

GEOCHEMICAL REPORT

ON THE

W H A T NO. 7 AND 8 CLAIMS

MERRITT, B. C.

LOCATED: 42 MILES SOUTH OF MERRITT, B. C.

(49° 42' N 121° 02' W)

NICOLA M. D., B. C.

BY

4788

V. RYBACK-HARDY, P. ENG.

924/11E

EL PASO MINING AND MILLING COMPANY

DECEMBER 18, 1973

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 4788 MAP.....

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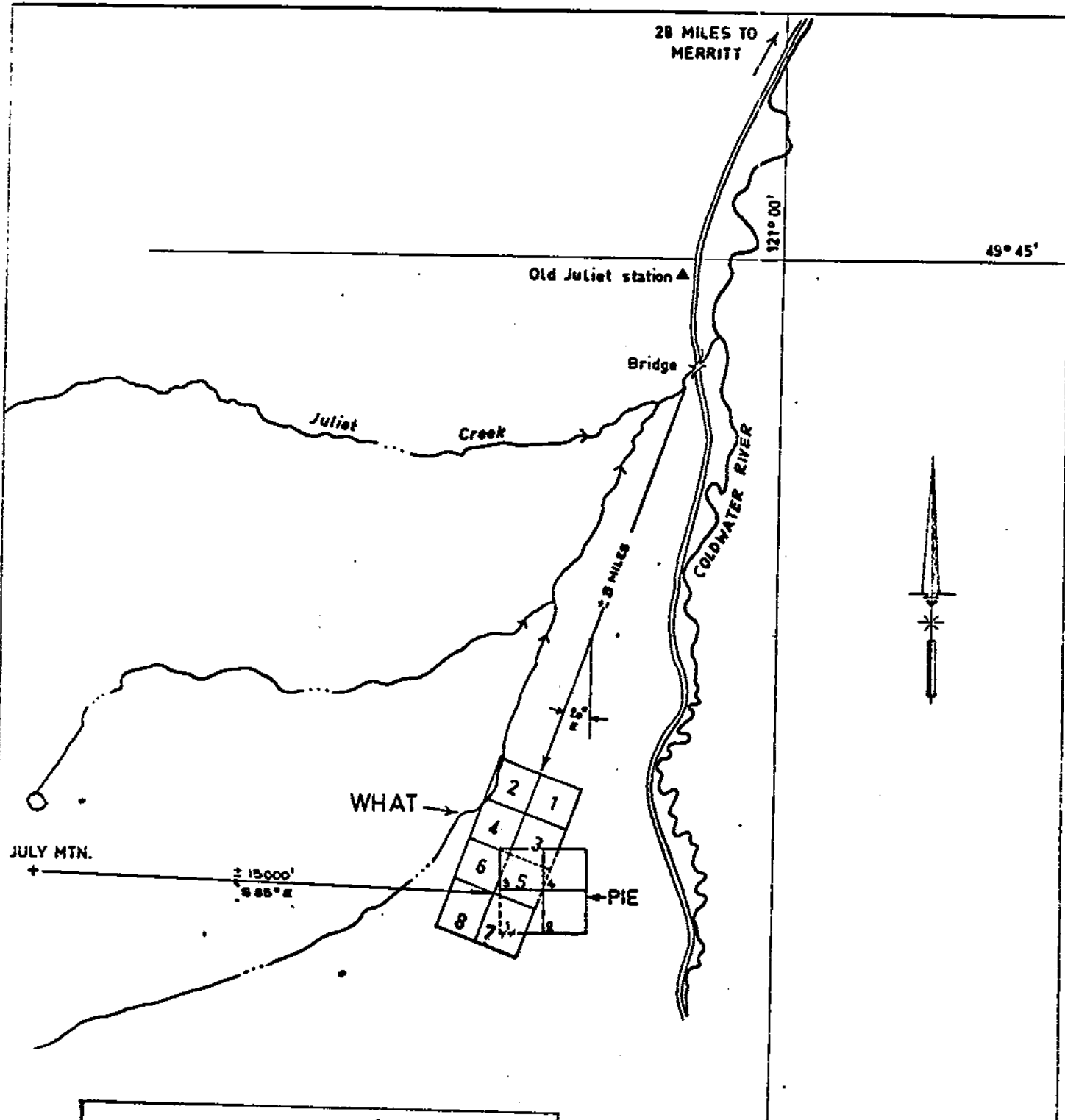
SUMMARY

From August 20th to August 27th, 1973 a crew of three men conducted a geochemical survey on the WHAT 7 and 8 Claims, owned by the El Paso Mining and Milling Company and located 42 miles south of Merritt, B.C.

The claims were staked by V. Ryback-Hardy on August 4, 1973 as a result of work done on WHAT Nos' 1 to 6 which indicated a possible south-west extension of a copper and molybdenum geochemical soil anomaly striking across WHAT Nos 5 and 6. A total of 112 soil samples were collected on the WHAT 7 and 8 and analyzed for copper and molybdenum. The geochemical results define the extension of the soil anomaly found on WHAT 5 and 6. The anomaly strikes almost north-south across WHAT No. 7 and averages about 200' in width.

The claims area is completely drift covered but nearby outcrops indicate that the claims are probably underlain by foliated quartz diorite of the Eagle Granodiorite body of Lower Cretaceous or Jurassic age.

Bulldozer trenching is recommended in conjunction with the work done on the WHAT 1 to 6.



