4868

GEOLOGICAL - GEOCHEMICAL REPORT

ON THE

R D CLAIMS

93E/13E

LOCATED: 60 MILES SOUTHWEST OF SMITHERS, B.C.

(54° 00' North; 127° 34' West)

OMINECA MINING DIVISION

BY

NO. 4868

G. A. NOEL, (P. ENG.) GEOLOGIST

EL PASO MINING AND MILLING COMPANY

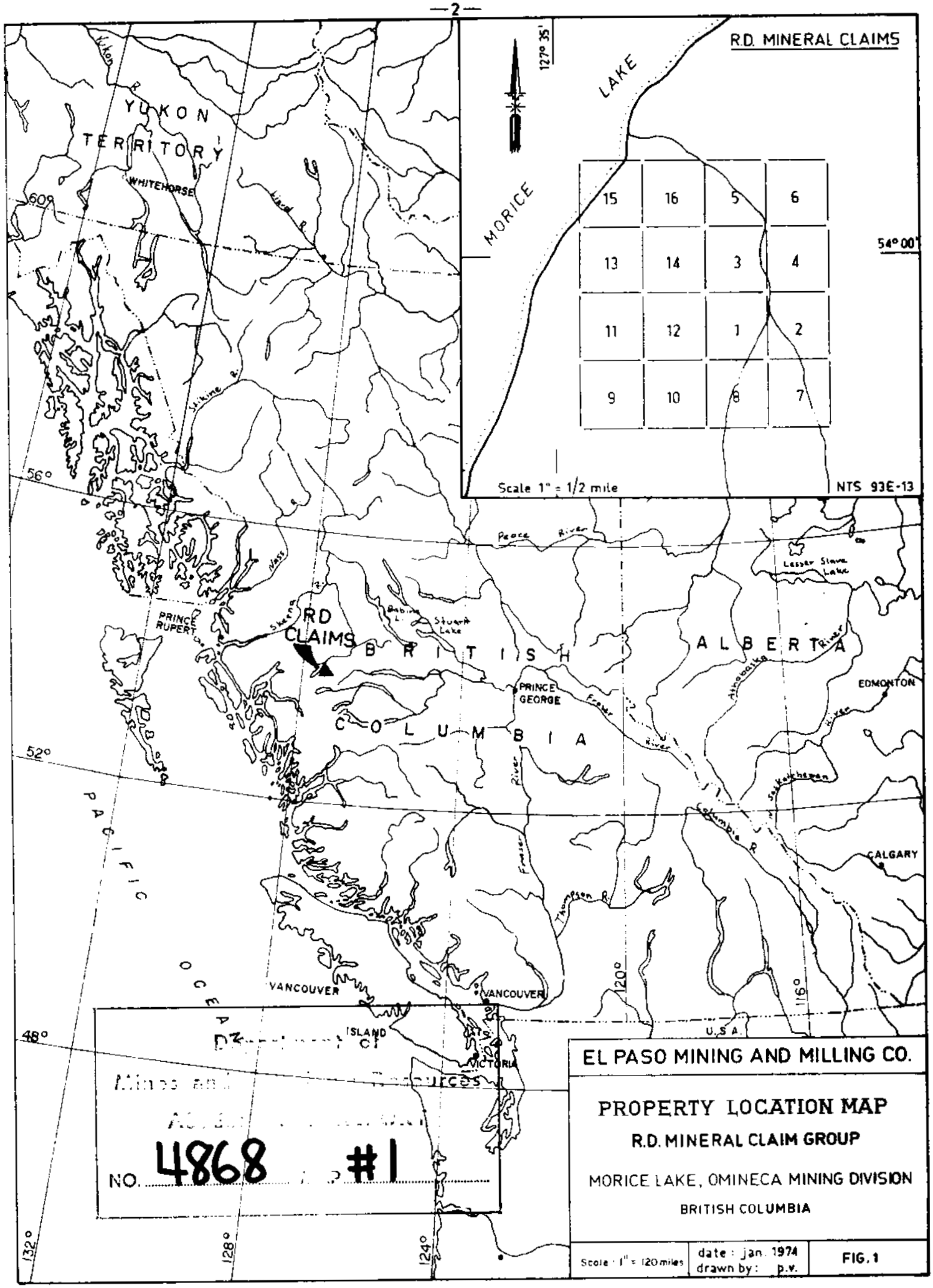
SEPTEMBER 8 - 18, 1973

Mining Recorder's Office
RECORDED
FEB - 5 1974
AT SMITHERS, B.C.

TABLE OF CONTENTS

SUMMARY

From September 8th to 18th, 1973, geological mapping and a geochemical soil survey were completed on RD 1, 2, 7 and 8 claims, which form part of the 16 claim RD Group, located 60 miles southwest of Smithers, B.C. The RD claims are underlain by volcanic rocks of the Hazelton Group which are intruded by a small granite plug, as well as by dykes and tongues of monzonite porphyry. A little copper mineralization occurs in fracture zones in the volcanics, generally near intrusive contacts. The geological mapping and soil survey indicate that the copper mineralization is generally weak, restricted and erratic in distribution. A molybdenum soil anomaly that deserves further work was outlined on RD #8 claim.



Department of Mines and Petroleum Resources

NO. 4868 #1

EL PASO MINING AND MILLING CO.

PROPERTY LOCATION MAP

R.D. MINERAL CLAIM GROUP

MORICE LAKE, OMINECA MINING DIVISION

BRITISH COLUMBIA

Scale : 1" = 120 miles	date : jan. 1974 drawn by : p.v.	FIG. 1

INTRODUCTION

The RD 1 - 16 claims were staked and recorded in June 1972 by F. Onucki and M. Callaghan as agents for El Paso Mining and Milling Company, as a result of prospecting in the Morice Lake area. From September 8 - 18, 1973, two men completed initial geological and geochemical surveys on the claims, which are located 60 miles southwest of Smithers, B.C. The claims are reached from Smithers by helicopter although the Morice Lake road extends 45 miles southwest from Houston to the north end of Morice Lake, about 8 miles north of the RD claims. The property extends from 2600 feet elevation at Morice Lake to 4400 feet elevation on the northwest end of Redslide Mountain. RD 1 - 8 claims straddle a small creek that flows northerly down Redslide Mountain into the southeast side of Morice Lake. RD 9 - 16 claims adjoin RD 1 - 8 on the west to form a block four claims square. The terrain is fairly steep and well wooded with rock exposure limited to the creek canyons. The configuration and rough location of the claims are shown in Figure 1. The current work was limited to RD 1, 2, 7 and 8 claims, which generally lie between 3400 and 4400 feet in elevation.

