

GEOLOGICAL & GEOCHEMICAL REPORT

on the

MEL & JEAN CLAIMS

Watson Lake M.D. 95 D-6.

Lat. 60°20' North. Long. 127°25' West.

Work Conducted Between

September 23, 1973 and October 20, 1973.

by

EMPIRE METALS CORPORATION LTD. (N.P.L.)

for

THE GRANBY MINING COMPANY LTD.

Field work supervised by:

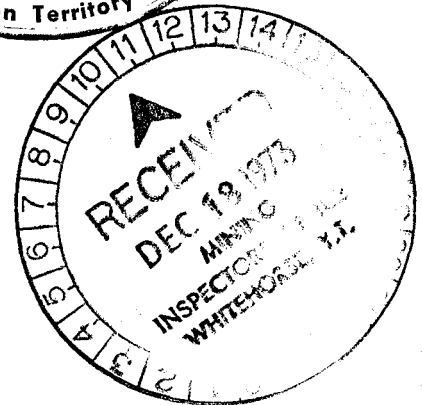
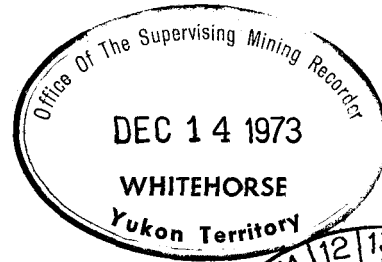
T.L. Sadlier-Brown - Geologist.

H.S. Aikins - Sr. Technician.

under the direction of:

E.O. Chisholm, M.A., P.Eng.

November 20th, 1973.



This report has been examined by the Geological Evaluation Unit and recommended to the Commissioner to be read as representation work in the amount of \$ 4690.18

[Signature]
 Resident Geologist or
 Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]
 Commissioner of Yukon Territory

060129

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Illustrations

- | | |
|---|----------------|
| Figure 1 - Claim Map | 1" = 1/2 mile. |
| Figure 2 - Geology (Regional) | 1" = 1/2 mile. |
| Figure 3 - Geological Map (with location index) | 1" = 100 feet. |
| Figure 4 - Geochemical Survey - Zinc Plot | 1" = 200 feet. |
| Figure 5 - Geochemical Survey - Lead Plot. | 1" = 200 feet. |

INTRODUCTION:

A geological examination of the showings now covered by the Jean and Mel claims was carried out by the writer during April of 1967. Results of a subsequent program of geological work, bulldozer trenching and geological sampling conducted by Newmont Mining were reviewed and summarized in a report prepared for Empire Metals Corporation Ltd. and dated May 22, 1973.

In September of 1973 Empire Metals Corporation Ltd. entered into an agreement with The Granby Mining Company Ltd. whereby "Empire" agreed to conduct further work consisting of geological mapping, geochemical sampling and trenching on behalf of "Granby".

This report is based on work conducted during the 1973 field season although data obtained from earlier sources has been utilized wherever applicable.

PROPERTY:

The property consists of 27 contiguous mineral claims located in the Watson Lake Mining District, Yukon Territory. Empire Metals Corporation Ltd. is holder of all claims subject to terms of the Yukon Quartz Mining Act. Particulars of the subject claims are recorded as follows:-

<u>Name</u>	<u>Record No.</u>	<u>Date Of Expiry</u>
Mel 11-16 inclusive.	Y 22230 - 35	October 20, 1973 - Note 1.
Jean 1- 4 inclusive	Y 72731 - 34	April 3, 1974)
Jean 5-10 inclusive	Y 72961 - 66	April 3, 1974) - Note 2.
Jean 11-15inclusive	Y 74418 - 22	October 15, 1974
Jean 16-21inclusive	Y 74423 - 28	October 15, 1974

Note 1. - One and one half claims years of work have been filed to bring these claims to a common anniversary date and subject to acceptance of this work, are therefore in good standing until April 3, 1975.

Note 2. Sufficient work has been performed on these to retain them in good standing for at least an additional year.

LOCATION AND ACCESS/

LOCATION AND ACCESS:

The property is situated some 50 miles E.N.E. of the community of Watson Lake in an area of moderate relief about four miles east of the Coal River.

The area of principal interest crosses Otter Creek at a point about $1\frac{1}{2}$ miles below Otter Lake which is accessible by fixed wing aircraft. Trails follow all major streams in the area as it is within an active trapline territory. Helicopters may be landed in cleared areas of several points on the property although the area is densely forested with spruce and balsam the principal species.

A winter tote road about 28 miles long was put in by Newmont Mining to connect with the Alaska Highway at mile 590.

The claims are shown on map 95 D-6 at approximate co-ordinates $127^{\circ} 25'$ west and $60^{\circ} 20'$ north. Elevations on the property extend from about 2900 to 4000 feet A.S.L. This area falls within the Hyland Plateau characterized by broad north trending valleys. To the south these valleys enter the Liard Plain, an undulating area of immature drainage and deep drift cover. Timber and gravel are abundant and south facing slopes are frost free for much of the year.

PREVIOUS WORK:

The presence of barite containing base metal values in this locality was known for some time prior to examination by the writer in 1967. During the 1967 field season the property was explored by Newmont Mining Ltd. Bulldozer stripping and trenching exposed mineralization in four locations over a strike length of about 1600 feet. Geological mapping and sampling indicated widths of 7.5 to 30.0 feet with Pb-Zn grades in the order of 5.0% combined Pb-Zn in a predominantly barite gangue.

The area has been mapped by the Geological Survey of Canada and a map and report were published in 1968 (Paper 68-38 and Map 11-1968).

GEOLOGY: /

GEOLOGY:

(a) General.

Host rocks in the area are lower Paleozoic carbonates and argillaceous sediments which occupy the southern part of the Selwyn basin. Northerly structural trends predominate.

Easterly directed thrust faults bound a folded sequence of middle Cambrian to lower silurian strata exposed along the Otter Creek valley. The barite-galena-sphalerite occurrence separates wavy banded, silty limestone and calcareous phyllite on the easterly, or footwall side, from a competent, massive, fine-grained, grey limestone on the west or hanging wall side.

(b) Showings.

Figure 3 summarizes current and previous work on all known mineral occurrences on the Mel-Jean group. Outcrop, although quite extensive, is normally confined to massive, limestone and wavy banded argillaceous limestone members. Several topographic lineaments may be observed in flying over the area and it is along one such lineament that the original barite-lead-zinc occurrence was discovered.

Trenching during the present program exposed 2 feet of yellowish boulder clay overlying a water worn bedrock surface composed of massive barite. The underlying barite exhibited a vuggy appearance near the surface while deeper exposures showed blebs and disseminations of sphalerite. Galena content proved more uniform and was frequently present at the bedrock surface. This trench located at 3 + 50 South was sampled by Sadlier-Brown and Aikins and results are shown on the enclosed assay certificate No. A23-711.

