

GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE 921/11W
MARS NO. 1 - 8 MINERAL CLAIMS
Located 10 miles north of Spences Bridge
British Columbia. 53°33'N, 121°19'W
Kamloops Mining Division
by: Harold M. Jones, P.Eng. June 14, 1972

GOVERNMENT AGENT
JUN 19 1972
KAMLOOPS BRITISH COLUMBIA

3680

3680

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

MARS NOS. 1 - 8 MINERAL CLAIMS

Located 10 miles north of
Spences Bridge, British
Columbia.
53°33'N, 121°19'W
Kamloops Mining Division

by

Harold M. Jones, P. Eng.

El Paso Mining and Milling Company

June 14, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
No. 3680 MAP



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#1	Figure 1 - Location Map	
#2	Map No. 1 (92 I 11 - A1) Geology, Mars Claims	(in pocket)
#3	Map No. 2 (92 I 11 - A 2) Geochemical Soils, Copper in PPM	" "

SUMMARY

Geochemical and geological surveys were conducted over the Mars Nos. 1 - 8 claims during September 10 to September 18, 1971 and May 11 to May 15, 1972 respectively by El Paso Mining and Milling Company personnel on these company owned claims. They are located in the Kamloops Mining Division about 11 miles north of Spences Bridge, B. C.

The claims are underlain by a prominently pyritized zone of hydrothermal alteration in tuffs and andesites of the Cache Creek group. The geochemical survey failed to outline any anomalous zones. The prominent alteration zone probably warrants further investigation.

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1972

INTRODUCTION

A geochemical soil survey was conducted between September 10 and September 18, 1971 on the Mars No. 1 - 8 claims by a two-man fieldcrew. This was followed between May 10 and May 15, 1972 by geological mapping of the claims by two geologists. The Mars claims are owned by El Paso Mining and Milling Company and were recorded in Kamloops, B.C.

The claims are located in the Kamloops Mining Division 11 road miles north of Spences Bridge, B. C., lying along the west side of the Trans-Canada highway. The claims lie mostly to the west of the highway but the eastern boundary does extend for 300 to 700 feet east of it.

The Mars Group covers a small part of a terrace which extends along the western side of the Thompson River valley for many miles. Mars 2, 4, 6 and 8 cover mostly flat to gently rolling terrain while Mars 1, 3, 5 and 7 lie on the steep east-facing slope which continues beyond the claims into cliffs which plunge into the river. Elevations vary from approximately 1500 feet at the highway to 1900 feet above sea level on the terrace. Vegetation over the entire area consists of sagebrush with a light scattering of pine trees.

Outcrop is fairly abundant on the eastern half of the claim group. Rock is well exposed in bluffs and cliffs along the steep hillside as well as along the walls of two very prominent canyons.

Access to the claims is by the Trans-Canada highway.

H. J.
1972

FIELDWORK

Exploration on the Mars Group was done in two stages. A geochemical soil survey was completed during September 10 - 18, 1971 by a two-man crew, while geological mapping was completed during May 10 - 15, 1972 by a crew of two geologists.

(a) Geochemical Soil Survey

For control on the geochemical survey, a baseline bearing S20E was laid out for 5600 feet, using a Silva Ranger compass and nylon tape. Due to a deep canyon, two offsets at a bearing of S70W and totalling 300 feet were necessary to permit continuation of the baseline beyond this difficult terrain. Lines were run from the baseline at 200 foot separations for 1300 - 1500 feet S70W and 700 - 1400 feet N70E. The variations in line length to the west were due to the offsets in the baseline while to the east they were due to the Trans-Canada highway and cliffs immediately east of the highway. The baseline and all lines were marked by laths set at 100-foot intervals. Each lath was marked with the line and station by orange flagging. All claim posts were tied to the grid.

Soil samples were taken along each line at 100-foot stations. These were taken with a mattock from the "B" soil horizon at depths of 4 to 6 inches, then placed in kraft envelopes on which were marked the line and station number. A total of 722 soil samples was collected and sent to Chemex Laboratories Ltd., 212 Brooksbank Avenue, North Vancouver for total copper, molybdenum and silver analyses.

H. J. [Signature]

(b) Geological Survey

The geological survey was done on the above described grid. All geology was mapped on a scale of one inch equals 200 feet. Outcrops mapped between grid lines or stations on lines were measured by pace and Brunton compass.

GEOLOGY

The general area of the Mars claims is underlain by Paleozoic rocks of the Cache Creek Group which form a broad belt of volcanic and sedimentary rocks trending N30°W and up to 20 miles wide. They are in contact with intrusive rocks of the Lower Jurassic Guichon batholith and the Upper Triassic Nicola group volcanics. All rocks are partly overlain by Middle Jurassic strata which in turn are partly covered by Tertiary volcanics.

Numerous prominent gossans occur throughout the Cache Creek rocks from Spences Bridge northerly for about 30 miles. One such gossan occurs on the Mars property. For this reason, in the area mapped, the Cache Creek rocks may be divided into two general types. (See Map No. 1 in pocket) These are:

(a) Altered Rocks

The areas of strongly altered rocks form very striking yellow, yellow-brown, brown, or red-brown gossans which contrast with the surrounding grey soils and dark grey rock outcrops.

The altered rocks exhibit very strong hydrothermal alteration and vary from solid, white, very silicified volcanics to completely

H. J.

weathered rock residue. Most of the altered areas consist of quartz-sericite schist, quartz-talc-gypsum schist and talc-gypsum schist in bands within white, yellow, orange and brown gossanous rock residue. Gypsum is abundant throughout most of the strongly altered rock sections while sulphur is common in more localized areas.

The altered rocks are generally well pyritized but in the strongly leached sections no sulphides are left.

Schistosity and bedding show attitudes from north to northwest but almost consistently dip 20 - 60 degrees to the southwest.

Tight folding can be recognized where rock breakdown has not been too severe.

Within the altered rocks are remnants of unaltered andesite. In places, these appear dyke-like but this is thought to be a weathering feature rather than a structural one. These unaltered remnants indicate that the completely weathered rock was of volcanic origin.

(b) Unaltered Rocks

The rocks grouped under this heading are mostly classified as greenstones since they are of volcanic origin. They are mostly light to dark grey to green, weakly chloritized, dense to fine grained tuffs and andesites. Also included are minor sections of coarse agglomerates or volcanic breccia.

Very minor finely bedded limestone and limy sediments also occur in the unaltered rocks. These are found at the south end of the property and do not appear to be widespread.

W. J. Q.

Pyrite occurs throughout most of the greenstone but only in very minor amounts.

All rock is well fractured and faulted. Fracture sets strike northwesterly, northeasterly and easterly. Each direction has one set which dips steeply as well as another set which dips at a low to moderate angle. The most persistent set strikes N10°-40°W and dips steeply to the southwest. This set, in some cases, may reflect bedding.

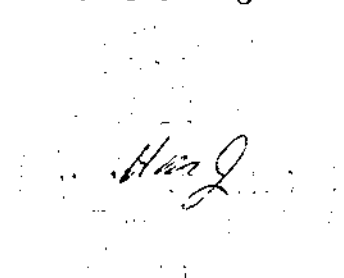
Faulting is abundant and is best exposed in recent road cuts. The predominant fault direction appears to be northeasterly with dips to both northwest and southeast. Several faults parallel the highway cuts and trend N10° - 30°W.