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **4788** MAP **#1**

EL PASO MINING AND MILLING COMPANY
 DEL NORTE MINING GROUP

LOCATION MAP
 'WHAT' MINERAL CLAIM GROUP
 NICOLA M.D.
 BRITISH COLUMBIA

DRAWN BY: P.V. DATE: SEPT. 1978
 TRACED BY: DATE:
 REVISED DATE REVISED DATE

SCALE
 1 : 50000

DRAWING NO.
 92-H-11-B1^A

INTRODUCTION

From August 20 to August 27, 1973 a crew of three men conducted a geochemical survey over WHAT Nos' 7 and 8.

The WHAT 7 and 8 claims were staked by V. Ryback-Hardy on August 4, 1973 and were recorded at Merritt on August 10, 1973. The claims are presently owned by the El Paso Mining and Milling Company.

The claims group is located approximately forty-two miles south of Merritt, B.C. Access to the property is by the Coldwater road. The WHAT 7 and 8 adjoin WHAT Nos 5 and 6 to the south-west and are three miles south of the Juliet Creek bridge and one mile west of the Coldwater road.

A grid covering the WHAT 1 to 6 claims was extended to the southwest to cover WHAT 7 and 8. One hundred twelve soil samples were collected along this extended grid.

The WHAT 7 and 8 claims lie at an elevation of 5500 feet above sea level on the top of a flat ridge trending N20°E. The area is covered with stunted fir and balsam with very little undergrowth.

FIELDWORK

A 1500 foot base line was run at a bearing of S20°W along the location line of WHAT 7 and 8. At two hundred foot-intervals cross lines were run at right angles to the baseline. The cross lines were extended 500 feet to the northwest and 1000 feet to the southeast of the baseline for a total length of 1500 feet. This grid was established with a "Sylva" compass and a "Topochaix", a "lost" thread device which records the length of string unreeling from an odometer-like device in the unit, thus measuring the distance covered. Grid points were marked with a numbered vinyl flag.

Soils were collected at 100 foot intervals along the grid lines at an average depth of 0.3 meters, with a mattock. The soil samples were stored in kraft envelopes marked with the grid location.

GEOLOGY

Although no outcrops were found on WHAT 7 and 8 in the grid area, nearby outcrops indicate that the area is probably underlain by quartz diorite belonging to the Eagle Granodiorite of Lower Cretaceous of Jurassic age. This body is exposed in a narrow belt elongated in a northwest-southeast direction along the eastern Cascade Belt. The rock is generally foliated with the foliation parallel to the direction of elongation.

Generally, the Eagle Granodiorite is composed of the following mineral: quartz - 22.6%, plagioclase feldspar 65.2%, potash feldspar - 0.4%; therefore, the rock is a quartz diorite.

The claims are 2000 feet west of the intrusive contact with the Nicola volcanics of Upper Triassic age.

GEOCHEMICAL RESULTS

One hundred twelve soil samples were collected and analyzed 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 2ml of concentrated nitric acid (HNO₃) for one half hour. Then 5ml of perchloric acid (HClO₄) were added and the sample was allowed to digest for 5 hours at +250°F. The sample was diluted to 25ml with distilled water and then analyzed for copper and molybdenum by the atomic absorption method. The analyses were done by

Min En Laboratories Ltd.,
705 West 15th Street,
North Vancouver, B.C.

The results of the soil analyses were included with the geochemical results on WHAT Nos' 1 to 6 for statistical interpretation. Statistical parameters are summarized on Figures 2 to 5 and are as follows:

u = mean of the values			d = one standard deviation		
Cu			Mo		
background	= u	= 32 ppm	u	= 4.3 ppm	
possibly anomalous	= u+d to u+2d	= 96 - 160 ppm	u+d to u+2d	= 22.0 to 39.7 ppm	
probably anomalous	= u+2d to u+4d	= 160 ppm-288 ppm	u+2d to u+3d	= 39.7 ppm to 57.4 ppm	
definitely anomalous	u+4d	= 288 ppm	u+3d	57.4 ppm	

For ease of contouring, the following values were chosen:

	<u>Cu</u>		<u>Mo</u>
background	= 32 ppm		4.0 ppm
possibly anomalous	= 100-150 ppm		20-40 ppm
probably anomalous	= 150-300 ppm		40-60 ppm
definitely anomalous	300 ppm		60 ppm

The soil results were plotted on the grid and contoured as outlined above. The geochemical plan shows a coincident copper and molybdenum soil anomaly extending beyond WHAT Nos' 5 and 6 in a southerly direction across WHAT No. 7. The anomaly on the WHAT No. 7 varies in width from 150 feet to 200 feet, along a length of roughly 1500 feet.

