GEOLOGICAL AND GEOCHEMICAL REPORT

Joni, Keli, Edy, Hose, Jeri, Sin, Ott, Tomi, Yang,
Ralfo, Mumbo, Chungo and Boz Claims

Claim Sheet 95 D/6

Latitude 60° 23'

Longitude 127° 20'

Yukon Territory

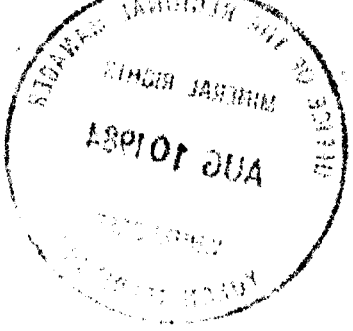
Covering work completed during May 26 - July 27, 1984

By D. C. Miller

Submitted July 27, 1984

SULPETRO MINERALS LIMITED

Kamloops, B. C.



This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 18,600.00.

K. Grapes

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

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ILLUSTRATIONS

APPENDIX

LOCATION AND ACCESS

The claims are located 80 km eastward of Watson Lake, Yukon. Access is by helicopter or some 40 km of winter road leading from the Alaska Highway at Contact Creek.

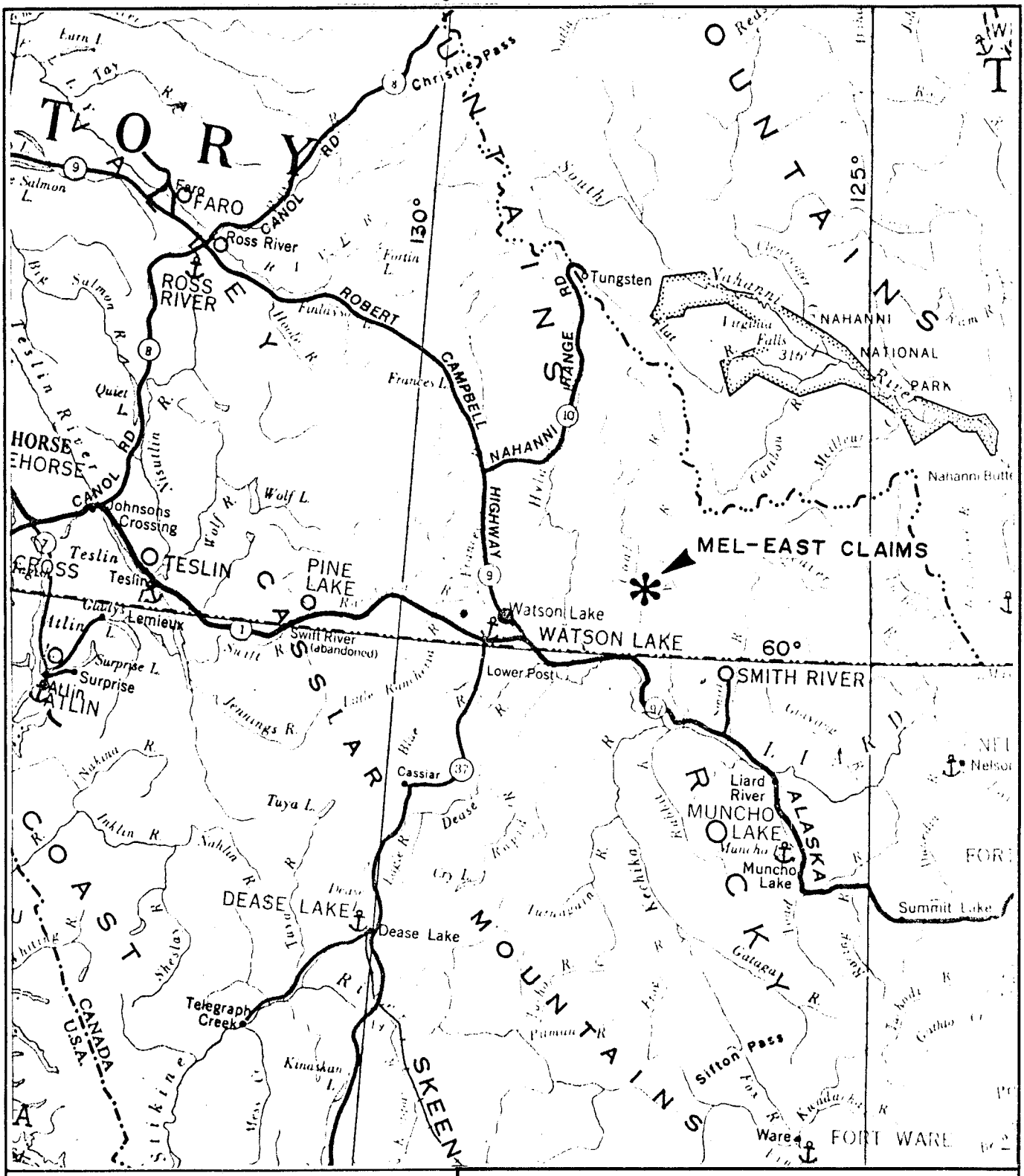
PHYSIOGRAPHY

The claims are drained by Otter Creek and its tributaries. Topography is mountainous with relief in the order of 300 m. Some 50% of the claim block (western portion) was burned by a forest fire in July, 1982. The remainder was burned about 1947. The recent fire also destroyed the log cabins and core stored at the adjoining Mel property.

PROPERTY

The property includes the following adjoining claims:

Claim Name	Grant No.	Anniversary Date
Keli 1 - 4	YA 66842-45	August 10
Joni 1 - 8	YA 66846-53	August 10
Hose 1 - 8	YA 66919-26	August 24
Keli 5 - 8	YA 66927-30	August 24
Jeri 1 - 8	YA 66931-38	August 24
Ralfo 1 - 7	YA 66939-45	August 24
Chungo 1 - 8	YA 66946-53	August 24
Ott 1 - 8	YA 66954-61	August 24
Edy 1 - 7	YA 66962-68	August 24
Tomi 1 - 8	YA 66969-76	August 24
Mumbo 1 - 8	YA 66977-84	August 24
Boz 1 - 4	YA 66985-88	August 24
Sin 1 - 8	YA 66989-96	August 24
Yang 1 - 6	YA 66997-YA 67002	August 24
TOTAL 96 claims		