One significant fault is located in the southern-most canyon and strikes N70°E. The large alteration zone appears to terminate against this fault.

MINERALIZATION

Mineralization is almost entirely restricted to pyrite. As mentioned earlier, much of the strongly altered rock is heavily pyritized. Where leaching is not too strong, pyrite is very obvious but where leaching is severe, only sulphide casts remain.

A few grains of chalcopyrite were found along the north wall of the canyon which cuts through Mars No. 5 claim. This mineralization occurs in andesite which was not completely altered to schists or gossan. No other mineralization was seen.

A handwritten signature, possibly "H. J. ...", is written in the bottom right corner of the page. It is surrounded by a faint, circular stamp or seal that is mostly illegible.

The following grab sample of highly oxidized silicified andesite tuff with considerable pyrite was taken from the trench wall on Mars No. 5 claim for a 10 foot width at about 97,200N; 100,950E:

<0.01% Cu; 0.03 oz/ton Ag; <0.004 oz/ton Au

The almost complete absence of copper in this gossan may be due to the heavy oxidation and surface leaching.

GEOCHEMICAL RESULTS

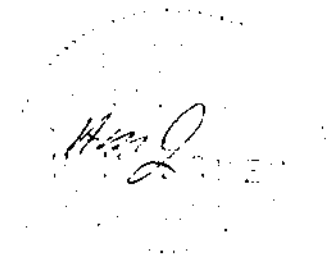
The geochemical assay results show no significant values in copper, molybdenum, or silver so for this reason only the map showing copper in PPM (See Map No. 2 in pocket) was plotted. No calculations were made for anomalous values since none exist.

The map for copper in PPM clearly indicates very strong leaching in the altered zone. Samples in this area consistently show the lowest values in the area sampled.

CONCLUSIONS

From the results of the geochemical and geological surveys it is apparent that no obvious mineral deposit occurs on the Mars claims. A very strong hydrothermally altered zone, however, is present and it is well pyritized but shows only trace amounts of chalcopyrite. This could be due to leaching of the chalcopyrite but may also be due to the lack of copper originally.

The reason for the existence of the hydrothermally altered

A handwritten signature, possibly "H. L. ...", is written over a circular stamp or seal in the bottom right corner of the page. The stamp is mostly illegible but appears to contain some text around the perimeter.

pyritized zone is unknown. It could be due to an underlying intrusive and may represent an altered pyrite halo. If so, copper mineralization may be present at depth. However, it should be pointed out that there is no evidence of intrusive rock on or near the claim group.

Further studies are recommended on this property to determine the significance of the alteration zone.

June 14, 1972

Harold M. Jones
Harold M. Jones, P. Eng.

H.M.J.



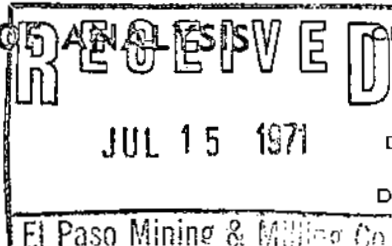
CHEMEX LABS LTD.

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NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648

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CERTIFICATE OF ANALYSIS

TO: El Paso Mining & Milling Company,
500 - 885 Dunsmuir St.,
Vancouver, B.C.



CERTIFICATE NO. 20206
INVOICE NO. 5404
DATE RECEIVED July 9/71
DATE ANALYSED July 14/71

ATTN: Mr. G.A. Noel & Mr. H.M. Jones

SAMPLE NO.:	%	%	Oz/Ton	Oz/Ton
	Copper	Nickel	Silver	Gold
EP-0810	< 0.01		0.03	< 0.003



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186-20217 - Morrison Prospecting - Sample - 1/2 Ton

NOTE: REVID SOUTH INSTEAD OF NORTH
 RGA WEST INSTEAD OF EAST
 -10-



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CERTIFICATE OF ANALYSIS

RECEIVED
 SEP 23 1971
 El Paso Mining & Milling Co.

TO: El Paso Mining and Milling Company,
 #500 - 885 Dunsmuir St.,
 Vancouver, B. C.

CERTIFICATE NO. 16599
 INVOICE NO. 6165
 DATE RECEIVED Sept. 20/71
 DATE ANALYSED Sept. 22/71

ATTN: Mr. G. A. Noel & Harold Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
LON Δ13E	62	0	< 0.5
14	41	0	< 0.5
15	38	0	< 0.5
16	40	0	< 0.5
17	40	0	< 0.5
18	56	0	< 0.5
19	52	0	< 0.5
20	41	0	1.0
21	42	0	< 0.5
22	38	0	< 0.5
23	44	0	< 0.5
24	44	0	< 0.5
25	40	0	< 0.5
26	36	0	< 0.5
27	48	0	< 0.5
28	50	0	< 0.5
29	42	0	< 0.5
30	44	0	< 0.5
31	50	0	< 0.5
32	41	0	< 0.5
33	42	0	< 0.5
34	48	0	< 0.5
LON 35E	38	0	< 0.5
L2N 13E	46	0	< 0.5
14	44	0	< 0.5
15	38	0	< 0.5
16	41	0	< 0.5
17	50	0	< 0.5
18	21	0	< 0.5
19	22	5	< 0.5
20	30	0	< 0.5
21	48	0	< 0.5
22	36	0	< 0.5
23	40	0	< 0.5
24	44	0	< 0.5
25	42	0	< 0.5
26	41	0	< 0.5
27	34	0	< 0.5
28	38	0	< 0.5
L2N 29E	52	0	< 0.5
Std. #24	52	17	< 0.5

186-0019
 Mars Property



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TO: El Paso Mining and Milling Company,
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Vancouver, B.C.

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El Paso Mining & Milling Co.

CERTIFICATE NO. 16600

INVOICE NO. 6165

DATE RECEIVED Sept. 20/71

DATE ANALYSED Sept. 22/71

ATTN: Mr. G. A. Noel & Harold Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L2N Δ 30A E)			
L2N 30B)	50	0	< 0.5
31	36	0	< 0.5
32	44	0	< 0.5
33	50	0	< 0.5
34	44	0	< 0.5
L2N 35E	46	0	0.5
L4N 13E	44	0	< 0.5
14	36	0	< 0.5
15	36	0	< 0.5
16	31	0	< 0.5
17	36	0	< 0.5
18	51	0	< 0.5
19	40	0	< 0.5
20	38	0	< 0.5
21	41	0	< 0.5
22	41	0	< 0.5
23	40	0	< 0.5
24	44	0	< 0.5
25	38	0	< 0.5
26	36	0	< 0.5
27	44	0	< 0.5
28	48	0	< 0.5
29	38	0	< 0.5
30	48	0	< 0.5
31	44	0	< 0.5
32	44	0	< 0.5
33	42	0	< 0.5
34	56	0	< 0.5
L4N 35E	44	0	< 0.5
L6N 12E	33	0	< 0.5
13	16	0	0.5
14	34	0	< 0.5
15	38	0	< 0.5
16	41	0	< 0.5
17	34	0	< 0.5
18	36	0	< 0.5
19	42	0	< 0.5
20	36	0	< 0.5
L6N 21E	41	0	< 0.5
Std. #24	51	16	< 0.5



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TO: El Paso Mining and Milling Company,
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Vancouver, B. C.