FIELDWORK

From the No. 2 posts of RD 7 and 8, the initial grid line (O-N) was run 1200 feet to the west and 500 feet to the east - using compass and nylon chain control. The east and west extremities of the grid were determinded by the steep west and east walls, respectively, of deeply incised creeks which converge northward and finally join about 2600 feet to the north. Grid lines were run east-west at 200-foot intervals for 2000 feet north of the O-N line and were designated 2N - 20N, respectively. Stations were marked at 100-foot intervals along each traverse line with the No. 2 post of RD 7 and 8 designated ON - OE; so that the stations run from O to 5E and from O to 16W. The grid thus covers about 2000 feet N-S by 2000 feet E-W with some gaps due to the difficult terrain. Soil samples and altimeter readings were taken on the 100-foot stations and the grid was also used for geological mapping control. To pickup most of the geology, a compass and tape traverse was run down the west fork of the creek and was tied to the grid at its southwest and northeast ends. The altimeter survey was corrected by taking readings on control stations at least three times per day. Six chip samples were cut from mineralized exposures along the west creek and were assayed for copper, silver and gold.

The soil samples were taken from the B-horizon wherever possible, using a mattock; however, samples could not be taken at some stations due to lack of soil (rocky alluvium) or to deep organic cover. Each soil sample was placed in a kraft envelope which was marked with the sample number and description as to type, character, texture, origin, soil horizon, color and depth. A total of 168 samples were collected and analysed for total copper and molybdenum by Min-En Laboratories Ltd., 705 West 15th Street, North Vancouver, B.C.

The analytical procedure used by Min-En Laboratories is as follows:

1. The sample is dried and sieved.

2. A one-gram portion of the -80 mesh fraction is allowed to react with two millilitres of concentrated nitric acid for one half hour.

3. Five millilitres of perchloric acid is added and the sample digested for five hours at 250° F.

4. The sample is diluted to 25 millilitres with distilled water and analysed by the atomic absorption method.

The analyses in parts per million copper and molybdenum have been plotted on separate maps at a scale of one inch to 200 feet.

GEOLOGY

The RD claims are underlain by volcanic rocks with some intercalated sedimentary rocks of the Hazelton Group of Lower to Middle Jurassic age. These volcanics, which include andesitic tuffs, breccias and flows, are intruded by plugs of red granite and monzonite porphyry. The volcanic rocks strike north to northwest and dip moderately to the east and northeast. The granite contact apparently extends northwesterly across the southwest corner of RD 8, westerly along the south boundary of RD 10 and northerly into RD 9 and RD 11 claims. Monzonite porphyry outcrops in small dykes or tongues in several places along the creek on RD 8.

Along and near the intrusive contacts, chalcopyrite and pyrite occur as fracture fillings and disseminations mainly in the volcanic rocks but also in places in narrow intrusive septa. All of the exposed mineralized sections were chip sampled and the best assay obtained was 1.54% copper and 0.68 oz Ag per ton over five feet. The geology, topography, sample locations and assays are shown on the Geology Map, RD Claims - DWG No. 93 E 13 - A1.

GEOCHEMICAL RESULTS

1. Molybdenum

The arithmetic mean of all of the molybdenum analyses is 20 ppm. The analyses are shown on a frequency histogram (Figure 2) and a cumulative percent frequency plot on log probability paper (Figure 3). On the latter curve, the background value at the 50 percentile is < 2 ppm. A break in slope of this curve occurs at 25 ppm and this may be considered the threshold value. As a result, the anomalous limits for molybdenum were selected as follows:

25 - 50 ppm	Possibly anomalous
50 - 100 ppm	Probably anomalous
> 100 ppm	Definitely anomalous

These values were contoured on Map No. 93 E 13 - A2 with the "Possibly anomalous" range colored yellow, "Probably anomalous" colored orange and "Definitely anomalous" colored red.