An occurrence of barite-sphalerite was located at 1 + 50 East on Line 10 + 00 North. About 18" of siliceous barite with heavily disseminated sphalerite formed the outer surface of a steep limestone bluff. A smaller mineralized occurrence was found in the same general setting about 60 feet to the south along the assumed strike. Both/

Both occurrences were trenched in an effort to determine the width of the zone at this point. While some angular mineralized float fragments were located the trenches did not reach bedrock. A character sample from this location is also reported on the enclosed assay certificate.

GEOCHEMISTRY:

(a) General.

Geochemical sampling carried out by Newmont Mining in 1967 revealed anomalous lead and/or zinc near the known mineral outcrops but several unexplained anomalies were also indicated. Present work was directed toward providing detailed, and closely controlled data on the nature of lead-zinc distribution as a guide to further work. A total of 127 samples were taken.

(b) Method.

A transit and stadia survey of the area adjacent to previous workings provided data for a base map and assisted in the location of the sample grid. 8000 feet of line was cut and pickets were erected at 100 foot intervals. Samples were taken every 50 feet where soil conditions were suitable. Sites not sampled included swamps, extensive outcrop and obviously disturbed or contaminated areas. A small folding shovel was used to excavate a pit 8 to 12 inches deep. Soil composition was variable as was the probable depth of the surficial cover. Samples were generally obtained at a depth of from 6 to 8 inches directly below the A₁ horizon. The B horizon was absent or indistinct, possibly due to a relative lack of iron in the source rocks.

All samples were placed in kraft bags and hung under cover to air dry. Samples were delivered to Vangeochem Lab. Ltd., 1521 Pemberton Avenue, North Vancouver, B.C. Analytical procedures are given in Appendix 1 together with results of all samples submitted.

(c) Results/

(c) Results.

Figures 4 and 5 provide an interpretation of the geochemical results obtained. Deviation between background and potentially anomalous values is so great that no statistical methods were employed in the interpretation and the anomalous threshold was selected on an arbitrary basis for both elements.

The correlation between anomalies thus defined and the known or inferred trend of the barite replacement zone is sufficiently strong to be of value. A series of anomalous zinc and lead values were obtained to the west of the known zone which appear to define a parallel trend. Several zinc values of potential interest were encountered on the east or footwall side.

SUMMARY:

The results of additional geochemical and geological surveys together with trenching and sampling carried out on the barite lead-zinc zone on the Jean and Mel claims of Empire Metals Ltd. since the May 22, 1973 report have indicated significant extensions to the main mineralized zone and the presence of a similar parallel zone that would provide substantial additions to the indicated tonnage. The main zone has now been indicated for a length of 1000 feet and a width of 25 to 36 feet. The tenor of the grade is in the order of 5% combined lead-zinc. Mineralization occurs in a high grade barite gangue with commercial possibilities.

A work program totalling \$30,000.00 is recommended consisting of additional trenching with a bulldozer followed by 1000 feet of diamond drilling.

CONCLUSIONS & RECOMMENDATIONS/

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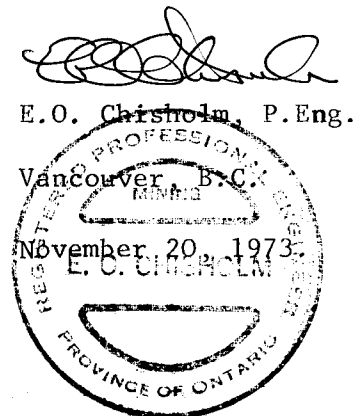
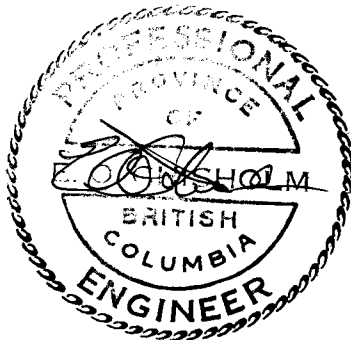
A systematic program of trenching is recommended along the main zone between cross trenches to provide continuity of sampling.

The parallel zone indicated by geochemical survey lying immediately to the west of the main zone should be cross trenched at 100 foot intervals and sampled.

In addition the main zone should be tested by diamond drilling - five short 200 foot holes.

Cost estimates are as follows:-

Bulldozer trenching 100 hrs. @ \$35 per hour	\$3,500.00
Diamond Drilling - 1000 ft. @ \$20 per foot.	\$20,000.00
Supervision	1,500.00
Assaying	1,000.00
Camp Cost	1,300.00
Travel	700.00
Contingencies	<u>2,000.00</u>
<u>TOTAL COST.</u>	<u>\$30,000 .00</u>



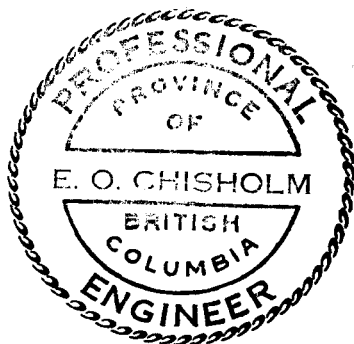
C E R T I F I C A T E

I, Edward O. Chisholm of the City of Vancouver in the Province of British Columbia, hereby certify that:

- (1) I am a geologist with offices at #821-602 West Hastings Street, Vancouver 2, B.C.
- (2) I am a graduate of the University of Toronto, Ontario Master of Arts, 1945.
- (3) I am a member of the Professional Engineers of Ontario and British Columbia.
- (4) I have no direct interest or indirect interest in the property or securities of Empire Metals Limited or its affiliates, nor do I expect to receive any such interest.
- (5) This report is based on personal examination of the property and a review of all data obtained during the 1973 program.

DATED AT VANCOUVER, BRITISH COLUMBIA.

November 26, 1973.




EDWARD O. CHISHOLM, P.Eng.

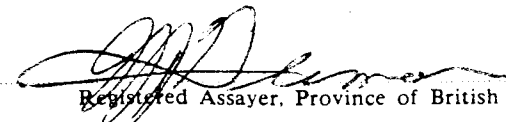
714 - 850 West Hastings Street
Vancouver 1, B. C.