CONCLUSIONS AND RECOMMENDATIONS

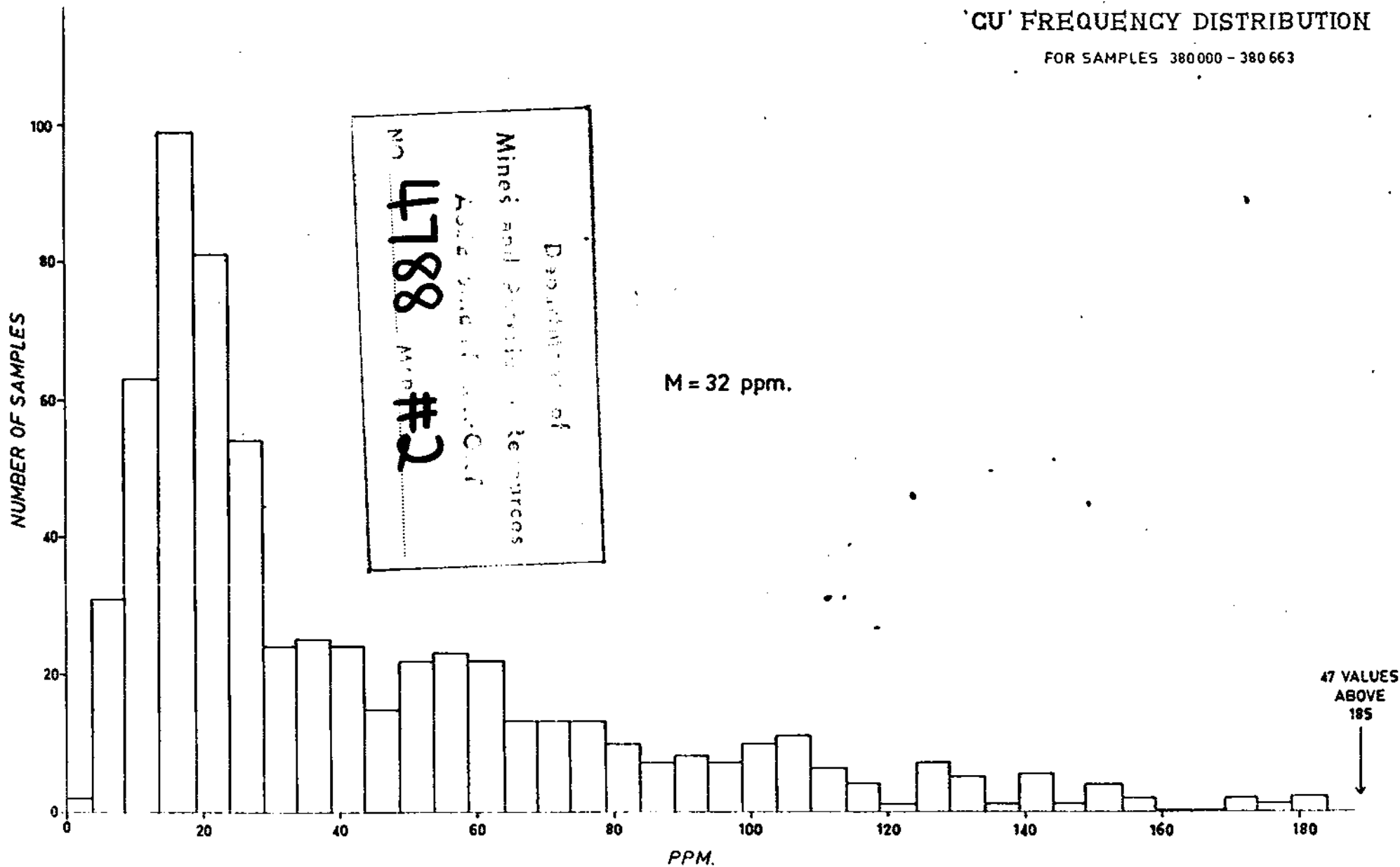
The area underlain by WHAT No. 7 and 8 is almost entirely drift covered and no mineralization was seen. The overburden, however, is estimated to be generally less than five feet in thickness, and the geochemical anomaly may reflect copper and molybdenum mineralization in the bedrock beneath.

To test this possibility, a series of trenches should be excavated across the geochemically anomalous areas to expose the underlying bedrock.