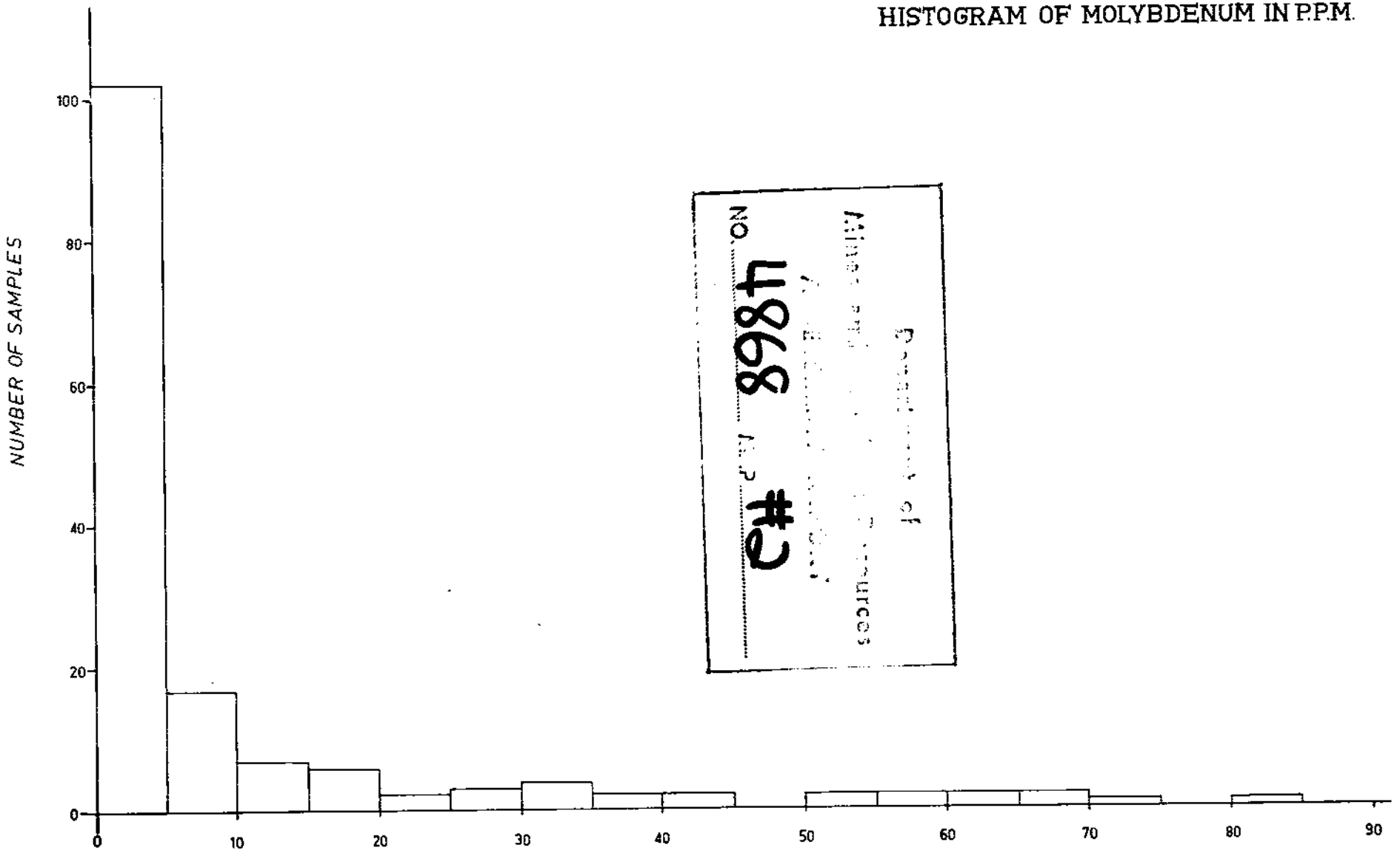
A sinuous northeast-trending molybdenum anomaly is outlined on RD #8 claim. This anomaly, as defined by the > 50 ppm contour, is at least 1500 feet long by 200-400 feet wide. The shape of the anomaly suggests that it may, at least in part,

EL PASO MINING AND MILLING CO. LTD.

R.D MINERAL CLAIM GROUP

OMINECA, M.D. BRITISH COLUMBIA

HISTOGRAM OF MOLYBDENUM IN P.P.M.



NO. 8984

FIG. 2

GRAPHIC CONTROLS CANADA LTD.
MADE IN CANADA

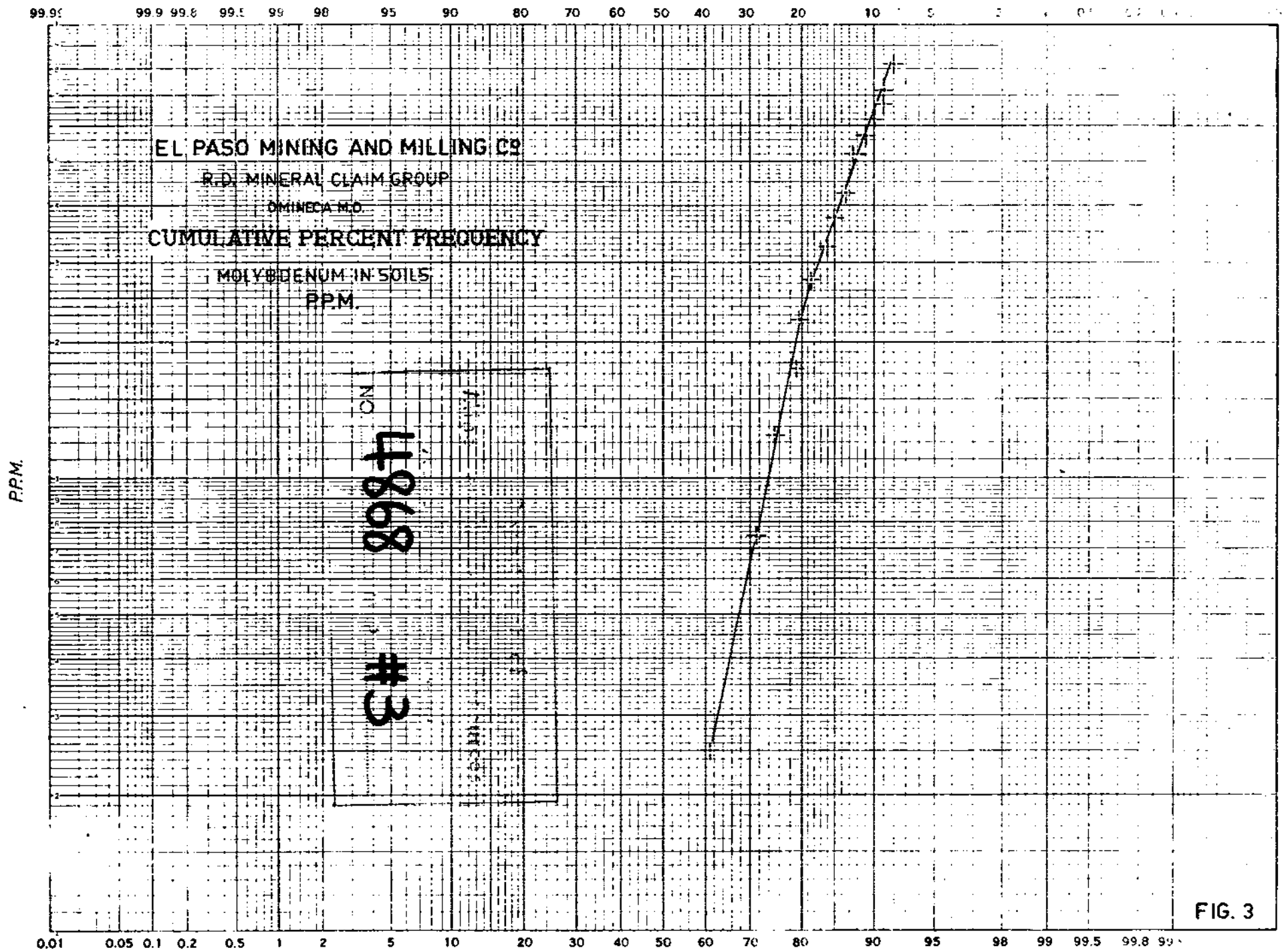


FIG. 3

wrap around the outer shell of the granite plug. Although no molybdenum mineralization was seen during the geological mapping, the prospectors reported specks of molybdenite in the granite near the south boundary of RD #8 claim .