CERTIFICATE OF ASSAY

Samples submitted: October 11, 1973
Results completed: October 18, 1973

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER	Pb	Zn	Specific Gravity	Percent	Percent	Percent	Percent	TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent					
	"From"	"To"	"True Width"								
Otter Lake 1+50E, 11+00N			"Character sample only"	0.12	11.0	2.98					
Jean Group Otter Lake ± 15 feet of face	7.5	15.0	7.5'	1.80	1.00	3.82	} "Weighted average" 1.41%Pb. 1.34% Zn. Sp. Gr. 3.93				
T - 5	15.0	20.0	5.0'	1.76	1.20	4.13					
F. W. East side from 0-7.5	0.0	7.5	7.5'	1.40	1.20	3.76					
New Trench ± 350 South L from 20 - 26.5	20.0	26.5	6.5'	0.70	2.00	4.12					


Registered Assayer, Province of British Columbia

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. 73-09-003 DATE Sept. 24, 1973
Job# 73-0293
SAMPLES SUBMITTED BY Mr. Sam Aikins COMPANY Aikins Explorations Services Ltd.
SHIPPED VIA Delivered FROM ----- Watson Lake
REPORT ON 9 samples for Pb Zn DATE SAMPLES ARRIVED Sept. 19, 1973

* * *

COPIES OF THIS REPORT SENT TO:

- (1) Mr. Sam Aikins
#715 - 850 W. Hastings St.
- (2) Vancouver, BC
- (3)

TRANSMITTED BY:

mail

SAMPLES SIFTED OR GROUND TO -80 MESH WEIGHT USED 0.50 g
FINAL VOLUME 10 ml ALIQUOT USED n/a

* * *

METHOD OF ANALYSIS: Instrumental Atomic Absorption Spec

EXTRACTION: Hot HClO₄-HNO₃ digestion

DETECTION: Techtron AA5 & AA1000

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: filed
(b) REJECTS: discarded

* * *

ANALYST(S) L.N. TYPIST dcw

SUPERVISING CHEMIST L. Nicol CHECKED BY C. CHUN

COSTS:

SHIPPING CHARGE	\$-----
SAMPLE PREPARATION	\$ 1.80
ANALYSIS	\$ 13.05
OTHER	\$ -----
TOTAL	\$ 14.85

SPECIALIZING IN TRACE ELEMENT ANALYSIS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. 73-09-004 DATE October 15, 1973
Job 73-310
SAMPLES SUBMITTED BY Mr. Sam Aikins COMPANY Aikins Exploration Services Ltd.
SHIPPED VIA picked up FROM _____
REPORT ON 118 samples for Pb, Zn DATE SAMPLES ARRIVED October 9, 1973

* * *

COPIES OF THIS REPORT SENT TO:

- (1) Mr. Sam Aikins
- #715 - 850 W. Hastings St.
- Vancouver, B. C.
- (3) _____

TRANSMITTED BY:

mail

SAMPLES SIFTED OR GROUND TO -80 MESH WEIGHT USED 0.50 g
FINAL VOLUME 10 ml ALIQUOT USED n/a

* * *

METHOD OF ANALYSIS: Instrumental Atomic Absorption Spec

EXTRACTION: Hot HClO₄ - HNO₃ digestion

DETECTION: Techtron AA5 and AA1000

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: filed

(b) REJECTS: discarded

* * *

ANALYST(S) L.N TYPIST mb

SUPERVISING CHEMIST I. Nicol CHECKED BY C. Cullen

COSTS:

SHIPPING CHARGE	\$
SAMPLE PREPARATION	\$
ANALYSIS	\$
OTHER	\$
TOTAL	\$

SPECIALIZING IN TRACE ELEMENT ANALYSIS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

COMPANY Aikins Explorations Services Ltd. REPORT No. 73-09-004 PAGE 1 OF 4

MARKING	Pb	Zn		
BL 2+00N	29	49		
4	77	154		
6	18	110		
9	76	595		
BL 10+00N	113	550		
BL 3+00S	50	560		
4	151	3000		
5	35	425		
6	104	1250		
7	25	205		
8+00S	15	245		
8+50S	21	178		
9+00	30	187		
9+50	8700	14200		
10+00	33	117		
BL 12+00S	18	80		
CL 17+00S, 1+50E	59	195		
17+00, 2+00E	37	144		
CL 3000, 5+00E	58	110		
CL 45S	19	60		

MARKING	Pb	Zn		
00 - 0+50W	2150	2650		
1+00	283	83000		
1+50	37	355		
2+00W	36	1280		
0+50E	35	83		
1+00	37	145		
1+50	35	127		
2+00	25	102		
2+50	20	110		
3+00	37	28		
3+50	32	74		
4+00	31	278		
4+50	20	102		
00 - 5+00E	30	425		
2E - 12+00N	23	28		
2N - 0+50E	29	53		
1+00	23	60		
1+50	31	100		
2N - 2+00E	5	770		

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

COMPANY Aikins Exploration Services Ltd. REPORT No. 73-09-004 PAGE 2 OF 4

MARKING	Pb	Zn			MARKING	Pb	Zn		
2N - 0+50W	30	540			4S - 2+00W	79	645		
1+00	----	---	no sample rock		6N - 0+50E	21	143		
1+50	----	-----	no sample rock		1+00	23	158		
2N - 2+00W	50	190			1+50	20	127		
4N - 0+50E	32	124			2+00E	20	112		
1+00	26	127			0+50W	32	164		
1+50	33	217			1+00	23	142		
2+00E	30	11700			1+50	700	440		
0+50W	168	8400			6N - 2+00W	185	490		
1+00	76	2150			6S - 0+50E	124	810		
1+50	54	370			1+00	67	495		
4N - 2+00W	89	260			1+50E	139	415		
4S - 0+50E	60	520			0+50W	76	1420		
1+00	122	480			1+00	55	880		
1+50	35	310			1+50	95	440		
2+50	31	207			6S - 2+00W	85	625		
3+00E	30	490			8N - 0	26	183		
0+50W	---	---	no sample rock		0+50E	31	253		
1+00	43	330			8N 1+00E	25	113		
4S - 1+50W	66	395							

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

COMPANY Aikins Exploration Services Ltd. REPORT No. 73-09-004 PAGE 3 OF 4

MARKING	Pb	Zn			MARKING	Pb	Zn		
8N - 1+50E	35	247			10S - 0+50E	4550	15500		
2+00	18	73			0+50W	28	96		
2+50E A	28	93	} Marked "A" and "B" in laboratory		1+00	30	225		
2+50E B	32	152			1+50	111	155		
3+00	30	243			10S - 2+00W	25	144		
3+50	55	74			12N - 1+50E	48	650		
8N - 4+00E	53	74			2+50	77	148		
8S - 0+50E	38	535			3+00	33	64		
1+00	33	283			3+50	32	73		
1+40E	36	280			4+00	34	1450		
8S - 0+50W	23	237			5+00	49	310		
1+00	73	850			5+50	55	1370		
1+50	68	355			12N- 6+00E	44	190		
8S - 2+00W	38	520			12N - 1+50W	108	8000		
10N - 1+50E	1260	4000			12S - 0+50E	30	355		
2+00	40	112			1+00	27	106		
2+50	37	43			1+50	30	125		
3+00	36	85			2+00	----	----	no sample	
3+50	32	75			12S - 2+50	----	---	no sample	
10N - 4+00E	24	67							

REMARKS

All values are reported in parts per million unless specified otherwise. * values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

CANADA)
)
YUKON TERRITORY)
)
TO WIT)
)

IN THE MATTER OF A GEOLOGICAL & GEOCHEMICAL
SURVEY OF THE MEL & JEAN MINERAL CLAIMS.

