4761

82L/1W

GEOCHEMICAL AND GEOPHYSICAL REPORT

ON THE

R O S E GROUP OF CLAIMS

KEEFER LAKE AREA, B.C.

LOCATED: IMMEDIATELY NORTH OF KEEFER LAKE, B.C.
(50° 08' N, 118° 20' W)

VERNON M. D., B. C.

BY

V. RYBACK-HARDY, P. ENG.

EL PASO MINING AND MILLING COMPANY

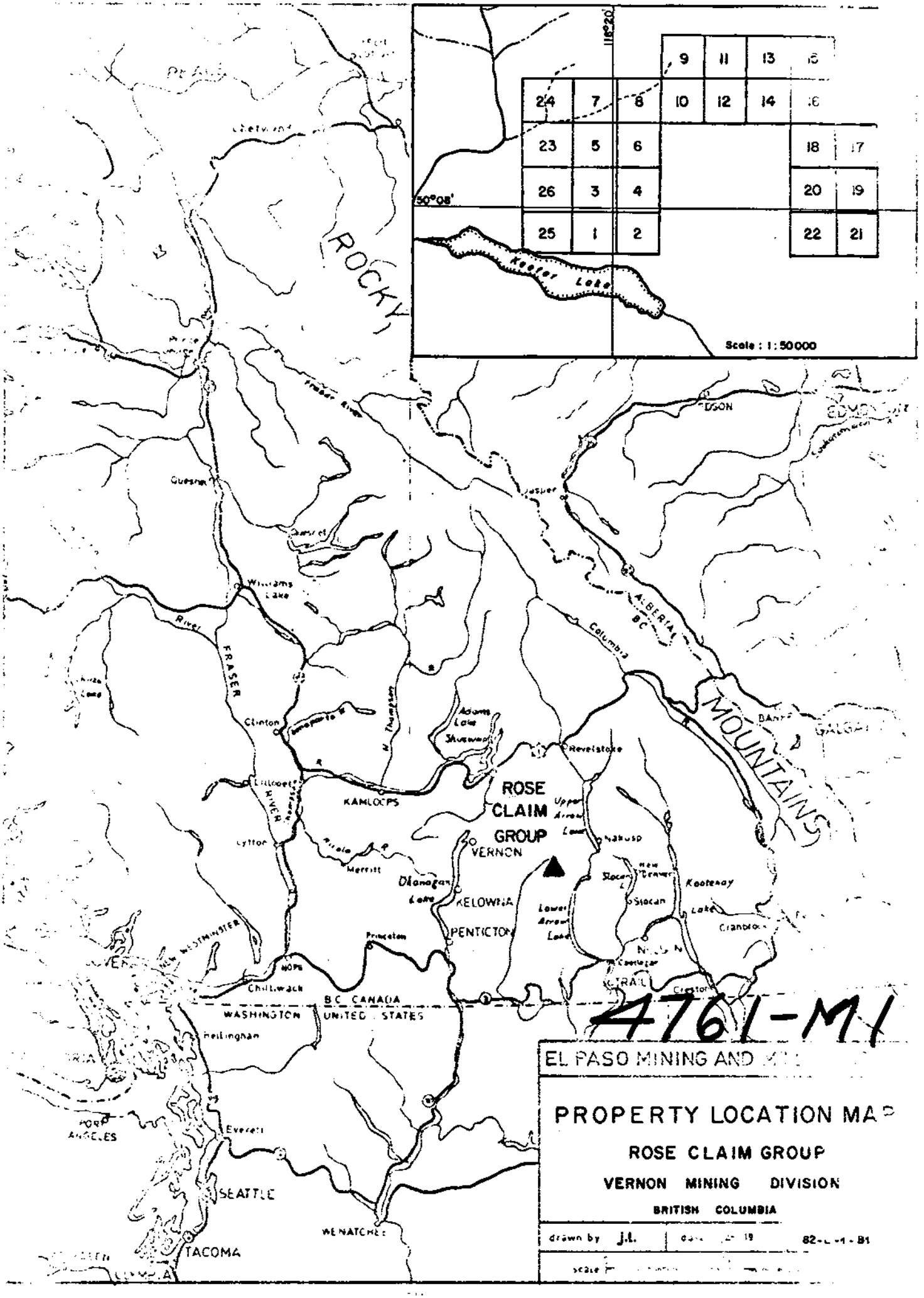
DECEMBER 5TH, 1973

TABLE OF CONTENTS

SUMMARY

Between October 5th and October 16th, 1973 a crew of three completed a preliminary program of soil sampling and conducted a VLF-EM Survey on the ROSE Group of mineral claims. The claims are located 35 miles east of Lumby, B.C., at the headwaters of the Kettle River and are owned by El Paso Mining and Milling Company. The claims are underlain by quartzites and argillites of the Permian Cache Creek Group, intruded by a northerly trending dyke or sill of diorite several hundred feet in width.

Soil analyses indicate a strong arsenic anomaly on ROSE No. 2 claim. VLF-EM response in the geochemically anomalous area is very poor. Further soil sampling to detail and confirm the anomaly is recommended. Overburden stripping over the soil anomaly should be dependent upon the assay results of the follow-up sampling. An I.P. Survey over ROSE No. 2 is also recommended, depending on the results of the follow-up soil survey and surface trenching.



476-M1

EL PASO MINING AND

PROPERTY LOCATION MAP

ROSE CLAIM GROUP

VERNON MINING DIVISION

BRITISH COLUMBIA

drawn by J.L. | date [illegible] 19 | 82-L-1-B1

scale [illegible]

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4761 MAP #1

INTRODUCTION

Between October 5th and October 16th, 1973 a geologist and two field assistants conducted a preliminary geochemical survey and a VLF-EM survey on the ROSE Group of mineral claims.

The ROSE Group consists of ROSE Nos' 1 to 6 inclusive staked by V. Ryback-Hardy on September 27th, 1973. The claims are presently owned by the El Paso Mining and Milling Company.

The mineral claim group is located approximately 37 miles east of Vernon at the headwaters of the Kettle River. The claims are immediately north of Keefer Lake.

The claim location line runs due north up the southern slope of a moderately steep incline rising out of Keefer Lake. The southern half of the claim group has been recently logged ; originally the timber consisted of cedar and fir with some spruce.

FIELDWORK

During the period October 5th to October 16th, 1973 a geologist and two field assistants completed a preliminary geochemical soil survey and a VLF-EM survey on the ROSE 1 - 6 Claims.

A 4500-foot baseline was run due north along the location line of ROSE 1 - 6. At 400-foot intervals, cross lines were run east-west at right angles to the baseline to the edge of the claim boundaries, a total distance of 3000 feet. The grid was established, using a "Sylva" compass and a "Topochaix", a "lost" thread device which records the length of string unreeling from an odometer in the unit, thus measuring a distance or length covered.

Soil samples were collected at 100-foot intervals along the cross lines from the "B" horizon at an average depth of 0.3 meters, using a mattock. The soils were stored in Kraft paper envelopes and marked with the grid location.

A VLF-EM survey was carried out in conjunction with the soil survey. Dip angle readings were taken along the cross lines at 50-foot intervals.

GEOLOGY

Due to limitations of time and adverse weather, geological mapping was not completed over the claim area; however, the claims are generally underlain by argillites and quartzites of the Permian Cache Creek group. Earlier prospecting indicated a northerly trending dyke or sill of diorite cutting across ROSE #2. The limits of this intrusive body were not defined, but it is believed that the width is in the order of several hundred feet.

GEOCHEMICAL RESULTS

Three hundred twenty-four soil samples were collected and analyzed by Min-En Laboratories Ltd., 705 West 15th Street, North Vancouver, B.C. as follows:

The samples were dried and sieved. A one gram portion of the -80 mesh fraction of each sample was allowed to react with two mls of concentrated nitric acid (HNO_3) for one half hour. Then five mls of perchloric acid ($HClO_4$) were added and the sample was allowed to digest for five hours at 250°F. The sample was diluted to 25 mls with distilled water and then analyzed for arsenic, lead and silver by the atomic absorption method.

The various metal contents of the soil samples, in parts per million, were plotted separately on frequency histograms and log probability versus cumulative percent frequency diagrams. The statistical data is difficult to interpret for arsenic as the probability plot is not linear. However, a distinct break in slope of the probability curve occurs at 20 ppm.

This was chosen as the threshold value. Background at the 50 percentile is 11 ppm. The following parameters were chosen:

Possibly anomalous	20 - 60 ppm
Probably anomalous	60 - 100 ppm
Definitely anomalous	> 100 ppm

The distribution of the silver and lead values is more linear and the following parameters were chosen with respect to the mean and standard deviation for a normal distribution. For this distribution, the value of the mean (m) plus one standard deviation (d) is found at the 84.13 percentile and the mean (m) is found at the 50 percentile.