Victor R. Hardy

EL PASO MINING AND MILLING CO
'WHAT' MINERAL CLAIM GROUP
NICOLA M.D.
'CU' FREQUENCY DISTRIBUTION

FOR SAMPLES 380000 - 380663



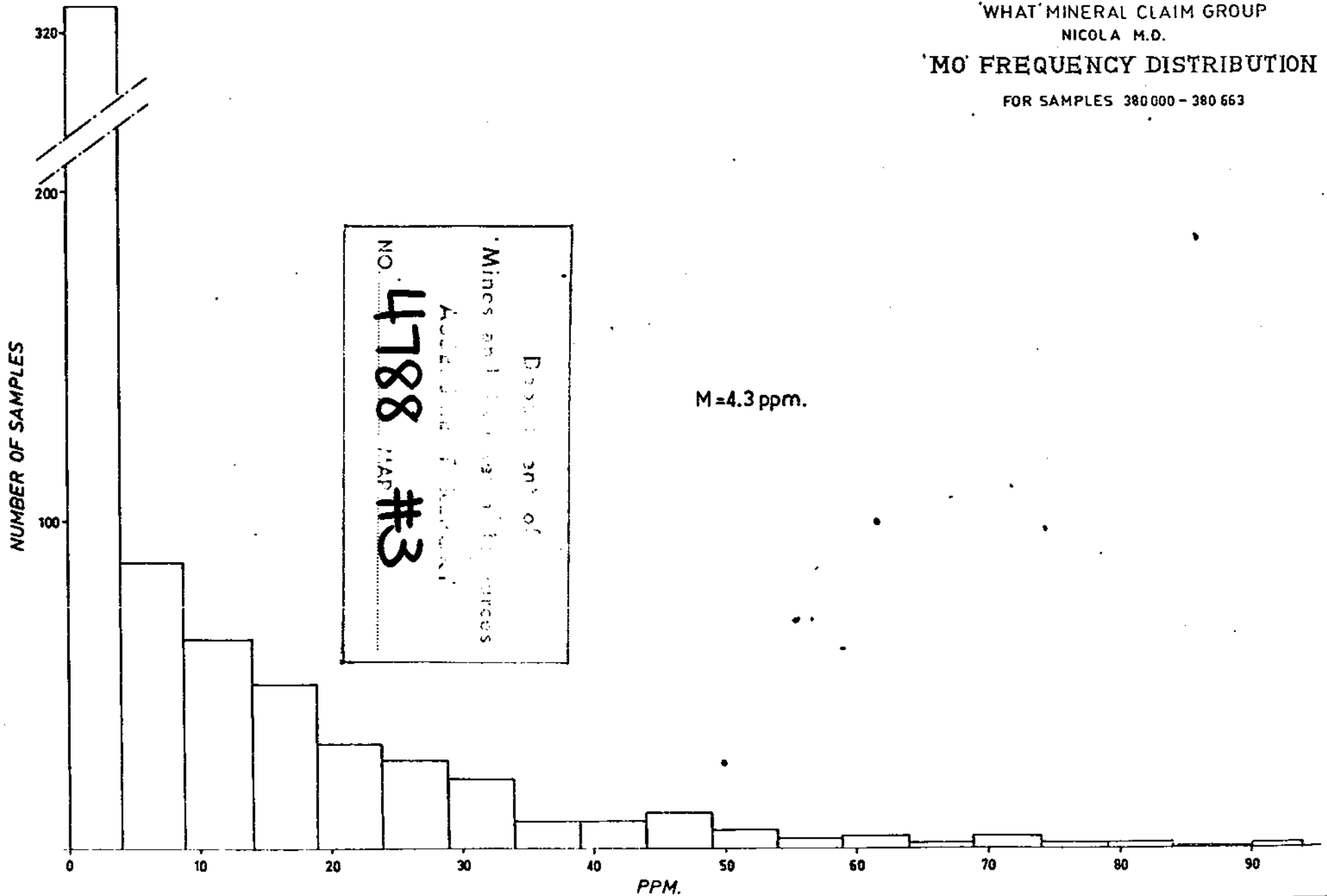
EL PASO MINING AND MILLING CO.

