3264

GEOLOGICAL-GEOPHYSICAL-GEOCHEMICAL REPORT

on the

KLI MINERAL CLAIMS

KLIYUL CREEK AREA

Located 12 miles west
of Aiken Lake, B. C.

(56° 27' N, 126° 05' W) 94 D /8E
Omineca Mining Division, B. C.

by

G. A. Noel, P. Eng.

August 27, 1971

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ILLUSTRATIONS

SUMMARY

From July 1 to July 17, 1971 a five-man crew completed geological mapping, a ground magnetometer survey and a geochemical soil survey on the Kli claims, about 12 miles west of Aiken Lake, B.C., in the Omineca Mining Division. The property consists of four claims, Kli 1-4, which lie along the west side of Kliyul Creek. The property is underlain by porphyritic andesite of the Takla Group, which is intruded by an ultramafic plug. The volcanics are sheared and altered along the contact zone and small skarn zones have been developed in the volcanics along the walls of the sheared zone. A little chalcopyrite and pyrite occur in this skarn zone and, in places, in feldspathic dikes which cut all other rocks in the area. The magnetometer survey fairly well outlined the areas of ultramafic rocks. The geochemical soil survey outlined several anomalies over the area of ultramafic rocks as well as the copper mineralization in the skarn zones and feldspathic dikes.

Further work is planned to investigate the copper soil anomalies over the ultramafic complex.

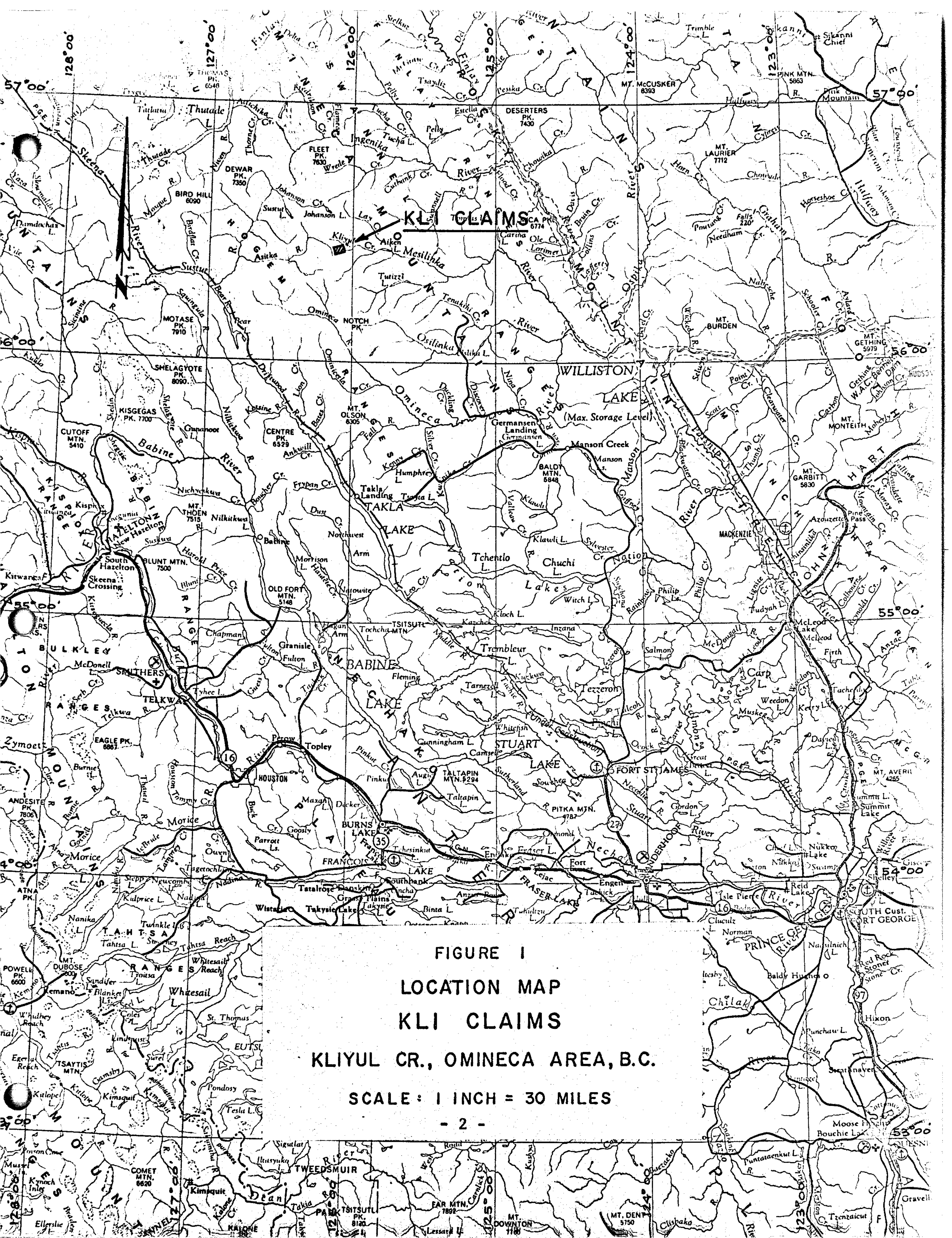


FIGURE I

LOCATION MAP

KLI CLAIMS

KLIYUL CR., OMINECA AREA, B.C.

SCALE : I INCH = 30 MILES

INTRODUCTION

Between July 1 and July 17, 1971 a crew of five men was engaged in geological mapping, a ground magnetometer survey, and a geochemical soil survey on the Kli property, owned by El Paso Mining and Milling Company.

The Kli property consists of four claims, Kli 1 to 4 inclusive, and is located in the Omineca Mining Division about 12 miles west of Aiken Lake, near the head of the Mesilinka River. The claims are on the west side of the Kliyul Creek and extend from 4100 feet elevation at creek level to about 5000 feet at their southwest end. From Germansen Landing, a secondary access road follows the north bank of the Omineca River westerly to Discovery Creek, then swings north crossing the Osilinka and Mesilinka Rivers, and finally follows the north side of the Mesilinka River northwest to Aiken Lake for a total distance of about 80 miles. The Kli property requires servicing by helicopter from Aiken Lake.

FIELDWORK

A total of 17 days was spent in geological mapping, and on the magnetometer and geochemical soil surveys by the five-man crew. A survey grid was laid out by compass and tape, covering an area 2800 feet long (northwest-southeast) by 2000 feet wide. Traverse lines were run N45°E for 700 feet southwest and 1300 feet northeast of a N45°W base line through the common claim corner, No. 2 Post of Kli 1 and 2 and No. 1 Post of Kli 3 and 4. Lines were spaced at 200 feet and stations at 100 feet. This grid was used for geological mapping as well as for the magnetometer and geochemical soil surveys. A number of chip samples were taken from the mineralized skarn zone about 50 feet west of the common corner of the four claims.

The magnetometer survey was done with a McPhar M-700 flux gate magnetometer. This instrument reads from 0 to 250,000 gammas in five ranges with either positive or negative polarity. The baseline was run back and forth in a short time interval to establish magnetic control values for each traverse line. The magnetometer readings along each traverse were corrected after traverse closure using a time-magnetometer correction plot.

The soil samples were taken from the "B" horizon where possible, using a 1-inch diameter auger. This horizon was found generally between six inches and one foot depth below the surface. A total of 345 samples was collected and analyzed for total copper, zinc and silver in parts per million by Warnock Hersey Ltd., 125 East 4th Avenue, Vancouver, B. C., using the following procedure:

1. The soil sample was air-dried at 150°F.
2. The sample was then sieved through a -80 mesh nylon and stainless steel sieve.
3. 0.5 grams of the -80 mesh material were weighed into a test tube and digested for two hours in hot 70% $HClO_4$ and HNO_3.

4. The sample volume was adjusted to 25 mls. and mixed thoroughly.

5. Analysis of copper, zinc and silver content was done by the atomic absorption method.

GEOLOGY

The Kli claims are underlain by andesitic volcanic rocks of the Takla Group of Upper Triassic and Jurassic age. These flows have been intruded by a small body of peridotite which extends along the southwest contact of a large tongue of quartz diorite occupying the northeast side of Kliyul Creek. This quartz diorite is part of the Omineca intrusions and is probably younger than the ultramafic body.

The ultramafic intrusives which include peridotite, hornblende gabbro, and hornblende diorite occupy the northeastern half of the claims area adjacent to the southwest side of Kliyul Creek and in general underlie Kli No. 1 and Kli No. 3 claims (See Map No. 1.) The hornblende gabbro and diorite may have developed from reaction between the peridotite and the intruded volcanics.