ATTN: Mr. G. A. Noel & Harold Jones

CERTIFICATE NO. 16601
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L6N Δ 22E	38	0	< 0.5
23	44	0	< 0.5
24	42	0	< 0.5
25	40	0	< 0.5
26	38	0	< 0.5
27	48	0	< 0.5
28	44	0	< 0.5
29	41	0	< 0.5
30	48	0	< 0.5
31	48	0	< 0.5
32	46	0	< 0.5
33	48	0	< 0.5
34	46	0	< 0.5
L6N 35E	46	0	< 0.5
L8N 12E	38	0	< 0.5
13	41	0	< 0.5
14	36	0	< 0.5
15	42	0	< 0.5
16	38	0	< 0.5
17	46	0	< 0.5
18	48	0	< 0.5
19	46	0	< 0.5
20	42	0	< 0.5
21	46	0	< 0.5
22	54	0	< 0.5
23	54	0	< 0.5
24	50	0	< 0.5
25	48	0	< 0.5
26	48	0	< 0.5
27	42	0	< 0.5
28	42	0	< 0.5
29	40	0	< 0.5
30	42	0	< 0.5
31	50	0	< 0.5
33	54	0	< 0.5
34	41	0	< 0.5
L8N 35E	41	0	< 0.5
L10N 11E	42	0	< 0.5
Std. #24	52	17	< 0.5



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CERTIFICATE NO. 16602

TO: El Paso Mining and Milling Company,
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DATE RECEIVED Sept. 20/71

DATE RECEIVED

El Paso Mining & Milling Co.

DATE ANALYSED

Sept. 22/71

ATTN: Mr. G. A. Noel & Harold Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L10N Δ 12E	36	0	< 0.5
13	34	0	< 0.5
14	41	0	< 0.5
15	44	0	< 0.5
16	42	0	< 0.5
17	42	0	< 0.5
18	41	0	< 0.5
19	40	0	< 0.5
20	40	0	< 0.5
21	51	0	< 0.5
22	70	0	< 0.5
23	46	0	< 0.5
24	42	0	< 0.5
25	46	0	< 0.5
26	48	0	< 0.5
27	50	0	< 0.5
28	50	0	< 0.5
29	46	0	< 0.5
30	41	0	< 0.5
31	42	0	< 0.5
32	42	0	< 0.5
33	51	0	< 0.5
34	51	0	< 0.5
L10N 35E	52	0	< 0.5
L12N 11E	41	0	< 0.5
12	36	0	< 0.5
13	34	0	< 0.5
14	34	0	< 0.5
15	44	0	< 0.5
16	40	0	< 0.5
17	40	0	< 0.5
18	44	0	< 0.5
19	38	0	< 0.5
20	31	0	< 0.5
21	33	0	< 0.5
22	41	0	< 0.5
23	41	0	< 0.5
24	36	0	< 0.5
25	40	0	< 0.5
L12N 26E	40	0	< 0.5
Std. #24	51	17	< 0.5



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11 2-1-50/21
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CERTIFICATE NO. 16603
INVOICE NO. 6165
DATE RECEIVED sept. 20/71
DATE ANALYSED Sept. 22/71

ATTN: Mr. G.A.Noel & Mr. Harold Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L12N Δ 27E	40	0	< 0.5
28	48	0	< 0.5
29	42	0	< 0.5
30	50	0	< 0.5
31	51	0	< 0.5
32	46	0	< 0.5
33	52	0	< 0.5
34	51	0	< 0.5
L 12N 35E	56	0	< 0.5
L 14N 11E	40	0	< 0.5
12	41	0	< 0.5
13	41	0	< 0.5
14	68	0	< 0.5
15	41	0	< 0.5
16	41	0	< 0.5
17	36	0	< 0.5
18	44	0	< 0.5
19	40	0	< 0.5
20	36	0	< 0.5
21	41	0	< 0.5
22	41	0	< 0.5
23	44	0	< 0.5
24	46	0	< 0.5
25	52	0	< 0.5
26	41	0	< 0.5
27	46	0	< 0.5
28	38	0	< 0.5
29	40	0	< 0.5
30	51	0	< 0.5
31	44	0	< 0.5
32	46	0	< 0.5
33	51	0	< 0.5
34	52	0	< 0.5
L 14N 35E	51	0	< 0.5
L 16N 10E	41	0	< 0.5
11	40	0	< 0.5
12	34	0	< 0.5
13	38	0	< 0.5
14	40	0	< 0.5
L 16N 15E	41	0	< 0.5
Std. #24	51	17	< 0.5



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B.L. Twaites

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TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

INVOICE NO. 6165

DATE RECEIVED Sept. 20/71

ATTN: Mr. G. A. Noel & H. Jones

DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L16N Δ 16E	50	0	< 0.5
17	36	0	< 0.5
18	41	0	< 0.5
19	36	0	< 0.5
20	36	0	< 0.5
21	38	0	< 0.5
22	48	0	< 0.5
23	41	0	< 0.5
24	41	0	< 0.5
25	46	0	< 0.5
26	41	0	< 0.5
27	46	0	< 0.5
28	48	0	< 0.5
29	51	0	< 0.5
30	44	0	< 0.5
31	51	0	< 0.5
32	44	0	< 0.5
33	51	0	< 0.5
34	52	0	< 0.5
L16N 35E	52	0	< 0.5
L18N 10E	44	0	< 0.5
11	40	0	< 0.5
12	42	0	< 0.5
13	40	0	< 0.5
14	38	0	< 0.5
15	42	0	0.5
16	50	0	< 0.5
17	46	0	< 0.5
18	44	0	< 0.5
19	46	0	< 0.5
20	42	0	< 0.5
21	48	0	< 0.5
22	52	0	< 0.5
23	40	0	< 0.5
24	41	0	< 0.5
25	36	0	< 0.5
26	51	0	< 0.5
27	44	0	< 0.5
28	54	0	< 0.5
L18N 29E	38	0	< 0.5
Std. #24	52	17	< 0.5

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CERTIFICATE OF ANALYSIS

RECEIVED
SEP 23 1971
El Paso Mining & Milling Co.

CERTIFICATE NO. 16605
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

ATTN: Mr. G.A. Noel & H. Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L18N Δ 30E	46	0	0.5
31	51	0	0.5
32	54	0	0.5
33	46	0	< 0.5
34	44	0	< 0.5
L18N 35E	51	0	< 0.5
L20N 10E	38	0	< 0.5
11	46	0	< 0.5
12	41	0	< 0.5
13	38	0	< 0.5
14	44	0	< 0.5
15	42	0	< 0.5
16	44	0	< 0.5
17	41	0	< 0.5
18	38	0	< 0.5
19	40	0	< 0.5
20	41	0	< 0.5
21	50	0	< 0.5
22	42	0	< 0.5
23	40	0	< 0.5
24	42	0	< 0.5
25	36	0	< 0.5
26	40	0	< 0.5
27	40	0	< 0.5
28	48	0	< 0.5
29	48	0	< 0.5
30	46	0	< 0.5
31	33	0	< 0.5
32	42	0	0.5
33	50	0	< 0.5
34	46	0	< 0.5
L20N 35E	44	0	< 0.5
L22N 9E	36	0	< 0.5
10	36	0	< 0.5
11	51	0	< 0.5
12	34	0	< 0.5
13	42	0	< 0.5
14	41	0	< 0.5
15	44	0	< 0.5
L22N 16E	42	0	< 0.5
Std. #24	52	17	< 0.5



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Handwritten notes:
L18N 30E
L20N 10E
L22N 9E



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CANADA
TELEPHONE: 985-0648

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CERTIFICATE OF ANALYSIS

RECEIVED
SEP 23 1971
El Paso Mining & Milling Co.

