
JOHN R. POLONI	B.Sc. P. ENG.
SCALE 1" = 4 MI.	OCT. 5, 1971

TO ACCOMPANY A REPORT BY JOHN R. POLONI DATED OCT. 5, 1971

124° 00'

PROPERTY

The property consists of 26 located claims called Cindy (16-41), record numbers 19006-31 inclusive, recorded in the Clinton Mining Division, B. C. Expiry date is September 12, 1971.

LOCATION AND ACCESS

Located 6000 feet from the head of Franklyn Arm, Chilko Lake, the claims are 27 miles south of Chilko Landing. Air distance from Campbell River is approximately 100 miles. Access to the claims is by float plane from Campbell River, Vancouver, or Williams Lake. An alternate car-boat route exists from Williams Lake via Highway 20, turning south at Tatla Lake.

Launches can be chartered at Chilko Lodge for the 27 mile water route to Franklyn Arm.

TOPOGRAPHY

The topography of the property is rugged. Elevations on the claims range from 4000 feet to over 5500 feet above mean sea level. Several steep southerly facing scarps cross the claims from east to west, making access moderately difficult.

Chilko Lake occupies a typically U-shaped glacial valley running north south for 40 miles. A narrow beach terrace is present along most of the shoreline except where bedrock is exposed near Mt. Nemaia and along the north shore of Franklyn Arm.

The Coast Range mountains, an extremely rugged and mountainous belt 60 to 80 miles wide, surround the claims to the north, west, and south. To the east, relief decreases rapidly as the Interior Plateau is approached.

Several minor streams cross the claims, generally flowing south-eastward to Franklyn Arm.

#### VEGETATION

Little commercial timber is found on the claims. Fir, balsam, and pine were seen, but recent forest fires have destroyed any trees that could possibly have been commercial. Underbrush is light, except in areas of water courses, and near lake elevations.

#### CLIMATE

Cold climate, owing to high elevations and proximity to many large glaciers, exists in the area of Franklyn Arm. Summers are generally cool and dry, but hard frost is likely to occur during any month.

Precipitation is estimated to be between 15 and 20 inches annually with most coming as snow during winter months.

Strong winds are frequent. Navigation of Chilko Lake and Franklyn Arm can be extremely hazardous at any time of the year.

#### HISTORY

No evidence exists indicating any thorough previous examinations have been undertaken on the claims.

Numerous claims were staked in the area in the late 1960's. The main region of interest was the old Ducharme property, reported on by V. Dolmage, 1924 Summary Report, Part A., G.S.C., where detailed examinations were conducted by Bethlehem Copper Mines Ltd.

Chapman, Wood, and Griswold in 1968 and 1968, and Sumitomo Mining Co. Ltd. in 1969, and several other mining companies have made examinations on claims adjacent to Bethlehem Copper Mines Ltd.

There is presently little activity reported.



GEOLOGY

Triassic volcanic and sedimentary rocks intruded by younger Coast Range quartz diorite and/or granodiorite underly the claim group.

Volcanic rocks are generally fine grained dark green members occasionally cut by epidote-carbonate rich filaments containing very minor sulfides. On claim 18, near the claim line the rocks are slightly schistose.

Minor units of limestone, quartzite, and slate are interbedded with the volcanic rocks.

Intrusive rocks are generally light coloured and medium grained and appear to occur in two linear east-west bands crossing the claims.

MINERALOGY

Pyrrhotite, the main sulfide found on the claims, normally occurs in the interbedded limy members of Triassic age. Several gossans occur along a steep southerly facing scarp crossing claims 18 and 19.

Minor chalcopyrite was observed in two places, on claims 17 and 20 respectively.

WORK PROGRAMS

A) GEOCHEMISTRY

Soil samples were taken along the claim line at 200 foot spacing for 6000 feet.

The material sampled was B-horizon brown to red-brown sandy clay, beneath a recently burned humus layer 4" thick.

Geochemical analysis for molybdenum and copper were done on 80 mesh material using:-

Analytical method - Atomic Absorption +  
Colorimetric

Digestion method -  $\text{HClO}_4 + \text{HNO}_3$

A copy of the results is included in Appendix B.

B) GEOLOGY

Geological mapping was undertaken on claims Cindy 16 to 25 inclusive. Triassic volcanic and limy sedimentary rocks are intruded by two east-west units of Coast Range intrusive. Several south facing scarps have been formed in the volcanic units making mapping and access difficult.

A limy member of the older rocks contains pyrrhotite rich gossans which have a maximum size of 40' x 20'. No copper mineralization was found.