	Ag	Pb
m+d =	2.6 ppm	30 ppm
m =	2.0 ppm	23 ppm
d =	0.6 ppm	7 ppm
Possibly anomalous > m+d, < m+2d =	2.6 - 3.2 ppm	30-37 ppm (30-40)
Probably anomalous > m+2d, < m+4d=	3.2 - 4.4 ppm	37-51 ppm (40-50)
Definitely anomalous > m=4d =	4.4 ppm	51 ppm (> 50)

The metal values were plotted on the grid plan and contoured as outlined above at a scale of 1"=200'. The geochemical response for silver and lead is very poor; however, a strong anomaly occupying almost all of ROSE #2 is indicated on the four hundred foot line spacing. The arsenic anomaly is 1200 feet long and 1100 feet wide. It is open to the south and possibly to the northeast although the arsenic values drop off somewhat in this direction.

GEOPHYSICS

A VLF EM-16 survey was carried out in conjunction with the geochemical soil survey. A simplified discussion of VLF electromagnetic surveying is as follows:

The VLF (very low frequency) transmitting station (in this case, N.P.G., 18.6 KHZ, Seattle, Washington) operating for communication with submarines has a vertical antenna. The antenna current is thus vertical, creating a concentric horizontal oscillating magnetic field encounters conductive bodies, secondary fields are induced about the conductors.

The VLF-EM instrument (Ronka EM-16) measures the vertical component or resultant of the secondary field. When the plane of the search coil is in the same direction as the magnetic vector of the resultant field, there will be a null (or minimum) in the radio signal. The inclination of the field is thus a measure of the conductivity of the ground beneath.

The inclination or dip angle is recorded on a field sheet to facilitate computation of the filtered dip angle. The numerical filtering technique is such that the sum of two adjacent readings (M_3 and M_4) is subtracted from the sum of the previous two adjacent readings (M_1 and M_2) with the filtered value plotted midway between the M_2 and M_3 stations.

This filtering technique minimizes "noise" caused by near surface features such as changes in topography, creeks and shallow shears in bedrock.

The filtered readings were plotted and contoured. A narrow linear conductor was outlined trending N30°E approximately 800 to 1000 feet west of the strong arsenic anomaly. The area beneath the arsenic anomaly did not respond to the VLF-EM.

CONCLUSIONS AND RECOMMENDATIONS

A strong arsenic soil anomaly was outlined on ROSE #2 on a 400-foot line spacing and 100-foot sample interval. VLF-EM results do not indicate the presence of conductors through the underlying area indicating that if any mineralization is associated with anomalous values of arsenic in soils, it may be of the disseminated type rather than vein or massive sulfide replacement.

The arsenic soil anomaly warrants further detailing by soil sampling at a 200-foot line spacing to confirm the extent of the anomaly. If the soil results warrant further interest, the area should be mapped geologically and overburden stripping over the higher anomalous values should be considered as a prelude to any anticipated drilling.

An I.P. survey would be advisable to determine the presence of disseminated metallic minerals underlying the arsenic anomaly.

EL PASO MINING AND MILLING CO. LTD.

ROSE MINERAL CLAIM GROUP

VERNON, M.D. BRITISH COLUMBIA.

HISTOGRAM OF ARSENIC IN P.P.M.

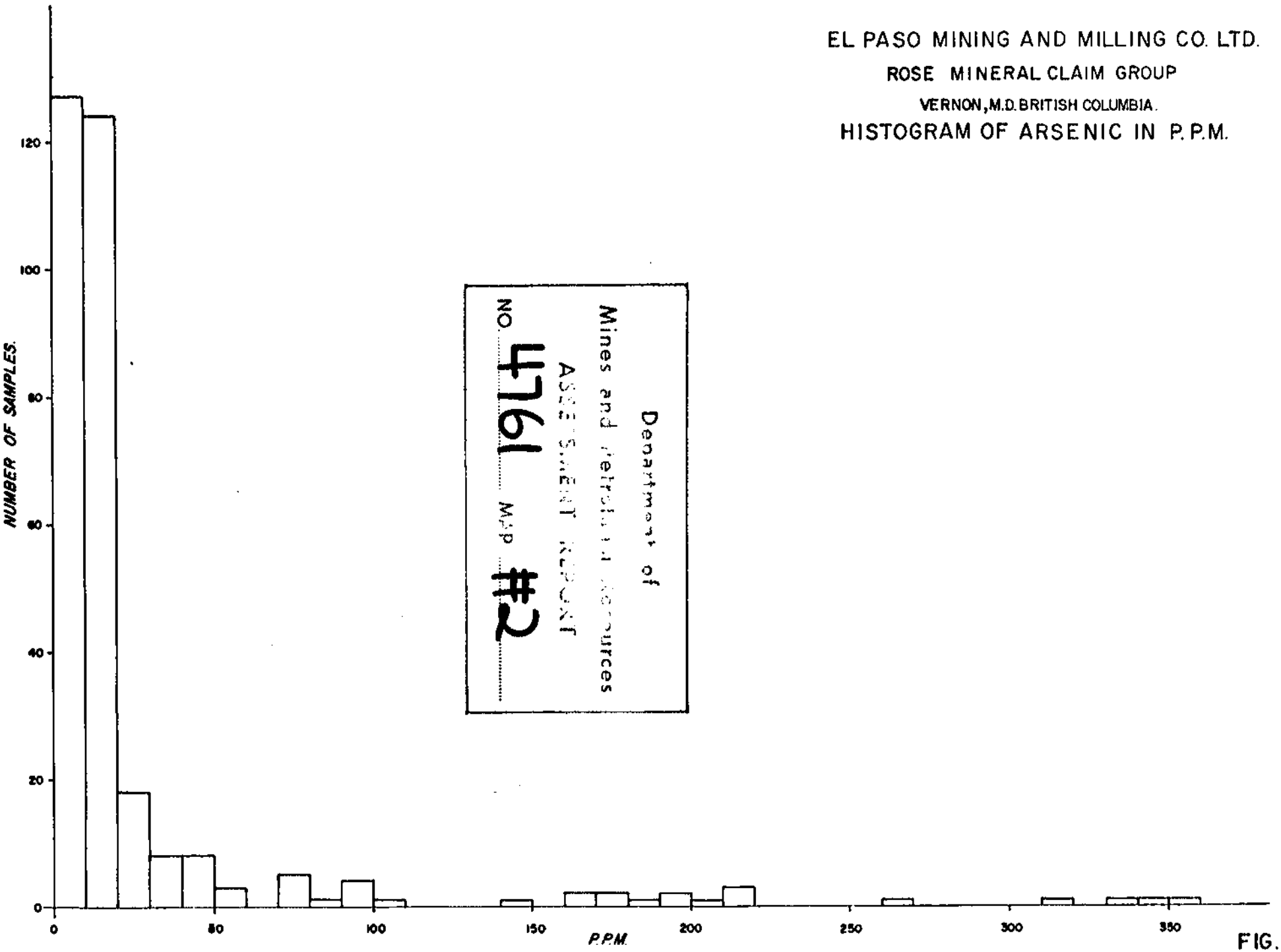


FIG. 2

EL PASO MINING AND MILLING CO. LTD.

ROSE MINERAL CLAIM GROUP

VERNON, M.D. BRITISH COLUMBIA.

HISTOGRAM OF SILVER IN P.P.M.