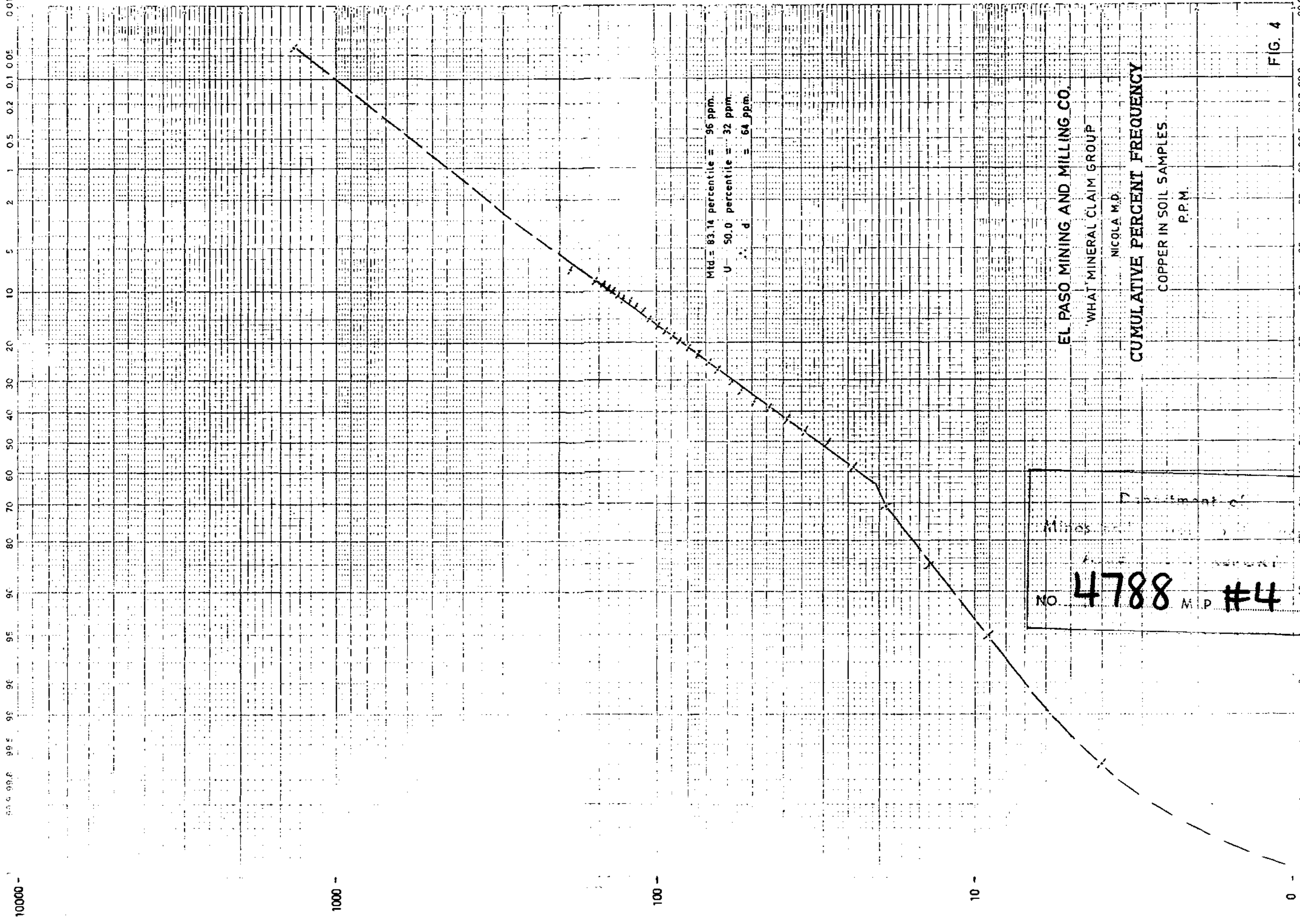
'WHAT' MINERAL CLAIM GROUP

NICOLA M.D.

'MO' FREQUENCY DISTRIBUTION

FOR SAMPLES 380 000 - 380 663

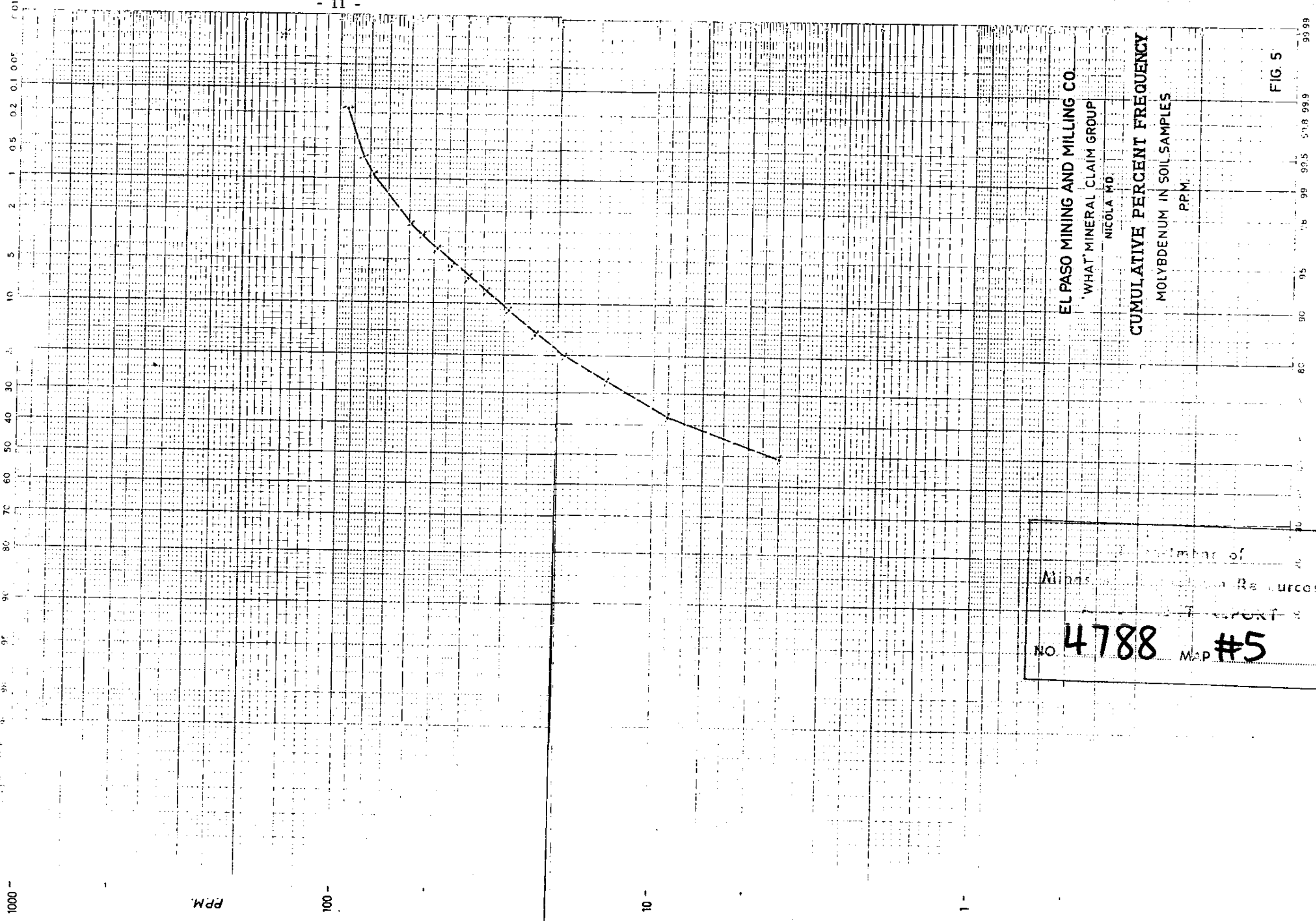




Department of
Mines and Technical Surveys
REPORT
NO. **4788** M.P. **#4**

EL PASO MINING AND MILLING CO.
WHAT MINERAL CLAIM GROUP
NICOLA M.D.
CUMULATIVE PERCENT FREQUENCY
COPPER IN SOIL SAMPLES
P.P.M.