2. Copper

The arithmetic mean of all of the copper values is 23.4 ppm. These values are shown on a frequency histogram (Figure 4) and a cumulative percent frequency plot on log probability paper (Figure 5). On the latter curve the background value at the 50 percentile is 13 ppm. Breaks in the slope of this curve occur at 15 ppm and 35 ppm. copper. The lower inflection point may result from two populations or sources and may represent the threshold value for the soils derived from volcanic rocks. The upper break may thus be the threshold value for soils over the intrusives. The upper value has been used to give the following anomalous limits:

35 - 70 ppm. copper - Possibly anomalous

70 - 140 ppm. copper - Probably anomalous

> 140 ppm copper - Definitely anomalous.

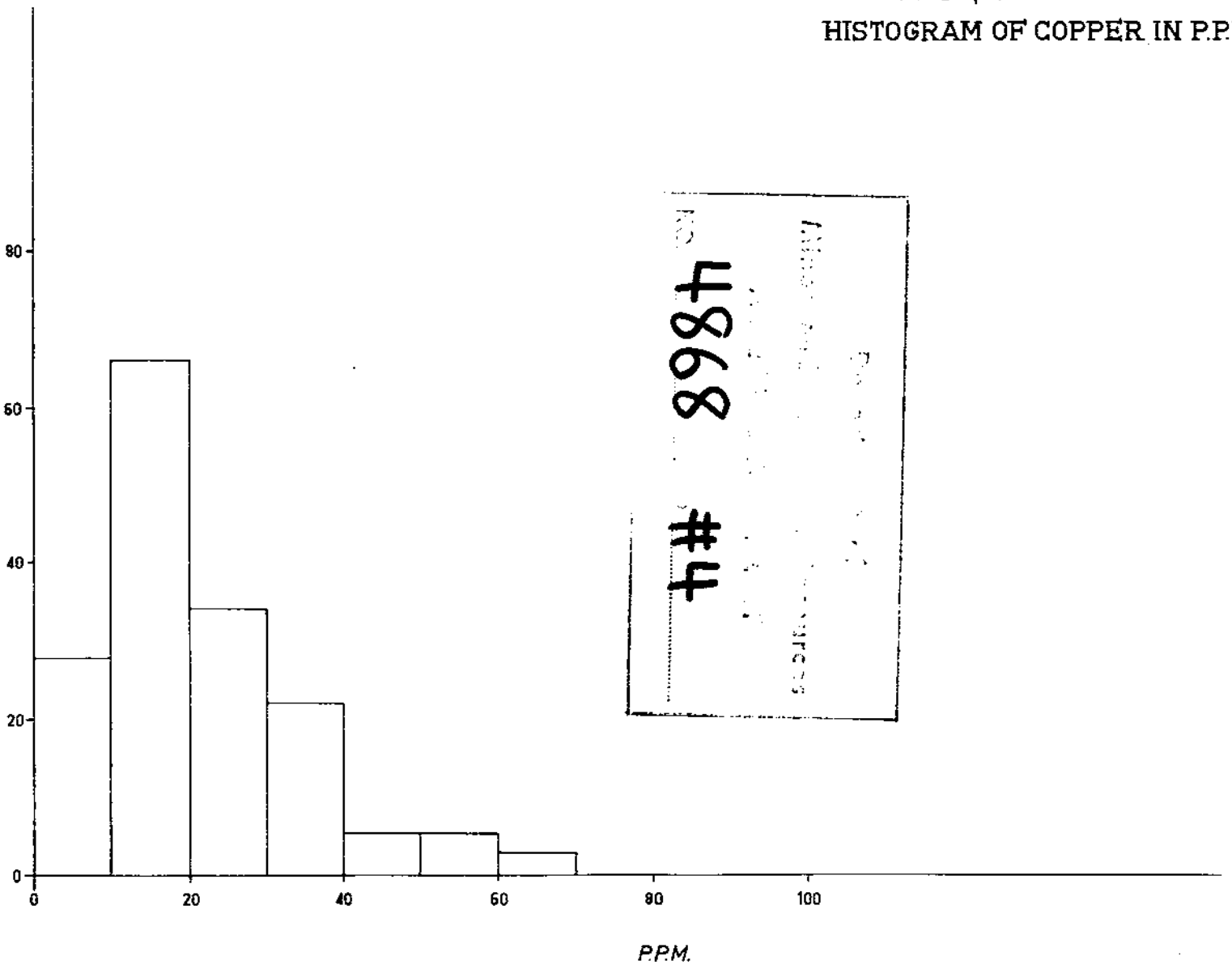
These values were contoured on Map 93 E 13 - A3 with the "Possibly anomalous" range colored in yellow, "Probably anomalous" colored in orange and "Definitely anomalous" in red. Several small scattered copper anomalies are outlined on this map. The irregular anomaly centered about 16N - 10W, at the north end of RD #8 claim, apparently coincides with one of the better mineralized fracture zones which seem to trend north to northeast. The small weak soil anomalies in the eastern part of RD #8 claim are also apparently related to copper mineralization in the fractured volcanics. The rather intense, though small, anomaly on the

EL PASO MINING AND MILLING CO. LTD.

R.D MINERAL CLAIM GROUP

OMINECA, M.D. BRITISH COLUMBIA

HISTOGRAM OF COPPER IN P.P.M.