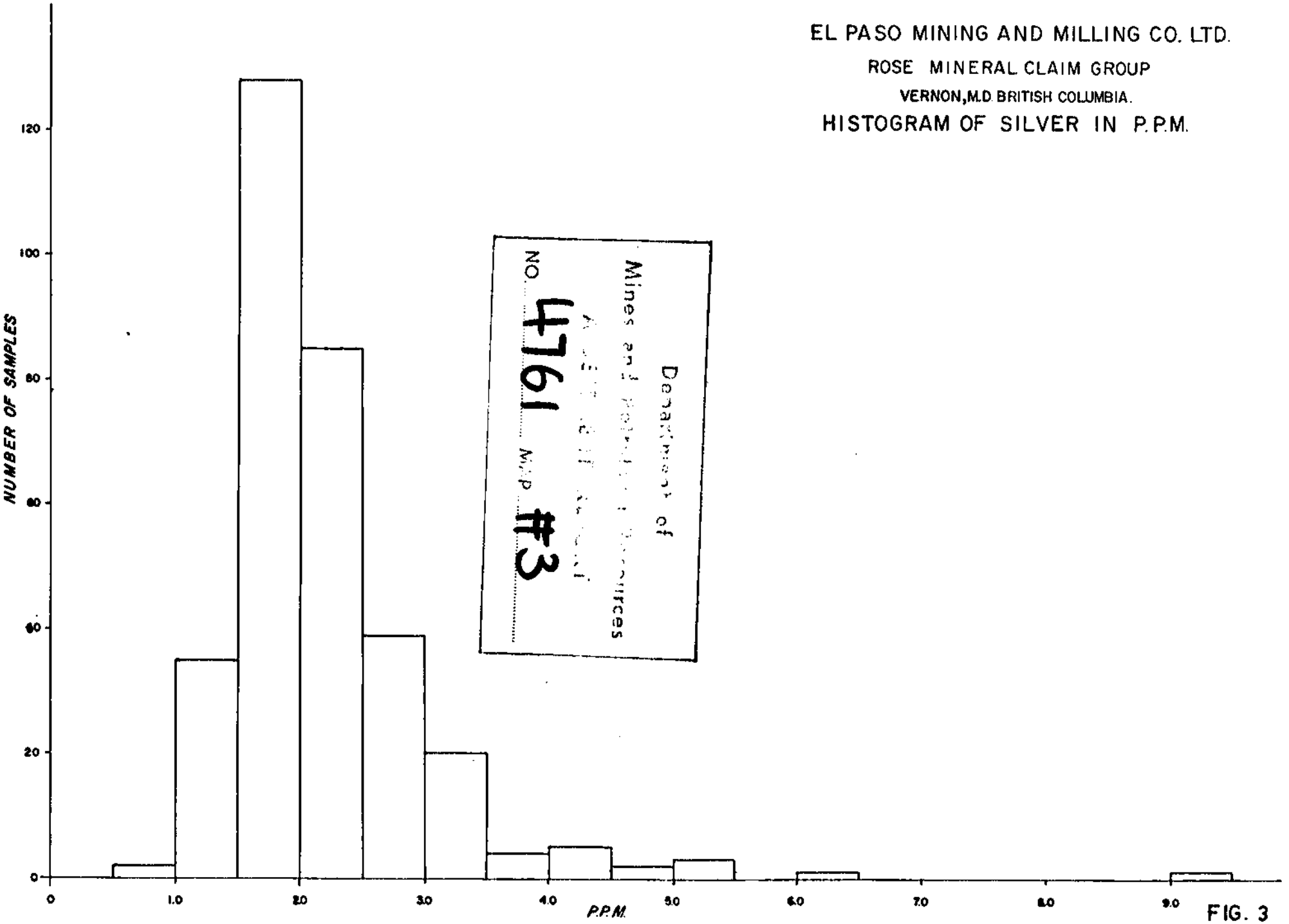


FIG. 3

EL PASO MINING AND MILLING CO. LTD.

ROSE MINERAL CLAIM GROUP

VERNON, M.D BRITISH COLUMBIA.

HISTOGRAM OF LEAD IN P.P.M.