The volcanics which are mainly a porphyritic andesite show considerable alteration - saussurite and carbonate. Near the contact with the ultramafic, which trends N 50° W across the common corner of the four claims, the andesite has been intensely sheared with the development of a chlorite-carbonate-serpentine schist zone. Fine grained skarn zones up to 50 feet wide have been developed in the andesite along both contacts of the chlorite-carbonate schist. This skarn is composed of epidote, calcite, garnet, quartz and possibly diopside.

All of the above-mentioned rocks are cut by highly feldspathic dikes of monzonite to quartz monzonite composition. These dikes are particularly prevalent near the skarn zones and have a WNW trend roughly parallel to the sheared schist zone.

Mineralization consists of chalcopyrite and pyrite irregularly disseminated through some of the skarn bands. Eleven chip samples were taken over an average length of ten feet for each sample and showed an average assay of 0.19% copper with a range between trace and 0.46% copper.

MAGNETOMETER RESULTS

The corrected magnetometer readings are plotted and contoured at a 500-gamma interval on Map No. 3. The higher magnetic relief northeast of the baseline reflects the underlying ultramafic complex, in contrast to the subdued pattern southwest of the baseline over the volcanic rocks.

GEOCHEMICAL RESULTS

The geochemical results northeast and southwest of the baseline were treated separately due to the variation in geological

ARITHMETIC MEAN > 600 P.P.M OMITTED = 136.31 P.P.M.

FIGURE 2

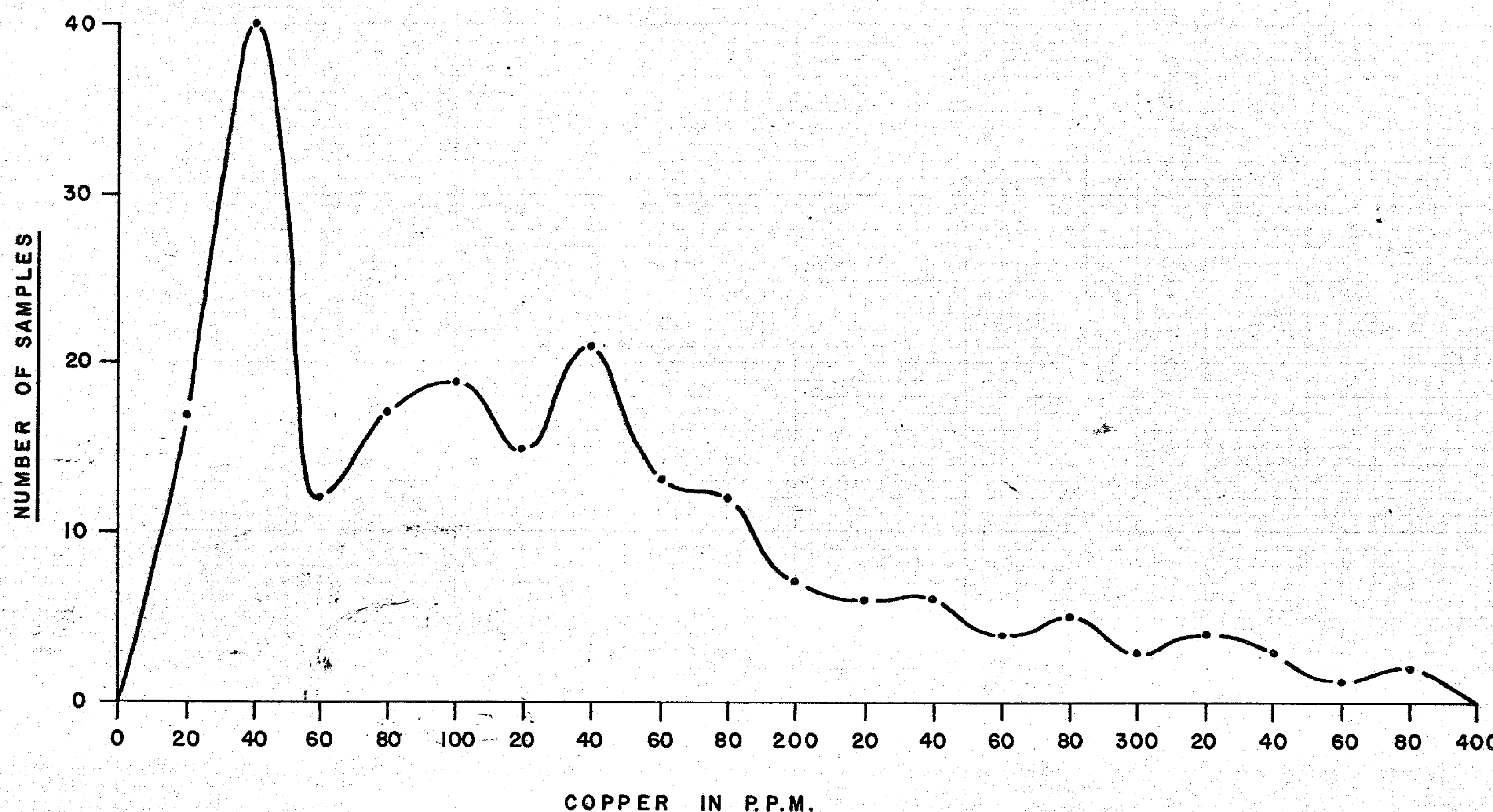
FREQUENCY CURVE - COPPER IN SOILS

NE OF BASE LINE

KLI CLAIMS

KLIYUL CR., OMINECA AREA, B.C.

AUGUST 1971



ARITHMETIC MEAN >600 P.P.M. OMITTED = 85.85 P.P.M.

FIGURE 3

FREQUENCY CURVE - COPPER IN SOILS

SW OF BASE LINE

KLI CLAIMS

KLIYUL CR., OMINECA AREA, B.C.