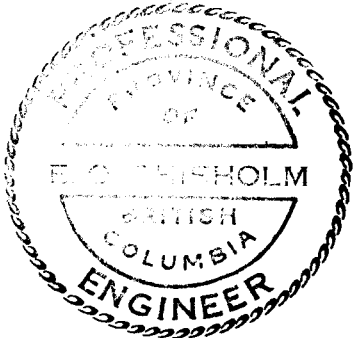
I, EDWARD O. CHISHOLM, of the City of Vancouver in the Province of
British Columbia

HEREBY MAKE OATH AND SAY AS FOLLOWS:-

That attached hereto, this my affidavit, marked Appendix 'A'
and 'B' respectively, is a list of Personnel Employed and
Statement of Costs Incurred, which I certify to be correct
to the best of my knowledge and belief.

SWORN before me at)
Vancouver, B.C.)
)
this 27th day of November, 1973.)

H.S. Aik >



APPENDIX 'A'

Statement of Personnel Employed in a Geological and Geochemical
Survey of the Mel and Jean mineral claims.

<u>Name</u>	<u>Address</u>	<u>Period.</u>
E.O. Chisholm, M.A., P.Eng.	821-602 West Hastings St. Vancouver 1, B.C.	May 22, 1973 and November 23-26, 1973.
T.L. Sadlier-Brown, Geologist.	1102-1307 Harwood St. Vancouver, B.C.	September 27-30, 1973. October 1 & 2, 1973. November 21-26, 1973.
H.S. Aikins, Sr. Technician.	376 East 4th St. North Vancouver, B.C.	September 26 - Oct. 20, 1973. November 20-26, 1973.
R.H. Presber, Sampler.	General Delivery Watson Lake, Yukon.	September 27 - Oct. 6, 1973.
Brian Cheney, Linecutter.	General Delivery Watson Lake, Yukon.	September 27 - Oct. 6, 1973.

APPENDIX 'B'

Statement of Costs Incurred in a Geological and Geochemical
Survey of the Mel and Jean mineral claims.

Applicable costs derived from the attached invoices are summarized
as follows:-

E.O. Chisholm	- Invoice of November 27, 1973	- \$ 75.00 ✓
T.L. Sadlier-Brown	- Invoice of October 12, 1973	- 808.17 ✓
	- Invoice of November 26, 1973	- 60.00 ✓
H.S. Aikins	- Services - Inv. - Oct.22, 1973	- 1400.00 ✓
	- Disbursements-Inv-Oct.22, 1973	- 1148.03 ✓
	- Services & Disbursements -Inv-Nov.26,1973	- 244.44 ✓
R.H. Presber	- Wages (Less Advances)	- 213.26
B. Cheney	- Wages (Less Advances)	- 246.93
H.S. Aikins Exploration Services Ltd.	- Disbursements -Inv.-Oct.25,1973 (Assay & Analytic Costs).	- 272.05
Watson Lake Flying Services Ltd.	- September charter ticket No.8910	- 187.20 ✓
	- October charter ticket No.8955	- 41.60 ✓
Frontier Helicopter Ltd.	- Statement of October 10, 1973	- <u>895.00</u> ✓
	Total Cost Incurred Including Physical Work	- \$5591.68
	<u>Less</u> Portion Credited to Trenching	- <u>901.50</u>
	Portion Applicable to Geochemical and Geological Survey.	- <u>\$4690.18</u>

E. O. Chisholm, M.A., P.Eng.
821-602 West Hastings Street
Vancouver 1, B.C.

November 27, 1973.

Empire Metals Corporation Ltd. (N.P.L.)
c/o. John C. Oswald & Co.
635-789 West Pender Street
Vancouver 1, B.C.

Re: Geochemical Report - November 20, 1973.

Professional Services.	<u>\$75.00</u>
<u>ACCOUNT RENDERED.</u>	<u>\$75.00</u>

Handwritten note: \$75.00

FRONTIER HELICOPTERS LTD.



CHARTER FLYING

PHONE 536-7305
BOX 10 WATSON LAKE Y.T.

October 10, 1973

H.S. Aikens Exploration Services Ltd
715 - 850 West Hastings Street,
Vancouver, B.C.

DATE		DEBIT	CREDIT	BALANCE
TO COVER CHARTER FLYING SERVICES				
September 27/73	Charter Ticket No. 04815 -----	475. 00		
October 3/73	Charter Ticket No. 05646 -----	220. 00		
October 6/73	Charter Ticket No. 06017 -----	200. 00		
Total this invoice -----				<u>\$895. 00</u>
<i>original to Oswald.</i>				



STATEMENT

Watson Lake Flying Services Ltd.

BOX 7

WATSON LAKE YUKON TERRITORY
CHARTER FLYING TELEPHONE 8-2246

TO: EMPIRE METALS CORP. LTD.
ATTN: H.S. AIKINS
715-890 West Hastings St.
Vancouver B.C.

For Flying In October Nov. 19, 19 73

DATE	TICKET NO.	DEBIT	CREDIT	BALANCE
October 12	8955 HCM			\$ 41.60
				<hr/>
1.5% interest charged on overdue account				

*Pd by Oswald
&
Co.*



STATEMENT

Watson Lake Flying Services Ltd.

BOX 7

WATSON LAKE
CHARTER FLYING

YUKON TERRITORY
TELEPHONE 8-2246

Empire Metals Corp. Ltd.

TO:

H.S. Aikins
715 - 850 West Hastings St.
Vancouver 1, B.C.

For Flying In September

3 October, 19 73

DATE	TICKET NO.	DEBIT	CREDIT	BALANCE
Sept. 27	8910 FLN			\$ 187.20
<i>PAID DIRECT BY OSWALD & Co.</i>				
1.5% interest charged on overdue account				

H.S. AIKINS
715-850 West Hastings Street
Vancouver 1. B.C.

IN ACCOUNT WITH :

Empire Metals Corporation Ltd. (N.P.L.)
c/o John C. Oswald & Co.,
635-789 West Pender Street,
Vancouver 1. B.C.

October 22, 1973

RE: SERVICES AND EXPENSES

- MEL, JEAN Claims (Geochemical Survey)

Period ending October 20, 1973

Services, Sr. Engineering Technician -

2 days - travel & preparation

3 days - Watson Lake, mobilization & demobilization

10 days - Field work, Otter Lake

4 days - office compilation

18 days @ \$75.00 per day \$ 1,350.00

Expenses, Field cost -

Meals, 5 days @ \$10.00 per day 50.00

Account rendered 1,400.00

Less Payment - Aikins, Sadlier-Brown (part) 1,000.00

BALANCE OWING \$ 400.00

H.S. ATKINS
715-850 West Hastings Street
Vancouver I. B.C.

IN ACCOUNT WITH :

Empire Metals Corporation Ltd. (N.P.L.)
c/o John C. Oswald & Co.,
635-789 West Pender Street,
Vancouver I. B.C.