A geological plan is included in Appendix C.

c) TRENCHING

Four pits were blasted along scarp faces to expose volcanic, sedimentary and intrusive rocks which underly the claims.

Pit #1

- Size 20' x 5' x 1' approximately.

Grey medium textured granite was exposed. No alteration, extensive fracturing, or mineralization was seen.

Pit #2

- Size 20' x 5' x 1' approximately.

Dark green, fine texture volcanic rock was exposed. The western nose of the outcrop consists of slightly schistose volcanics.

Pit #3

- Size 15' x 5' x 1' approximately.

This outcrop consists of fine grained, dark green volcanics, randomly cut by carbonate-epidote filaments.

Pit #4

- Size 20' x 10' x 1'

This is a gossan area exposed on a south facing scarp, containing pyrrhotite, in a fine grained volcanic host rock. Filaments containing calcite cut the volcanics at random orientation.

A plan of the four pits is included in Appendix D.

SUMMARY AND CONCLUSIONS

The Cindy (16-41) group of mineral claims located north of Franklyn Arm, Chilko Lake is underlain with Triassic volcanic and sedimentary rocks which have been cut by Coast Range diorite and/or granodiorite.

Mineralization in the form of pyrrhotite, and minor chalcopyrite occurs in limy members, and in fine grained volcanic units of Triassic Age.

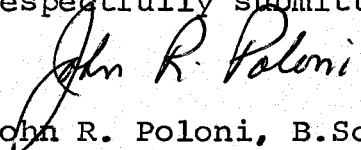
A gossan zone occurs on Cindy #19 in a south facing scarp. Trenching has exposed finely disseminated pyrrhotite in a slightly limy member of Triassic Age.

Intrusive granitic rocks cut the volcanic sequences as two west-east fingers in claims #17, #20 and #21.

No previous examination has been undertaken on the Cindy claims.

Geochemical results of samples taken at 200 foot intervals along the claim line indicate generally low background values for copper and molybdenum. One sample at 22+00N contained 92 p.p.m. copper, possibly corresponding to the gossan zone examined in Pit #4. Any further work undertaken should be concentrated in extending this area.

Respectfully submitted,

  
John R. Poloni, B.Sc. P.Eng.

APPENDIX A

SUMMARY OF PROGRAM COSTS

SUMMARY OF PROGRAM COSTS

Period - Aug. 26/71-Sept. 8/71.  
Personnel - Geologist, Assistant.

GEOCHEMICAL SURVEY

Wages	2 days @ 150.00	=	\$ 300.00
Assays		=	60.00

GEOLOGY

Mapping	5 days @ 150.00	=	750.00
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TRENCHING

	7 days @ 150.00	=	1050.00
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BOAT COSTS

120.00

TRUCK COSTS

1150 miles @ .20	230.00
14 days @ 15.00	210.00

CAMP COSTS

Food, fuel, flagging etc. Powder fuse caps	360.00
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\$3080.00

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*John R. Poloni*  
John R. Poloni, B.Sc.P.Eng.