AUGUST 1971

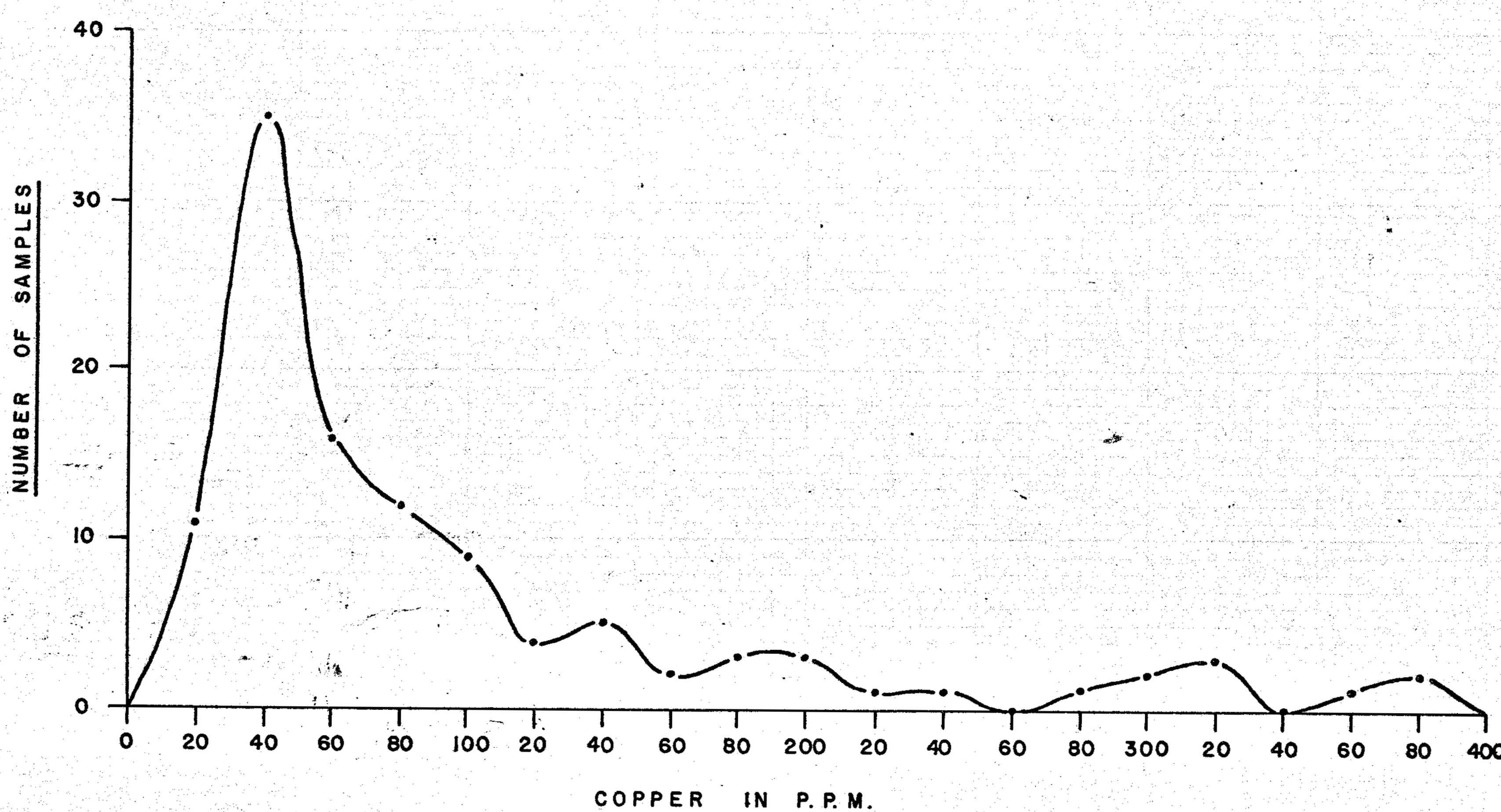


FIGURE 4

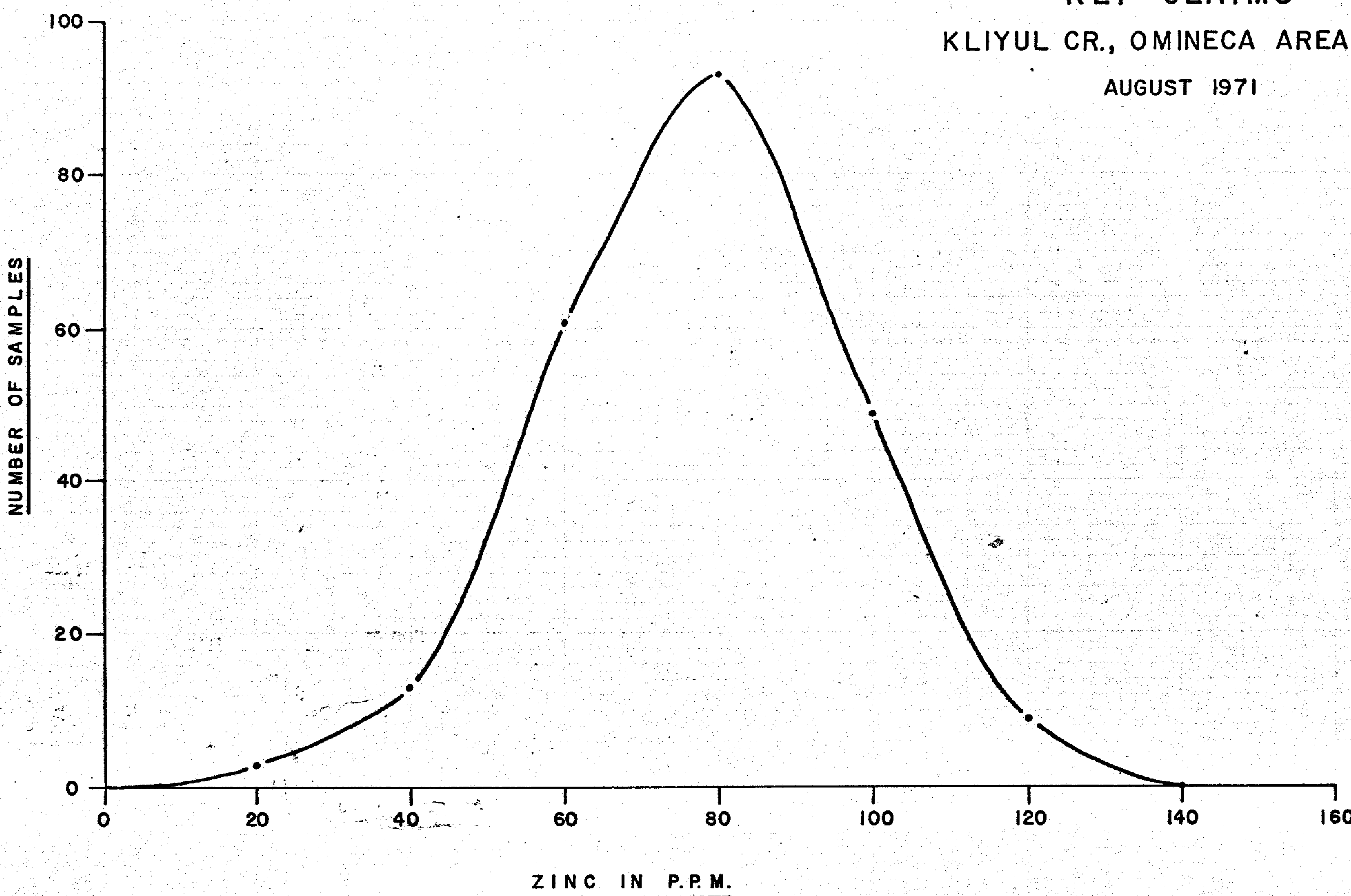
FREQUENCY CURVE - ZINC IN SOILS

NE OF BASE LINE

KLI CLAIMS

KLIYUL CR., OMINECA AREA, B.C.

AUGUST 1971



ARITHMETIC MEAN = 67.60 P.P.M.

FIGURE 5

FREQUENCY CURVE - ZINC IN SOILS

SW OF BASE LINE

KLI CLAIMS

KLIYUL CR., OMINECA AREA, B.C.