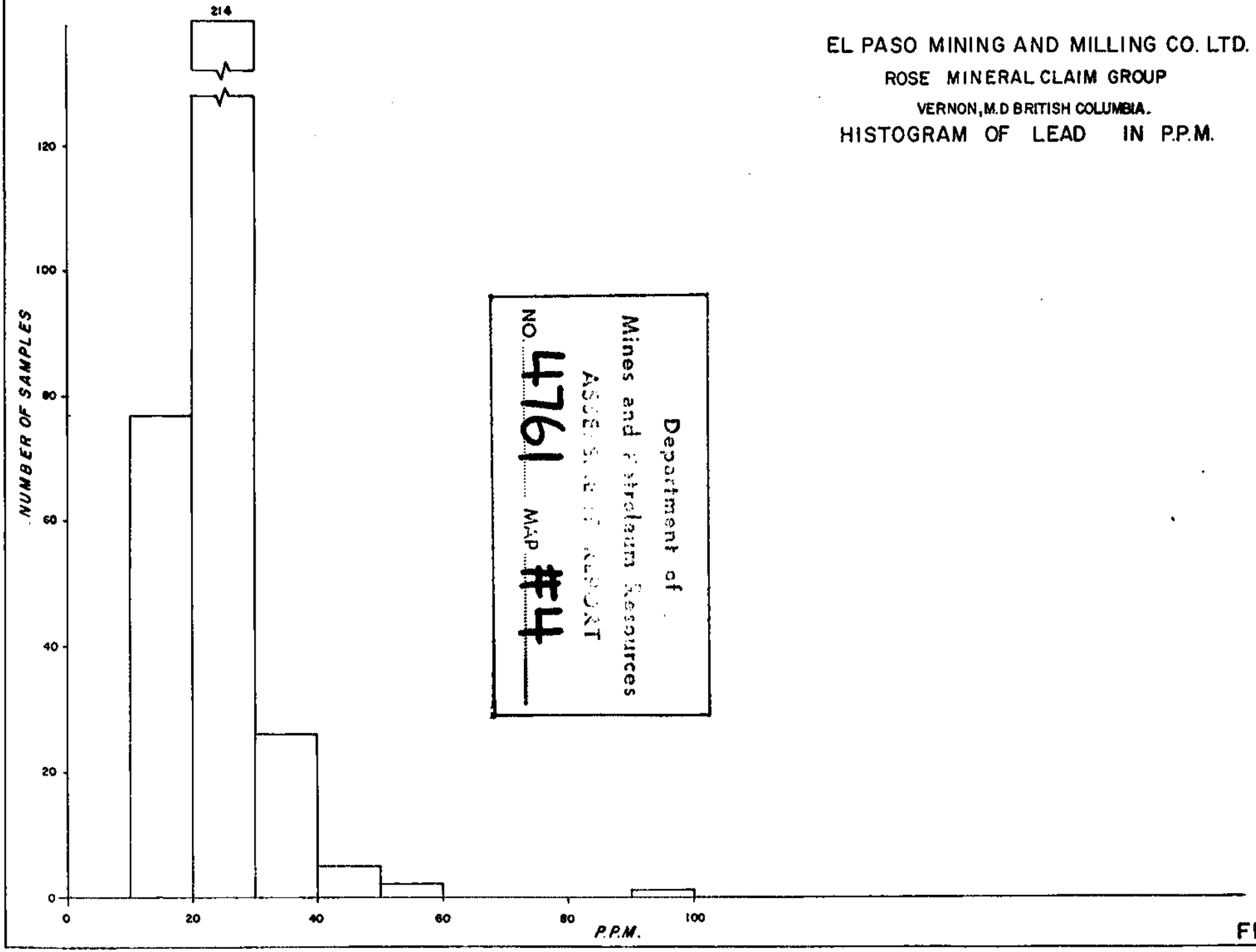


FIG. 4

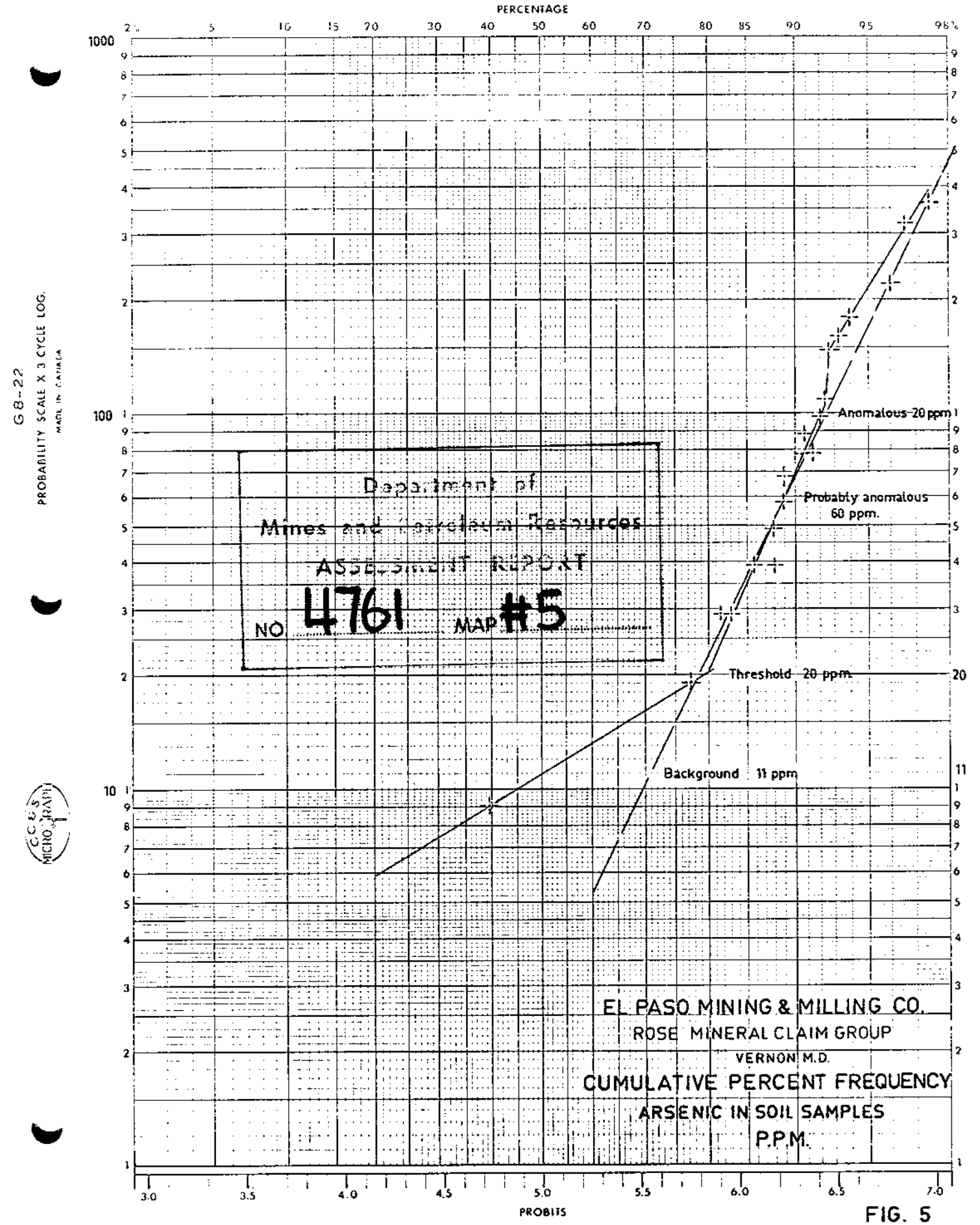
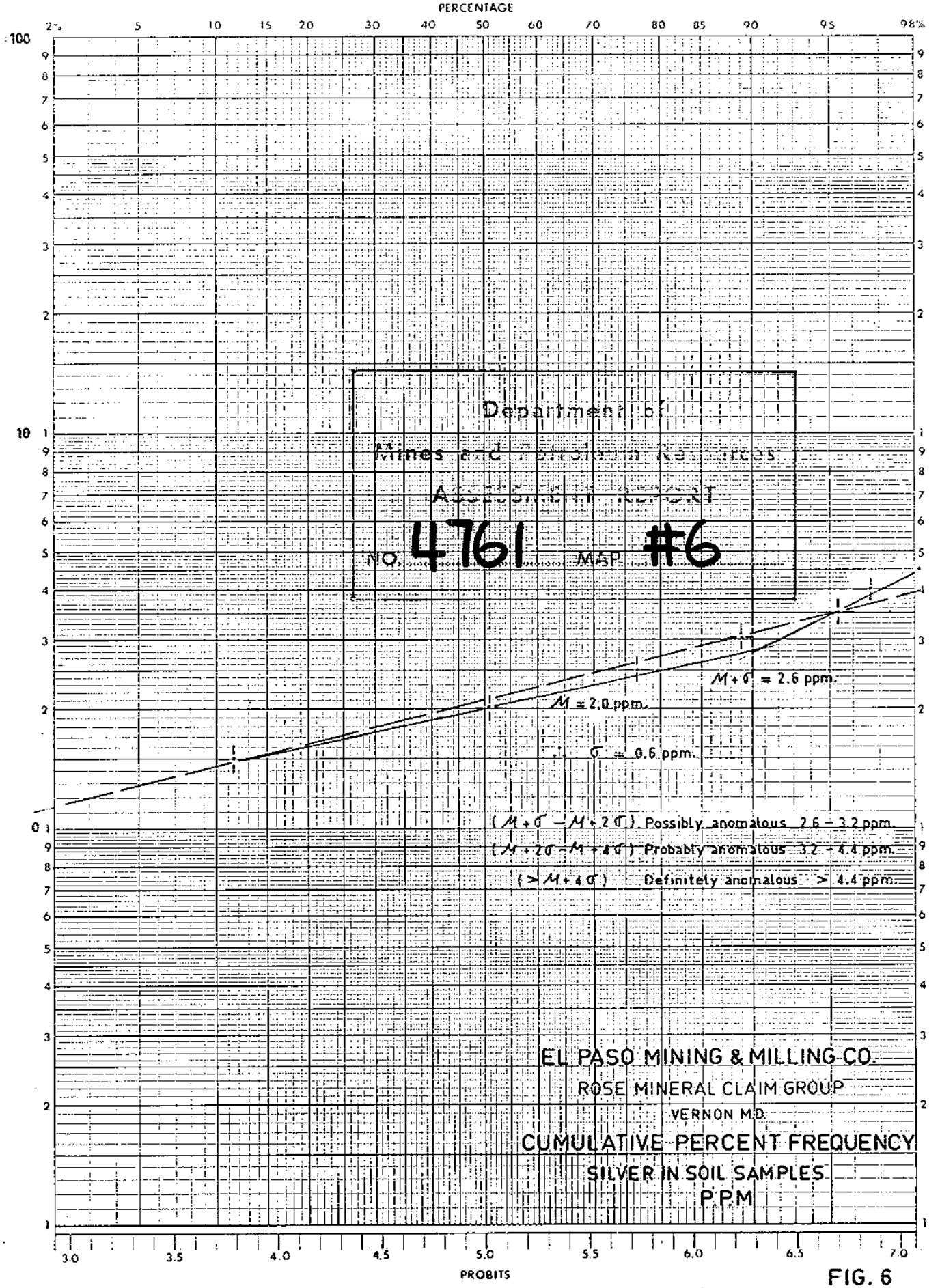