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

ATTN: Mr. G. Noel & Mr. H. Jones

CERTIFICATE NO. 16606
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L22N Δ 17E	41	0	< 0.5
18	42	0	< 0.5
19	42	0	< 0.5
20	41	0	< 0.5
21	38	0	< 0.5
22	41	0	< 0.5
23	40	0	< 0.5
24	41	0	< 0.5
	46	0	< 0.5
26	44	0	< 0.5
27	51	0	< 0.5
28	38	0	< 0.5
29	31	0	< 0.5
30	36	0	< 0.5
31	38	0	< 0.5
32	31	0	< 0.5
33	36	0	< 0.5
34	42	0	< 0.5
35	44	0	< 0.5
L 22N 36E	42	0	< 0.5
L 24N 9E	40	0	< 0.5
10	44	0	< 0.5
11	56	0	0.5
12	44	0	< 0.5
13	54	0	0.5
14	48	0	< 0.5
15	51	0	< 0.5
16	51	0	< 0.5
17	41	0	< 0.5
18	50	0	< 0.5
19	51	0	< 0.5
20	34	0	< 0.5
21	33	0	< 0.5
22	26	0	< 0.5
23	33	0	< 0.5
24	34	0	< 0.5
25	24	0	< 0.5
26	40	0	< 0.5
27	16	0	< 0.5
L 24N 28E	31	0	< 0.5
Std. #24	52	17	< 0.5



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9/24 3:57 PM



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RECEIVED
SEP 23 1971
El Paso Mining & Milling Co.

CERTIFICATE NO. 16607

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

INVOICE NO. 6165

DATE RECEIVED Sept. 20/71

ATTN: Mr.G.A.Noel & Harold Jones

DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L24N Δ 29E	31	0	< 0.5
30	46	0	< 0.5
31	48	0	< 0.5
32	46	0	< 0.5
33	34	0	< 0.5
34	41	0	< 0.5
35	42	0	< 0.5
L24N 36E	42	0	< 0.5
L26N 10E	38	0	< 0.5
11	40	0	< 0.5
12	40	0	< 0.5
13	44	0	< 0.5
14	41	0	< 0.5
15	48	0	< 0.5
16	42	0	< 0.5
17	51	0	< 0.5
18	44	0	< 0.5
19	48	0	< 0.5
20	13	0	< 0.5
21	48	0	< 0.5
22	44	0	< 0.5
23	36	0	< 0.5
24	46	0	< 0.5
25	36	0	< 0.5
26	31	0	< 0.5
27	40	0	< 0.5
28	42	0	< 0.5
29	48	0	< 0.5
30	42	0	< 0.5
31	46	0	< 0.5
32	52	0	< 0.5
33	40	0	< 0.5
34	30	0	< 0.5
35	36	0	< 0.5
L26N 36E	44	0	< 0.5
L28N 10E	46	0	< 0.5
11	41	0	< 0.5
12	44	0	< 0.5
13	63	0	0.5
L28N 14E	42	0	< 0.5
Std. #24	52	17	< 0.5



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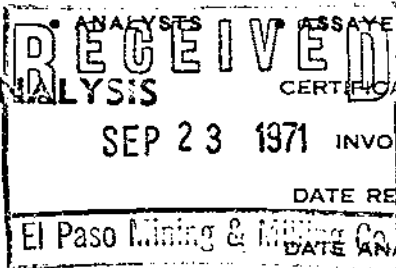
CERTIFICATE NO. 16608

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

SEP 23 1971 INVOICE NO. 6165

DATE RECEIVED Sept. 20/71

ATTN: Mr. G. Noel & Mr. H. Jones



DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L28N Δ 15E	42	0	< 0.5
L28N 21E	33	0	< 0.5
22	44	0	< 0.5
23	41	0	< 0.5
24	41	0	< 0.5
25	51	0	< 0.5
26	44	0	< 0.5
27	48	0	< 0.5
28	46	0	< 0.5
29	46	0	< 0.5
30	52	0	< 0.5
31	48	0	< 0.5
32	46	0	< 0.5
33	44	0	< 0.5
34	44	0	< 0.5
35	38	0	< 0.5
L28N 36E	28	0	< 0.5
L30N 20E	50	0	< 0.5
21	54	0	< 0.5
22	38	0	< 0.5
23	46	0	< 0.5
24	51	0	< 0.5
25	78	0	< 0.5
26	44	0	< 0.5
27	51	0	< 0.5
28	46	0	< 0.5
29	50	0	< 0.5
30	48	0	< 0.5
31	44	0	< 0.5
32	42	0	< 0.5
33	40	0	< 0.5
34	44	0	< 0.5
35	42	0	< 0.5
L30N 36E	51	0	< 0.5
L32N 10E	36	0	< 0.5
11	41	0	< 0.5
12	38	0	< 0.5
13	36	0	< 0.5
L32N 14E	40	0	< 0.5
L32N 22E	41	0	< 0.5
Std. #24	52	17	< 0.5



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11/24/71

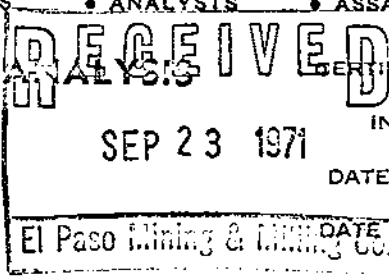


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TO: El Paso Mining and Milling Company,
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Vancouver, B. C.

ATTN: Mr. G. Noel & Mr. H. Jones

CERTIFICATE NO. 16609
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L32N Δ 23E	48	0	< 0.5
24	51	0	< 0.5
25	40	0	< 0.5
26	44	0	< 0.5
27	41	0	< 0.5
28	44	0	< 0.5
29	46	0	< 0.5
30	41	0	< 0.5
31	50	0	< 0.5
32	41	0	< 0.5
33	40	0	< 0.5
34	41	0	< 0.5
35	46	0	< 0.5
L 32N 36E	46	0	< 0.5
L 34N 10E	41	0	< 0.5
11	36	0	< 0.5
12	38	0	< 0.5
13	36	0	< 0.5
14	42	0	< 0.5
15	42	0	< 0.5
16	50	0	< 0.5
17	42	0	< 0.5
18	36	0	< 0.5
19	46	0	< 0.5
20	50	0	< 0.5
21	38	0	< 0.5
22	36	0	< 0.5
23	41	0	< 0.5
24	42	0	< 0.5
25	44	0	< 0.5
26	44	0	< 0.5
27	48	0	< 0.5
28	42	0	< 0.5
29	64	0	< 0.5
30	42	0	< 0.5
31	44	0	< 0.5
32	46	0	< 0.5
33	48	0	< 0.5
34	48	0	< 0.5
L 34N 35E	42	0	< 0.5
Std. #24	51	17	< 0.5



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TO: El Paso Mining and Milling Company,
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El Paso Mining & Milling Co.