AUGUST 1971

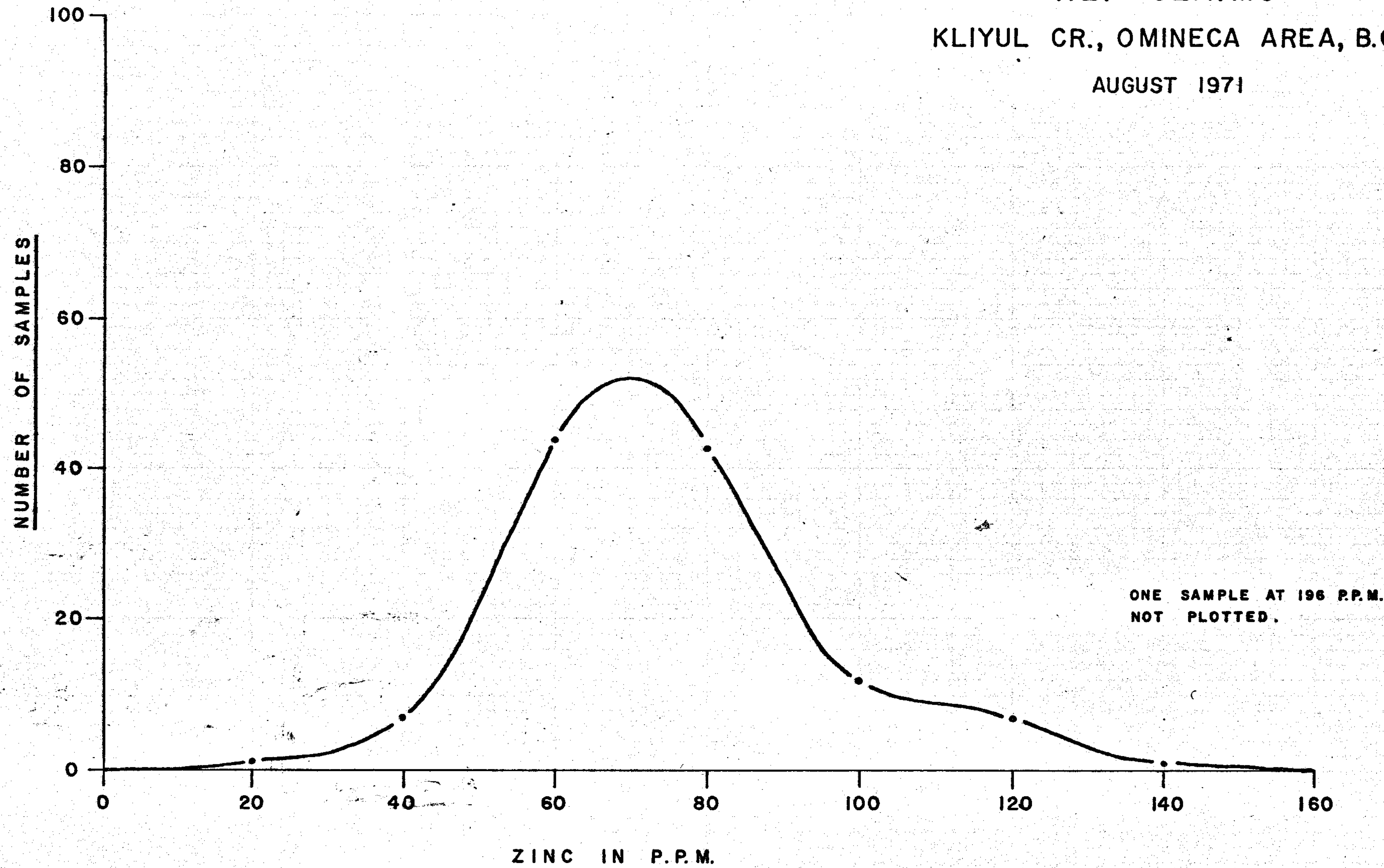


FIGURE 6

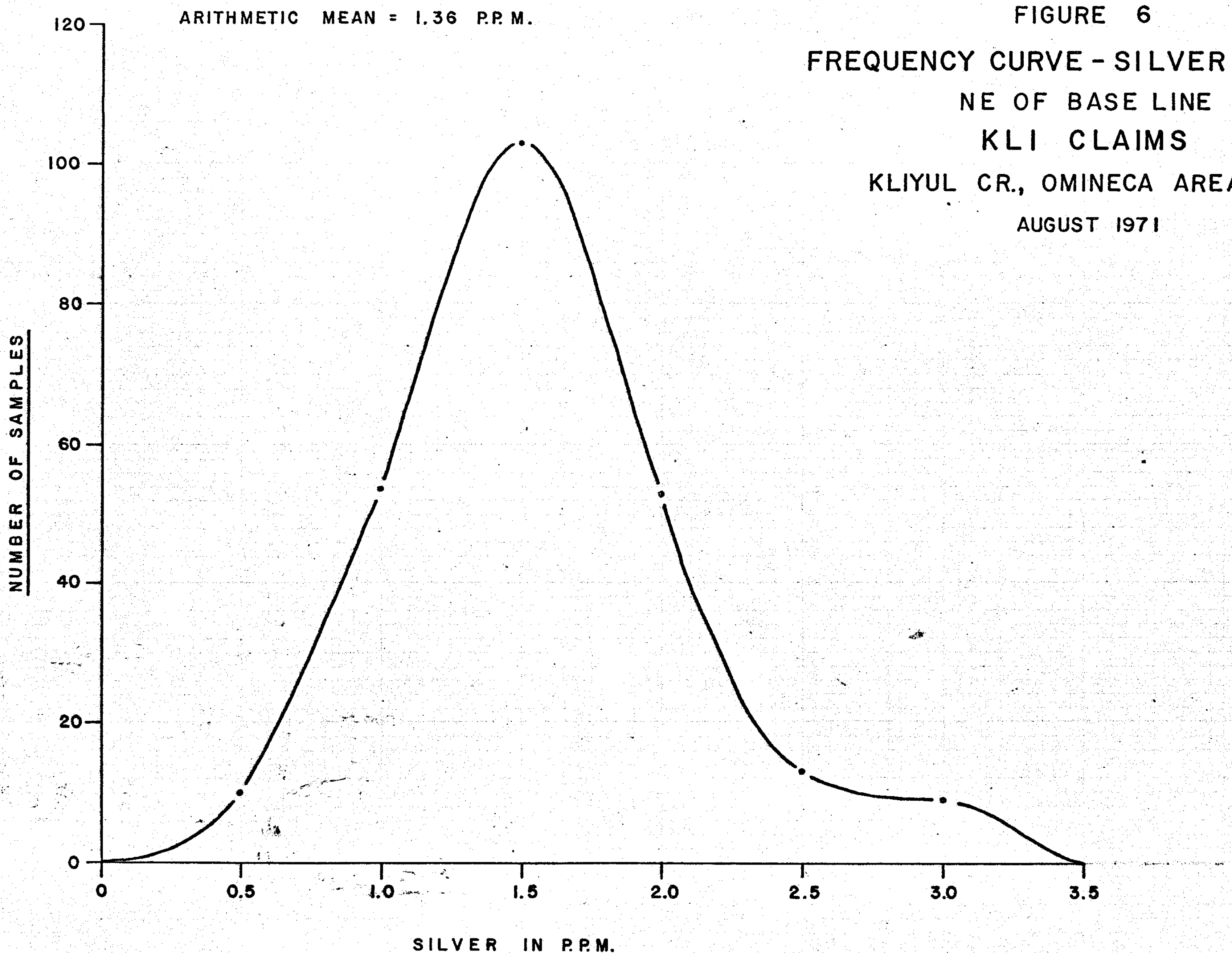
FREQUENCY CURVE - SILVER IN SOILS

NE OF BASE LINE

KLI CLAIMS

KLIYUL CR., OMINECA AREA, B.C.

AUGUST 1971



ARITHMETIC MEAN = 1.31 P.P.M.

FIGURE 7

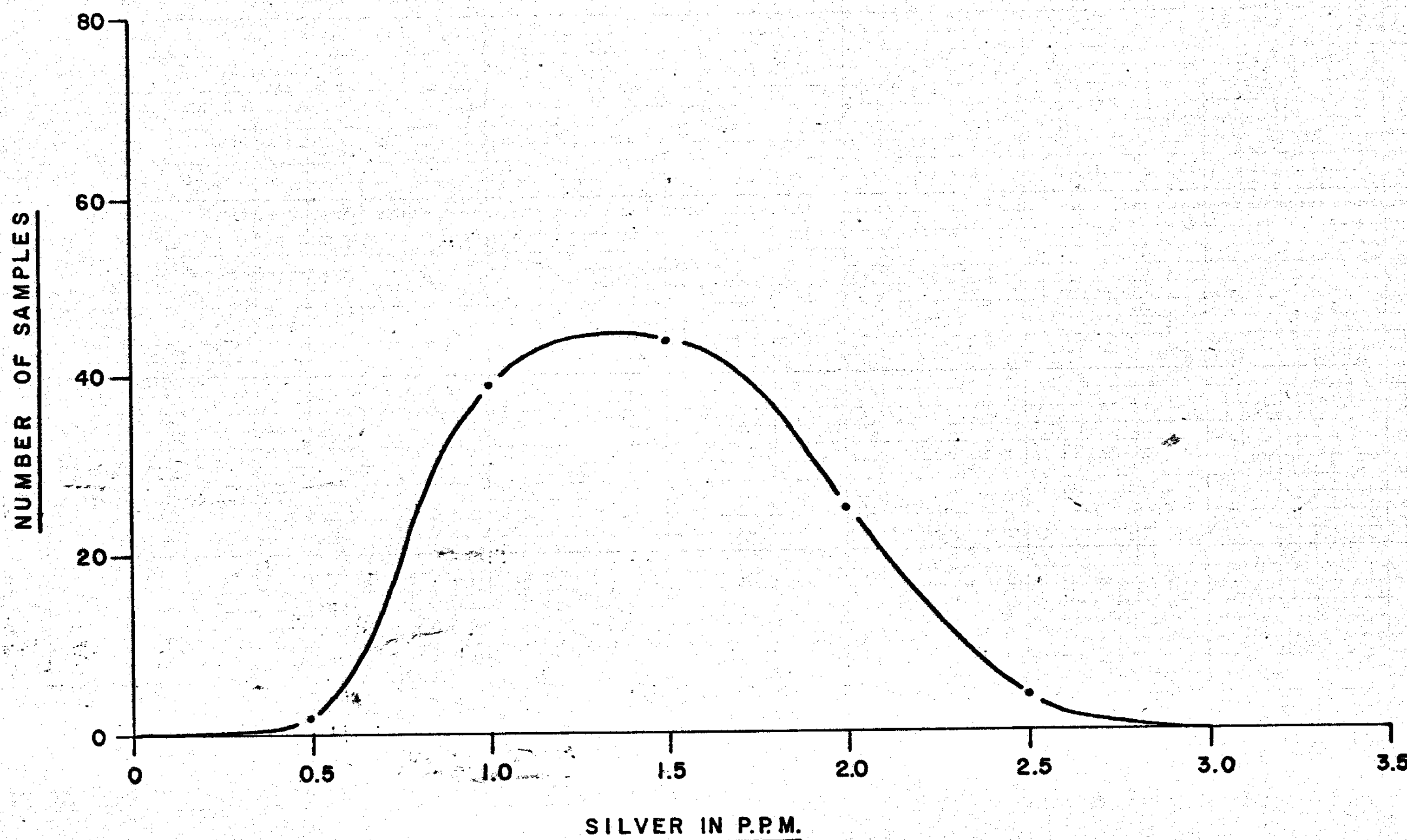
FREQUENCY CURVE - SILVER IN SOILS

SW OF BASE LINE

KLI CLAIMS

KLIYUL CR., OMINECA AREA, B.C.