FIG. 5



G8-22
PROBABILITY SCALE X 3 CYCLE LOG.
MADE IN CANADA

FIG. 6

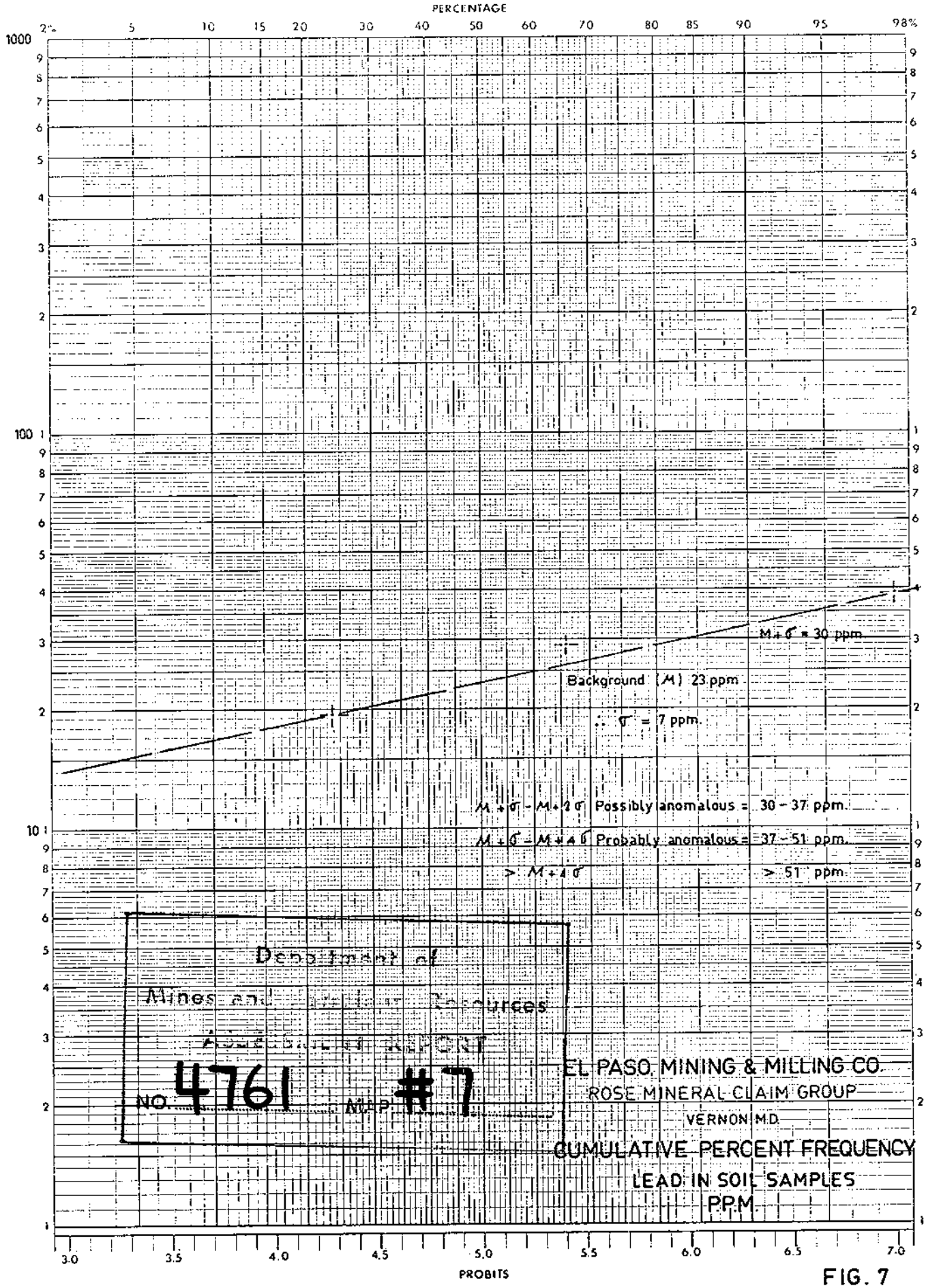

PERCENTAGE
2% 5 10 15 20 30 40 50 60 70 80 85 90 95 98%
1000
100
10
1
PROBABILITY SCALE X 3 CYCLE LOG.
MADE IN CANADA
G 8-22
M + σ = 30 ppm.
Background (M) 23 ppm
∴ σ = 7 ppm.
M + σ - M + 2 σ Possibly anomalous = 30 - 37 ppm.
M + σ - M + 4 σ Probably anomalous = 37 - 51 ppm.
> M + 4 σ > 51 ppm.
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4761 MAP #7
EL PASO MINING & MILLING CO.
ROSE MINERAL CLAIM GROUP
VERNON M.D.
CUMULATIVE PERCENT FREQUENCY
LEAD IN SOIL SAMPLES
P.P.M.
3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0
PROBITS

FIG. 7

A P P E N D I X "A"

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Victor Ryback-Hardy of Vancouver, in the Province of British Columbia, hereby certify that:

1. I am a geologist, residing at - 1169 Trumpeter Drive
   Richmond, B.C.

2. I graduated from the University of British Columbia in 1970 with a Bachelor of Applied Science, Geological Engineering degree.

3. I am a member of the Association of Professional Engineers of the Province of British Columbia (1973).

4. I am a member of the Canadian Institute of Mining and Metallurgy.

5. I have practiced my profession as a geologist for four years in British Columbia.

6. The present report is based on work performed on the ROSE CLAIMS between - OCTOBER 5th and OCTOBER 16th, 1973.

7. The fieldwork was performed and the report written as a part of my employment by EL PASO MINING AND MILLING COMPANY.

A P P E N D I X "B"

STATEMENT OF COSTS

STATEMENT OF COSTS

SALARIES: - OCTOBER 5th - OCTOBER 16th, 1973

V. RYBACK-HARDY	@	$ 903/month	for 11 days	= $ 451.55
S. THOMAS	@	600/month	for 12 days	= 327.24
L. LAMOUREUX	@	600/month	for 8 days	= 218.16
W. J. MACKENZIE	@	$ 50/day	for 1/32 day	= 50.00
				$1046.95

ROOM AND BOARD:

- @ $15.00/man/day X 32 man days---------- = 480.00

VEHICLE RENTAL:

- 14 days @ $446.25/month---------- = 208.32

ASSAYS:

- 324 samples @ $3.40/sample---------- = 1101.60

REPORT PREPARATION: (Including EM results)---------- = 200.00

TOTAL $ 3,036.87

Declared before me at the City of Vancouver, in the Province of British Columbia, this 12 day of Dec 1973, A.D.

Harold A. Nock.

A Commissioner for taking Affidavits within British Columbia or
and for the Province of British Columbi

Sub-mining Recorder

A P P E N D I X "C"

GEOCHEMICAL RESULTS

COMPANY El Paso Mining

PROJECT No.: 186-2603

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

597

Oct 23

1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag	Fe	Hg ppb	As ppm	Sb ppm
381610	96		16				3·0			10	< 2
11	96		18				2·2			21	< 2
12	94		15				1·3			41	< 2
13	100		17				2·4			33	< 2
14	102		18				2·1			17	< 2
15	104		18				1·8			20	< 2
16	106		19				1·6			15	4
17	108		18				2·1			21	6
18	110		17				2·0			48	14
19	112		22				3·5			18	< 2
20	114		22				2·1			19	8
21	116		22				2·0			24	4
22	118		24				2·1			8	11
23	120		23				2·6			5	15
24	122		21				1·7			8	< 2
25	124		29				4·3			5	7
26	126		28				3·5			6	< 2
27	128		24				2·7			9	9
28	130		25				2·0			5	7
29	132		25				2·5			7	6
30	134		32				1·7			4	9
31	136		22				2·8			5	11
381632	140		30				4·4			13	13

CERTIFIED BY Gilbert I. Hennessy

- 20 -

COMPANY: El Paso Mining

PROJECT No.:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

Oct 26
1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Au ppm	Zn ppm
L136N 102N 3816633		8.4	2.7				3.8			5		
101N 3.4		9.1	2.7				2.9			8		
103N 3.5		6.0	3.1				1.9			6		
3.6		8.5	2.6				2.8			11		
3.7		5.7	5.5				2.3			8		
3.8		8.7	2.7				4.6			7		
3.9		9.6	3.2				2.9			11		
4.0		6.3	4.1				2.0			9		
4.1		6.5	9.4				2.1			7		
4.2		7.4	2.9				2.4			6		
4.3		8.9	2.4				2.3			11		
4.4		7.4	2.8				2.4			7		
4.5		6.9	4.6				1.7			11		
4.6		11.6	5.3				2.2			14		
115E 4.7		10.7	3.2				3.1			15		
L132N 4.8		13.4	3.5				2.3			16		
4.9		8.0	3.2				2.1			12		
5.0		8.2	3.0				2.2			10		
5.1		9.9	2.5				1.9			13		
5.2		8.0	2.1				2.5			8		
5.3		7.3	2.1				1.8			8		
5.4		8.4	2.6				2.4			12		
5.5		9.2	2.4				2.4			7		
5.6		8.7	2.0				3.0			9		
5.7		11.2	2.2				3.1			10		
5.8		14.6	2.8				1.9			8		
5.9		8.5	2.7				2.1			8		
6.0		6.7	2.5				1.7			10		
6.1		6.2	2.5				1.6			6		
101E 881662		8.1	2.3				2.2			8		

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CERTIFIED BY Gilbert Titherington Ltd.

- 21 -

COMPANY: El Paso Mining

PROJECT No.: _____

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

DATE: Oct 26 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Sb ppm	W ppm
381663		50	20				1.7			11		
64		77	25				2.2			11		
65		98	27				2.4			10		
66		69	22				2.1			11		
67		73	27				2.3			11		
68		126	27				4.3			29		
69		67	34				1.7			11		
70		69	24				2.2			11		
71		59	24				2.2			14		
72		50	24				2.9			9		
73		75	22				3.1			13		
74		141	28				4.1			9		
75		137	28				3.8			13		
76		53	24				3.2			6		
77		62	23				3.5			9		
78		40	19				1.5			7		
79		43	23				2.5			10		
80		44	18				2.1			9		
81		49	20				2.4			9		
82		38	21				2.2			11		
83		51	23				2.6			20		
84		61	24				3.7			16		
85		25	22				1.6			19		
86		56	19				3.0			7		
87		52	21				4.1			9		
88		52	26				3.4			5		
89		44	22				2.2			9		
90		42	20				3.0			5		
91		57	22				2.9			8		
381692		44	22				3.2			12		

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COMPANY: El Paso Mining

PROJECT No.:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603
Oct 26
1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm
381693		59	35				1.8			8
94		70	24				3.0			8
95		51	23				2.0			8
96		71	23				1.9			8
97		126	31				2.1			9
98		111	24				2.7			7
99		103	25				2.0			7
700		89	33				1.6			11
01		73	30				2.0			9
02		62	25				1.6			8
03		118	28				2.2			11
04		102	24				1.9			7
05		121	26				2.0			10
06		80	27				2.1			9
07		114	26				2.8			11
08		103	28				1.7			13
09		120	25				3.2			12
10		147	27				2.5			12
11		99	24				1.7			8
12		108	25				2.5			11
13		128	30				2.1			16
14		81	34				2.6			10
15		63	32				1.3			8
16		55	25				2.1			8
17		80	29				1.9			11
18		64	29				1.8			12
19		100	31				2.9			10
20		159	28				5.2			10
21		134	30				3.3			10
381722		87	29				1.9			8