FIG. 4



EL PASO MINING AND MILLING CO.
 'WHAT' MINERAL CLAIM GROUP
 NICOLA MD.
 CUMULATIVE PERCENT FREQUENCY
 MOLYBDENUM IN SOIL SAMPLES
 PPM.

Alphas
 NO. **4788** MAP #5

FIG. 5

A P P E N D I X "A"

STATEMENT OF COSTS

STATEMENT OF COSTS

SALARIES:

AUGUST 20th TO AUGUST 27, 1973

V. RYBACK-HARDY	\$ 903/month for 3 days =	\$ 117.78
M. MORET	600/month for 8 days =	208.72
M. HUTCHINSON	600/month for <u>8</u> days =	<u>208.72</u>
	19 days	\$ 535.22

MEALS AND ACCOMMODATION:

3 men, total 19 man days (see above) @ \$15/man/day= 285.00

VEHICLE RENTAL:

8 days @ \$246.75/month = 65.76

ASSAYS:

112 samples @ \$2.15/ sample = 240.80

REPORT PREPARATION:

= 100.00

TOTAL \$1,226.78

Victor Ryback-Hardy

A P P E N D I X "B"

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 WHAT Nos' 7 and 8 Claims from AUGUST 20th to AUGUST 27th, 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 "C"