AUGUST 1971



environment. Frequency curves were plotted for both areas for copper, zinc and silver and these are included as Figures 2, 3, 4, 5, 6 and 7. The arithmetic mean of the soil sample assays in each case is shown on the respective plot. From an inspection of these curves, it was determined that the soil samples were not anomalous with respect to zinc and silver and that the background and anomalous values were very similar over both volcanic and ultramafic terrain; that is, southwest and northeast of the baseline.

The copper soil analyses are plotted on Map No. 2 and the following ranges for anomalous values have been used based on Figures 2 and 3 and a background of 70 ppm copper:

Anomalous Designation	Range - ppm Cu	Color (Map No. 2)
Possibly	150 - 250	Yellow
Probably	250 - 350	Orange
Definitely	> 350	Red

Six main copper soil anomalies are outlined on Map No. 2. These are generally irregularly shaped, fairly extensive and of west to west-northwest trend. These anomalies are designated A, B,C, D, E and F on the map.

Anomalies A, B and C occur in the ultramafic and may only reflect an inherently higher copper content of parts of this intrusive complex.

Anomaly D and possibly part of anomaly E are considered due to northwest-trending monzonite dikes, which generally show some copper mineralization.

Anomalies E and F are probably due to the skarn type mineralization in the volcanics.

CONCLUSIONS

The skarn-type copper mineralization on the Kli property is closely related to a WNW-trending chlorite-carbonate schist zone which probably reflects a shear zone in the volcanics along the intrusive contact. The late feldspathic dikes are considered to have been the mineralizers. The skarn zone itself is small and low grade.

The copper soil anomalies over the ultramafic rocks warrant further investigations.

G. A. Noel

APPENDIX A

GEOCHEMICAL ANALYSES

WARNOCK HERSEY INTERNATIONAL LIMITED • COAST ELDRIDGE PROFESSIONAL SERVICES DIVISION
125 East 4th Ave., Vancouver 10, B.C. Phone 876-4111

REPORT OF: Geochemical Analysis
AT: Vancouver Laboratory
PROJECT: Silt Samples
REPORTED TO: El Paso Mining & Milling Co.
500-885 Dunsmuir St.
Vancouver 1, B.C.

RECEIVED AUG - 5 1971 El Paso Mining & Milling Co.

FILE NO. 468-14480
DATE July 30, 1971
REPORT NO.
ORDER NO.

ATTENTION: Mr. G. A. Noel

We have tested the samples of silt submitted to us on July 19, 1971 and report as hereunder:

TEST RESULTS

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
7N - 0E	15	48	1.2
7N - 1E	14	52	1.2
7N - 2E	23	72	1.5
7N - 3E	77	64	2.0
7N - 4E	196	100	2.0
7N - 5E	430	108	1.7
7N - 6E	336	52	2.7
7N - 7E	220	64	2.2
7N - 8E	316	112	2.0
7N - 9E	88	56	1.5
7N - 10E	280	60	1.5
7N - 11E	87	68	1.2
7N - 12E	108	60	1.7
7N - 13E	136	76	1.5
7N - 14E	164	72	2.2
7N - 15E	192	52	2.0
7N - 16E	272	16	3.0
7N - 17E	76	56	1.2

....1

....2

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
7N - 18E	SAMPLE LOST DURING ANALYSIS		
9N - 0E	40	44	1.0
9N - 1E	52	92	2.0
9N - 2E	48	68	2.2
9N - 3E	32	64	2.0
9N - 4E	26	68	1.2
9N - 5E	16	64	1.5
9N - 6E	72	60	1.5
9N - 7E	20	56	1.5
9N - 8E	132	68	1.7
9N - 9E	64	60	1.7
9N - 10E	96	56	1.0
9N - 11E	68	40	1.5
9N - 12E	140	68	0.7
9N - 13E	140	64	1.2
9N - 14E	690	68	1.7
9N - 15E	304	40	1.5
9N - 16E	912	36	1.7
9N - 17E	900	40	2.2
9N - 18E	300	44	2.2
11N - 0E	72	76	1.5
11N - 1E	140	84	1.5
11N - 2E	88	80	1.2
11N - 3E	96	76	1.2
11N - 4E	32	68	1.0
11N - 5E	48	72	1.2
11N - 6E	24	64	1.0
11N - 7E	36	64	1.0

....2

....3

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
11N - 8E	164	76	1.2
11N - 9E	164	72	1.5
11N - 10E	188	80	1.2
11N - 11E	304	56	2.0
11N - 12E	156	80	1.5
11N - 13E	172	84	1.2
11N - 14E	152	68	1.2
11N - 15E	156	68	1.2
11N - 16E	887	44	1.7
13N - 0E	224	72	1.5
13N - 1E	20	24	0.7
13N - 2E	132	73	1.2
13N - 3E	112	48	1.2
13N - 4E	116	76	1.5
13N - 5E	108	60	1.2
13N - 6E	168	68	1.5
13N - 7E	144	40	1.0
13N - 8E	188	76	1.5
13N - 9E	156	52	1.0
13N - 10E	112	56	1.2
13N - 11E	512	40	1.2
13N - 12E	232	60	1.5
13N - 13E	88	44	1.2
13N - 14E	136	56	1.7
13N - 15E	68	40	1.2
13N - 16E	100	44	1.2
15N - 0E	40	88	1.0
15N - 1E	156	88	1.0
15N - 2E	180	72	1.2

....3

...4

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
15N - 3E	52	76	1.0
15N - 4E	136	64	1.2
15N - 5E	84	56	0.7
15N - 6E	104	60	1.0
15N - 7E	76	68	1.0
15N - 8E	112	68	1.5
15N - 9E	104	64	1.5
15N - 10E	176	64	2.0
15N - 11E	176	60	1.5
15N - 12E	124	68	1.5
15N - 13E	196	56	1.5
15N - 14E	92	72	1.0
15N - 15E	196	64	1.5
15N - 16E	88	56	1.2
15N - 17E	92	44	1.7
7S - 1W	24	40	1.2
7S - 2W	26	44	1.5
7S - 3W	44	48	1.2
7S - 4W	60	72	1.5
7S - 5W	92	72	1.7
7S - 6W	96	52	1.7
7S - 7W	26	44	1.2
9S - 0E	24	84	1.7
9S - 1E	20	76	1.5
9S - 2E	20	72	1.5
9S - 3E	28	76	1.7
9S - 4E	24	84	1.5
9S - 5E	24	84	1.7
9S - 6E	20	76	1.5

....4

....5

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
9S - 7E	16	48	1.7
9S - 8E	28	56	1.7
9S - 9E	440	56	1.5
9S - 10E	540	68	1.7
9S - 11E	545	68	2.0
9S - 12E	224	56	1.7
9S - 1W	132	72	1.5
9S - 2W	112	68	1.2
9S - 3W	124	68	1.2
9S - 4W	28	44	1.5
9S - 5W	40	80	1.7
9S - 6W	24	60	1.2
9S - 7W	27	68	1.7
11S - 0E	16	92	1.5
11S - 1E	36	92	1.7
11S - 2E	28	80	1.5
11S - 3E	36	84	1.5
11S - 4E	580	84	1.7
11S - 5E	520	108	2.0
11S - 6E	368	100	1.5
11S - 7E	16	44	1.0
11S - 8E	40	80	1.7
11S - 9E	44	88	2.0
11S - 10E	24	80	1.5
11S - 11E	336	16	3.0
11S - 12E	560	28	2.0
11S - 13E	620	36	1.7
11S - 1W	196	96	1.5