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Oct 29 1973

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COMPANY El Paso Mining

PROJECT No.: _____

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

FILE No. 603

DATE Oct 30 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe	Hg ppb	As	Au
381723		99	15				2·4			5	
24		102	21				2·3			8	
25		94	16				2·5			11	
26		133	22				2·5			16	
27		52	23				1·8			10	
28		102	27				2·3			10	
29		75	22				2·6			11	
30		130	21				2·9			11	
31		215	18				3·1			7	
32		47	20				2·4			8	
33		119	26				2·9			8	
34		84	20				2·5			7	
35		140	25				4·9			10	
36		120	26				3·5			16	
37		92	26				3·2			7	
38		58	21				2·0			8	
39		93	23				2·2			11	
40		83	28				5·1			19	
41		70	23				2·6			19	
42		69	25				1·9			12	
43		63	27				1·9			15	
44		52	23				2·2			12	
45		152	22				3·1			12	
46		69	26				1·6			10	
47		63	24				1·5			11	
48		95	27				2·1			16	
49		67	22				3·2			12	
50		95	24				2·3			13	
51		87	24				1·8			12	
381752		89	27				2·1			10	

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COMPANY El Paso Mining

PROJECT No.: _____

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

Oct 30 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Au ppm
3817553		52	21				1·4			10	
54		116	35				5·4			14	
55		43	24				1·4			10	
56		47	21				1·7			8	
57		40	22				1·7			8	
58		61	25				1·5			14	
59		115	26				3·2			8	
60		48	47				1·4			9	
61		55	23				2·1			7	
62		51	18				2·5			14	
63		78	27				1·7			5	
64		53	21				1·5			7	
65		58	24				1·9			8	
66		91	33				1·9			8	
67		55	20				1·1			6	
68		70	22				2·2			8	
69		37	22				2·4			18	
70		43	18				1·7			37	
71		50	21				2·1			6	
72		52	26				1·7			10	
73		59	21				1·6			10	
74		49	26				1·6			9	
75		41	22				2·5			12	
76		91	31				1·6			37	
77		52	24				1·4			14	
78		58	23				1·6			14	
79		37	22				1·0			15	
80		78	22				2·2			7	
81		67	16				2·1			5	
3817782		63	21				2·2			16	

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COMPANY: El Paso Mining

PROJECT No.:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

Oct 30

1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Sb ppm	Bi ppm
L120 85- 381783		108	29				2·8			11		
84		116	28				2·0			8		
85		142	29				2·8			10		
86		98	30				1·9			12		
87		66	22				1·6			12		
90 88		44	20				1·8			8		
L120 01 89		75	23				9·4			16		
90		86	26				1·8			8		
91		108	29				1·8			10		
92		156	29				2·5			12		
93		68	24				2·0			12		
94		61	24				1·9			16		
95		61	23				1·8			10		
96		75	28				2·4			11		
97		54	25				1·8			12		
98		52	22				2·0			13		
99		82	26				1·8			14		
800		78	23				2·2			11		
01		58	22				1·6			15		
02		63	24				1·9			15		
115 03		130	26				3·1			6		
L116 115E 04		98	25				2·6			8		
114E 05		78	25				1·9			11		
L120 91E 06		48	22				1·6			19		
92E 07		58	21				1·8			17		
08		36	18				2·7			6		
09		49	21				1·4			12		
10		38	24				1·9			5		
11		105	34				1·6			5		
91E 381812		83	22				20			8		

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COMPANY: El Paso Mining

PROJECT No.:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

Oct 31

1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Au ppm
L12+ 98	381813		89	23				14			6
99	14		90	24				17			9
L112 100	15		88	15				16			8
101	16		29	16				10			13
102	17		76	15				14			24
	18		215	21				25			2150
	19		80	16				16			11
	20		77	20				19			79
	21		59	19				17			20
	22		46	16				11			47
	23		109	17				14			38
	24		46	19				13			46
	25		69	49				30			1090
	26		54	17				13			15
	27		69	21				13			48
	28		56	23				14			74
115	29		79	21				18			56
L108 116	30		44	20				24			93
114	31		71	21				12			146
113	32		76	22				18			204
	33		71	18				18			216
	34		57	25				18			460
	35		76	21				17			198
	36		45	18				16			25
	37		60	20				20			168
	38		107	19				18			470
	39		63	21				20			770
	40		81	17				16			210
	41		79	19				12			51
103	381842		54	21				15			500

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COMPANY: El Paso Mining

PROJECT No.: _____

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

DATE: Oct 30 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Sb ppm	Au ppm
381843		68	18				1·2			22		•
44		53	17				1·4			8		•
45		34	17				1·7			20		•
46		36	20				2·2			13		•
47		57	19				2·1			13		•
48		38	20				1·5			8		•
49		68	18				2·0			11		•
50		46	22				1·9			8		•
51		72	23				2·7			5		•
52		57	21				1·5			2		•
53		82	21				2·3			3		•
54		96	20				1·7			2		•
55		72	18				2·0			2		•
56		62	21				1·6			1		•
57		124	22				6·5			2		•
58		48	19				1·8			1		•
59		44	20				2·4			5		•
60		68	20				1·6			4		•
61		54	21				2·0			8		•
62		78	19				1·6			2		•
63		44	20				3·0			4		•
64		74	23				2·9			5		•
65		63	20				2·0			2		•
66		50	18				2·0			2		•
67		78	20				1·9			8		•
68		35	20				2·1			2		•
69		44	19				2·5			2		•
70		35	20				2·3			4		•
71		41	20				3·0			3		•
381872		84	23				3·5			27		•

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COMPANY: El Paso Mining

PROJECT No.:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

DATE: Oct 31 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Au ppm
L112 98 381873		46	24				1.8			22	
99 74		59	18				2.1			18	
L104 85 75		83	21				1.8			10	
86 76		84	21				3.1			13	
77		56	20				2.5			1	
78		64	19				1.5			1	
79		34	16				2.0			4	
80		46	17				1.8			7	
81		50	17				2.0			5	
82		44	19				1.9			5	
83		40	19				2.2			4	
84		42	18				2.3			7	
85		46	17				2.7			18	
86		92	13				3.8			1	
87		58	17				1.6			13	
88		47	18				1.1			10	
99 89		62	19				2.3			8	
L109 101 90		45	20				2.0			24	
102 91		56	21				1.7			314	
92		30	23				1.4			182	
93		87	24				2.6			198	
94		55	30				1.6			162	
95		48	48				1.8			450	
96		79	23				1.7			216	
97		43	15				1.3			31	
98		82	20				1.8			94	
99		41	21				1.9			74	
900		35	19				1.6			25	
01		75	22				1.4			344	
113 381902		41	21				1.3			30	

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COMPANY El Paso Mining

PROJECT No.:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

603

DATE Oct 31 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	W ppm	Au ppm
381903		42	19				1·7			28		
04		68	18				1·7			52		
05		26	21				2·8			47		
06		40	23				2·1			75		
07		49	32				1·8			101		
08		50	30				1·8			178		
09		57	29				1·7			99		
10		85	21				1·8			94		
11		125	18				1·7			330		
12		68	20				1·8			71		
13		102	22				2·1			262		
14		79	17				1·9			178		
15		114	23				3·0			350		
16		100	19				1·8			82		
17		215	22				2·9			400		
18		67	19				2·8			38		
19		16	19				1·8			9		
20		60	21				2·2			33		
21		60	22				2·8			18		
22		40	18				1·4			13		
23		38	18				2·2			22		
24		36	18				1·8			7		
25		46	18				1·7			7		
26		61	19				2·6			24		
27		23	15				2·4			10		
28		18	17				2·3			10		
29		24	16				1·6			7		
30		18	18				1·6			46		
31		15	17				1·8			18		
381932		46	22				2·2			12		

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COMPANY: El Paso Mining

PROJECT No.:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

FILE: 603

DATE: Oct 31 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Zn ppm
381933		41	17				15			42		
381934		34	23				30			7		