CERTIFICATE NO. 16610
INVOICE NO. 6165
DATE RECEIVED sept. 20/71
DATE ANALYSED Sept. 22/71

ATTN: Mr.G.Noel & Mr.H.Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L34N Δ 36E	50	0	< 0.5
L36N 10E	40	0	< 0.5
11	44	0	< 0.5
12	42	0	< 0.5
13	38	0	< 0.5
14	36	0	< 0.5
15	41	0	< 0.5
16	41	0	< 0.5
17	40	0	< 0.5
18	42	0	< 0.5
19	44	0	< 0.5
20	36	0	< 0.5
21	50	0	< 0.5
22	42	0	< 0.5
23	42	0	< 0.5
24	42	0	< 0.5
25	42	0	< 0.5
26	41	0	< 0.5
27	44	0	< 0.5
28	63	0	< 0.5
29	42	0	< 0.5
30	48	0	< 0.5
31	44	0	< 0.5
32	48	0	< 0.5
33	44	0	< 0.5
34	62	0	< 0.5
35	52	0	< 0.5
L36N 36E	48	0	< 0.5
L38N 10E	46	0	< 0.5
11	51	0	< 0.5
12	33	0	< 0.5
13	20	0	< 0.5
14	42	0	< 0.5
15	42	0	< 0.5
16	38	0	< 0.5
17	41	0	< 0.5
18	48	0	< 0.5
19	40	0	< 0.5
20	44	0	< 0.5
L38N 21E	42	0	< 0.5
Std. #24	54	16	< 0.5

*11/20/71
11/21/71*



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SEP 23 1971
El Paso Mining & Milling Co.

CERTIFICATE NO. 16611
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

ATTN: Mr. G. Noel & Mr. H. Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L38N Δ 22E	44	0	< 0.5
23	56	0	< 0.5
24	40	0	< 0.5
25	42	0	< 0.5
26	52	0	< 0.5
27	41	0	< 0.5
28	41	0	< 0.5
29	42	0	< 0.5
30	52	0	< 0.5
31	51	0	< 0.5
32	46	0	< 0.5
33	44	0	< 0.5
34	58	0	< 0.5
35	44	0	< 0.5
L 38N 36E	54	0	< 0.5
L 40N 10E	41	0	< 0.5
11	48	0	< 0.5
12	38	0	< 0.5
13	34	0	< 0.5
14	36	0	< 0.5
15	38	0	< 0.5
16	34	0	< 0.5
17	42	0	< 0.5
18	44	0	< 0.5
19	38	0	< 0.5
20	44	0	< 0.5
21	50	0	< 0.5
22	40	0	< 0.5
23	42	0	< 0.5
24	41	0	< 0.5
25	44	0	< 0.5
26	66	0	< 0.5
27	38	0	< 0.5
28	60	0	< 0.5
29	50	0	< 0.5
30	56	0	< 0.5
31	56	0	< 0.5
32	52	0	< 0.5
33	50	0	< 0.5
L 40N 34E	44	0	< 0.5
Std. #24	51	16	< 0.5



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RECEIVED
SEP 23 1971
El Paso Mining & Milling Co.

CERTIFICATE NO. 16612

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

INVOICE NO. 6165

DATE RECEIVED Sept. 20/71

ATTN: Mr. G. Noel & Mr. H. Jones

DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L40N Δ 35E	41	0	< 0.5
L40N 36E	52	0	< 0.5
L42N 10E	51	0	< 0.5
11	46	0	< 0.5
12	38	0	< 0.5
13	33	0	< 0.5
14	41	0	< 0.5
15	41	0	< 0.5
16	44	0	< 0.5
17	41	0	< 0.5
18	41	0	< 0.5
19	44	0	< 0.5
20	42	0	< 0.5
21	40	0	< 0.5
22	42	0	< 0.5
23	41	0	< 0.5
24	44	0	< 0.5
25	48	0	< 0.5
26	42	0	< 0.5
27	44	0	< 0.5
28	48	0	< 0.5
29	40	0	< 0.5
30	52	0	< 0.5
31	54	0	< 0.5
32	48	0	< 0.5
33	44	0	< 0.5
34	50	0	< 0.5
35	40	0	< 0.5
L42N 36E	44	0	< 0.5
L44N 11E	46	0	< 0.5
12	44	0	< 0.5
13	40	0	< 0.5
14	41	0	< 0.5
15	38	0	< 0.5
16	50	0	< 0.5
17	44	0	< 0.5
18	40	0	< 0.5
19	41	0	< 0.5
20	46	0	< 0.5
L44N 21E	41	0	< 0.5
Std. #24	51	16	< 0.5



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SEP 23 1971
El Paso Mining & Milling Co.

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

ATTN: Mr. G.A.Noel & Mr. H. Jones

CERTIFICATE NO. 16613
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L44N Δ 22E	42	0	< 0.5
23	40	0	< 0.5
24	46	0	< 0.5
25	50	0	< 0.5
26	50	0	< 0.5
27	98	3	0.5
28	40	0	< 0.5
29	41	0	< 0.5
30	50	0	< 0.5
31	64	0	0.5
32	44	0	< 0.5
33	42	0	< 0.5
34	31	0	0.5
35	42	0	< 0.5
L44N 36E	40	0	< 0.5
L46N 11E	51	0	< 0.5
12	38	0	< 0.5
13	44	0	< 0.5
14	46	1	< 0.5
15	44	0	< 0.5
16	38	0	< 0.5
17	38	0	< 0.5
18	44	0	< 0.5
19	42	0	< 0.5
20	44	0	< 0.5
21	42	0	< 0.5
22	33	0	< 0.5
23	44	0	< 0.5
24	41	0	< 0.5
25	54	0	< 0.5
26	40	0	< 0.5
27	50	0	< 0.5
28	46	0	< 0.5
29	41	0	< 0.5
30	46	0	< 0.5
31	52	0	< 0.5
32	46	0	< 0.5
33	62	0	< 0.5
34	42	0	< 0.5
L46N 35E	44	0	< 0.5
Std. #24	51	17	< 0.5



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RECEIVED
SEP 23 1971
El Paso Mining & Milling Co.

CERTIFICATE NO. 16614
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

ATTN: Mr. G. Noel & Mr. H. Jones

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L46N A 36E	50	0	< 0.5
L48 11E	34	0	< 0.5
12	22	0	< 0.5
L48N 15E	33	0	< 0.5
16	44	0	< 0.5
17	44	0	< 0.5
18	48	0	< 0.5
19	42	0	< 0.5
20	50	0	< 0.5
21	48	0	< 0.5
22	48	0	< 0.5
23	41	0	< 0.5
24	42	0	< 0.5
25	46	0	< 0.5
26	48	0	< 0.5
27	44	0	< 0.5
28	46	0	< 0.5
29	16	0	1.5
30	46	0	< 0.5
31	48	0	< 0.5
32	48	0	< 0.5
33	52	0	< 0.5
34	48	0	< 0.5
35	50	0	< 0.5
L48N 36E	48	0	< 0.5
L50N 10E	38	1	< 0.5
L50N 17E	52	0	< 0.5
18	48	0	< 0.5
19	48	0	< 0.5
20	41	0	< 0.5
21	42	0	< 0.5
22	44	0	< 0.5
23	41	0	< 0.5
24	42	0	< 0.5
25	42	0	< 0.5
26	42	0	< 0.5
27	52	0	< 0.5
28	20	0	1.5
29	10	0	1.0
L50N 30E	21	0	< 0.5
Std. #24	52	17	< 0.5



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RECEIVED
SEP 23 1971
El Paso Mining & Milling Co.