.....5

....6

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
11S - 2W	100	72	1.0
11S - 3W	28	60	1.5
11S - 4W	32	44	1.7
11S - 5W	16	28	1.7
11S - 6W	40	52	1.7
11S - 7W	28	64	1.5
13S - 0E	36	56	1.5
13S - 1E	160	72	1.7
13S - 2E	224	72	1.5
13S - 3E	232	68	1.5
13S - 4E	292	84	1.5
13S - 5E	20	100	1.2
13S - 6E	12	32	1.5
13S - 7E	450	100	2.7
13S - 8E	12	60	1.5
13S - 9E	156	56	1.5
13S - 10E	12	60	1.0
13S - 11E	352	60	1.7
13S - 12E	24	44	1.2
13S - 1W	356	196	1.7
13S - 2W	144	56	1.0
13S - 3W	32	64	1.0
13S - 4W	28	40	1.2
13S - 5W	16	48	1.5
13S - 6W	16	36	1.5
13S - 7W	28	56	1.5
1+00N - 0+00E	100	52	2.5
1+00N - 1+00E	16	12	1.0
1+00N - 2+00E	100	92	1.7

....6

WARNOCK HERSEY INTERNATIONAL LIMITED
PROFESSIONAL SERVICES DIVISION

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TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
1+00N - 3+00E	36	52	1.5
1+00N - 4+00E	92	60	1.5
1+00N - 5+00E	60	92	1.2
1+00N - 6+00E	890	96	1.7
1+00N - 7+00E	116	112	2.0
1+00N - 8+00E	272	84	1.7
1+00N - 9+00E	112	100	1.5
1+00N - 10+00E	80	80	1.2
1+00N - 11+00E	196	100	1.5
1+00N - 12+00E	44	88	1.7
1+00N - 13+00E	172	60	1.7
1+00N - 14+00E	220	56	1.5
1+00N - 15+00E	132	72	1.7
1+00N - 1+00W	56	52	2.0
1+00N - 2+00W	144	104	1.7
1+00N - 3+00W	308	104	2.0
1+00N - 4+00W	24	40	1.7
1+00N - 5+00W	20	44	1.7
1+00N - 6+00W	56	64	2.2
1+00N - 7+00W	40	52	2.2
3+00N - 0+00E	40	88	1.5
3+00N - 1+00E	140	84	1.7
3+00N - 2+00E	96	84	1.7
3+00N - 3+00E	236	88	1.5
3+00N - 4+00E	136	80	1.5
3+00N - 5+00E	260	100	2.0
3+00N - 6+00E	284	88	2.0
3+00N - 7+00E	152	88	2.5
3+00N - 8+00E	40	92	1.2

....7

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PROFESSIONAL SERVICES DIVISION

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TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
3+00N - 9+00E	32	88	1.2
3+00N - 10+00E	64	96	1.5
3+00N - 11+00E	28	64	1.5
3+00N - 12+00E	16	104	1.2
3+00N - 13+00E	80	60	1.2
3+00N - 14+00E	100	80	1.5
3+00N - 15+00E	68	92	1.5
3+00N - 16+00E	64	96	1.5
3+00N - 17+00E	292	32	1.1
3+00N - 18+00E	132	84	1.5
3+00N - 1+00W	36	60	1.5
3+00N - 2+00W	96	100	2.0
3+00N - 3+00W	20	42	1.7
3+00N - 4+00W	88	76	1.5
3+00N - 5+00W	44	72	2.0
3+00N - 6+00W	68	52	2.5
3+00N - 7+00W	96	56	1.7
5+00N - 0+00E	720	100	2.0
5+00N - 2+00E	32	64	1.5
5+00N - 3+00E	116	56	1.7
5+00N - 4+00E	610	64	2.0
5+00N - 5+00E	32	64	1.7
5+00N - 6+00E	124	80	2.0
5+00N - 7+00E	148	68	1.5
5+00N - 8+00E	140	72	1.5
5+00N - 9+00E	92	96	1.1
5+00N - 10+00E	32	92	2.0
5+00N - 11+00E	36	112	2.0
5+00N - 12+00E	1000	116	3.0

....8

....9

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
5+00N - 13+00E	20	72	1.0
5+00N - 14+00E	132	100	1.5
5+00N - 15+00E	92	92	1.7
5+00N - 16+00E	36	96	1.5
5+00N - 17+00E	176	64	1.2
5+00N - 1+00W	88	72	1.5
5+00N - 2+00W	44	56	2.0
5+00N - 3+00W	1180	128	1.7
5+00N - 4+00W	140	72	1.7
5+00N - 5+00W	164	76	1.7
5+00N - 6+00W	68	120	1.7
5+00N - 7+00W	68	56	1.7
7+00N - 1+00W	100	68	1.0
7+00N - 2+00W	700	104	1.2
7+00N - 3+00W	304	100	2.5
7+00N - 4+00W	28	64	1.0
7+00N - 5+00W	108	56	1.5
7+00N - 6+00W	44	80	1.7
7+00N - 7+00W	108	72	1.5
9+00N - 1+00W	184	104	1.5
9+00N - 2+00W	200	76	1.5
9+00N - 3+00W	75	100	1.2
9+00N - 4+00W	16	64	0.5
9+00N - 5+00W	20	64	1.0
9+00N - 6+00W	20	68	0.7
9+00N - 7+00W	200	32	0.7
11+00N - 1+00W	376	60	1.0
11+00N - 2+00W	240	72	1.0
11+00N - 3+00W	28	64	0.7

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TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
11+00N - 4+00W	58	28	1.0
11+00N - 5+00W	56	88	1.2
11+00N - 6+00W	2.8	52	1.5
11+00N - 7+00W	40	48	1.2
13+00N - 1+00W	296	76	1.0
13+00N - 2+00W	164	64	1.0
13+00N - 3+00W	140	88	1.0
13+00N - 4+00W	24	48	1.2
13+00N - 5+00W	48	52	1.2
13+00N - 6+00W	44	56	1.2
13+00N - 7+00W	36	52	1.0
15+00N - 1+00W	48	120	1.0
15+00N - 2+00W	128	104	1.2
15+00N - 3+00W	52	96	1.0
15+00N - 4+00W	48	64	1.5
15+00N - 5+00W	76	72	1.2
15+00N - 6+00W	32	68	1.0
15+00N - 7+00W	64	56	1.2
1+00S - 0+00E	372	76	1.0
1+00S - 1+00E	204	56	1.2
1+00S - 2+00E	216	96	1.2
1+00S - 3+00E	28	56	0.7
1+00S - 4+00E	72	48	1.5
1+00S - 5+00E	60	72	1.2
1+00S - 6+00E	24	72	1.0
1+00S - 7+00E	1000	96	1.5
1+00S - 8+00E	40	64	1.2
1+00S - 9+00E	40	84	1.0
1+00S - 10+00E	28	84	0.7
1+00S - 11+00E	40	100	1.0
1+00S - 12+00E	28	72	0.7

....10

....11

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
1+00S - 13+00E	160	52	0.7
1+00S - 14+00E	124	52	0.7
1+00S - 1+00W	80	64	1.0
1+00S - 2+00W	36	72	1.0
1+00S - 3+00W	32	64	0.7
1+00S - 4+00W	44	52	1.2
1+00S - 5+00W	24	52	1.5
1+00S - 6+00W	44	52	1.5
1+00S - 7+00W	36	52	1.2
3+00S - 0+00E	68	20	0.7
3+00S - 1+00E	276	56	0.7
3+00S - 2+00E	96	80	0.7
3+00S - 3+00E	180	64	0.7
3+00S - 4+00E	248	80	0.7
3+00S - 5+00E	116	64	0.7
3+00S - 6+00E	28	72	0.5
3+00S - 7+00E	28	60	0.5
3+00S - 8+00E	212	104	1.0
3+00S - 9+00E	28	72	1.0
3+00S - 10+00E	64	72	0.7
3+00S - 11+00E	124	52	1.0
3+00S - 12+00E	875	92	1.2
3+00S - 13+00E	1450	80	1.0
3+00S - 14+00E	124	88	0.5
3+00S - 1+00W	316	72	1.0
3+00S - 2+00W	24	60	1.0
3+00S - 3+00W	40	76	1.2
3+00S - 4+00W	12	48	0.5
3+00S - 5+00W	104	64	0.7