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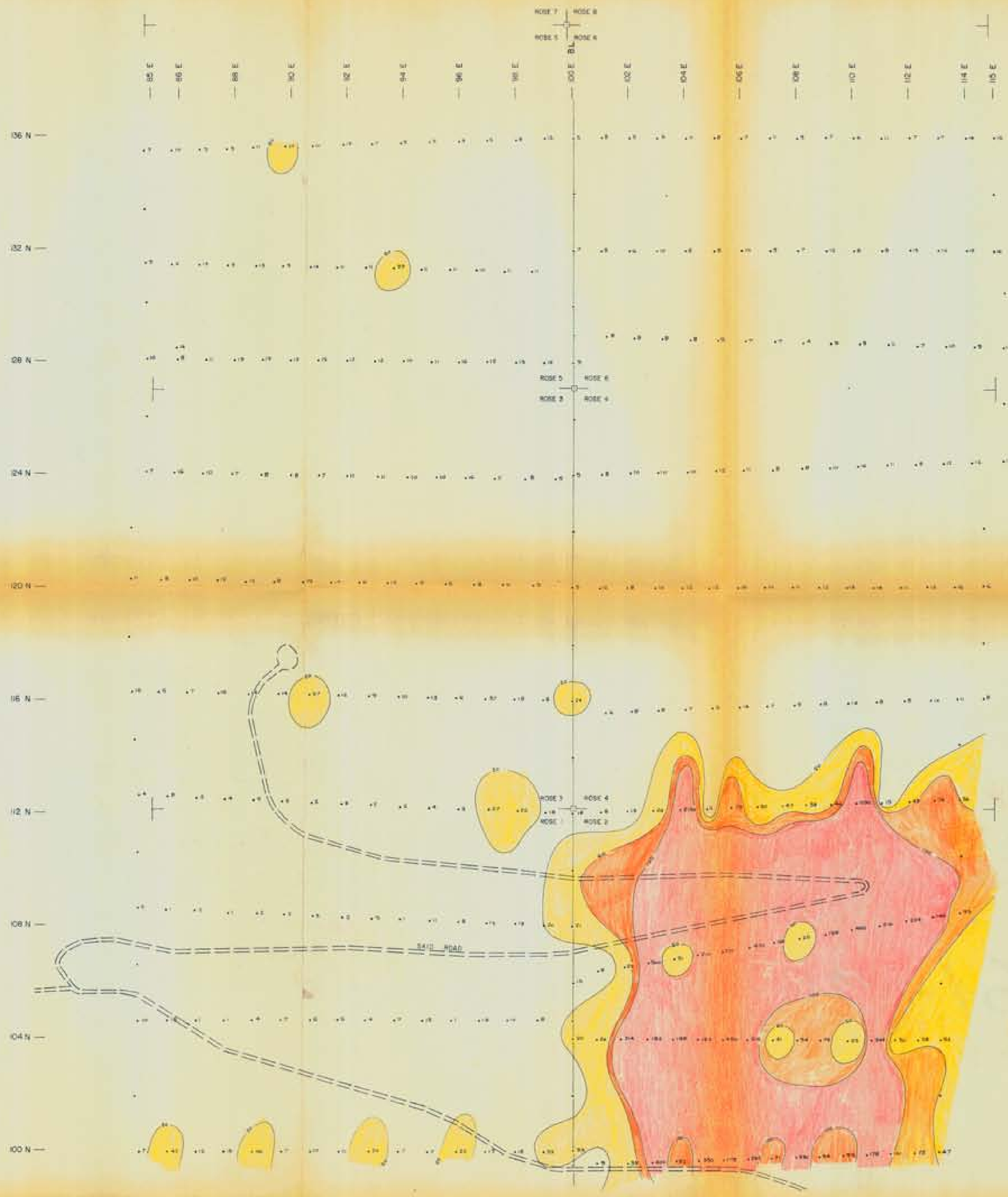
El Paso Mining & Milling Co.

CERTIFIED BY Gilbert V. Hennessy



LEGEND

BACKGROUND 11 PPM

POSSIBLY ANOMALOUS 22 - 65 PPM

PROBABLY ANOMALOUS 65 - 100 PPM

DEFINITELY ANOMALOUS + 100 PPM

4761-M8

Department of Mines and Petroleum Resources

ASSESSMENT REPORT NO. 4761 MAP #8

EL PASO MINING AND MILLING COMPANY

DEL NORTE MINING GROUP

GEOCHEMICAL SOILS, ARSENIC IN PPM

'ROSE' MINERAL CLAIM GROUP

VERNON MINING DIVISION

BRITISH COLUMBIA

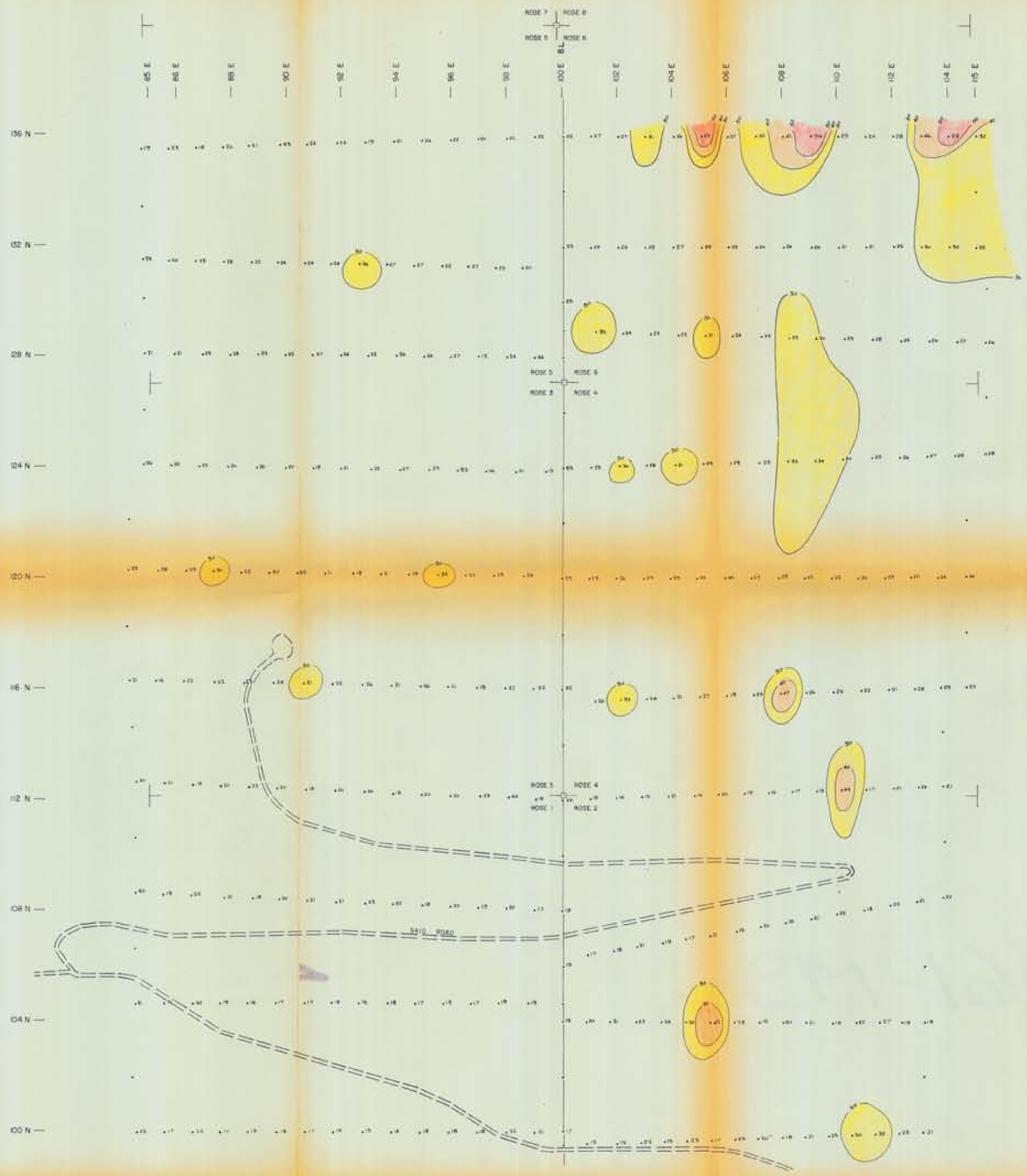
FIELDWORK BY: V. RYBACK-HARDY, M. MORET, G. THOMAS, L. LAMOUREUX

Victor Ryback-Hardy

JL NOV. 1973

1" = 200'

82-L-1-B 3



LEGEND

BACKGROUND 23 PPM.

- POSSIBLY ANOMALOUS 30 - 40 PPM.
- PROBABLY ANOMALOUS 40 - 50 PPM.
- DEFINITELY ANOMALOUS > 50 PPM.

4761-M9

Department of Mines and Petroleum Resources
ASSESSMENT REPORT NO. 4761 MAP #9

EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

GEOCHEMICAL SOILS, LEAD IN PPM.