TO: El Paso Mining and Milling Company
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

ATTN: Mr. G.A. Noel & H. Jones

CERTIFICATE NO. 16615
INVOICE NO. 6165
DATE RECEIVED Sept. 20.71
DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L50N Δ 31E	36	0	< 0.5
32	40	0	< 0.5
33	40	0	< 0.5
34	46	0	< 0.5
35	36	0	< 0.5
L50N 36E	40	0	< 0.5
L52N 10E	36	0	< 0.5
11	33	0	< 0.5
123	34	0	< 0.5
L52N 13E	28	0	< 0.5
L52N 18E	33	0	< 0.5
19	33	0	< 0.5
20	44	0	< 0.5
21	44	0	< 0.5
22	40	0	< 0.5
23	48	0	< 0.5
24	44	0	< 0.5
25	40	0	< 0.5
26	46	0	< 0.5
27	48	0	< 0.5
28	8	0	0.5
29	14	0	1.0
30	36	0	< 0.5
31	40	0	< 0.5
32	38	0	< 0.5
33	36	0	< 0.5
34	38	0	< 0.5
35	40	0	< 0.5
L52N 36E	48	0	< 0.5
L54N 9E	41	0	< 0.5
10	41	0	< 0.5
11	41	0	< 0.5
12	40	0	< 0.5
13	38	0	< 0.5
14	40	0	< 0.5
15	51	0	< 0.5
16	41	0	< 0.5
17	44	0	< 0.5
18	34	0	< 0.5
L54N 19E	40	0	< 0.5
Std. #28	52	17	< 0.5



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by

B. L. Twaites



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CANADA
TELEPHONE: 985-0648

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CERTIFICATE OF ANALYSIS

RECEIVED

CERTIFICATE NO. 16616

TO: El Paso Mining and Milling Company,
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

SEP 23 1971

INVOICE NO. 6165

DATE RECEIVED Sept. 20/71

ATTN: Mr. G. Noel & Mr. H. Jones

El Paso Mining & Milling Co.

DATE ANALYSED Sept. 22/71

SAMPLE NO.:	PPM Copper	PPM Molybdenum	PPM Silver
L54 Δ 20E	40	0	< 0.5
21	40	0	< 0.5
22	42	0	< 0.5
23	42	0	< 0.5
24	44	0	< 0.5
25	42	0	< 0.5
26	41	0	< 0.5
27	44	0	< 0.5
28	46	0	< 0.5
29	44	0	< 0.5
30	40	0	< 0.5
31	41	0	< 0.5
32	40	0	< 0.5
33	44	0	< 0.5
34	36	0	< 0.5
35	31	0	< 0.5
L54N 36E	40	0	< 0.5
L56N 9E	42	0	< 0.5
10	42	0	< 0.5
11	42	0	< 0.5
12	48	0	< 0.5
13	46	0	< 0.5
14	42	0	< 0.5
15	40	0	< 0.5
16	42	0	< 0.5
17	40	0	< 0.5
18	40	0	< 0.5
19	40	0	< 0.5
20	40	0	< 0.5
21	41	0	< 0.5
22	40	0	< 0.5
23	41	0	< 0.5
24	52	0	< 0.5
25	46	0	< 0.5
26	41	0	< 0.5
27	46	0	< 0.5
28	51	0	< 0.5
29	51	0	< 0.5
30	46	0	< 0.5
L56N 31E	44	0	< 0.5
Std. #24	52	17	< 0.5



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B. Swaites

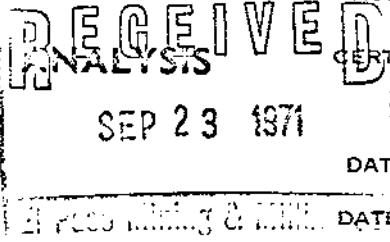


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CERTIFICATE OF ANALYSIS



CERTIFICATE NO. 16617
INVOICE NO. 6165
DATE RECEIVED Sept. 20/71
DATE ANALYSED Sept. 22/71

TO: El Paso Mining and Milling Company
#500 - 885 Dunsmuir St.,
Vancouver, B. C.

ATTN: Mr. G. Noel & Mr. H. Jones

SAMPLE NO.:	PPM	PPM	PPM
	Copper	Molybdenum	Silver
L56N Δ 32E	42	0	< 0.5
33	42	0	< 0.5
34	41	0	< 0.5
35	38	0	< 0.5
L56N 36E	38	0	< 0.5



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STATEMENT OF COSTS

1. Geochemical Survey

(a) Wages

R. Wellwood 9 days Sept. 10 - 18, 1971 @ \$600/month = \$ 180.00
D. Lepatourel 9 days Sept. 10 - 18, 1971 @ \$550/month = 165.00

(b) Room and Board 9 days @ \$16.00/day = 144.00

(c) Vehicle 9 days @ \$7.00/day = 63.00

(d) Analyses 722 samples @ \$2.00 (Cu, Mo, Ag) = 1,444.00

\$ 1,996.00

2. Geological Survey

(a) Wages

G. Noel 5 days May 11 - 15, 1972 @ \$1832/month = 305.00
H. Jones 5 days May 11 - 15, 1972 @ \$1432/month = 239.00

(b) Room and Board 5 days @ \$16.00/day = 80.00

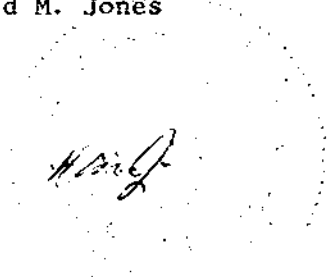
(c) Vehicle 5 days @ \$ 5.00/day = 25.00