....11

....12

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
3+00S - 6+00W	68	64	0.7
3+00S - 7+00W	36	56	1.0
5+00S - 0+00E	284	60	0.7
5+00S - 1+00E	112	52	0.7
5+00S - 2+00E	52	64	0.7
5+00S - 3+00E	36	64	0.7
5+00S - 4+00E	244	64	0.7
5+00S - 5+00E	136	72	0.5
5+00S - 6+00E	48	72	1.0
5+00S - 7+00E	108	84	1.0
5+00S - 8+00E	208	112	1.2
5+00S - 9+00E	144	88	0.7
5+00S - 10+00E	120	76	0.5
5+00S - 11+00E	336	72	0.5
5+00S - 12+00E	124	56	0.5
5+00S - 13+00E	96	56	1.5
5+00S - 14+00E	36	68	0.7
5+00S - 1+00W	204	72	1.0
5+00S - 2+00W	164	84	0.7
5+00S - 3+00W	64	80	0.7
5+00S - 4+00W	272	100	0.7
5+00S - 5+00W	72	88	0.7
5+00S - 6+00W	64	80	1.0
5+00S - 7+00W	28	56	1.2
7+00S - 0+00E	737	60	0.7
7+00S - 1+00E	380	52	0.5
7+00S - 2+00E	48	76	1.2
7+00S - 3+00E	56	32	0.5
7+00S - 4+00E	437	60	0.7

....12

WARNOCK HERSEY INTERNATIONAL LIMITED
PROFESSIONAL SERVICES DIVISION

....13

TEST RESULTS - Cont'd

Sample No.	Copper (ppm)	Zinc (ppm)	Silver (ppm)
7+00S - 5+00E	36	96	0.5
7+00S - 6+00E	252	72	1.0
7+00S - 9+00E	72	96	0.7
7+00S - 10+00E	475	64	1.0
7+00S - 11+00E	64	56	0.7
7+00S - 12+00E	212	48	0.7
7+00S - 13+00E	168	56	0.7
7+00S - 14+00E	156	72	0.7
9+00S - 13+00E	268	64	1.0

WARNOCK HERSEY

Bruce Graham

B. Graham
CHEMIST

APPENDIX B

STATEMENT OF COSTS

Form No. Z 1 - 220

WILLSON STATIONERS

Canada

Province of British Columbia

To Wit:

In the Matter of

Wages and costs incurred in a detailed Geological - Geophysical - Geochemical survey of the Kli Claims, Aiken Lake Area, Omineca M.D., B.C.

I, G. A. Noel, of Vancouver in the Province of British Columbia.

Do Solemnly Declare that the following wages and costs were directly expended on a Geological - Geophysical - Geochemical survey of the Kli Claims between July 1st, 1971 and July 17th, 1971.

WAGES:

D. Francis	17 days	July 1 - July 17, 1971	@	$	925./month
J. Franzen	17 days	July 1 - July 17, 1971	@		600./month
R. Sketchley	17 days	July 1 - July 17, 1971	@		550./month
M. Hutchinson	17 days	July 1 - July 17, 1971	@		525./month
T. Potts	17 days	July 1 - July 17, 1971	@		525./month

TOTAL WAGES------------------	$ 1,562.50
GEOCHEMICAL ANALYSIS--------	400.00
CAMP COSTS - $4.50/man/day--	382.50
TOTAL COSTS	$ 2,345.00

And I make this solemn Declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath, and by virtue of the Canada Evidence Act.

Declared before me at Vancouver in the Province of British Columbia, this 16 day of July A.D. 1971

Sub mining Recorder

A Notary Public in and for the Province of British Columbia
A Commissioner for taking affidavits for British Columbia

G. A. Noel

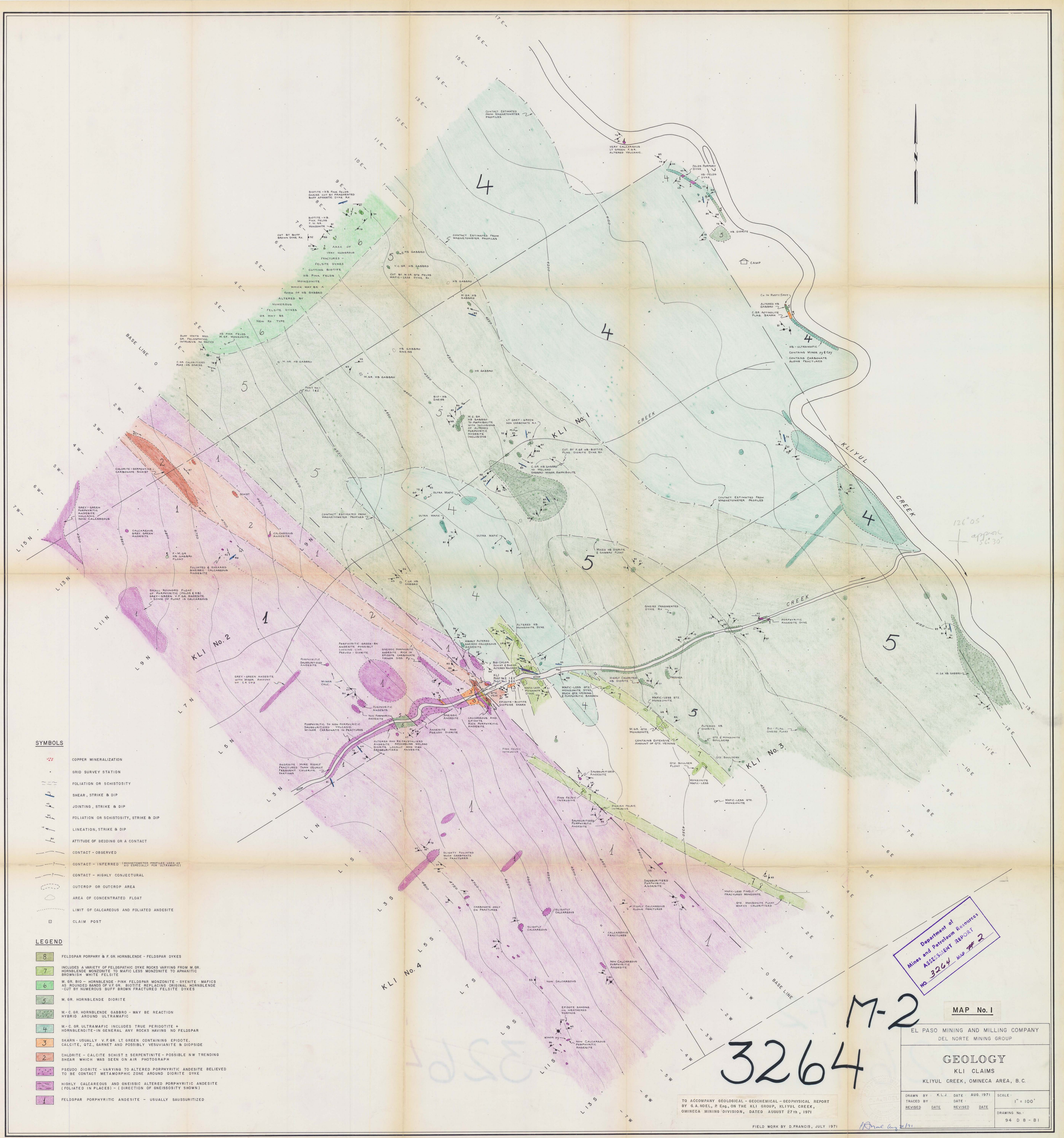
STATEMENT OF QUALIFICATIONS

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

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

Completed B.A. Sc. (Geology) at University of B. C. in 1950 and M.A.Sc. (Geology) at University of Toronto in 1951; employed by Kennco Explorations (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.