October 22, 1973

RE : DISBURSEMENTS - MEL, JEAN Claims (Geochemical Survey)

Sept. 13	- B.C. Industries #11833		
	4 rolls survey thread	\$	19.95
" 24	- Vangeochem Labs Ltd. #2696		
	Analytical costs - 9 samples		14.85
" 24	- Canamet Sales #2160 + Freight		
	3 pieces drill steel		72.33
" 25	- Yukon Explosives Ltd. #09836 + Freight		
	6 ctns explosives		231.21
" 25	- Gilchrist Bldg. Supplies Ltd. #4656		
	Camp equipment		147.85
" 25	- Cedar Lodge Motel #6576		
	Drill repair		2.50
" 26	- Northern Metallic Sales #39126		
	Camp equipment		8.05
" 27	- Thompsons Yukon Foods Ltd. #50		
	Supplies & groceries		14.86
" 27	- Watson Lake Motors #40272		
	Gasoline (for drill & saw)		5.00
" 27	- Camp-Ground Services #35		
	Groceries		136.43
" 27	- Watson Lake Hotel #32269		
	Meals for crew		10.00
" 27	- Cedar Lodge Motel # 45474		
	Lunch for crew		7.75
" 23)	- C.P.A.		
Oct. 7)	Flight ticket & baggage		160.00
" 6	- Sportsman Motel		
	Accommodation & phone		82.30
" 6	- J. Molnychuk		
	Expediting & taxi		50.00
" 6	- Payroll advances		
	Presber & Cheney		175.00
" 6	- Richmond Cabs		
	Airport		9.95
			<hr/>
	ACCOUNT RENDERED	\$	<u>1,148.03</u>

T.L. SADLIER-BROWN

IN ACCOUNT WITH :

Empire Metals Corporation Ltd. (N.P.L.)
c/o John C. Oswald & Co.,
635-789 West Pender Street,
Vancouver 1. B.C.

October 12, 1973.

RE: FEES AND EXPENSES

- MEL, JEAN Claims Work Program, Watson Lake Area, Y.T.

FEES :

September 27 - 30, October 1 & 2

6 days @ \$75/diem \$ 450.00

EXPENSES :

October 2, 1973 Air fare (Vancouver/Watson) 77.00 (1)
Cab fare (Vancouver) 6.00

October 10, 1973 Employee deductions
re: payroll record (paid by
Sadlier-Brown accountant)
Ron Presber 64.34 (2)
Brian Cheney 128.07 (3)
Accounting costs @ 10% 82.76

TOTAL FEES AND EXPENSES 808.17

Less RECEIVED IN ADVANCE 500.00

BALANCE \$ 308.17

T.L. SADLIER-BROWN
1102 - 1307 Harwood St.
Vancouver, B.C.

November 26, 1973.

IN ACCOUNT WITH:

Empire Metals Corporation Ltd.(N.P.L.)
c/o. John C. Oswald & Co.
635-789 West Pender Street
Vancouver, B.C.

Re: Mel & Jean claim Group, Geological Map.

FEES: Office studies and map preparation. \$60.00

ACCOUNT RENDERED. \$60.00

H.S. AIKINS
376 East 4th St.
North Vancouver, B.C.

November 26, 1973.

IN ACCOUNT WITH:

Empire Metals Corporation Ltd.
c/o. John C. Oswald & Co.
635-789 West Pender Street
Vancouver, B.C.

Re: Mel & Jean claim Group, Geological & Geochemical Survey.

Services: Sr.Eng. Technician.

Drafting and Map preparation	
3 days @ \$75.00 per day.	\$225.00.

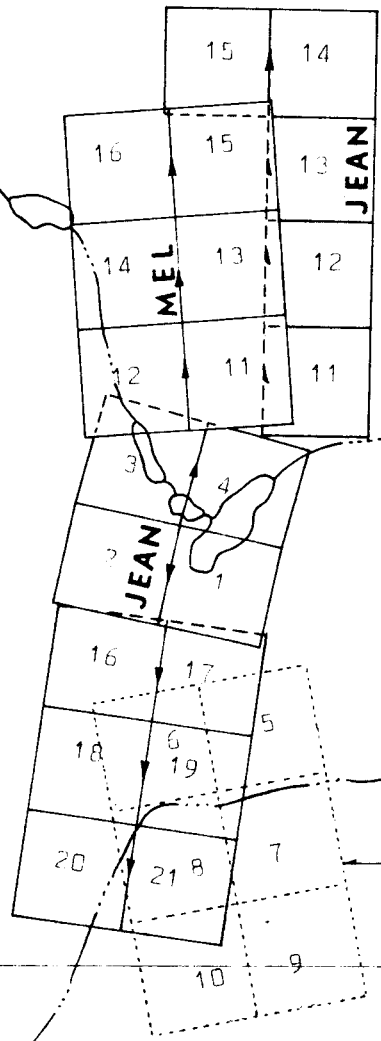
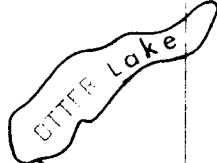
Disbursements:

Outside Printing, Western Reproducers	
\$5.88 + \$1.06.	\$6.94
125 copies of text @ 10¢ per copy.	<u>12.50</u> <u>19.44.</u>

ACCOUNT RENDERED.

\$244.44

127° 25'



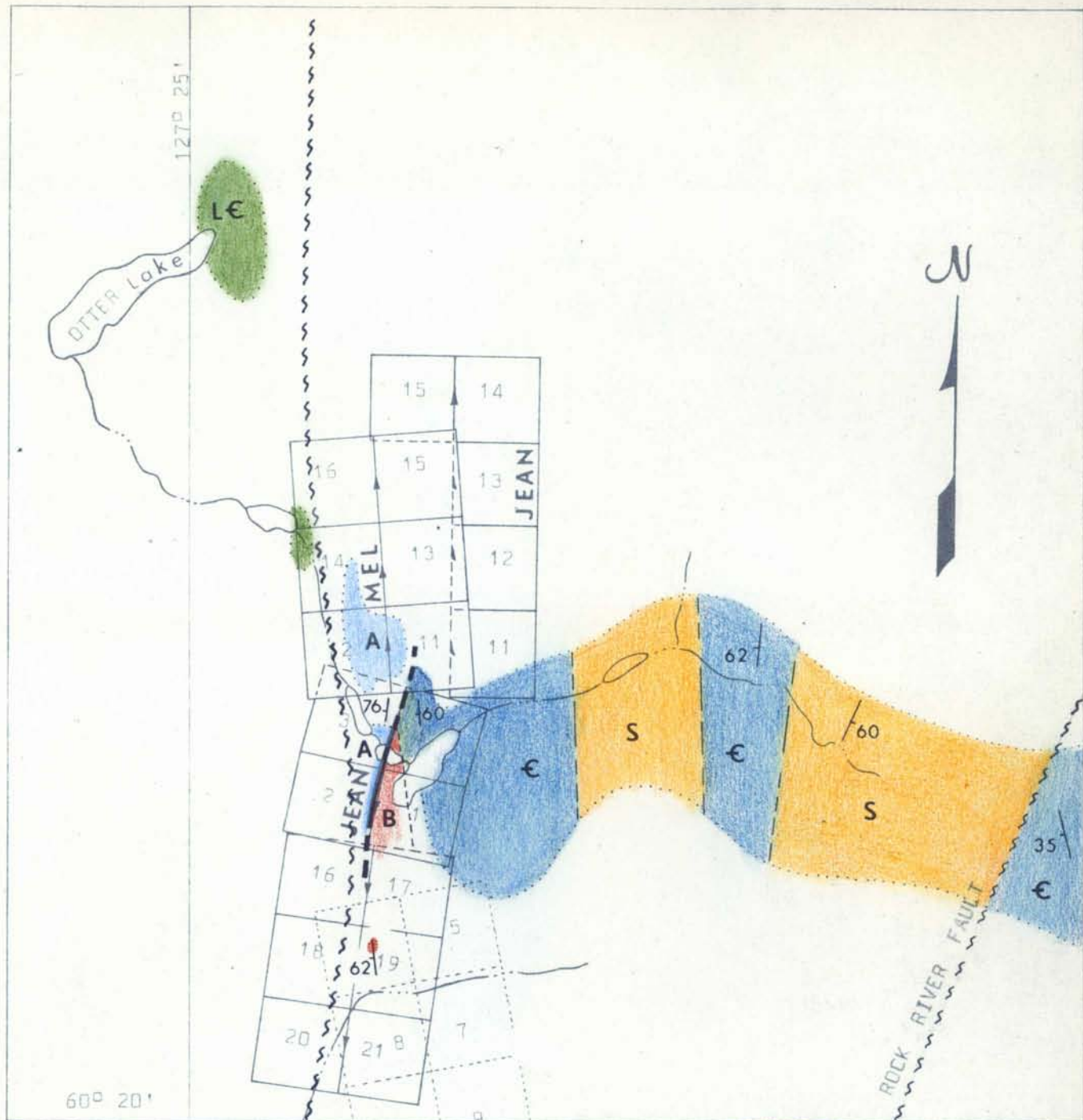
Location of these claims has not been confirmed