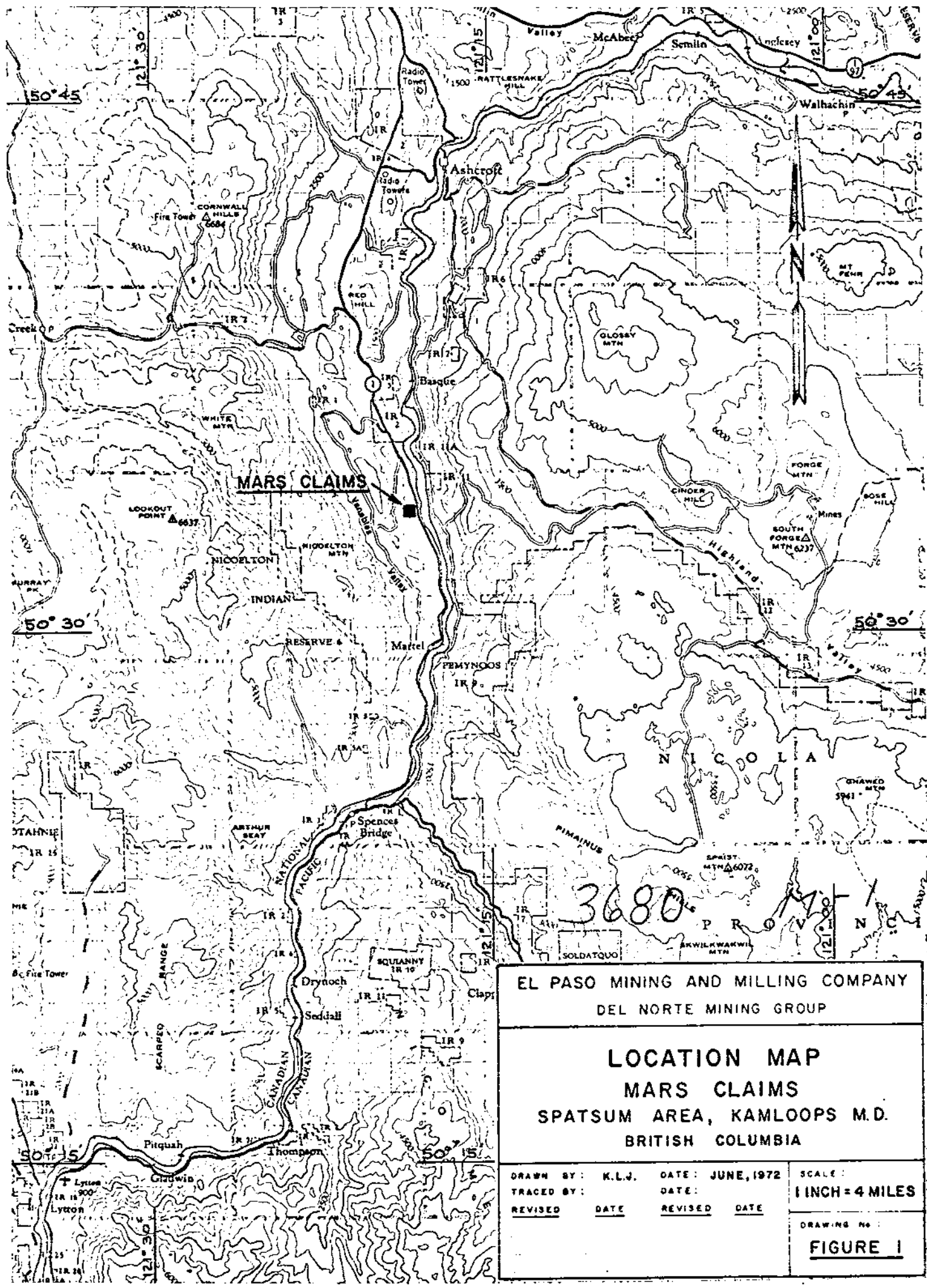
\$ 649.00

TOTAL EXPENDITURE \$ 2,645.00

Harold M. Jones

Harold M. Jones





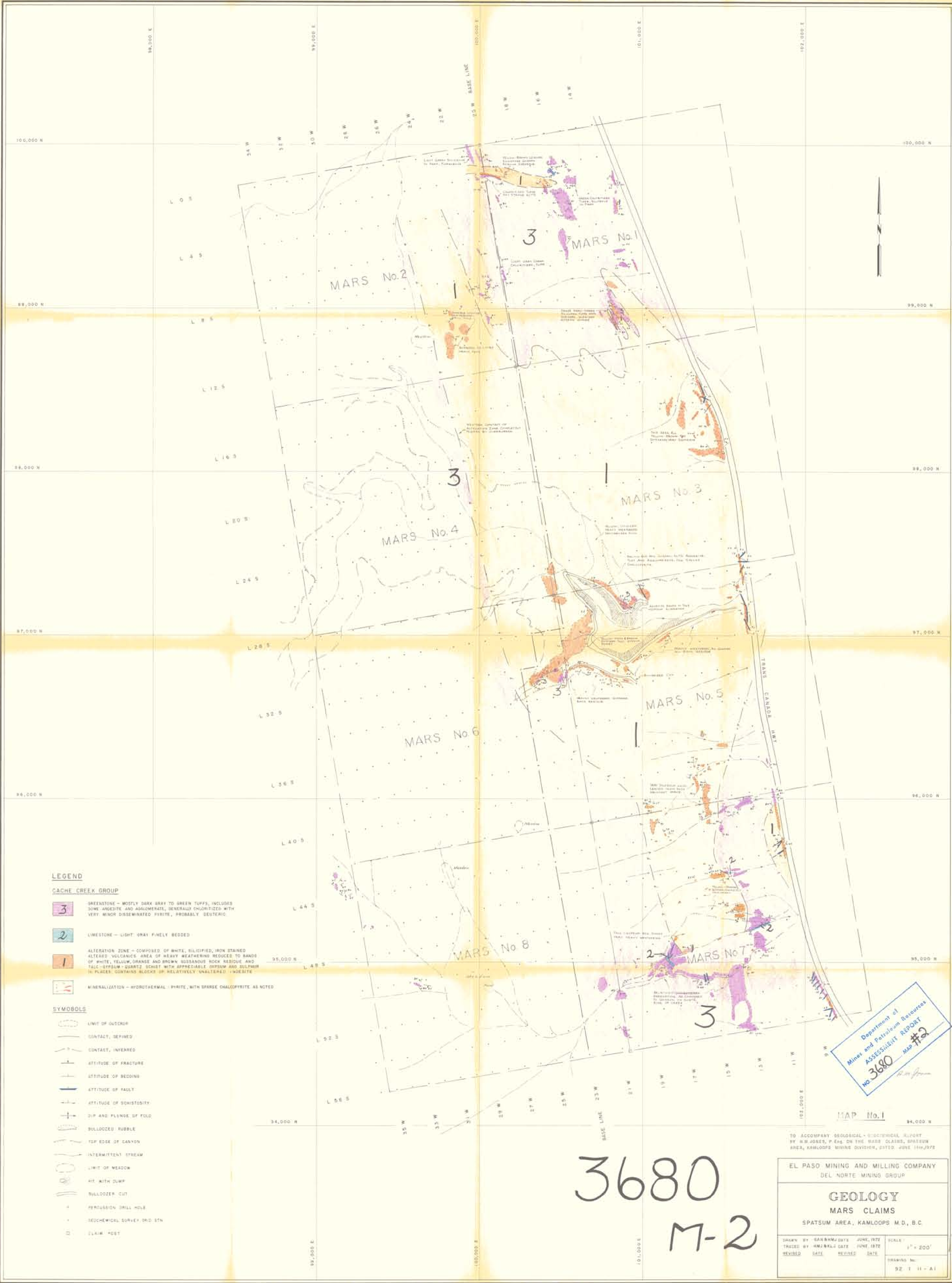
EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

LOCATION MAP
MARS CLAIMS
SPATSUM AREA, KAMLOOPS M.D.
BRITISH COLUMBIA

DRAWN BY: K.L.J.	DATE: JUNE, 1972	SCALE: 1 INCH = 4 MILES
TRACED BY:	DATE:	DRAWING No: FIGURE 1
REVISED DATE	REVISED DATE	