Scale: 1" = 50 miles

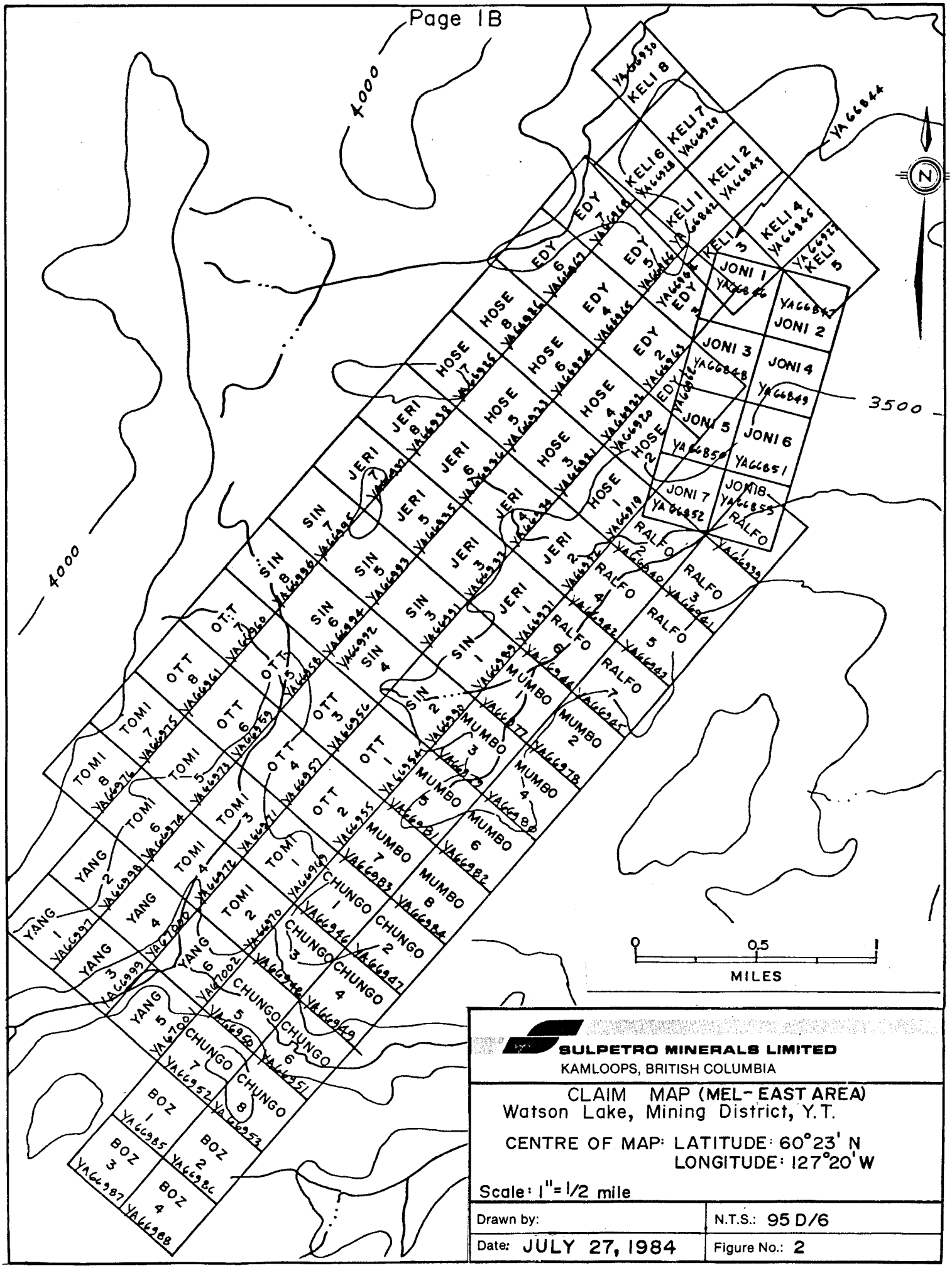
0 100 miles

SULPETRO MINERALS LIMITED
KAMLOOPS, BRITISH COLUMBIA

MEL-EAST CLAIMS

Project no. 6251

Drawn by: M.R.H.	N.T.S.: 95 D/6
Date: JULY 27, 1984	Figure No.: 1



SULPETRO MINERALS LIMITED
KAMLOOPS, BRITISH COLUMBIA

CLAIM MAP (MEL-EAST AREA)
Watson Lake, Mining District, Y.T.

CENTRE OF MAP: LATITUDE: 60°23' N
LONGITUDE: 127°20' W

Scale: 1" = 1/2 mile

Drawn by:	N.T.S.: 95 D/6
Date: JULY 27, 1984	Figure No.: 2

HISTORY

In 1981, during regional silt follow-up, smithsonite mineralization was discovered at the top of a cryptograined limestone unit at the contact with the wavy banded limestone unit. This occurrence is apparently at the same stratigraphic level as the Mel deposit located some 7 km to the southwest. Three grab samples from three separate, small outcrops averaged 9.6% zinc, less than 0.1% lead, 0.03 oz/ton silver and 0.03% barium. The new zone was called the Mel-East. Subsequently, 96 claims were staked to cover the new occurrence and its down-dip projection.

In 1982, a limited soil sampling program indicated anomalous zinc values along the favourable contact for several hundred metres.

In 1983, further soil and silt sampling was done on the Ralfo and Mumbo claims in an attempt to locate the source of high zinc geochemical values in streams. Also, geological mapping was done near the Mel-East showing and on the Ralfo and Mumbo claims. Additional bedrock sampling was done on the Mel-East and values ranged from 0.05 to 5.38% zinc. The mineralization is poorly exposed in a few small outcrops.

SUMMARY OF CURRENT WORK

In June, 1984, further soil and silt sampling was done on the Ralfo, Mumbo, Jeri, Hose, Sin, Edy, Keli and Joni claims. Previously, on the Ralfo and Mumbo claims, soil lines A, B, C, D and E were spaced 450 m. apart. Old line C was designated R77N and 16 additional, fill in soil lines, spaced 100 m. apart, were run from

R69N to R85N and soils were collected at 25 to 50 m. intervals along these lines. South of R69N, two lines were put in 200 m. apart with soil samples at 50 m. intervals.

The N grid was developed to cover smithsonite mineralization found by D. Miller on June 18, 1984, on the Jeri claims. The initial post of the Jeri 4 claim was designated N100N, 100E and a flagged baseline was extended south to N96N and north to N109N from this point. From 96 to 105 north, 10 crosslines 100 m. apart and mainly 200 m. long were sampled at 25 m. intervals. Two additional lines, 200 m. apart, were done at 107N and 109N and were sampled at 25 m. intervals.

In total, 384 soils were collected from the R and N grids. A total of 3400 m. of baseline was flagged and chained and 9850 m. of crosslineswere flagged and soil sampled using topofil distance metres.

Additionally, 30 stream silt samples were collected and geological mapping was done over all grid lines. Four reconnaissance geological traverses were also done well beyond the grid areas. Also, 8 chip samples were collected from mineralized outcrops on the Jeri claims.

The results of 1984 work are shown on 4 maps (maps 1 to 4) in the pocket of this report. Also shown on 3 of these maps, are the previous 1982 and 1983 grid lines for reference.

GEOLOGY

Introduction

In 1983, fossils collected from cryptograined limestone near the Mel-East occurrence and near the Mel deposit were dated by B.S. Norford of the G.S.C. in Calgary (Report No. C-01-BSN-1984 March 22, 1984). Undetermined brachiopods near Mel-East were dated latest, Late Cambrian to Early Ordovician, probably later. Debris of trilobites and inarticulate brachiopods from near the Mel were dated probably Late Cambrian or Early Ordovician.

In 1984 mapping, a dolomite-limestone bed, apparently equivalent to similar beds at Mel-East and Mel, was located and traced for 2700 m. through the Jeri, Hose and Edy claims (Map 3 of 4).

Three occurrences of smithsonite mineralization were found in this bed: at N99N to N100.3N, 100E; N103N, 100E; and on the Hose 8 claim (Map 3). In all occurrences, the mineralization is in the upper part of the bed near the contact with the overlying wavy banded limestone.

Below this bed, rocks mapped include sandstone, siltstone, dolomite, limestone and slate. These rocks are considered to be of Lower Cambrian age while the mineralized bed is considered to be Late Cambrian to Early Ordovician. The Lower Cambrian rocks are in fault contact with wavy banded limestone to the east. A strong lineament below the base of mineralized bed is interpreted as a fault (Map 3).

The following Table of Formations correlates property geology with G.S.C. mapping reported in GSC Paper 68-38, Coal River map-area.