GEOCHEMICAL ASSAY DATA

Cu - PPM

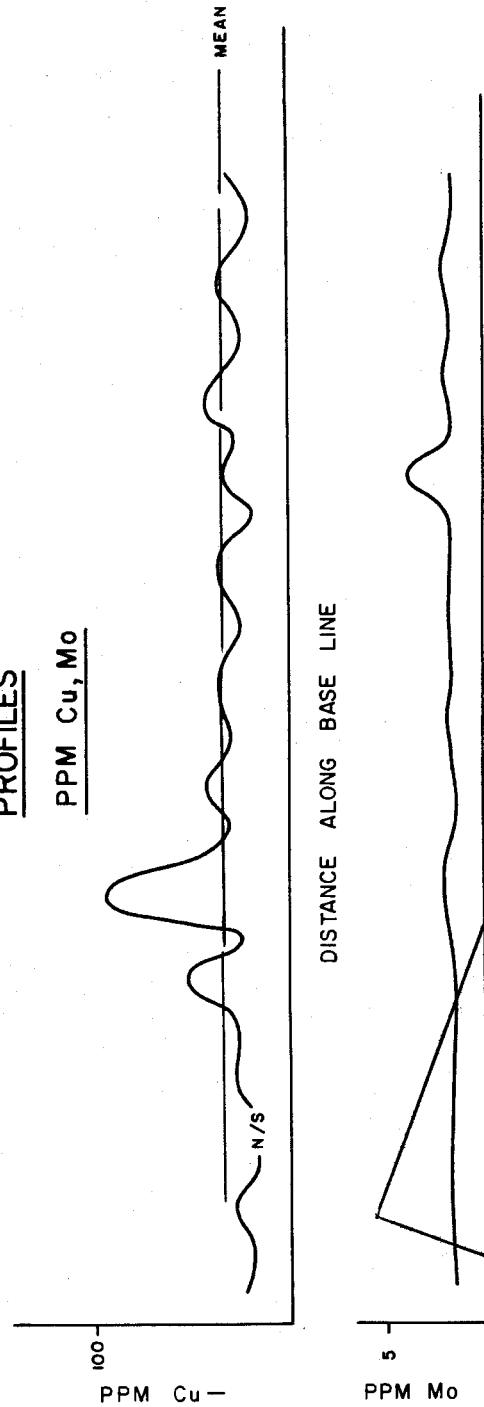
CLAIM LINE

31	60+00N
28	56+00N
28	52+00N
35	48+00N
25	44+00N
30	40+00N
45	36+00N
28	32+00N
34	28+00N
18	24+00N
34	20+00N
32	16+00N
23	12+00N
34	8+00N
36	4+00N
30	0+00
44	
32	
52	
92	
22	
54	
29	
24	
28	
N/S	
19	
30	
19	
22	

INITIAL POST  
CINDY 16, 17

PROFILES

PPM Cu, Mo



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Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 33/9 MAP # 8

FIG. 2

SHOREWEST MINING CO. LTD.	
GEOCHEMICAL ASSAY DATA AND PROFILES CLINTON M.D.	
JOHN R. POLONI	B.Sc. P. ENG.
SCALE 1" = 1000'	OCT. 5, 1971

Sept. 21, 1971

Mr. J. Poloni,  
5502 - 8B Avenue,  
DELTA, B.C.

Lab No. 686G

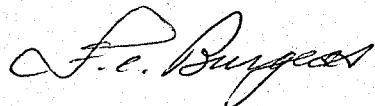
Geochemical analysis for molybdenum and copper

Mesh Size: - 80  
Analytical Method: Atomic Absorption + Colorimetric  
Digestion Method:  $\text{HClO}_4 + \text{HNO}_3$

Sample Marked:	Molybdenum ppm	Copper ppm	Sample Marked:	Molybdenum ppm	Copper ppm
C 1 2 + 00N	-2	22	C 1 36 + 00N	-2	23
4	-2	19	38	-2	32
8	-2	19	40	-2	34
10	No Sample		42	-2	18
12	-2	28	44	4	34
14	-2	24	46	-2	28
16	-2	29	48	-2	45
18	-2	54	50	2	30
20	-2	22	52	-2	25
22	2	92	54	2	35
24	2	52	56	2	28
26	-2	32	58	-2	20
28	-2	44	60	-2	31
30	-2	30	S # 1 60 + 00N	2	32
32	2	36	S # 2 54 + 00N	-2	35
34	-2	34			

Yours truly,

CREST LABORATORIES (B.C.) LTD.,



F.C. Burgess

Chief Assayer



Oct. 4, 1971

Mr. J. Poloni,  
5502 8B Avenue,  
DELTA, B.C.

Lab No. 702G

Geochemical analysis for molybdenum and copper

Mesh Size: - 80  
Analytical Method: Atomic Absorption + Colorimetric  
Digestion Method:  $\text{HClO}_4 + \text{HNO}_3$

<u>Sample Marked:</u>	<u>Molybdenum</u> <u>ppm</u>	<u>Copper</u> <u>ppm</u>
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6 + 00N