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3680 MAP #1



LEGEND

CACHE CREEK GROUP

- 3 GREENSTONE - MOSTLY DARK GRAY TO GREEN TUFFS, INCLUDES SOME ANDESITE AND ANDALUSITE, GENERALLY CHLORITIZED WITH VERY MINOR DISSEMINATED PYRITE, PROBABLY DEUTERIC
- 2 LIMESTONE - LIGHT GRAY FINELY BEDDED
- 1 ALTERATION ZONE - COMPOSED OF WHITE, SILICIFIED, IRON STAINED ALTERED VOLCANICS. AREA OF HEAVY WEATHERING REDUCED TO BANDS OF WHITE, YELLOW, ORANGE AND BROWN MASSIVE ROCK RESIDUE AND TALC-SYLSUM-QUARTZ SCHIST WITH APPRECIABLE GYPSUM AND SULPHUR IN PLACES. CONTAINS BLOCKS OF RELATIVELY UNALTERED ANDESITE
- MINERALIZATION - HYDROTHERMAL - PYRITE, WITH SPARSE CHALCOPYRITE AS NOTED

SYMBOLS

- LIMIT OF OUTCROP
- CONTACT, DEFINED
- CONTACT, INFERRED
- ATTITUDE OF FRACTURE
- ATTITUDE OF BEDDING
- ATTITUDE OF FAULT
- ATTITUDE OF SCHISTOSITY
- DIP AND PLUNGE OF FOLD
- BULLDOZED RUBBLE
- TOP EDGE OF CANYON
- INTERMITTENT STREAM
- LIMIT OF MEADOW
- PIT WITH DUMP
- BULLDOZER CUT
- PROGRESSION DRILL HOLE
- GEOCHEMICAL SURVEY AND STN
- CLAIM POST

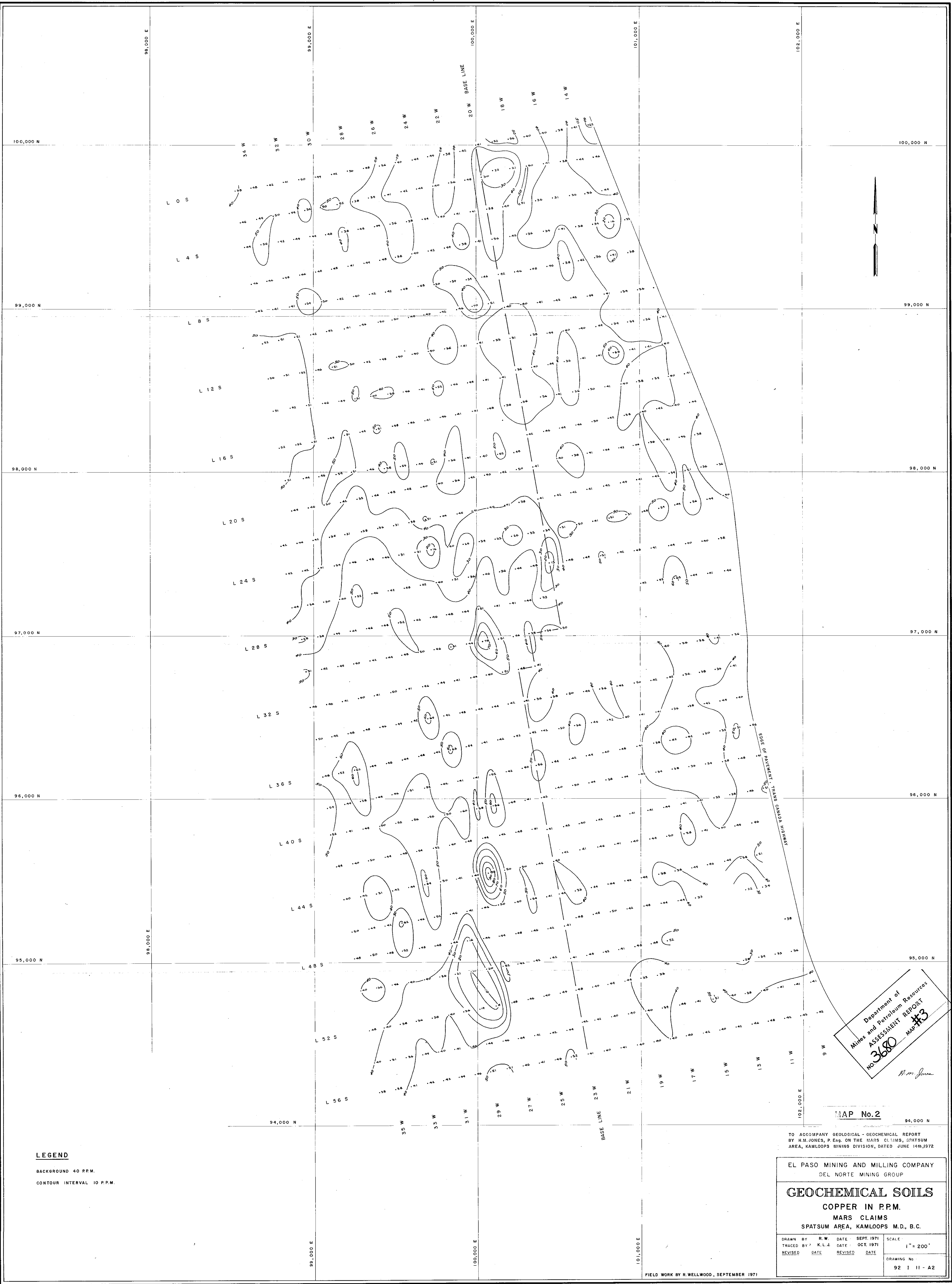
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 No. 3680 Map #2

3680
M-2

MAP No. 1

TO ACCOMPANY GEOLOGICAL & ECONOMIC REPORT BY R.H. JONES, P. Eng. ON THE MARS CLAIMS, SPATSUM AREA, KAMLOOPS MINING DIVISION, DATED JUNE 15th, 1972

EL PASO MINING AND MILLING COMPANY DEL NORTE MINING GROUP	
GEOLOGY MARS CLAIMS SPATSUM AREA, KAMLOOPS M.D., B.C.	
DRAWN BY: GARBH/M/G/AYE JUNE, 1972	SCALE: 1" = 200'
TRACED BY: H.M.J./R.L.G/AYE JUNE, 1972	REVISED DATE: REVISED DATE
DRAWING No. 92 1 11 - A1	



LEGEND
 BACKGROUND 40 P.P.M.
 CONTOUR INTERVAL 10 P.P.M.

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3680
 Map #13
B.M. Jones

MAP No. 2

TO ACCOMPANY GEOLOGICAL - GEOCHEMICAL REPORT
 BY R.M. JONES, P. ENG. ON THE MARS CLAIMS, SPATSUM
 AREA, KAMLOOPS MINING DIVISION, DATED JUNE 14th, 1972

EL PASO MINING AND MILLING COMPANY
 DEL NORTE MINING GROUP
GEOCHEMICAL SOILS
 COPPER IN P.P.M.
 MARS CLAIMS
 SPATSUM AREA, KAMLOOPS M.D., B.C.

DRAWN BY	R.W.	DATE	SEPT 1971	SCALE	1" = 200'
TRACED BY	K.L.A.	DATE	OCT 1971		
REVISED	DATE	REVISED	DATE		
				DRAWING No	92 111 - A2

FIELD WORK BY R. WELLWOOD, SEPTEMBER 1971