Table of Formations

Period	GSC Map Unit	Property Map Unit	Lithology	Thickness (metres)
Late Cambrian and Ordovician	8	6	Wavy banded limestone	800 +
	5	5	Fine grained limestone & dolomite	80-150 +
Lower Cambrian	5	4	Fine grained sandstone	20 +
	4?	3a	Limestone	80 +
		3b	Dolomite	220 +
	4?	2	Sandstone	10 +
	4?	1	Slate	150 +

Stratigraphy

Unit 1

Unit 1 consists of brown and rusty-weathered, light grey, non-calcareous slate with cleavage nearly at right angles to bedding. It occurs on the Hose and Edy claims and is in fault contact with younger wavy banded limestone to the east.

Unit 2

Unit 2 consists of light grey, dolomitic sandstone and was seen only in one outcrop on the Edy 5 claim.

Unit 3a

Unit 3a consists of light grey to white, fine grained dolomite with minor sandy dolomite.

Unit 3b

Unit 3b consists of pink and grey limestone and was seen only in three small outcrops on the Ralfo 4 and 6 claims.

Unit 4

Unit 4a consists of fine grained, brown weathered sandstone and was seen in three widely spaced outcrops.

Unit 5

Unit 5 consists of: (5a) light grey, grey weathered, fine-grained limestone; (5b) dolomite and dolomitic limestone; (5c) silicified, dolomitized limestone and (5d) silicified, dolomitized limestone containing smithsonite mineralization.

Unit 6

Unit 6 consists of distinctive wavy banded, silty, light and dark grey limestone.

Structure

Beds trend northerly and dip from 30° west to vertical. A major fault is interpreted trending northerly through the Joni and Ralfo claims. This fault separates Lower Cambrian slate to the west from Late Cambrian to Ordovician wavy banded limestone to the east. A second, north trending fault is interpreted through the Mumbo 1 and 3, Jeri 1 and 2 and Hose 3 and 4 claims. Rocks east of this fault are interpreted to be thrown up with respect to rocks to the west.

A third, easterly trending fault is interpreted through the Sin 1 claim with apparent left lateral displacement of 250 m. as measured by a shift in the wavy banded limestone.

Mineralization and Alteration

A total of 8 rock samples, each about 4 pounds, were chipped from mineralized outcrops on the Jeri claims (Map 4). Results are summarized in the following table:

	Sample Nos.	Grid Location	Approx.True Width (m)	% Zinc	% Lead
	18501-504	N100+15N, 100E	10.9	13.3	0.015
*	18505-506	N 99N, 100E	5.4	8.8	0.02
*	18507-508	N102+75N,100+15E	4.5	10.6	0.01

*weighted average

A composite sample of 18501 - 18508 inclusive assayed 0.01 oz/ton silver and 0.02% barium.

Mineralization consists of smithsonite and hydrozincite in silicified dolomite. Mineralization occurs as veins and irregular blobs up to 1 m. thick and weathers pale grey, brown and dark grey. Host rocks are medium grey with numerous small vugs (less than 1 mm) which may contain rusty carbonate. Both mineralization and host rocks are cut by a network of quartz-carbonate veins up to several cm in width.

Small outcrops and float suggest mineralization is fairly continuous from grid station N 99 N to N 100+50N. Between N 100+50N and N 102+75N no outcrops were seen. The true width and length of the mineralization are unknown because of soil cover.

GEOCHEMISTRY

General

Soils were collected from the B and C horizons at depths ranging from 5 - 30 cm depending on the thickness of the A horizon. B and/or C horizon soils are commonly brown to grey, clayey to rocky and are encountered at an average depth of 10 cm. An occasional A horizon soil sample was collected in marshy areas where the lower horizons could not be reached.

Silt samples were collected from active stream sediments mainly from areas known to be anomalous in zinc from past work. This year, qualitative field tests were done at most locations using an exchangeable heavy metals kit supplied by Chemex Labs. These tests were effective in locating anomalous areas.

All samples were collected in kraft bags, field dried and analyzed for zinc lead and silver at the Kamloops Research and Assay Laboratory using hot acid extraction and the atomic absorption method.

Zinc

Zinc soil values range from 5 to 4000 ppm. Threshold is estimated at 169 ppm and definitely anomalous values commence at 479 ppm (figure 3). Anomalous values are indicated on the accompanying map 1. Definitely anomalous values occur on the Mumbo 1, Sin 1, Jeri 1, 2 and 4 and Hose 3 mineral claims.

High soil values on the Mumbo 1 and Sin 1 claims are flanked by high zinc values in stream sediments. No outcrops are present in this area.