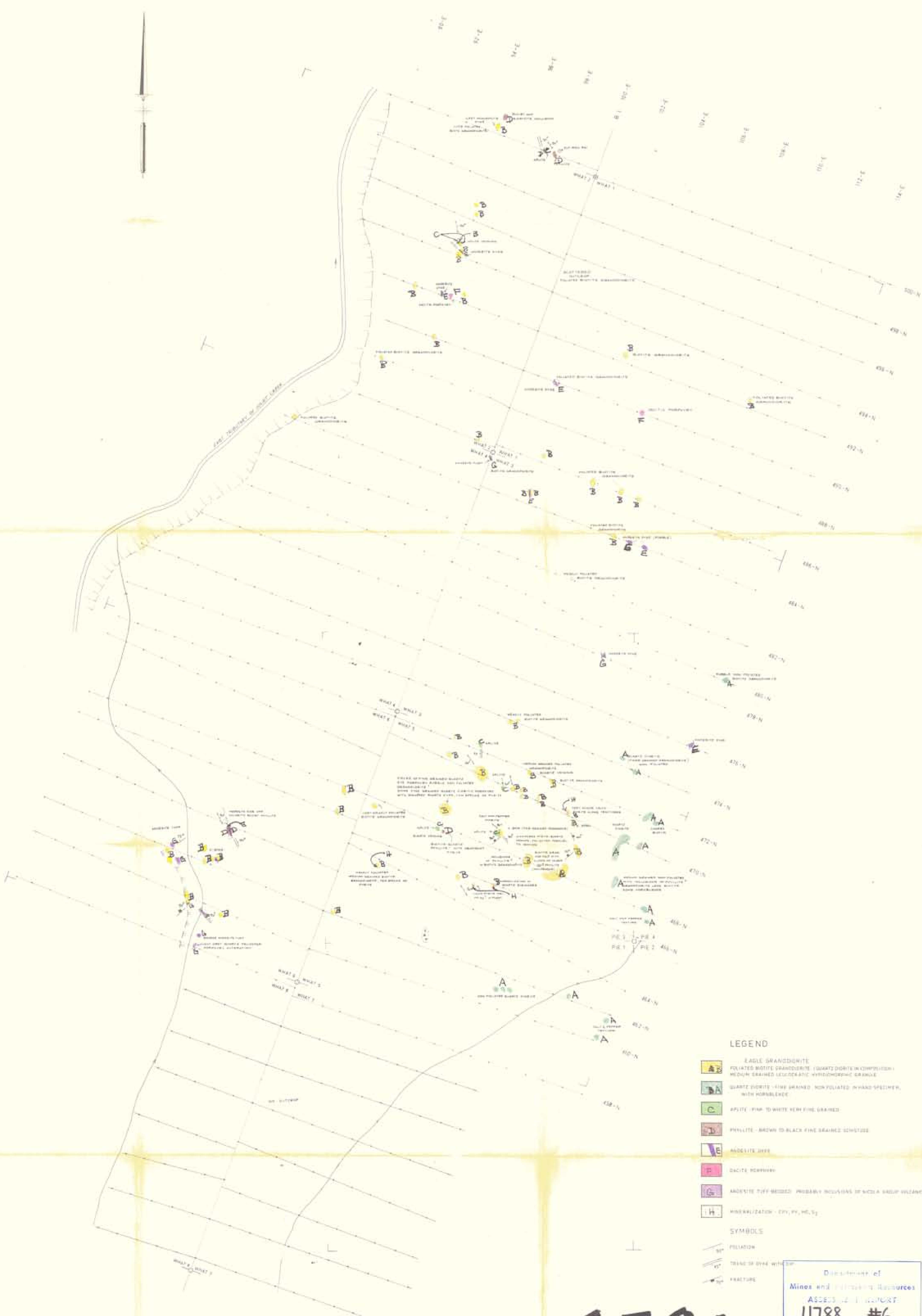
GEOCHEMICAL RESULTS

Sample Number	Mn ppm	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Co ppm	As ppm	Pb ppm	Hg ppm	Ag ppm
81	86	90	95	100	105	110	115	120	125	130
380595	2	22 ✓		101						
96	3	25 ✓		96						
97	7	21 ✓		170						
98	6	17 ✓		69						
99	12	21 ✓		120						
600	2	25 ✓		65						
01	2	22 ✓		92						
02	2	21 ✓		72						
03	2	18 ✓		80						
04	3	21 ✓		90						
05	2	14 ✓		66						
06	2	11 ✓		64						
07	2	9 ✓		80						
08	2	13 ✓		96						
09	2	40 ✓		117						
10	2	13 ✓		89						
11	2	38 ✓		108						
12	1	17 ✓		66						
13	2	21 ✓		165						
14	1	15 ✓		795						
1452-95	3	41 ✓		88						
96	3	15 ✓		45						
17	7	28 ✓		68						
18	16	41 ✓		65						
19	49	64 ✓		55						
20	24	28 ✓		59						
21	24	59 ✓		136						
22	13	40 ✓		75						
23	16	37 ✓		76						
380624	13	33 ✓		57						

Sample Number	Mo ppmm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Sb ppm	Se ppm	Te ppm
81	86	90	95	100	105	110	115	120	125	130	135	140	145
4452 380625	31	67	✓	90				•					
26	52	315	✓	116				•					
27	16	34	✓	50				•					
28	19	34	✓	61				•					
29	10	37	✓	62				•					
30	8	77	✓	73				•					
31	10	176	✓	104				•					
32	9	67		48				•					
33	20	152		97				•					
34	12	36		43				•					
35	10	37		54				•					
36	17	85		49				•					
37	18	104		81				•					
38	18	63		71				•					
39	17	36		83				•					
40	20	59		86				•					
41	23	63		81				•					
42	27	144	✓	158				•					
43	17	70		59				•					
44	10	18		44				•					
45	32	52		111				•					
46	6	21	✓	54				•					
47	42	49	✓	86				•					
48	15	54	✓	90				•					
49	14	27	✓	53				•					
50	20	103	✓	131				•					
51	16	30		30				•					
52	38	220	✓	158				•					
101 53	43	60	✓	99				•					
102 380654	32	126	✓	99				•					

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppm	As ppm	Se ppm	Zn ppm
6	10	15	20	25	30	35	40	45	50	55	60	7
81	86	90	95	100	105	110	115	120	125	130	135	140
380694	4	12		37			•					
95	8	20		63			•					
448-100 96	12	28		80			•					
97	16	53		117			•					
98	24	78		86			•					
99	9	43		62			•					
700	7	36		58			•					
01	26	59		73			•					
02	31	47		60			•					
03	61	100		80			•					
04	24	150		51			•					
05	23	112		89			•					
06	9	94		106			•					
450-100 07	16	118		115			•					
08	9	104		110			•					
09	14	140		104			•					
10	98	385		154			•					
11	35	106		105			•					
12	13	84		69			•					
13	10	69		103			•					
14	7	70		124			•					
15	13	92		104			•					
16	29	99		89			•					
17	21	51		70			•					
18	7	23		43			•					
19	6	98		115			•					
20	3	12		40			•					
21	15	24		82			•					
22	3	36		102			•					
380723	8	83		127			•					

RECEIVED
SEP 17 1973



LEGEND

- EAGLE GRANODIORITE
 - FOLIATED MOTILE GRANODIORITE (QUARTZ DIORITE IN COMPRESSION)
 - MEDIUM GRAINED LENTICULAR HYPODIOCHROMIC GRANITE
 - QUARTZ DIORITE - FINE GRAINED, NON-FOLIATED, HYDRO-THERMAL, WITH HORNBLENDE
 - APSITE - PINK TO WHITE VERY FINE GRAINED
 - PHYLITE - BROWN TO BLACK FINE GRAINED SCHISTOSE
 - ANDESITE DIKE
 - DACITE PORPHYRY
 - ANDESITE TUFF-BEDDED - PROBABLY INCLUSIONS OF NICOLA GROUP VOLCANICS
 - MINERALIZATION - COP, PP, MO, U₂
- SYMBOLS**
- FOLIATION
 - TRACE OF DYKE WITH SP
 - FRACTURE

4788
M6

Victor Rybak-Hardy

Department of
Mineral and Petroleum Resources
 ASSESSMENT REPORT
NO. 4788 MAP #6

EL PASO MINING AND MILLING COMPANY
 281 NORTH MAIN AVENUE

GEOLOGY
 WHAT MINERAL CLAIM GROUP
 NICOLA M.D.
 BRITISH COLUMBIA

SCALE: 1" = 1/4 MILE DATE: SEPT. 1975 SHEET: 11 of 200
 Revision No. 02-04-11 B 2A