60° 20'



EMPIRE METALS CORP. LTD. (N.P.L.)	
MEL & JEAN - CLAIM MAP	
Watson Lake M.D.	95 D-6
E.O. CHISHOLM M.A. P. ENG.	
November 1973	<p>scale - miles</p>

Fig. 1



LEGEND

- S Black, fetid dolomite, chert
- E Wavy banded silty limestone
- L€ Grey, fg., fossiliferous limestone
- A Lt. to med. grey mass. Ls.
- B Calcareous phyllite
- Zone of barite-ZnS-PbS



EMPIRE METALS CORP. OF CANADA (N.P.L.)

MEL & JEAN - GEOLOGY

Watson Lake M.D. 95 D-6

E.O. CHISHOLM M.A. P. ENG.

After G.S.C. Map 11 - 1968

November 1973

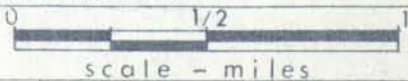
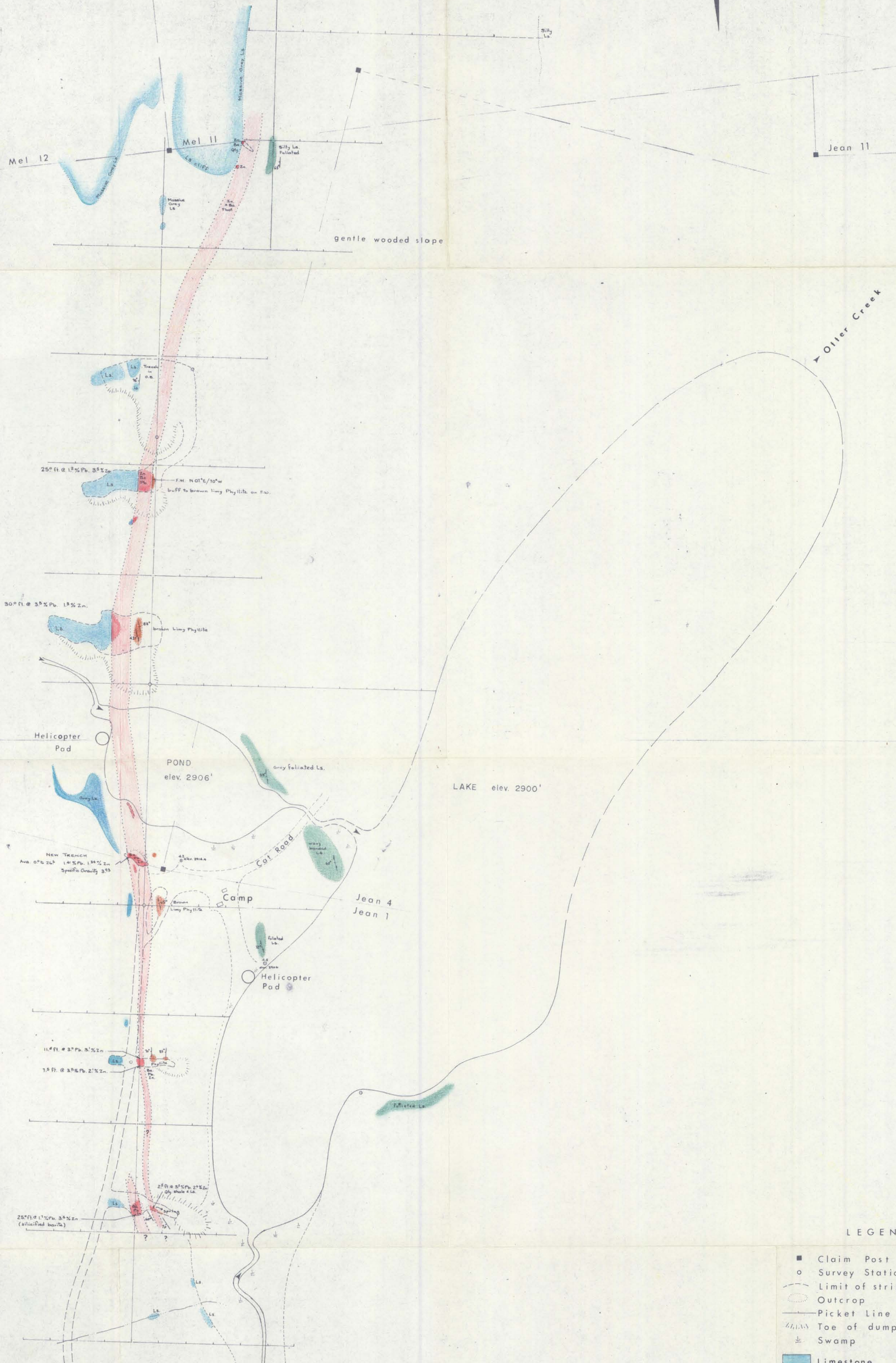