-2

30

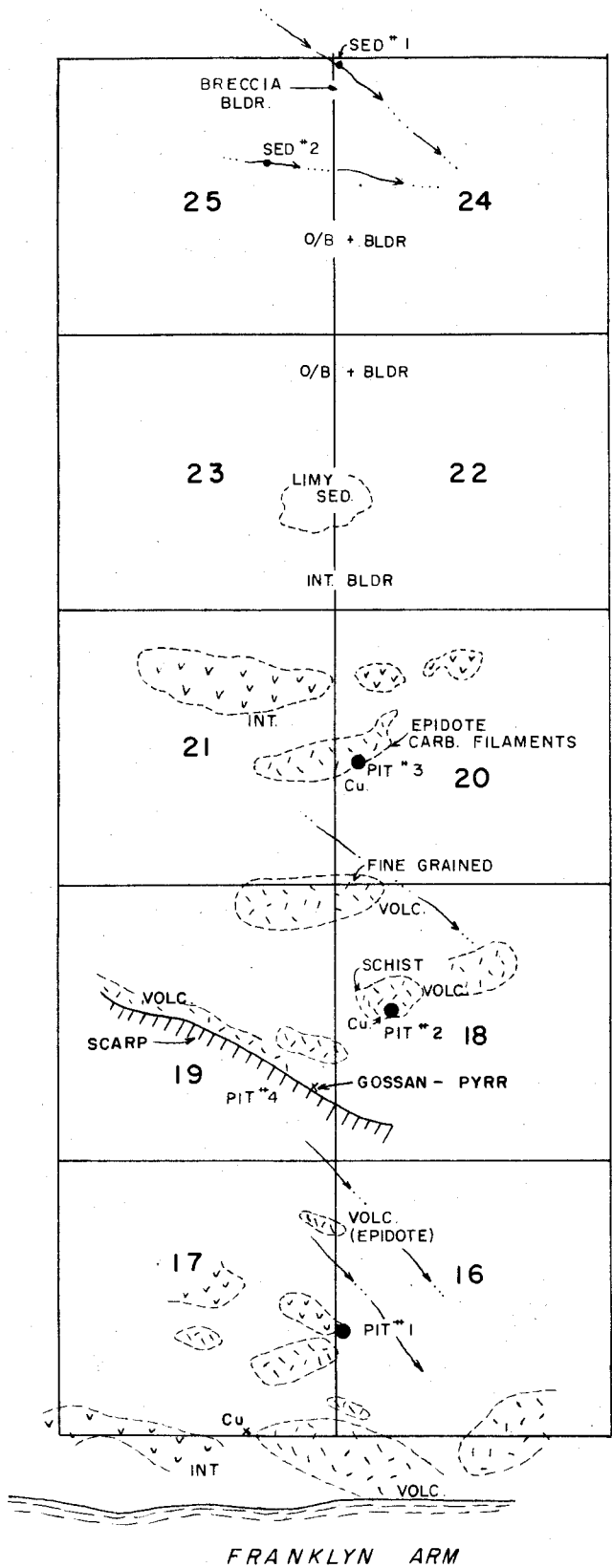
Yours truly,  
CREST LABORATORIES (B.C.) LTD.,



F.C. Burgess  
Chief Assayer

APPENDIX B

GEOCHEMICAL ASSAY DATA



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**ASSESSMENT REPORT**  
 NO. **3319** MAP # **3**



**LEGEND**

- INTRUSIVE, DIORITE, GRANODIORITE
- VOLCANIC

FIG. 3

SHOREWEST MINING CO. LTD.	
<b>GEOLOGICAL PLAN</b>	
CLINTON M. D.	
JOHN R. POLONI	B.Sc. P. ENG.
SCALE 1" = 1000'	OCT. 5, 1971

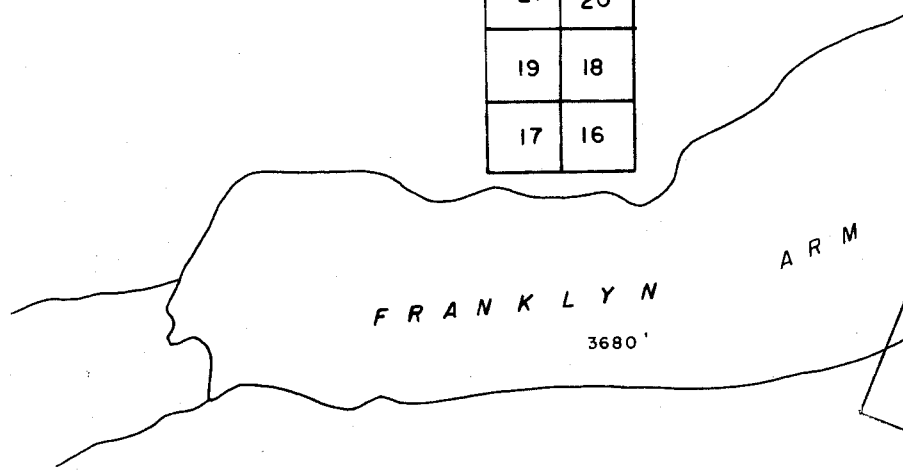
APPENDIX C

GEOLOGICAL PLAN

CLAIM MAP



40	38	37	36
41	39	35	34
32	30	29	28
33	31	27	26
		25	24
		23	22
		21	20
		19	18
		17	16



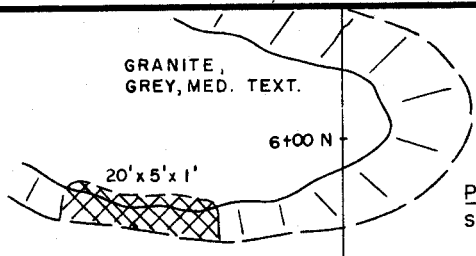
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3319 MAP # 4