#8984

FIG. 4

GRAPHIC CONTROLS CANADA LTD.
MADE IN CANADA

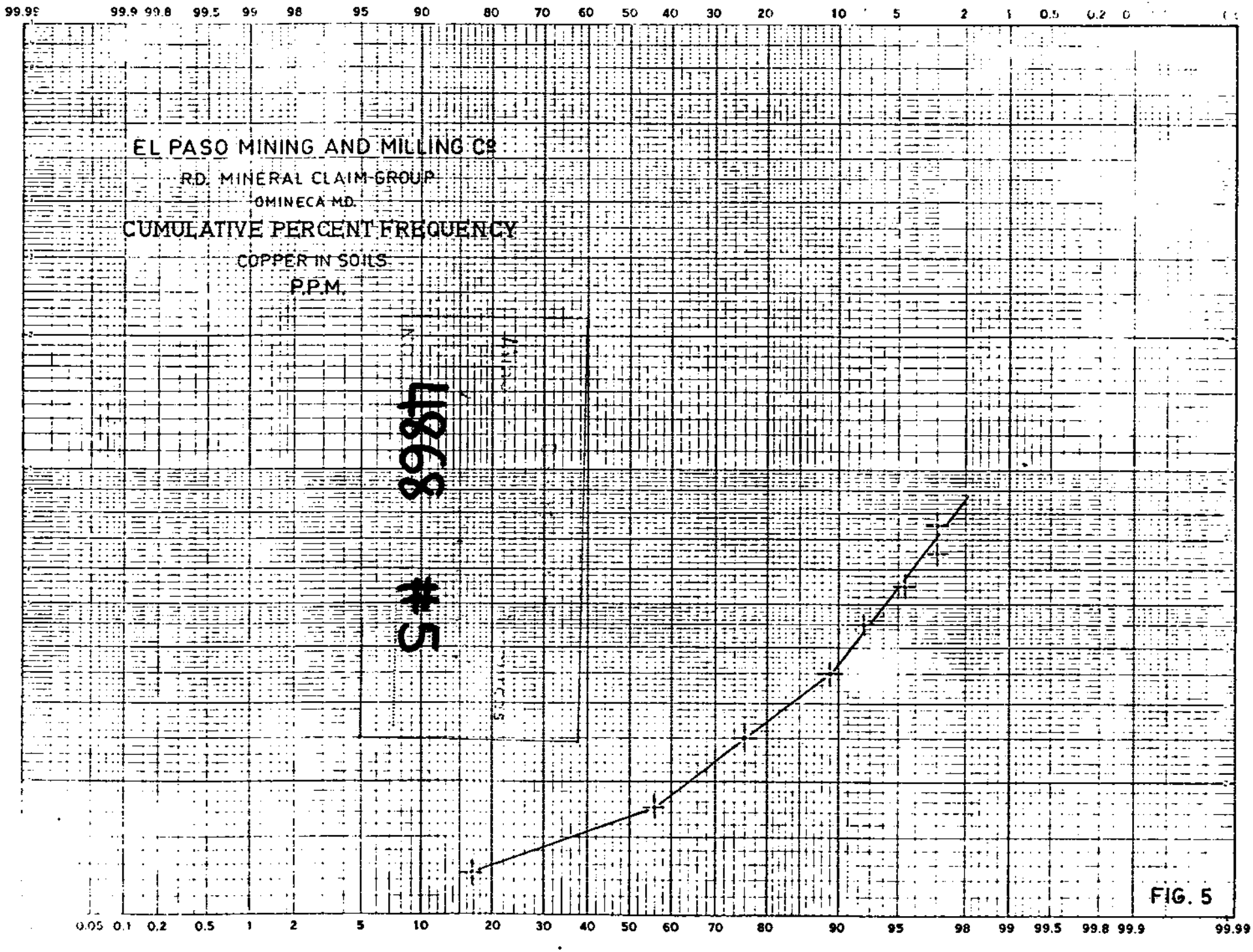


FIG. 5

western edge of RD #8 claim may be spurious, in that it is largely based on one reading. Unfortunately, there are no outcrops in this area which may overlie the granitic-volcanic contact.

CONCLUSIONS

The copper mineralization on the RD Claims is restricted to narrow north to northeast trending fracture and shear zones in Hazelton volcanics, generally near their contact with tongues or dykes of intrusive rock. From the results of the geological mapping and the geochemical soil survey, the copper mineralization appears to be too scattered and weak to be of further interest.

The molybdenum soil anomaly deserves further attention and should be more completely delineated by further soil sampling to the south in conjunction with detailed geological mapping.

G. A. Noel, P. Eng.

January 29, 1974

A P P E N D I X A - 1

SOIL ANALYSES

COMPANY: El Paso Mining

PROJECT No.: RD Grp

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

FILE No. 529

DATE: Sept 28 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As	Mn	Au ppm
300000	64	16										
01	98	10										
02	198	46										
03	7	14										
04	8	14										
05	4	10										
06	3	7										
07	3	22										
08	4	24										
09	9	17										
10	6	15										
11	3	10										
12	4	18										
13	3	14										
14	29	16										
15	26	17										
16	5	19										
17	3	22										
18	1	9										
19	1	8										
20	4	9										
21	83	43										
22	5	30										
23	17	12										
24	13	23										
25	7	17										
26	9	28										
27	7	10										
28	15	21										
300029	98	13										

CERTIFIED BY Gilbert V. Hemmingway

- 14 -

COMPANY: El Paso Mining

PROJECT No.: RD Grp

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

FILE No. 529

DATE: Sept 28 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	Au ppm
300030	68	39										
31	18	26										
32	53	33										
33	17	21										
34	14	17										
35	73	36										
36	57	64										
37	21	21										
38	112	23										
39	27	21										
40	4	21										
41	4	25										
42	4	16										
43	3	16										
44	4	16										
45	3	21										
46	2	13										
47	3	19										
48	3	13										
49	3	11										
50	22	18										
51	39	17										
52	55	21										
53	130	27										
54	175	67										
55	113	35										
56	64	23										
57	116	30										
58	172	26										
300059	18	13										