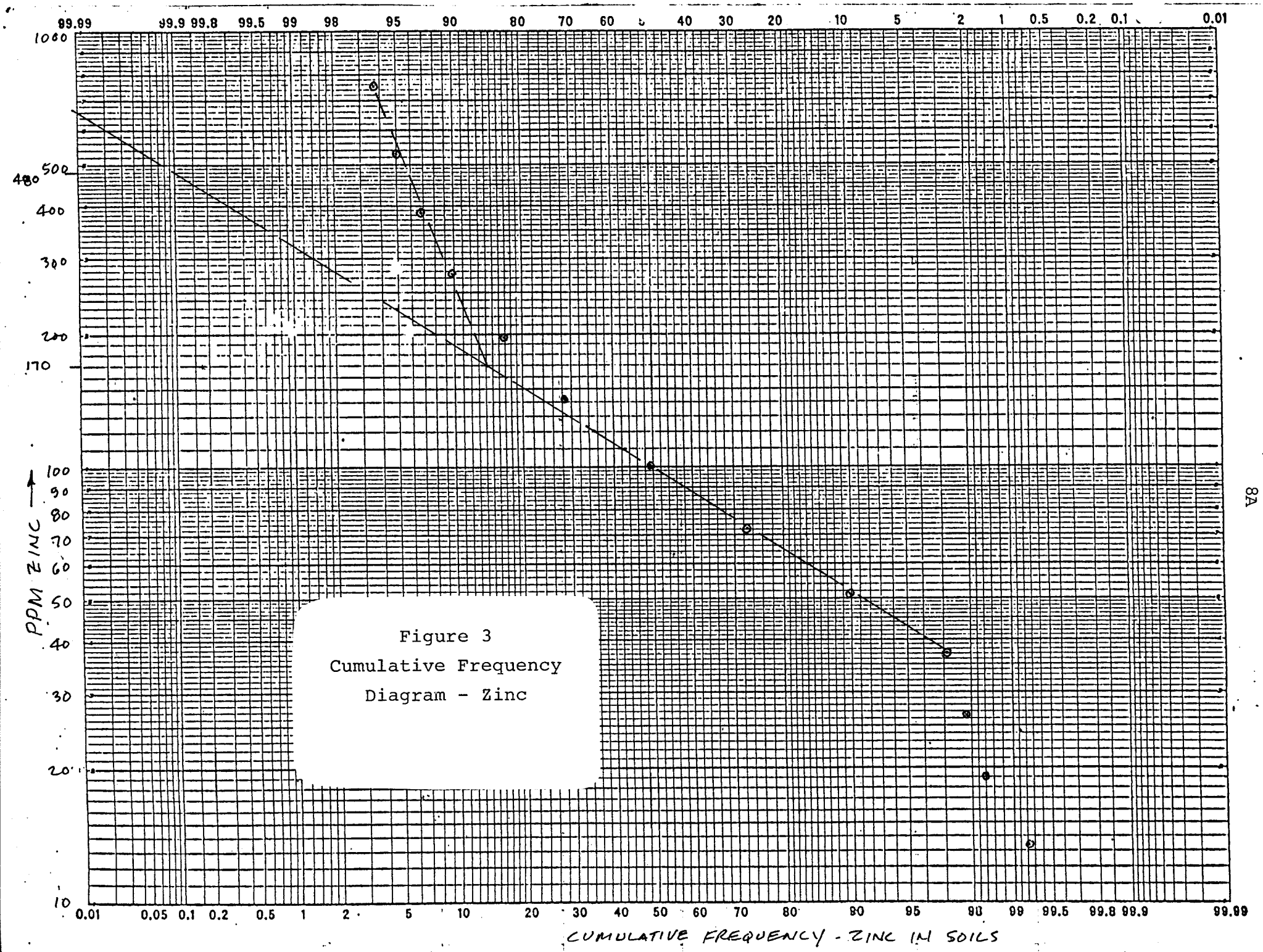


Figure 3
Cumulative Frequency
Diagram - Zinc

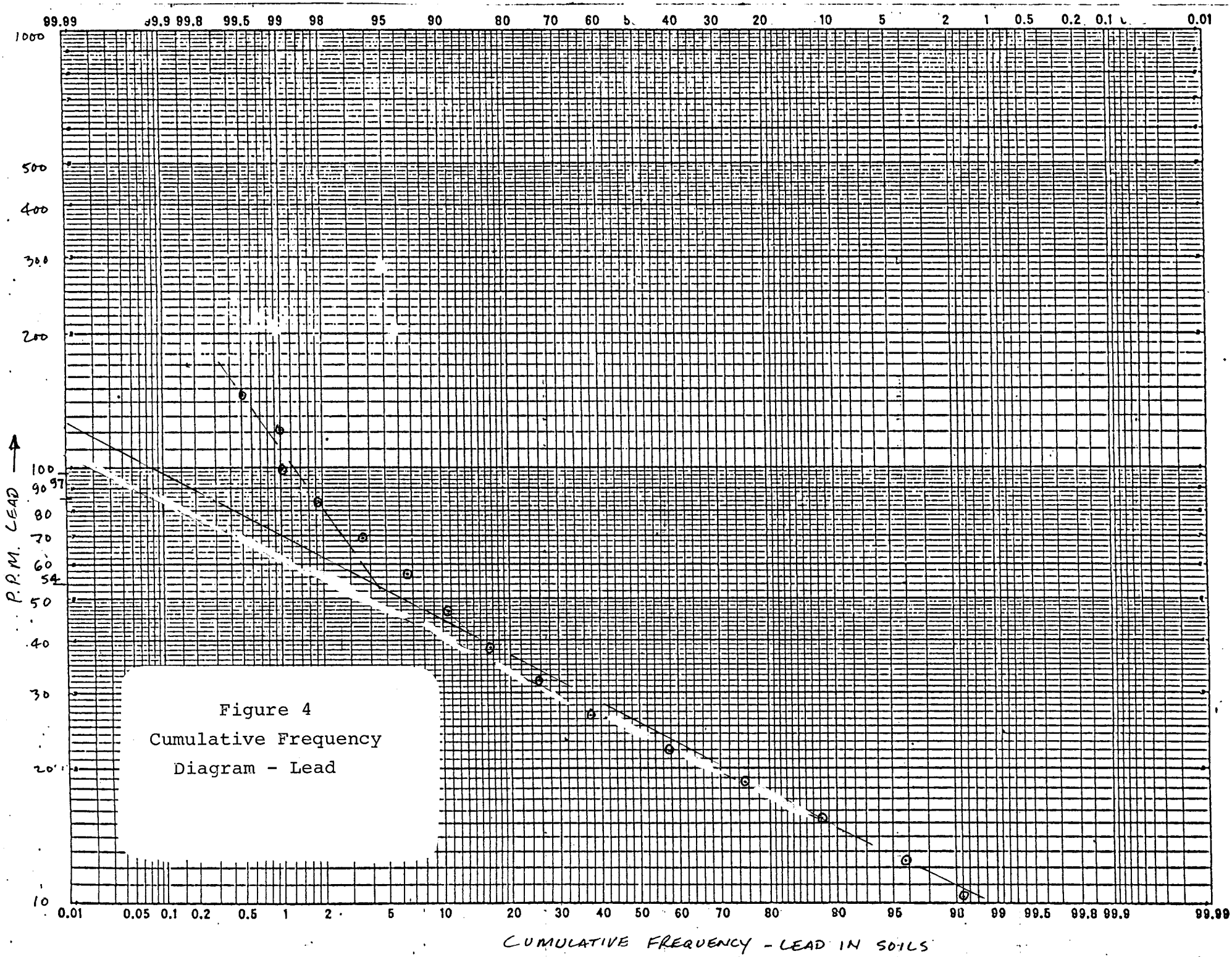


Figure 4
Cumulative Frequency
Diagram - Lead

High silt values also occur in a stream on the Sin 2 and 4 claims. The source of these values is unknown. High soil values on the Jeri and Hose claims are explained by exposed smithsonite mineralization.

Lead

Lead soil values range from 4 to 176 ppm. Threshold is estimated at 54 ppm and definitely anomalous values commence at 97 ppm (figure 4). Definitely anomalous values are sparse and occur on the Jeri 1 and Ralfo 4 claims.

High lead values in stream sediments occur on the Mumbo 1, Sin 1 and Sin 4 claims.

In general, higher lead values in streams are correlative with higher zinc values. However, higher lead values in soils do not always correlate with higher zinc values.

Silver

Silver values in soils range from 0 to 1.9 ppm with 96.6% of the values ranging from 0 - 0.12 ppm. These values are lower than previous analyses from nearby areas, apparently as a result of a background correction being applied this year, but not in previous years.

Kamloops Research and Assay Laboratory are checking their results and if significant changes occur, a new analysis sheet will be submitted. Meanwhile, the present silver analyses are appended along with corresponding zinc and lead analyses and grid location coordinates.

CONCLUSIONS AND RECOMMENDATIONS

(1) Geology

Mapping has indicated a significant fault which repeats the favourable geological horizon thus enhancing the possibility of finding additional near surface mineralization. This favourable limestone-dolomite bed was traced for 2700 m. and significant smithsonite mineralization was discovered in it on the Jeri claims. This new occurrence, named the Jeri prospect, requires trenching and diamond drilling to determine its continuity and size. A second area, on the Hose 8 claim, contains smithsonite mineralization in float and requires further exploration including geochemical sampling and possible trenching or drilling.

(2) Geochemistry

Zinc soil geochemistry correlates with smithsonite exposures on the Jeri claims. Relatively low soil values between mineralized outcrops at N 100+15N and N 102+75N may be due to deep overburden or lack of continuity of mineralization. In general, the Jeri occurrences are not well reflected in stream geochemistry.

High zinc values in soil and silt on the R-grid between R70N and R72N may be sourced by similar mineralization as that at the Jeri. They lie directly along strike to the south from the Jeri occurrences. This anomaly requires further work including drilling and/or trenching as no bedrock is exposed.

High zinc values in a stream draining the Sin 4 claim require further prospecting. They occur at a divide with no values in the northern drainage.

Respectfully submitted,

D. C. Miller, P.Eng.
July 27, 1984

STATEMENT OF QUALIFICATIONS

I, David C. Miller, of 1278 Dalhousie Drive, Kamloops, B.C., do hereby certify that:

1. I am a graduate of the University of British Columbia and obtained a B.A. Sc. degree in Geological Engineering in 1959.

2. I have had twenty-five years experience in mining geology and mineral exploration.

3. I am a Registered Professional Engineer in the Province of British Columbia.

4. I supervised the work described in this report.

D. C. Miller,
P.Eng.

July 27, 1984

LIST OF PERSONNEL, ADDRESSES AND DATES EMPLOYED

1. D. C. Miller, c/o 11-1278 Dalhousie Drive, Kamloops, B.C. V2C 6G3
June 1, 4, 6-28; July 5, 6, 9, 12, 16, 19, 20, 23-24, 1984.