Fig. 2

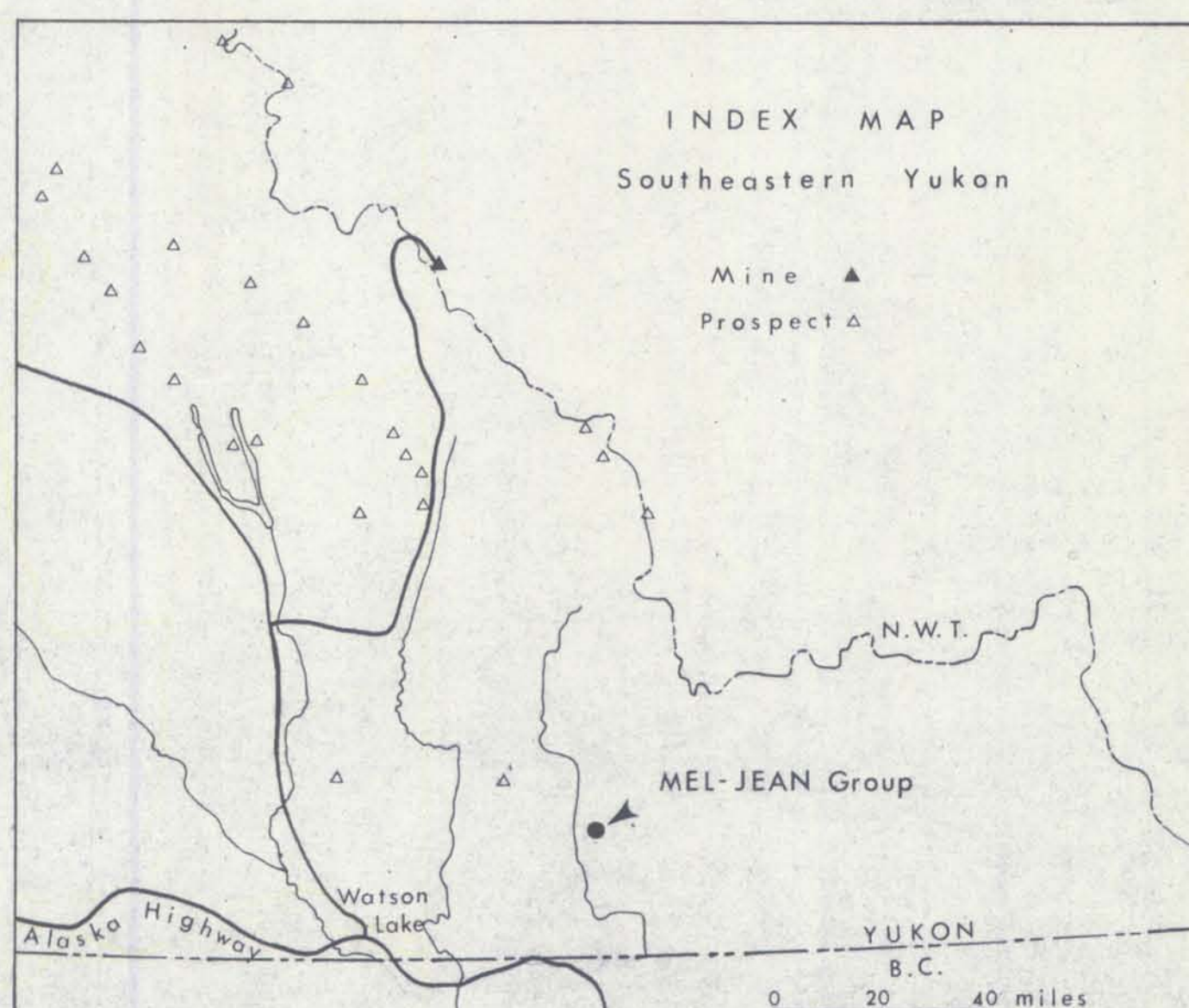


12+00 N
10+00 N
8+00 N
6+00 N
4+00 N
2+00 N
0+00
4+00 S
6+00 S
8+00 S
10+00 S
12+00 S



LEGEND

- Claim Post
- Survey Station
- - - Limit of stripping
- Outcrop
- Picket Line
- Toe of dump
- ≡ Swamp
- Limestone
- Phyllite
- Argillaceous Limestone
- Barite - Sphalerite - Galena



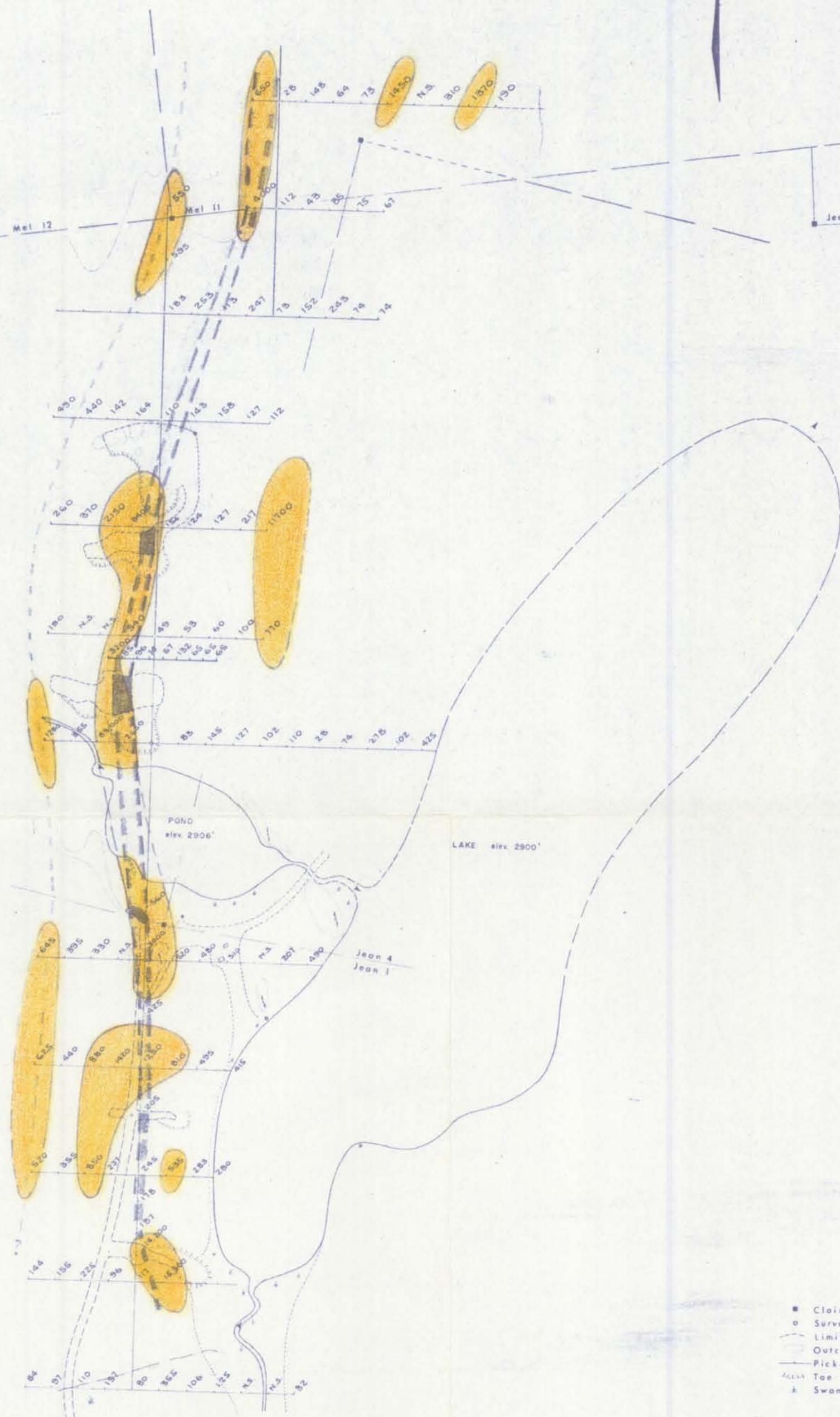
EMPIRE METALS CORPORATION LTD. (N.P.L.)
work conducted for
THE GRANBY MINING COMPANY LTD.