CERTIFIED BY Gilbert V. Hennimelle

COMPANY: El Paso Mining

PROJECT No.: RD Grp

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

F No. 529

DATE: Sept 28 1973.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Sn ppm	Au ppm
300060	59	33										
61	34	11										
62	106	15										
63	3	8										
64	3	15										
65	2	13										
66	2	12										
67	1	10										
68	2	9										
69	3	14										
70	2	8										
71	1	4										
72	1	6										
73	12	7										
74	66	43										
75	34	29										
76	15	21										
77	144	112										
78	35	29										
79	3	32										
80	133	38										
81	18	35										
82	2	12										
83	2	16										
84	2	19										
85	2	22										
86	2	12										
87	1	7										
88	1	11										
300089	2	18										

CERTIFIED BY Gilbert V. Hemmanthe

COMPANY: El Paso Mining

PROJECT No.: RD Grp

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

FILE No. 529

DATE: Sept 28 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	Au ppm
300090	2	8										
91	2	19										
92	3	13										
93	2	9										
94	2	33										
95	4	22										
96	3	39										
97	3	18										
98	2	11										
99	4	24										
100	4	12										
01	2	38										
02	2	41										
03	2	11										
04	1	8										
05	2	34										
06	8	17										
07	4	33										
08	4	27										
09	3	21										
10	3	18										
11	1	6										
12	1	4										
13	2	22										
14	2	17										
15	6	53										
16	3	13										
17	31	92										
18	2	15										
300119	7	55										

CERTIFIED BY Gilbert V. Hemmingway

COMPANY: El Paso Mining

PROJECT No.: RD Grp

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

File No. 529

DATE: Sept 28 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	Au ppm			
300120	7	28													
21	10	56													
22	8	37													
23	10	43													
24	3	14													
25	3	25													
26	3	26													
27	2	10													
28	2	10													
29	3	18													
30	15	84													
31	4	18													
32	5	20													
33	10	31													
34	4	59													
35	41	100													
36	36	37													
37	1	19													
38	1	8													
39	2	12													
40	2	18													
41	2	13													
42	1	13													
43	2	14													
44	2	13													
45	3	40													
46	1	18													
47	1	10													
48	3	38													
300149	2	27													

CERTIFIED BY Albert Hennion Cle

COMPANY: El Paso Mining

PROJECT No.: RD Grp

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

FILE No. 529

DATE: Sept 28 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	Au ppm
300150	9	15										
51	4	12										
52	42	930										
53	16	17										
54	94	38										
55	4	20										
56	3	12										
57	3	38										
58	13	66										
59	3	19										
60	5	33										
61	3	32										
62	2	10										
63	4	27										
64	1	5										
65	1	3										
66	1	12										
300167	5	51										
	~~3346~~	~~7906~~										
	168	167										
	(19.92)		(23.39)									

CERTIFIED BY Gilbert V. Hemmingway

A P P E N D I X A - 2

ROCK ANALYSES

CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648
AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

RECEIVED
OCT 3 1973
El Paso Mining & Milling Co.

CERTIFICATE NO. 22631

INVOICE NO. 10592

RECEIVED Sept. 20/73

ANALYZED Sept. 29/73

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

ATTN: Mr. Noel

SAMPLE NO. :	Width	% Copper	% MoS_2	% Zinc	Oz/Ton Silver	Oz/Ton Gold	% Cadmium
EP 2162	6'	0.48	0.003		0.23	<0.003	
2163	6'	0.02			0.04	<0.003	
2164	5'	1.54			0.68	0.019	
2165	5'	0.14			0.06	<0.003	
2166	6'	0.07			0.03	<0.003	
2167	5'	0.17			0.03	<0.003	

CTA MEMBER CANADIAN TESTING ASSOCIATION

REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA

A P P E N D I X "B"

STATEMENT OF COSTS

STATEMENT OF COSTS

(SEPTEMBER 8 - 18/73 - 11 DAYS)

SALARIES:

G. NOEL - 11 days @ $1,980/month	= $ 726.00	
J. TOUGH - 11 days @ 40/day	= 440.00	
TOTAL.....		$ 1,166.00

MEALS AND ACCOMODATION

2 men for 11 days @ $6.00/man/day = ...		132.00

ANALYSES

SOIL - 168 samples @ $1.65 each	=$ 277.20	
ROCK - 5 samples @ $. 8.40 - 1 sample @ $ 11.75	= 53.75.....	330.95

TRANSPORTATION

Helicopter move-in and move-out.....	471.60

REPORT PREPARATION	150.00
TOTAL	$ 2,250.55

A P P E N D I X "C"