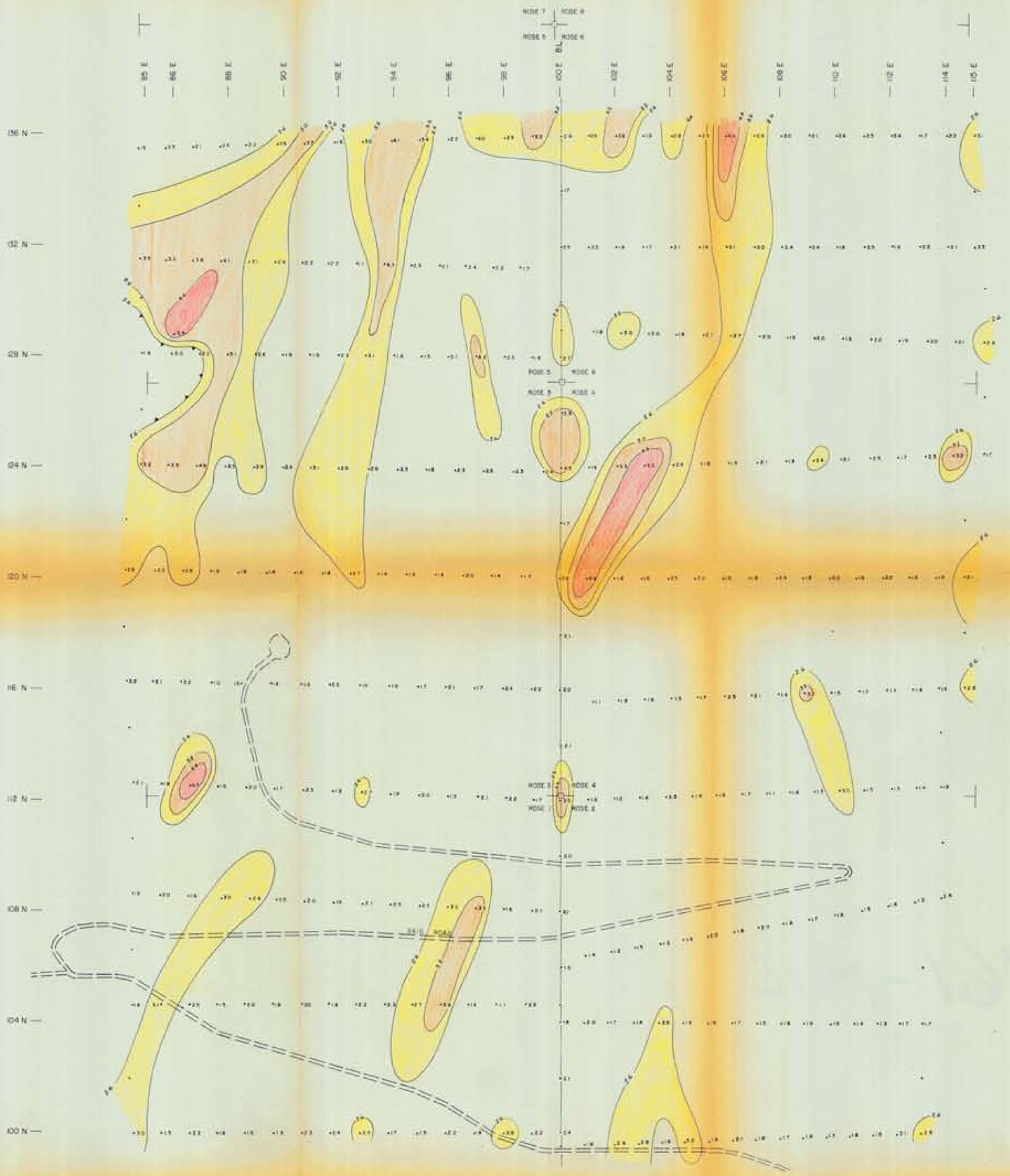
'ROSE' MINERAL CLAIM GROUP

VERNON MINING DIVISION
BRITISH COLUMBIA

FIELDWORK BY: V. RYBACK - HARDY, H. MORET, S. THOMAS, L. LAMOUREUX

J.L. NOV. 1973 1" : 200'

82-L-1-B4



LEGEND

BACKGROUND 2.0 P.P.M

- POSSIBLY ANOMALOUS 2.6 – 3.2 PPM
- PROBABLY ANOMALOUS 3.2 – 4.4 PPM
- DEFINITELY ANOMALOUS > 4.4 PPM

4761-M10

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4761 MAP #10

EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

GEOCHEMICAL SOILS, SILVER IN P.P.M.
'ROSE' MINERAL CLAIM GROUP

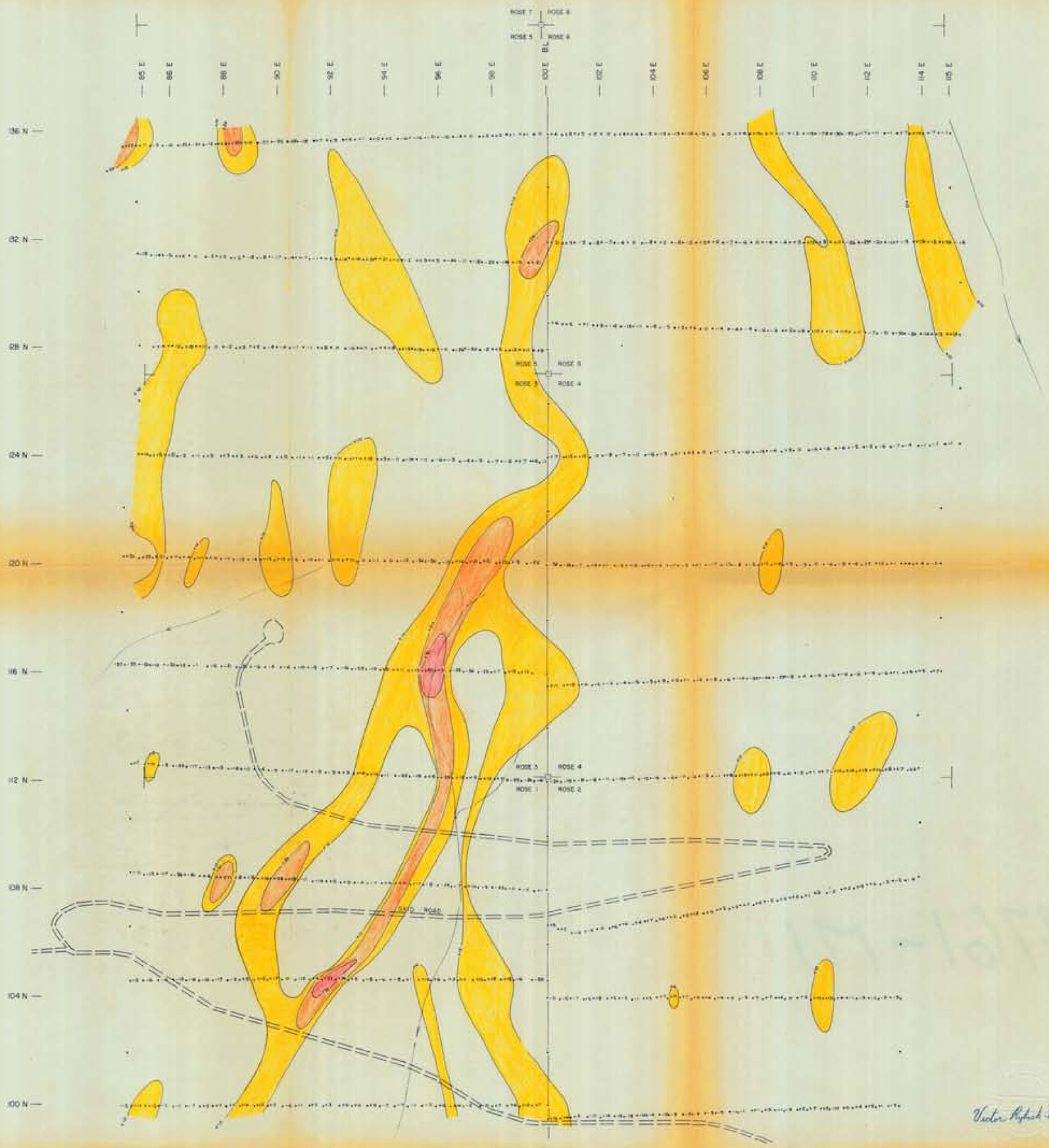
VERNON MINING DIVISION
BRITISH COLUMBIA

FIELDWORK BY: V. RYBACK-HARDY, H. HORET, S. THOMAS, L. LAMOUREUX

Victor Ryback Hardy

DRAWN BY: JL DATE: NOV. 1975 SCALE: 1:200

82-L-1-85



LEGEND

- +10 - + 20 WEAK CONDUCTOR
- + 20 - + 30 MODERATE CONDUCTOR
- + 30 - + 40 GOOD CONDUCTOR
- + 40 STRONG CONDUCTOR

4761-M11

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4761 MAP #11

EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

VLF ELECTRO MAGNETIC SURVEY
(FILTERED DIP ANGLE)
'ROSE' MINERAL CLAIM GROUP
VERNON MINING DIVISION
BRITISH COLUMBIA

FIELDWORK BY: K. RYBACK - HARDY
M. MORET
S. THOMAS
L. LAMOUREUX

Victor Ryback Hardy

DRAWN BY: J.L. DATE: NOV 1975
TRACED BY: DATE:
CHECKED BY: DATE: APPROVED BY: DATE:
SCALE: 1:200
DRAWING NO: 82-L-1-85