**MEL & JEAN CLAIMS
GEOLOGICAL MAP**

Watson Lake M.D., Yukon 95 D-6
E.O. CHISHOLM M.A. P. ENG.
November 1973 SCALE - 0 50 100 200 feet



12+00 N
10+00 N
8+00 N
6+00 N
4+00 N
2+00 N
0+00
4+00 S
6+00 S
8+00 S
10+00 S
12+00 S



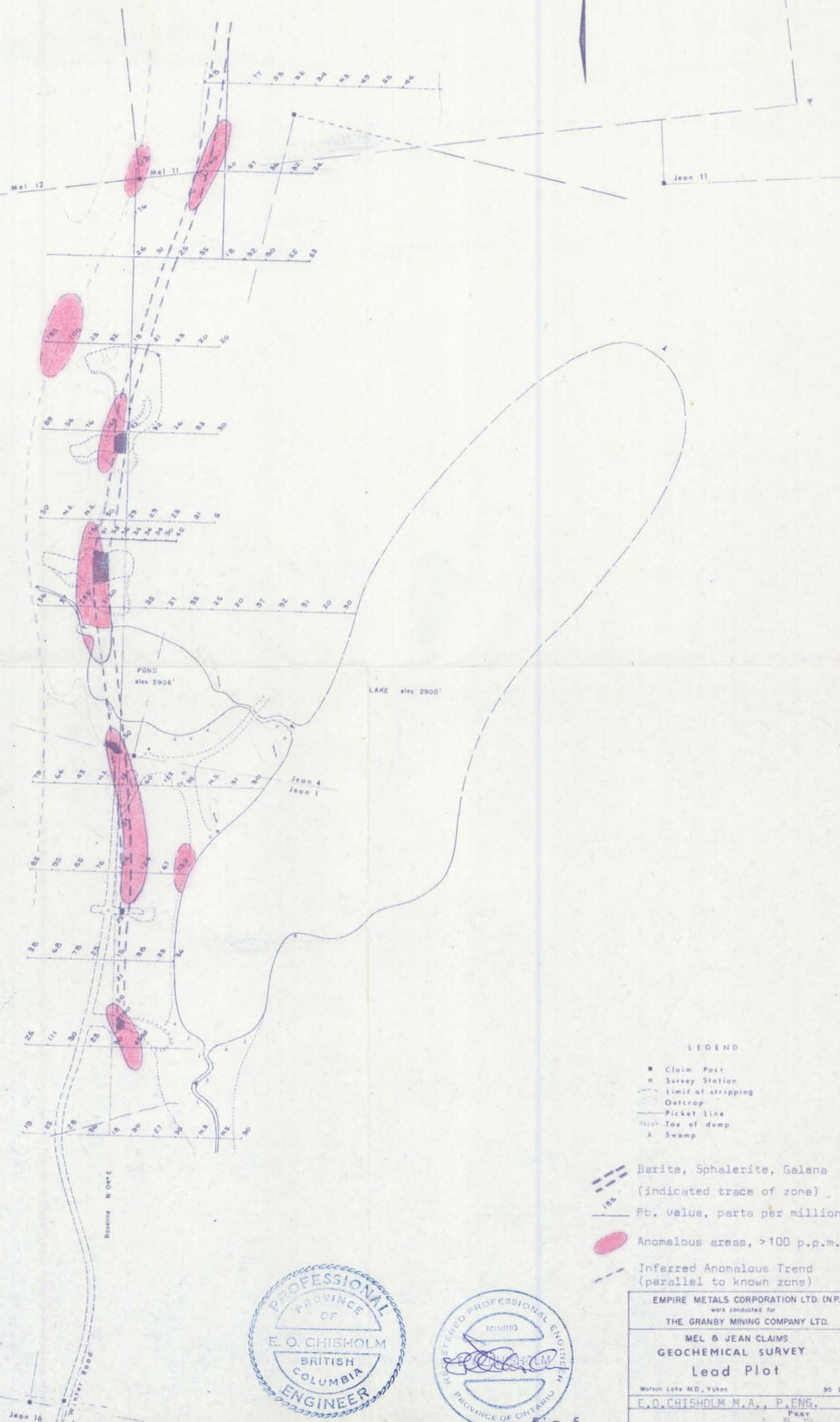
- LEGEND
- Claim Post
 - Survey Station
 - - - Limit of stripping
 - Outcrop
 - - - Picket Line
 - ▲▲▲▲ Toe of dump
 - ▲ Swamp
 - - - Barite, Sphalerite, Galena (indicated trace of zone)
 - 535 Zn. value, parts per million
 - Anomalous area, >500p.p.m.
 - - - Inferred Anomalous Trend (parallel to known zone)



EMPIRE METALS CORPORATION LTD. (NPL.)
work conducted for
THE GRANBY MINING COMPANY LTD.
MEL & JEAN CLAIMS
GEOCHEMICAL SURVEY
Zinc Plot
Watson Lake M.D., Yukon 95 D-6
E.O. CHISHOLM M.A., P. ENG.
Nov 1973 SCALE 1" = 200' 200'



12+00 N
10+00 N
8+00 N
6+00 N
4+00 N
2+00 N
0+00
4+00 S
6+00 S
8+00 S
10+00 S
12+00 S



- LEGEND
- Claim Post
 - Survey Station
 - - - Limit of stripping
 - Outcrop
 - Picket line
 - ▬ Toe of dump
 - ⊕ Swamp
-
- - - Barite, Sphalerite, Galena (indicated trace of zone)
 - 185 Pb. value, parts per million
 - Anomalous areas, >100 p.p.m.
 - - - Inferred Anomalous Trend (parallel to known zone)



EMPIRE METALS CORPORATION LTD. (N.P.L.)
work conducted for
THE GRANBY MINING COMPANY LTD.

MEL & JEAN CLAIMS
GEOCHEMICAL SURVEY
Lead Plot

Watson Lake M.D., Yukon 95 D-6
E. O. CHISHOLM M.A., P. ENG.
Nov 1973 SCALE: 1" = 100'

Fig. 5