2. M. Hudyma, 126 Thor Drive, Kamloops, B.C. V2C 1P4
May 26, 31; June 1, 4, 6-28; July 3, July 10-23, 1984

COST STATEMENT - MEL EAST CLAIMS

July 27, 1984

1.	Wages and Salaries 76 man-days		$ 11,384.00
2.	Transportation		
	(a) Frontier Helicopters 4.9 hours -	$2621.50	
	(b) B.C.-Yukon Air Service	344.26	
	(c) 1981 4 W.D. Suburban June 6-28	1166.00	
			4,131.76
3.	Food and Accommodation June 6 - 28 46 man-days at $20.25 per man-day		931.50
4.	Analysis - Kamloops Research & Assay Laboratory Ltd.		
	414 Zinc, Lead and Silver Geochem	$1639.44	
	8 Zinc and Lead Assays, 1 Silver and 1 Barium Assay	139.50	
			1,778.94
5.	Consumable Field Supplies (Sample bags, flagging, Topofil, insect repellant)		200.00
6.	Typing and Printing		160.00
7.	Telephone		20.00
			$18,606.20

KAMLOOPS RESEARCH
&
ASSAY LABORATORY
LTD

B.C. CERTIFIED ASSAYERS
912 LAVAL CRESCENT
PHONE 372-2784 - TELEX 048-8320

GEOCHEMICAL LAB REPORT

SULPETRO MINERALS LTD
11-1278 DALHOUSIE DR
KAMLOOPS B C
V2C 6G3

DATE JULY 9 1984
ANALYST
FILE NO. G 1120

KRAL NO.	IDENTIFICATION		PB	ZN	AG	
R-GRID 1	450W	R65N	41.0	159.0	0.0	0.0
2	500W		20.0	131.0	0.0	0.0
3	550W		13.0	55.0	0.0	0.0
4	600W		17.0	97.0	0.0	0.0
5	650W		51.0	206.0	0.0	0.0
6	700W		20.0	167.0	0.0	0.0
7	750W		23.0	111.0	0.0	0.0
8	800W		11.0	78.0	0.0	0.0
9	850W		16.0	70.0	0.0	0.0
10	900W		16.0	109.0	0.0	0.0
11	950W		17.0	36.0	0.0	0.0
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13	500W		36.0	178.0	0.0	0.0
14	550W		60.0	204.0	0.0	0.0
15	600W		14.0	98.0	0.0	0.0
16	650W		23.0	163.0	0.0	0.0
17	700W		24.0	12.0	0.0	0.0
18	750W		52.0	69.0	0.0	0.0
19	800W		19.0	79.0	0.0	0.0
20	850W		12.0	58.0	0.0	0.0
21	900W		17.0	96.0	0.0	0.0
22	275W	R69N	11.0	74.0	0.0	0.0
23	300W		18.0	101.0	0.0	0.0
24	325W		40.0	111.0	0.0	0.0
25	350W		28.0	103.0	0.0	0.0
26	375W		41.0	106.0	0.0	0.0
27	400W		26.0	80.0	0.0	0.0
28	425W		25.0	75.0	0.0	0.0
29	450W		19.0	38.0	0.0	0.0
30	475W		17.0	97.0	0.0	0.0

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FILE NO G 1120

KRAL NO.	IDENTIFICATION	PB	ZN	AG	
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35	650W	15.0	52.0	0.0	0.0
36	700W	24.0	75.0	0.0	0.0
37	750W	19.0	70.0	0.0	0.0
38	800W	20.0	44.0	0.0	0.0
39	850W	13.0	40.0	0.0	0.0
40	900W	12.0	54.0	0.0	0.0
41	275W R70N	20.0	82.0	0.0	0.0
42	300W	17.0	68.0	0.0	0.0
43	325W	68.0	132.0	0.0	0.0
44	350W	34.0	145.0	0.0	0.0
45	375W	13.0	61.0	0.0	0.0
46	400W	29.0	66.0	0.0	0.0
47	425W	22.0	213.0	0.0	0.0
48	450W	28.0	405.0	0.0	0.0
49	475W	34.0	110.0	0.0	0.0
50	500W	11.0	773.0	0.0	0.0
51	525W	70.0	494.0	0.0	0.0
52	550W	21.0	135.0	0.0	0.0
53	575W	19.0	84.0	0.0	0.0
54	600W	24.0	105.0	0.0	0.0
55	625W	35.0	103.0	0.0	0.0
56	650W	35.0	115.0	0.0	0.0
57	675W	25.0	69.0	0.0	0.0
58	700W	17.0	60.0	0.0	0.0
59	725W	19.0	49.0	0.0	0.0
60	750W	14.0	48.0	0.0	0.0
61	800W	20.0	54.0	0.0	0.0
62	850W	15.0	70.0	0.0	0.0
63	900W	17.0	47.0	0.0	0.0
64	275W R71N	22.0	122.0	0.0	0.0
65	300W	42.0	105.0	0.0	0.0
66	325W	36.0	103.0	0.0	0.0
67	350W	57.0	209.0	0.0	0.0
68	375W	23.0	36.0	0.0	0.0
69	400W	19.0	1770.0	0.0	0.0
70	425W	23.0	2280.0	0.0	0.0

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FILE NO G 1120

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81	700W		15.0	55.0	0.0	0.0
82	725W		16.0	39.0	0.0	0.0
83	750W		19.0	54.0	0.0	0.0
84	775W		17.0	50.0	0.0	0.0
85	800W		14.0	47.0	0.0	0.0
86	275W	R72N	25.0	88.0	0.0	0.0
87	300W		15.0	56.0	0.0	0.0
88	325W		23.0	129.0	0.0	0.0
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90	375W		17.0	87.0	0.0	0.0
91	400W		24.0	185.0	0.0	0.0
92	425W		21.0	164.0	0.0	0.0
93	450W		18.0	300.0	0.0	0.0
94	475W		16.0	205.0	0.0	0.0
95	500W		20.0	510.0	0.0	0.0
96	525W		37.0	234.0	0.0	0.0
97	550W		17.0	63.0	0.0	0.0
98	275W	R73N	11.0	110.0	0.0	0.0
99	300W		20.0	211.0	0.0	0.0
100	325W		22.0	162.0	0.0	0.0
101	350W		21.0	128.0	0.0	0.0
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103	400W		16.0	162.0	0.0	0.0
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115	700W		29.0	68.0	0.0	0.0
116	725W		23.0	65.0	0.0	0.0
117	750W		22.0	54.0	0.0	0.0
118	775W		17.0	49.0	0.0	0.0
119	800W		20.0	50.0	0.0	0.0
120	275W	R74N	41.0	121.0	0.0	0.0
121	300W		26.0	100.0	0.0	0.0
122	325W		22.0	86.0	0.0	0.0
123	350W		26.0	206.0	0.0	0.0
124	375W		27.0	111.0	0.0	0.0
125	400W		32.0	121.0	0.0	0.0
126	425W		46.0	135.0	0.0	0.0
127	450W		25.0	106.0	0.0	0.0
128	475W		57.0	144.0	0.0	0.0
129	500W		34.0	213.0	0.0	0.0
130	525W		23.0	156.0	0.0	0.0
131	550W		23.0	100.0	0.0	0.0
132	275W	R75N	27.0	104.0	0.0	0.0
133	300W		28.0	86.0	0.0	0.0
134	325W		27.0	85.0	0.0	0.0
135	350W		16.0	114.0	0.0	0.0
136	375W		24.0	107.0	0.0	0.0
137	400W		18.0	100.0	0.0	0.0
138	425W		20.0	88.0	0.0	0.0
139	450W		39.0	125.0	0.0	0.0
140	475W		30.0	166.0	0.0	0.0
141	500W		37.0	114.0	0.0	0.0
142	525W		18.0	76.0	0.0	0.0
143	550W		75.0	150.0	0.0	0.0
144	275W	R76N	56.0	100.0	0.0	0.0
145	300W		38.0	155.0	0.0	0.0
146	325W		32.0	99.0	0.0	0.0
147	350W		21.0	61.0	0.0	0.0
148	375W		26.0	77.0	0.0	0.0
149	400W		20.0	101.0	0.0	0.0
150	425W		42.0	163.0	0.1	0.0

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.