FIG. 4

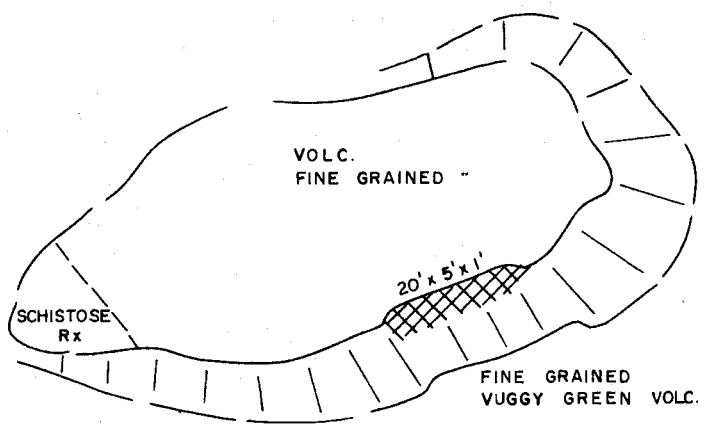
SHOREWEST MINING CO. LTD.	
CLAIM MAP	
CINDY CLAIMS	
CLINTON M. D.	
JOHN R. POLONI	B.Sc. P.ENG.
SCALE 1" = 4000'	OCT. 5, 1971

APPENDIX D

PLAN OF TRENCHES



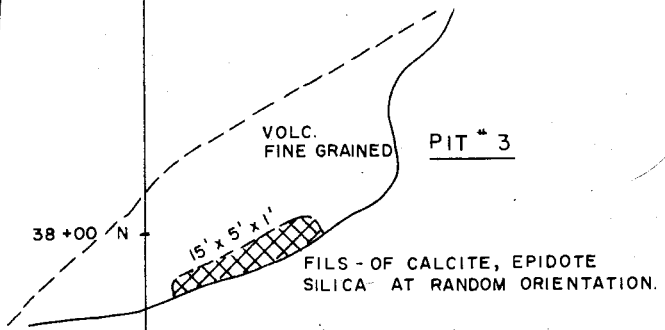
PIT # 1  
STA. 6+00



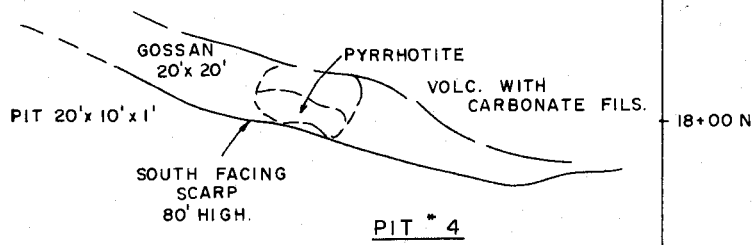
PIT # 2

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 3319 MAP # 5

24+00 N  
 BASE LINE



PIT # 3



PIT # 4

FIG. 5

<b>SHOREWEST MINING CO. LTD.</b>	
<b>PLAN OF PITS CINDY CLAIMS</b>	
CLINTON M. D.	
JOHN R. POLONI	B.Sc. P. ENG.
SCALE 1" = 20'	OCT. 5, 1971

APPENDIX E

REFERENCES



REFERENCES

Dolmage, V.

Summary Report 1924, Part A.  
Geological Survey of Canada.

Renshaw, R.E.

Geological Report on the Cindy  
Group, Franklyn Arm, Chilko  
Lake, B. C.  
December, 1969.

APPENDIX F

WRITER'S CERTIFICATE

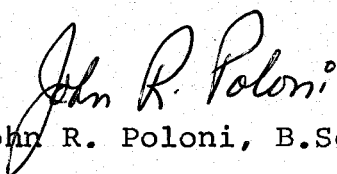
CERTIFICATE

I, John R. Poloni of 5502 - 8B Ave., in Delta  
in the Province of British Columbia

DO HEREBY CERTIFY that:

- 1) I am a Consulting Geologist.
- 2) I am a graduate of McGill University of Montreal, Quebec, where I obtained a B.Sc. degree in Geology in 1964.
- 3) I am a registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia.
- 4) I have practiced my profession since 1964.
- 5) I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
- 6) I have personally conducted the work programs reported on in this report.
- 7) I have no direct or indirect interest in any of the properties or securities of Shorewest Mining Co. Ltd., nor do I expect to receive any.

Dated this 8th day of October 1971

  
John R. Poloni, B.Sc. P.Eng.