4788
M7
Victor Kopylov

LEGEND
 CONTOUR INTERVAL 45 SHOWN
 BACKGROUND 22 PPM

	POSSIBLY ANOMALOUS	100-150 PPM
	PROBABLY ANOMALOUS	150-300 PPM
	DEFINITELY ANOMALOUS	300-400 PPM
		> 400 PPM

Dated: 1988-08-22

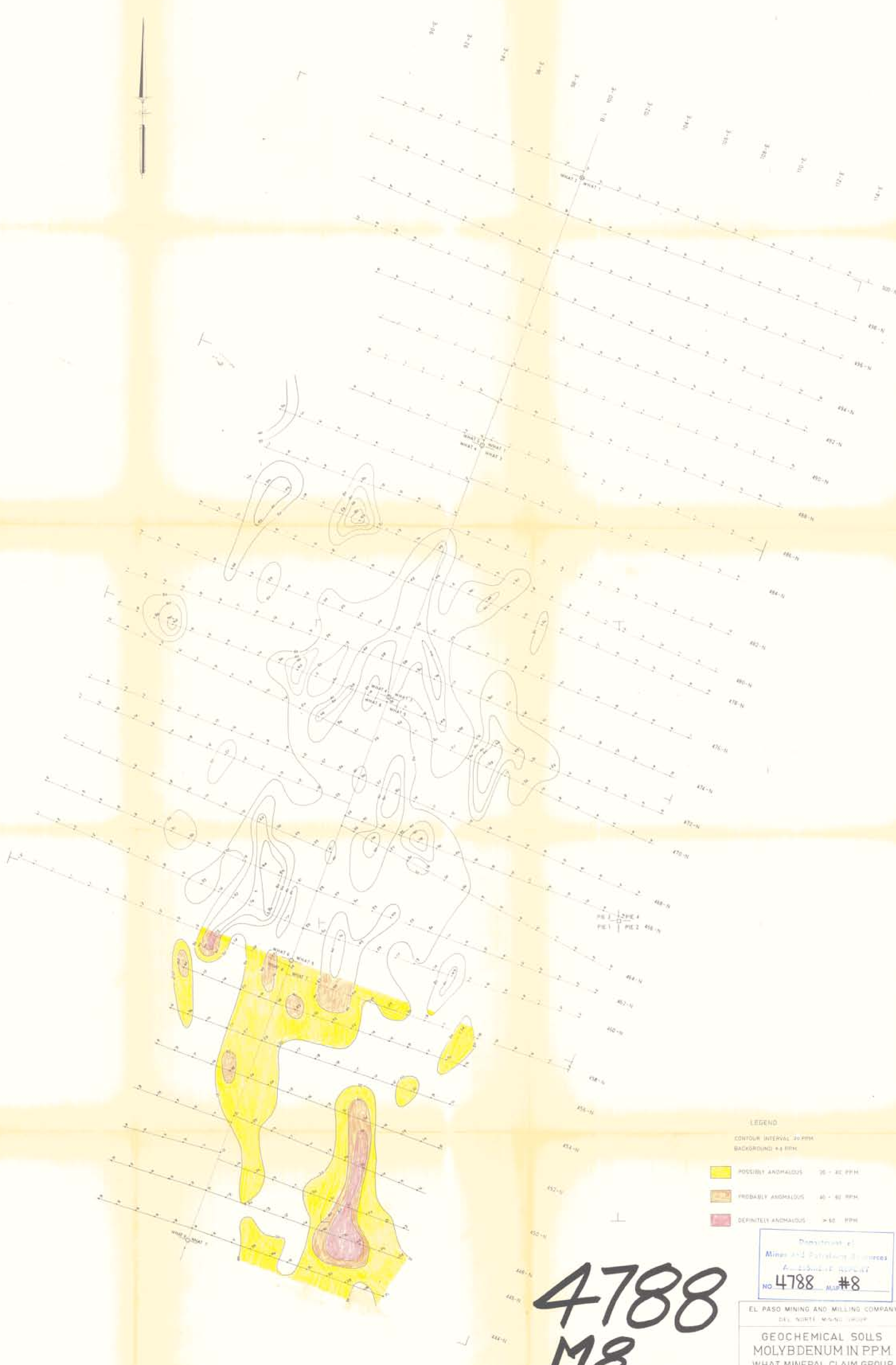
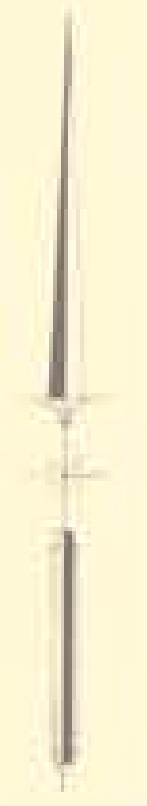
Mineral and Geological Resources
 ASSESSMENT REPORT
 NO. 4788 MAP #7

BY: P. B. MINING AND MILLING COMPANY
 221 NORTH MAIN STREET

**GEOCHEMICAL SOILS
 COPPER IN PPM**
 WHAT MINERAL CLAIM GROUP
 NICOLA M.D., BRITISH COLUMBIA

SCALE: 1:200 DATE: SEPT 1988 11-200

92-H-11 B3A



LEGEND
 CONTOUR INTERVAL 30 PPM
 BACKGROUND +3 PPM

	POSSIBLY ANOMALOUS	26 - 30 PPM
	PROBABLY ANOMALOUS	40 - 50 PPM
	DEFINITELY ANOMALOUS	> 60 PPM

4788
M8
Clifton, Richard, Hardy

Department of
 Mines and Petroleum Resources
 Assessment Branch
 NO 4788 MAP #8

EL PASO MINING AND MILLING COMPANY
 DEL NORTE MINING GROUP

GEOCHEMICAL SOILS
 MOLYBDENUM IN PPM
 WHAT MINERAL CLAIM GROUP
 NICOLA M.D., BRITISH COLUMBIA

DATE: SEP 1973
 SCALE: 1" = 200'

92-H-11-B4⁴