GEOCHEMICAL LAB REPORT

FILE NO G 1120

KRAL NO.	IDENTIFICATION	PB	ZN	AG	
151	450W	30.0	113.0	0.3	0.0
152	475W	62.0	180.0	1.4	0.0
153	500W	63.0	161.0	0.2	0.0
154	525W	31.0	100.0	0.0	0.0
155	550W	25.0	86.0	0.0	0.0
156	475W R77N	30.0	48.0	0.0	0.0
157	500W	13.0	23.0	0.0	0.0
158	525W	39.0	103.0	0.0	0.0
159	550W	30.0	106.0	0.0	0.0
160	575W	29.0	131.0	0.0	0.0
161	600W	26.0	104.0	0.0	0.0
162	625W	23.0	93.0	0.0	0.0
163	650W	22.0	82.0	0.0	0.0
164	675W	43.0	171.0	0.0	0.0
165	700W - SLST	28.0	57.0	0.0	0.0
166	725W	36.0	69.0	0.0	0.0
167	750W - SLST	31.0	164.0	0.0	0.0
168	775W	27.0	58.0	0.0	0.0
169	800W	16.0	40.0	0.0	0.0
170	275W R78N	55.0	84.0	0.4	0.0
171	300W	23.0	54.0	0.0	0.0
172	325W	33.0	70.0	0.0	0.0
173	350W	67.0	261.0	0.0	0.0
174	375W	60.0	334.0	0.0	0.0
175	400W	44.0	225.0	0.0	0.0
176	425W	63.0	285.0	0.0	0.0
177	450W	52.0	186.0	0.0	0.0
178	475W	17.0	56.0	0.0	0.0
179	500W	23.0	40.0	0.0	0.0
180	525W	25.0	52.0	0.0	0.0
181	550W	18.0	70.0	0.0	0.0
182	275W R79N	35.0	69.0	0.0	0.0
183	300W	58.0	75.0	0.0	0.0
184	325W	36.0	46.0	0.0	0.0
185	350W	20.0	19.0	0.0	0.0
186	375W	143.0	306.0	0.0	0.0
187	400W	83.0	214.0	0.0	0.0
188	425W	4.0	5.0	0.0	0.0
189	450W	14.0	74.0	0.0	0.0
190	475W	56.0	245.0	0.0	0.0

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.

GEOCHEMICAL LAB REPORT

FILE NO G 1120

SAMPLE NO.	IDENTIFICATION		PB	ZN	AG	
191	500W		5.0	15.0	0.0	0.0
192	525W		24.0	115.0	0.0	0.0
193	550W		17.0	152.0	0.0	0.0
194	275W	R80N	12.0	66.0	0.0	0.0
195	300W		13.0	58.0	0.0	0.0
196	325W		76.0	90.0	0.0	0.0
197	350W		139.0	116.0	0.0	0.0
198	375W		23.0	76.0	0.0	0.0
199	400W		48.0	133.0	0.0	0.0
200	425W		124.0	243.0	0.0	0.0
201	450W		21.0	116.0	0.0	0.0
202	475W		47.0	176.0	0.1	0.0
203	500W		82.0	200.0	0.3	0.0
204	525W		19.0	148.0	0.2	0.0
205	550W		23.0	136.0	0.3	0.0
206	275W	R81N	46.0	90.0	0.0	0.0
207	300W		22.0	91.0	0.0	0.0
208	325W		33.0	100.0	0.0	0.0
209	350W		22.0	94.0	0.0	0.0
210	375W		21.0	178.0	0.0	0.0
211	400W		35.0	139.0	0.0	0.0
212	425W		16.0	69.0	0.0	0.0
213	450W		28.0	139.0	0.1	0.0
214	475W		39.0	138.0	0.1	0.0
215	500W		84.0	235.0	1.9	0.0
216	525W		56.0	164.0	0.1	0.0
217	550W		93.0	365.0	0.2	0.0
218	275W	R82N	15.0	83.0	0.1	0.0
219	300W		14.0	50.0	0.0	0.0
220	325W		17.0	86.0	0.0	0.0
221	350W		14.0	55.0	0.0	0.0
222	375W		20.0	70.0	0.0	0.0
223	400W		34.0	117.0	0.0	0.0
224	425W		15.0	56.0	0.0	0.0
225	450W		24.0	135.0	0.0	0.0
226	475W		30.0	116.0	0.0	0.0
227	500W		56.0	160.0	0.1	0.0
228	525W		64.0	127.0	0.0	0.0
229	550W		32.0	104.0	0.0	0.0
230	275W	R83N	31.0	150.0	0.0	0.0

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.

GEOCHEMICAL LAB REPORT

FILE NO G 1120

AL NO.	IDENTIFICATION		PB	ZN	AG	
231	300W		26.0	138.0	0.0	0.0
232	325W		28.0	93.0	0.0	0.0
233	350W		21.0	147.0	0.0	0.0
234	375W		22.0	159.0	0.0	0.0
235	400W		21.0	117.0	0.0	0.0
236	425W		13.0	43.0	0.0	0.0
237	450W		38.0	159.0	0.0	0.0
238	475W		33.0	92.0	0.0	0.0
239	500W		30.0	96.0	0.0	0.0
240	525W		29.0	104.0	0.2	0.0
241	550W		28.0	114.0	0.0	0.0
242	275W	R84N	16.0	83.0	0.0	0.0
243	300W		33.0	132.0	0.0	0.0
244	325W		17.0	87.0	0.0	0.0
245	350W		26.0	92.0	0.0	0.0
246	375W		6.0	11.0	0.0	0.0
247	400W		33.0	118.0	0.0	0.0
248	425W		19.0	94.0	0.0	0.0
249	450W		26.0	129.0	0.2	0.0
250	475W		35.0	113.0	0.0	0.0
251	500W		35.0	120.0	0.3	0.0
252	525W		81.0	313.0	0.0	0.0
253	550W		35.0	167.0	0.0	0.0
254	275W	R85N	33.0	112.0	0.0	0.0
255	300W		23.0	76.0	0.0	0.0
256	325W		24.0	81.0	0.0	0.0
257	350W		30.0	177.0	0.0	0.0
258	375W		27.0	115.0	0.0	0.0
259	400W		19.0	110.0	0.0	0.0
260	425W		20.0	73.0	0.0	0.0
261	450W		21.0	90.0	0.0	0.0
262	475W		24.0	93.0	0.0	0.0
263	500W		20.0	105.0	0.0	0.0
264	525W		50.0	158.0	0.0	0.0
265	550W		38.0	87.0	0.0	0.0
266	99E	N96N	18.0	76.0	0.0	
267	99.25E		14.0	67.0	0.0	
268	99.5E		20.0	73.0	0.0	
269	99.75E		15.0	56.0	0.0	
270	100E		23.0	84.0	0.0	