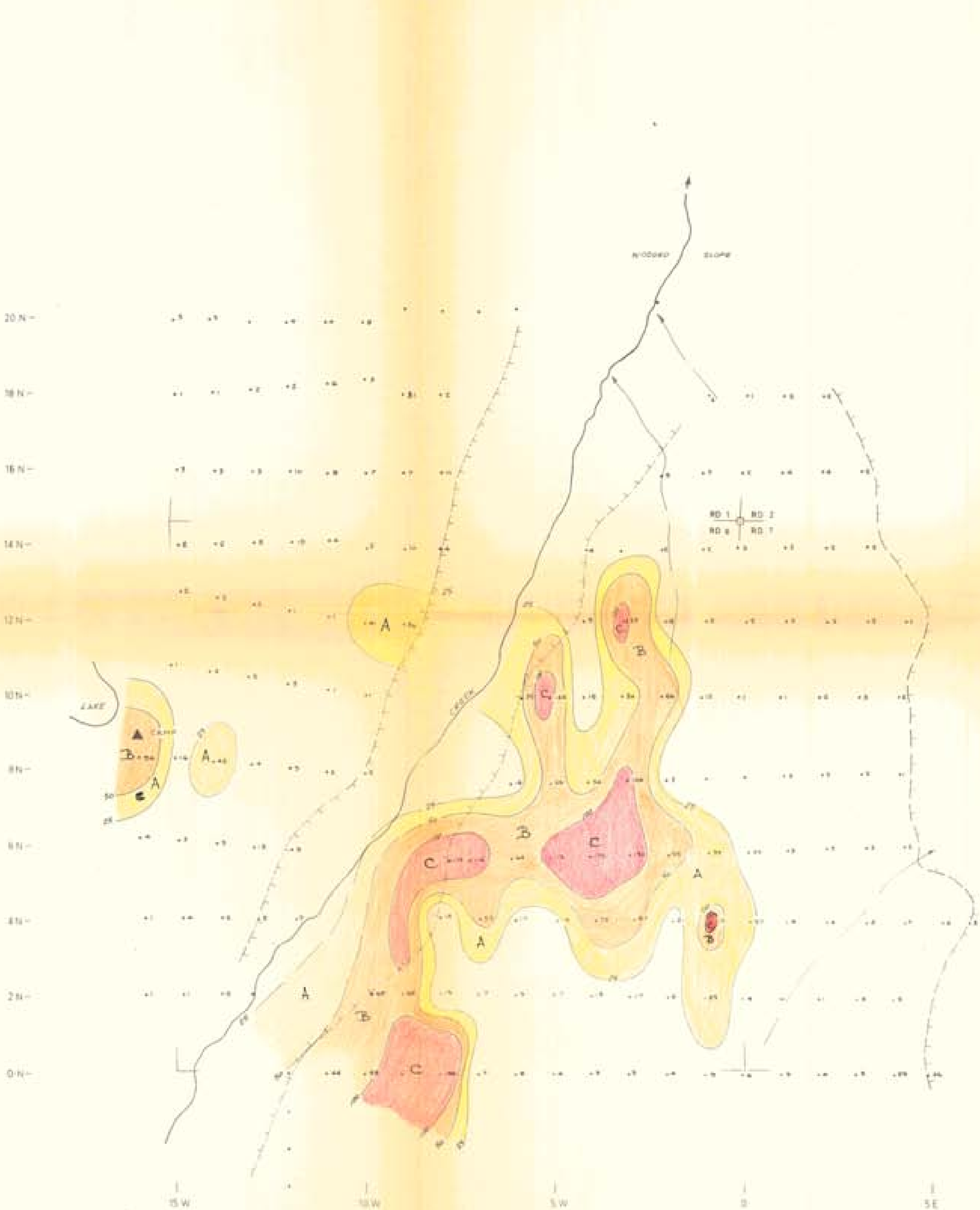
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

The fieldwork for this report was done under the supervision of G. A. Noel, whose qualifications are outlined below:

G. A. NOEL: P. Eng., (Geological Engineer) Manager of Canadian Exploration for El Paso Mining and Milling Company, Vancouver, B.C.

Completed B.A. Science (Geology) at University of British Columbia in 1950 and M. A. Science (Geology) at University of Toronto in 1951; employed by Kennco Exploration (Canada) Ltd., from May 1951 through March 1956 as a field geologist in B. C. and Yukon Territory, under the supervision of J. S. Scott; employed by Utah Construction and Mining Co., from March 1956 through September 1969 in B. C. and Alaska mineral exploration as a project geologist, acting district geologist and senior project geologist under L. C. Clark, W. Bourret, H. G. Peacock and E. S. Rugg; employed by El Paso Mining and Milling Company in Vancouver, B.C., since October 1970.



LEGEND

A	POSSIBLY ANOMALOUS	25 – 50 PPM
B	PROBABLY ANOMALOUS	50 – 100 PPM
C	DEFINITELY ANOMALOUS	> 100 PPM

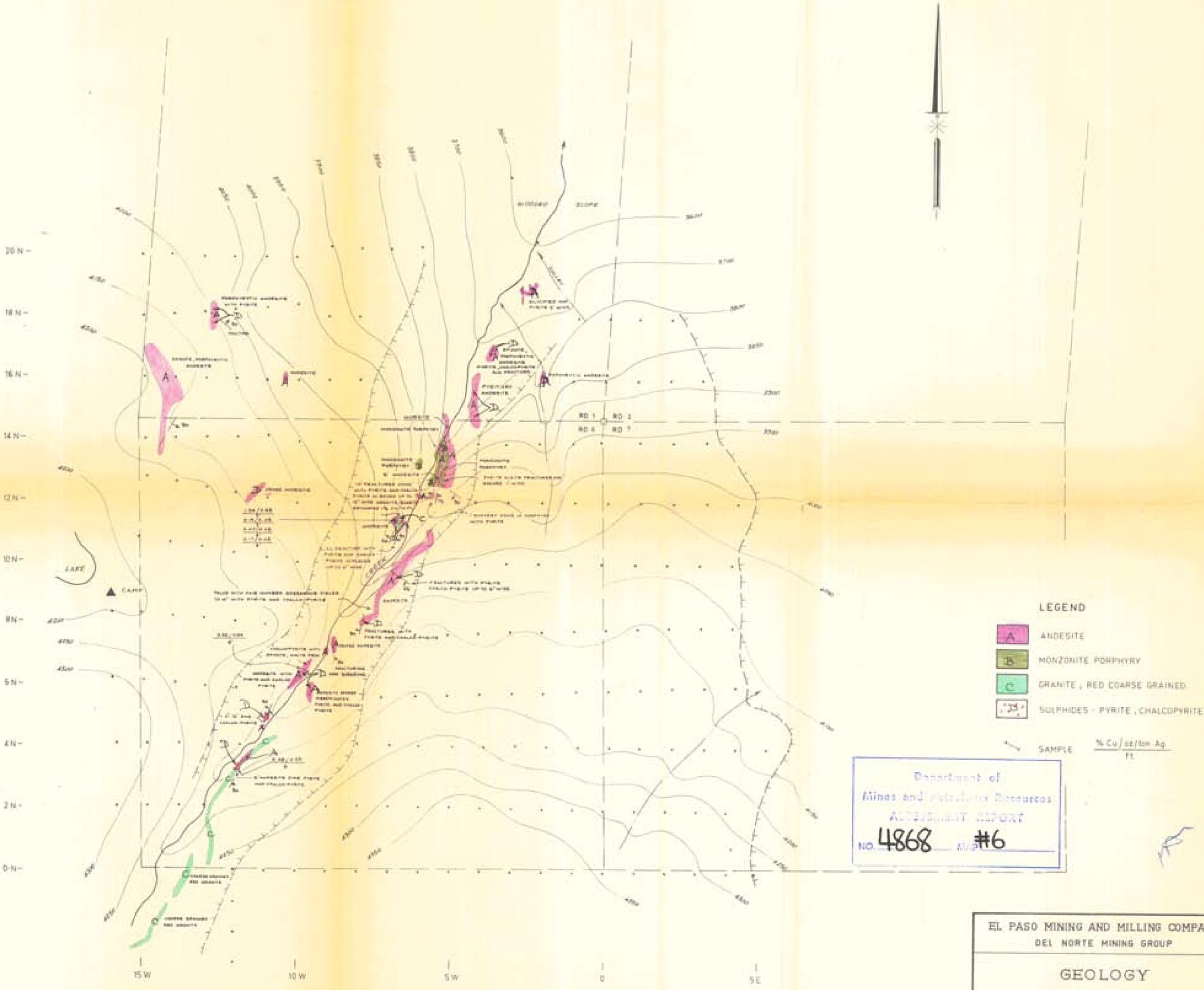
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4868 MAP #7

EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

GEOCHEMICAL SURVEY
MOLYBDENUM IN PPM
R.D. MINERAL CLAIM GROUP
MORICE LAKE B.C., OMINECA MINING DIVISION
BRITISH COLUMBIA

Drawn by: PV	Date: Jan. 1974	scale:	1" = 200'
Traced by:	Date		
Revised: Date	Revised: Date	Drawing no.	93-E-13-A2

4868 M7



Department of
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ASSESSMENT REPORT
NO. 4868 #6

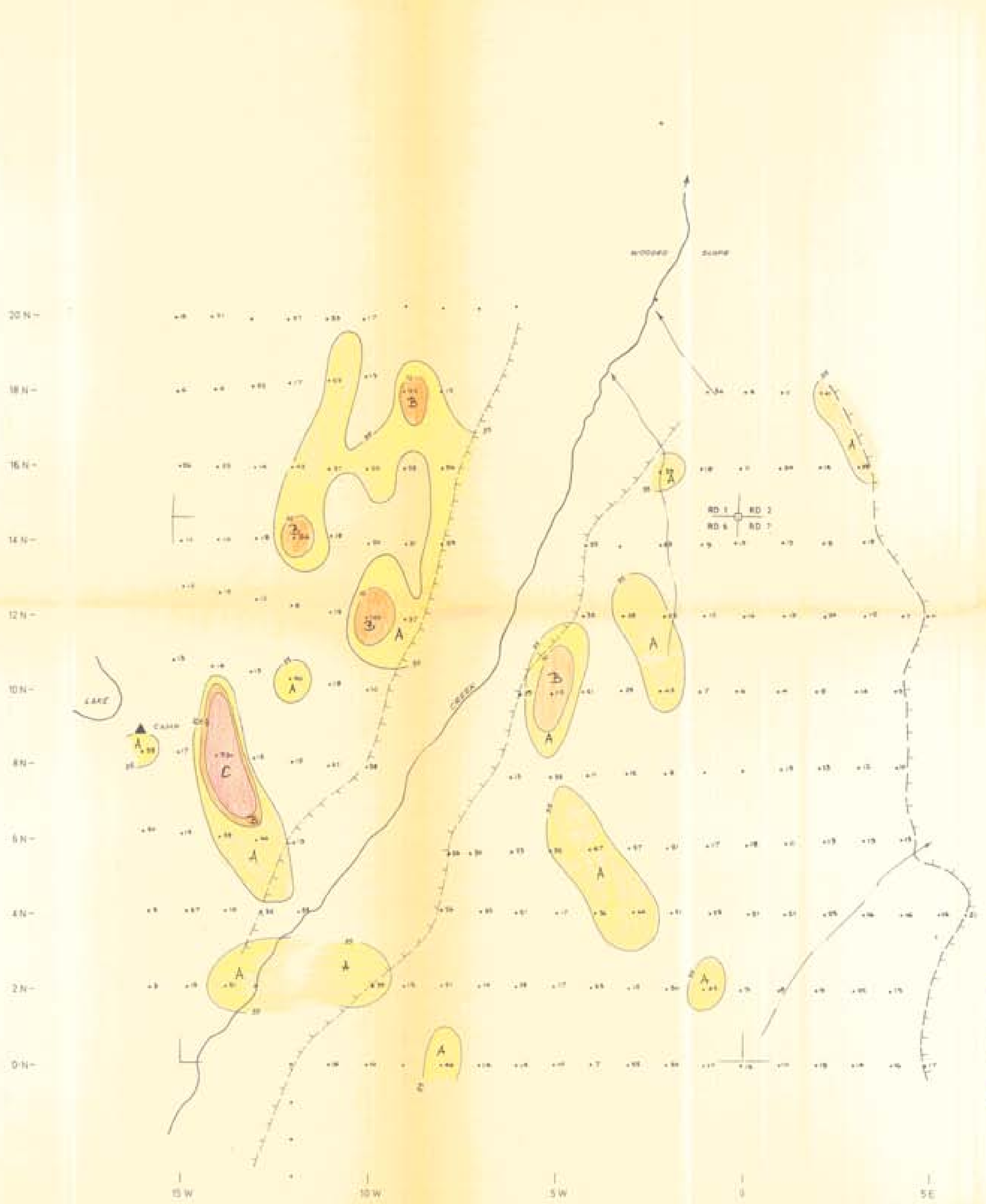
EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

GEOLOGY

R.D. MINERAL CLAIM GROUP
HORICE LAKE B.C., OMINECA MINING DIVISION
BRITISH COLUMBIA

Drawn by: PV	Date: Jan. 1974	scale:	1" = 200'
Traced by:	Date:		
Revised: Date	Revised: Date	Drawing no.	93-E-13-A1

4868 M6



LEGEND

A. POSSIBLY ANOMALOUS 35 - 70 PPM
B. PROBABLY ANOMALOUS 70 -140 PPM
C. DEFINITELY ANOMALOUS > 140 PPM

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4868 MAP #8

EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

GEOCHEMICAL SURVEY
COPPER IN P.P.M.
R.D. MINERAL CLAIM GROUP
MORICE LAKE B.C., OMINECA MINING DIVISION
BRITISH COLUMBIA

Drawn by: PV	Date: Jan. 1974	Scale: 1" = 200'
Traced by:	Date:	
Revised: Date	Revised: Date	Drawing no. 93-E-13-A3

4868 M8