NORTH GRID

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.
GEOCHEMICAL LAB REPORT

FILE NO G 1120

KRAL NO.	IDENTIFICATION	PB	ZN	AG
271	100.25E	18.0	91.0	0.0
272	100.5E	29.0	119.0	0.0
273	100.75E	21.0	62.0	0.0
274	101E	20.0	72.0	0.0
275	99E N97N	19.0	78.0	0.0
276	99.25E	18.0	90.0	0.0
277	99.5E	19.0	74.0	0.0
278	99.75E	19.0	80.0	0.0
279	100E	16.0	81.0	0.0
280	100.25E	18.0	72.0	0.0
281	100.5E	18.0	91.0	0.0
282	100.75E	25.0	87.0	0.0
283	101E	16.0	80.0	0.0
284	99E N98N	22.0	62.0	0.0
285	99.25E	24.0	63.0	0.0
286	99.5E	21.0	93.0	0.0
287	99.75E	27.0	80.0	0.0
288	100E	21.0	90.0	0.0
289	100.25E	40.0	270.0	0.0
290	100.5E	29.0	225.0	0.0
291	100.75E	27.0	87.0	0.0
292	101E	25.0	93.0	0.0
293	99E N99N	19.0	52.0	0.0
294	99.25E	23.0	68.0	0.0
295	99.5E	47.0	588.0	0.0
296	99.75E	176.0	3820.0	0.1
297	100E	40.0	4000.0	0.2
298	100.25E	30.0	670.0	0.0
299	100.5E	18.0	226.0	0.0
300	100.75E	18.0	95.0	0.0
301	101E	19.0	72.0	0.0
302	99E N100N	18.0	54.0	0.0
303	99.25E	12.0	41.0	0.0
304	99.5E	13.0	52.0	0.0
305	99.75E	55.0	700.0	0.0
306	100E	31.0	2170.0	0.0
307	100.25E	49.0	4000.0	0.0
308	100.5E	30.0	2610.0	0.0
309	100.75E	20.0	186.0	0.0
310	101E	42.0	365.0	0.0

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.
GEOCHEMICAL LAB REPORT

FILE NO G 1120

KRAL NO.	IDENTIFICATION	PB	ZN	AG
311	99E N101N	21.0	63.0	0.0
312	99.25E	13.0	49.0	0.0
313	99.5E	26.0	232.0	0.0
314	99.75E	36.0	154.0	0.0
315	100E	24.0	110.0	0.0
316	100.25E	20.0	113.0	0.0
317	100.5E	34.0	325.0	0.0
318	100.75E	24.0	263.0	0.0
319	101E	23.0	235.0	0.0
320	99E N102N	17.0	62.0	0.0
321	99.25E	23.0	89.0	0.0
322	99.5E	24.0	82.0	0.0
323	99.75E	20.0	119.0	0.0
324	100E	34.0	200.0	0.0
325	100.25E	23.0	258.0	0.0
326	100.5E	73.0	407.0	0.0
327	100.75E	15.0	81.0	0.0
328	101E	16.0	113.0	0.0
329	99E N103N	18.0	62.0	0.0
330	99.25E	20.0	56.0	0.0
331	99.5E	16.0	50.0	0.0
332	99.75E	19.0	113.0	0.0
333	100E	39.0	3060.0	0.0
334	100.25E	41.0	1000.0	0.0
335	100.5E	19.0	406.0	0.0
336	100.75E	24.0	776.0	0.0
337	101E	25.0	890.0	0.0
338	99E N104N	23.0	102.0	0.0
339	99.25E	23.0	96.0	0.0
340	99.5E	17.0	92.0	0.0
341	99.75E	20.0	109.0	0.0
342	100E	22.0	89.0	0.0
343	100.25E	21.0	216.0	0.0
344	100.5E	26.0	295.0	0.0
345	100.75E	25.0	235.0	0.0
346	101E	44.0	307.0	0.0
347	99E N105N	39.0	82.0	0.0
348	99.25E	26.0	80.0	0.0
349	99.5E	13.0	24.0	0.0
350	99.75E	19.0	67.0	0.0

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.
GEOCHEMICAL LAB REPORT
FILE NO G 1120

KRAL NO.	IDENTIFICATION	PB	ZN	AG
351	100E	21.0	123.0	0.0
352	100.5E	23.0	34.0	0.0
353	100.75E	36.0	273.0	0.0
354	101E	41.0	500.0	0.0
355	101.25E	30.0	163.0	0.0
356	101.5E	31.0	153.0	0.0
357	101.75E	24.0	255.0	0.0
358	102E	35.0	153.0	0.0
359	99E N107N	33.0	59.0	0.0
360	99.25E	21.0	46.0	0.0
361	99.5E	20.0	30.0	0.0
362	99.75E	32.0	59.0	0.0
363	100E	29.0	51.0	0.0
364	100.25E	31.0	47.0	0.0
365	100.5E	32.0	63.0	0.0
366	100.75E	35.0	57.0	0.0
367	101E	38.0	67.0	0.0
368	101.25E	28.0	58.0	0.0
369	101.5E	23.0	109.0	0.0
370	101.75E	38.0	150.0	0.0
371	102E	20.0	538.0	0.0
372	100E N109N	25.0	48.0	0.0
373	100.25E	28.0	58.0	0.0
374	100.5E	17.0	90.0	0.0
375	100.75E	14.0	91.0	0.0
376	101E	18.0	86.0	0.0
377	101.25E	15.0	68.0	0.0
378	101.5E	26.0	124.0	0.0
379	101.75E	16.0	68.0	0.0
380	102E	4.0	16.0	0.0
381	102.25E	15.0	50.0	0.0
382	102.5E	14.0	38.0	0.0
383	102.75E	10.0	54.0	0.0
384	103E	16.0	33.0	0.0
1	[illegible]	24.0	201.0	0.0
[illegible]	2	35.0	1230.0	0.0
122	3	18.0	365.0	0.0
123	4	19.0	492.0	0.0
124	5	47.0	1110.0	0.0
125	6	84.0	2270.0	0.0

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.

GEOCHEMICAL LAB REPORT

FILE NO G 1120

KRAL NO.	IDENTIFICATION	PB	ZN	AG
126	7	16.0	91.0	0.0
127	8	17.0	243.0	0.0
128	9	23.0	159.0	0.0
129	10	37.0	186.0	0.0
130	11	103.0	3260.0	0.0
131	12	23.0	148.0	0.0
132	13	27.0	225.0	0.0
133	14	2.0	83.0	0.0
134	15	15.0	121.0	0.0
135	16 - Soil	64.0	195.0	0.6
136	17 - Soil	329.0	218.0	0.0
137	18	46.0	110.0	0.0
138	19	17.0	55.0	0.0
139	20	15.0	94.0	0.0
140	21	16.0	328.0	0.0
141	22	16.0	217.0	0.0
142	23	29.0	191.0	0.0
143	24	23.0	1690.0	0.0
144	25	220.0	3350.0	0.0
145	26	22.0	128.0	0.0
146	29-84-16251	30.0	320.0	0.0
147	84A	16.0	236.0	0.0
148	84B	11.0	135.0	0.0
149	84C	14.0	169.0	0.0

IN ZN COLUMN 4000 INDICATES GREATER THAN 4000 PPM

IN AG COLUMN 0 INDICATES LESS THAN .1 PPM

METHOD -80 MESH HOT ACID EXTRACTION ATOMIC ABSORPTION

CTA
Member
Canadian Testing
Association

KAMLOOPS *RESEARCH & ASSAY* LABORATORY LTD.

912 - 1 LAVAL CRESCENT — KAMLOOPS, B.C.
V2C 5P5
PHONE: (604) 372-2784 — TELEX: 046-8320

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS
METALLURGISTS

CERTIFICATE OF ASSAY

TO Sulpetro Minerals Ltd.
11-1278 Dalhousie Dr.,
Kamloops, B.C. V2C 6G3

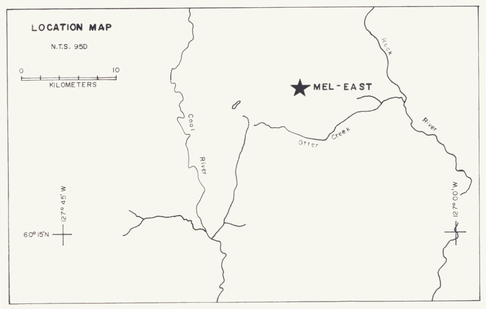
Certificate No. K 6452
Date July 6, 1984.

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

Kral No.	Marked			Pb	Zn	Ag	Ba
				percent	percent	ozs/ton	percent
1	3m	18501	BASE	.02	11.4		
2	3m	18502		.02	17.1		
3 N100+15N	3m	18503		.01	10.4		
4	3m	18504	TOP	.01	14.3		
5	3m	18505	BASE	.02	9.85		
6 N99N	2.8m	18506	TOP	.02	7.63		
7	1.0m	18507	BASE	.02	11.5		
8 N102+75N	3.3m	18508	TOP	.01	10.4		
9	Composite 18501 - 18508					.01	.02

NOTE:
Rejects retained three weeks.
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia



ZINC

169 PPM– THRESHOLD

170-479 PPM– POSSIBLY ANOMALOUS O

> 479 PPM– DEFINITELY ANOMALOUS ●

GRID STATION & LINE

SOIL SAMPLE SITE

SILT SAMPLE SITE

MEADOW / SWAMP

STREAM

CLAIM BOUNDARY

FOREST FIRE (1982) BOUNDARY

(H) HELI-PORT

N

0 100 200 300 400
Metres

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D. C. MILLER

TO ACCOMPANY GEOLOGICAL & GEOCHEMICAL REPORT BY D.C. MILLER
DATED JULY 27, 1984

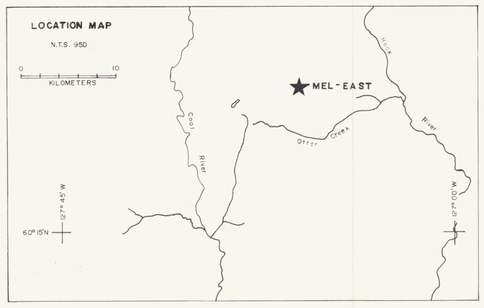
SULPETRO MINERALS LIMITED

MEL-EAST AREA

GEOCHEMISTRY PPM ZINC FOR 1984 SILT AND SOIL SAMPLES

DRAWN BY	PROJECT NO. 625i	MAP NO. 1 OF 4
M.R. HUDYMA	SCALE 1:5000	N.T.S. 950/6

091541



LEAD

54 PPM – THRESHOLD

54-96 PPM – POSSIBLY ANOMALOUS

>97 PPM – DEFINITELY ANOMALOUS

GRID STATION & LINE

SOIL SAMPLE SITE

SILT SAMPLE SITE

MEADOW / SWAMP

STREAM

CLAIM BOUNDARY

FOREST FIRE (1982) BOUNDARY

HELI-PORT

0 100 200 300 400
Metres

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D. C. MILLER

TO ACCOMPANY GEOLOGICAL & GEOCHEMICAL REPORT BY D.C. MILLER
DATED JULY 27, 1984

SULPETRO MINERALS LIMITED

MEL-EAST AREA

GEOCHEMISTRY PPM LEAD FOR 1984 SILT AND SOIL SAMPLES

DRAWN BY M.R. HUDYMA

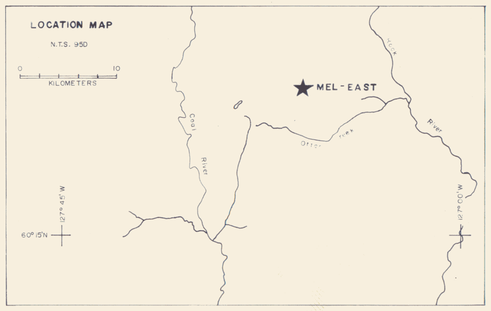
PROJECT NO. 625I

SCALE 1:5000

MAP NO. 2 OF 4

N.T.S. 95D/6

091541



UPPER CAMBRIAN TO ORDOVICIAN

- 6 GREY, WAVY BANDED LIMESTONE
- 5 (5a) LIGHT GREY, FINE GRAINED LIMESTONE; (5b) DOLOMITIZED LIMESTONE; (5c) SILICIFIED, DOLOMITIZED LIMESTONE; (5d) SILICIFIED, DOLOMITIZED LIMESTONE WITH SMITHSONITE MINERALIZATION
- XXX SMITHSONITE FLOAT OR OUTCROP LESS THAN 1 METRE IN DIAMETER

LOWER CAMBRIAN

- 4 BROWN WEATHERED, FINE GRAINED SANDSTONE
- 3 (3a) PINK AND GREY LIMESTONE; (3b) LIGHT GREY, FINE GRAINED DOLOMITE AND MINOR SANDY DOLOMITE
- 2 LIGHT GREY DOLOMITIC SANDSTONE
- 1 LIGHT GREY SLATE

- OUTCROP
- BEDDING (INCLINED, VERTICAL)
- FAULT (APPROXIMATE)
- GEOLOGIC CONTACT (APPROXIMATE)

- GRID STATION & LINE
- SOIL SAMPLE SITE
- SILT SAMPLE SITE
- MEADOW / SWAMP
- STREAM
- CLAIM BOUNDARY
- FOREST FIRE (1982) BOUNDARY
- (H) HELI-PORT

N

0 100 200 300 400
Metres

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D. C. MILLER

TO ACCOMPANY GEOLOGICAL & GEOCHEMICAL REPORT BY D.C. MILLER
DATED JULY 27, 1984

SULPETRO MINERALS LIMITED

MEL-EAST AREA
1984 GEOLOGY

DRAWN BY M.R. HUDYMA	PROJECT NO. 625I	MAP NO. 3 OF 4
	SCALE 1:5000	N.T.S. 95D/6

091541

99E 100E 101E 102E 103E

N 109 N
N 108 N
N 107 N
N 106 N
N 105 N
N 104 N
N 103 N
N 102 N
N 101 N
N 100 N
N 99 N
N 98 N
N 97 N
N 96 N

6
HOSE 5
HOSE 3
5d × × 5d
18507-18508
JERI 6
JERI 4
6
5d × 45
5d
JERI 2
18501-18504
5d × 5d
5d
18505-18506
50
5d
5c
JERI 3
JERI 1
SIN 3
SIN 1

N

LEGEND

- OUTCROP
- × FLOAT OR SMALL OUTCROPS
- SWAMP
- CREEK
- GRID, SOIL SAMPLE SITE
- CLAIM BOUNDARY
- BEDDING
- GEOLOGIC CONTACT (APPROXIMATE)
- 18501 SAMPLE NUMBER
- [6] WAVY BANDED LIMESTONE
- [5] (5c) SILICIFIED DOLOMITIZED LIMESTONE
  (5d) SILICIFIED DOLOMITIZED LIMESTONE AND SMITHSONITE

0 100
SCALE IN METRES

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D. C. MILLER

To accompany Geological & Geochemical Report by D.C. Miller dated July 27, 1984

SULPETRO MINERALS LIMITED
KAMLOOPS, B.C.

MEL-EAST AREA
NORTH GRID SAMPLE LOCATION PLAN

PROJECT NO. 6251 SCALE 1:2500

DRAWN BY: D.C. MILLER	NTS 95 D/6
DATE: JULY, 1984	MAP NO. 4 OF 4

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