G Noel


KLI No. 1
KLI No. 2
KLI No. 3
KLI No. 4
KLIYUL CREEK
CREEK
BASE LINE 0
CAMP
SYMBOLS
COPPER MINERALIZATION
GRID SURVEY STATION
FOLIATION OR SCHISTOSITY
SHEAR, STRIKE & DIP
JOINTING, STRIKE & DIP
FOLIATION OR SCHISTOSITY, STRIKE & DIP
LINEATION, STRIKE & DIP
ATTITUDE OF BEDDING OR A CONTACT
CONTACT - OBSERVED
CONTACT - INFERRED (MAGNETOMETER PROFILES USED AS AID ESPECIALLY FOR ULTRAMAFIC)
CONTACT - HIGHLY CONJECTURAL
OUTCROP OR OUTCROP AREA
AREA OF CONCENTRATED FLOAT
LIMIT OF CALCAREOUS AND FOLIATED ANDESITE
CLAIM POST
LEGEND
8 FELDSPAR PORPHRY & F. GR. HORNBLENDE - FELDSPAR DYKES
7 INCLUDES A VARIETY OF FELDSPATHIC DYKE ROCKS VARYING FROM M. GR. HORNBLENDE MONZONITE TO MAFIC LESS MONZONITE TO APHANITIC BROWNISH WHITE FELSITE
6 M. GR. BIO - HORNBLENDE - PINK FELDSPAR MONZONITE - SYENITE - MAFICS AS ROUNDED BANDS OF V.F. GR. BIOTITE REPLACING ORIGINAL HORNBLENDE - CUT BY NUMEROUS BUFF BROWN FRACTURED FELSITE DYKES
5 M. GR. HORNBLENDE DIORITE
M.-C. GR. HORNBLENDE GABBRO - MAY BE REACTION HYBRID AROUND ULTRAMAFIC
4 M.-C. GR. ULTRAMAFIC INCLUDES TRUE PERIDOTITE + HORNBLENDITE - IN GENERAL ANY ROCKS HAVING NO FELDSPAR
3 SKARN - USUALLY V. F. GR. LT. GREEN CONTAINING EPIDOTE, CALCITE, QTZ., GARNET AND POSSIBLY VESUVIANITE & DIOPSIDE
2 CHLORITE - CALCITE SCHIST ± SERPENTINITE - POSSIBLE NW TRENDING SHEAR WHICH WAS SEEN ON AIR PHOTOGRAPH
PSEUDO DIORITE - VARYING TO ALTERED PORPHYRITIC ANDESITE BELIEVED TO BE CONTACT METAMORPHIC ZONE AROUND DIORITE DYKE
HIGHLY CALCAREOUS AND GNEISSIC ALTERED PORPHYRITIC ANDESITE (FOLIATED IN PLACES) - (DIRECTION OF GNEISSOSITY SHOWN)
1 FELDSPAR PORPHYRITIC ANDESITE - USUALLY SAUSSURITIZED
Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3264 MAP #2
M-2
3264
MAP No. I
EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP
GEOLOGY
KLI CLAIMS
KLIYUL CREEK, OMINECA AREA, B.C.
DRAWN BY: K.L.J. DATE: AUG. 1971
TRACED BY: DATE:
REVISED DATE REVISED DATE
SCALE: 1" = 100'
DRAWING No.: 94 D 8 - B1
TO ACCOMPANY GEOLOGICAL - GEOCHEMICAL - GEOPHYSICAL REPORT BY G.A. NOEL, P. Eng., ON THE KLI GROUP, KLIYUL CREEK, OMINECA MINING DIVISION, DATED AUGUST 27th, 1971
FIELD WORK BY D. FRANCIS, JULY 1971

LEGEND

• 819 SURVEY STATION WITH MAGNETOMETER VALUE IN GAMMAS

1500 CONTOUR INTERVAL 500 GAMMAS

MAGNETIC DEPRESSION

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3264 MAP #4

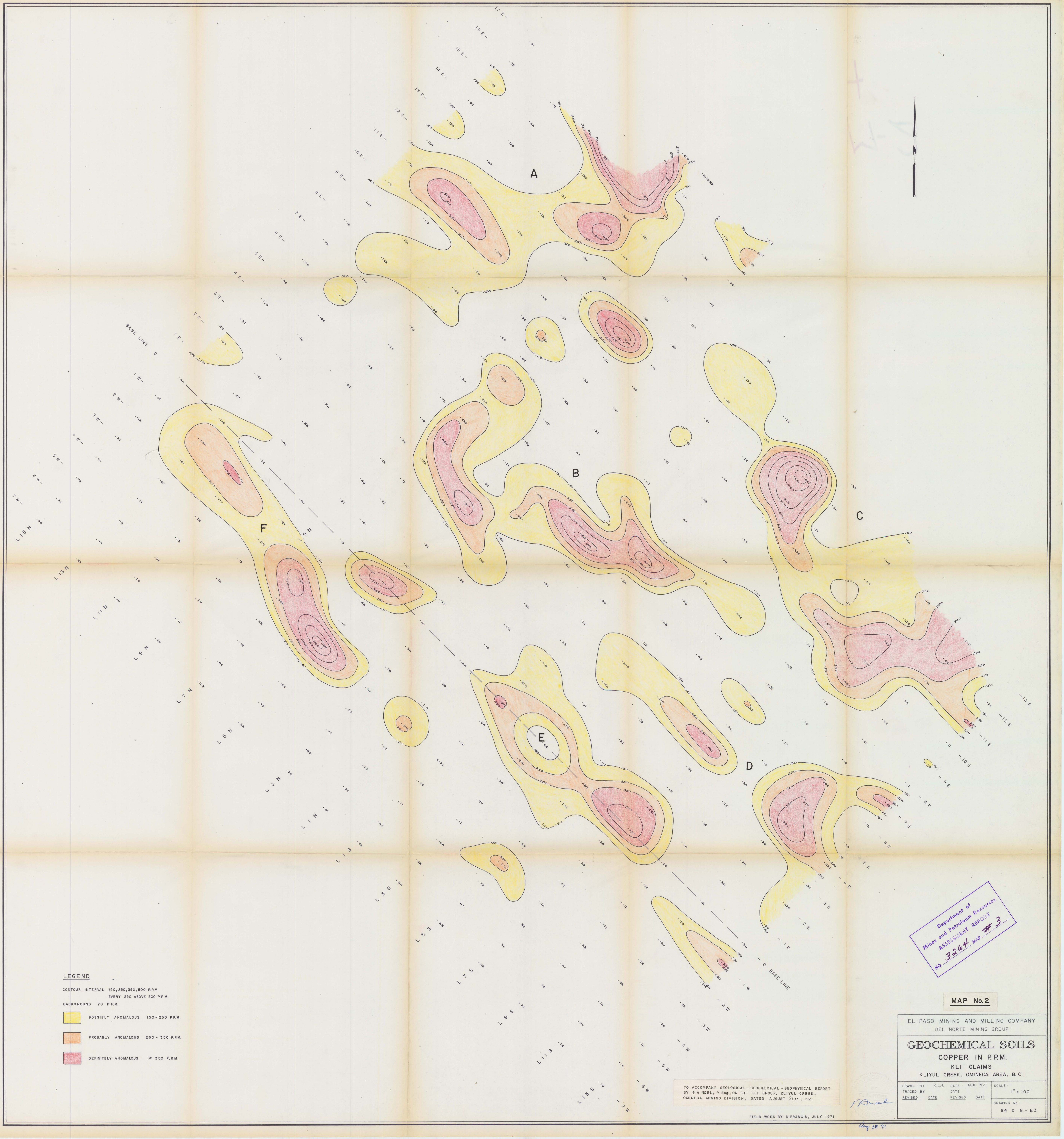
MAP No. 3

EL PASO MINING AND MILLING COMPANY DEL NORTE MINING GROUP			
MAGNETOMETER SURVEY KLI CLAIMS KLIYUL CREEK, OMINECA AREA, B.C.			
DRAWN BY K.L.J.	DATE AUG. 1971	SCALE 1" = 100'	
TRACED BY	DATE		
REVISED DATE	REVISED DATE	DRAWING No. 94 D 8 - B2	

TO ACCOMPANY GEOLOGICAL - GEOCHEMICAL - GEOPHYSICAL REPORT BY G.A. NOEL, P. Eng., ON THE KLI GROUP, KLIYUL CREEK, OMINECA MINING DIVISION, DATED AUGUST 27th, 1971

FIELD WORK BY D. FRANCIS, JULY 1971

Aug 30/71


A
B
C
D
E
F
BASE LINE 0
LEGEND
CONTOUR INTERVAL 150, 250, 350, 500 P.P.M
EVERY 250 ABOVE 500 P.P.M.
BACKGROUND 70 P.P.M.
POSSIBLY ANOMALOUS 150 - 250 P.P.M.
PROBABLY ANOMALOUS 250 - 350 P.P.M.
DEFINITELY ANOMALOUS > 350 P.P.M.
TO ACCOMPANY GEOLOGICAL - GEOCHEMICAL - GEOPHYSICAL REPORT BY G.A.NOEL, P. Eng., ON THE KLI GROUP, KLIYUL CREEK, OMINECA MINING DIVISION, DATED AUGUST 27th, 1971
FIELD WORK BY D.FRANCIS, JULY 1971
Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 3264 MAP #3
MAP No.2
EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP
GEOCHEMICAL SOILS
COPPER IN P.P.M.
KLI CLAIMS
KLIYUL CREEK, OMINECA AREA, B.C.
DRAWN BY K.L.J. DATE AUG. 1971
TRACED BY DATE
REVISED DATE REVISED DATE
SCALE 1" = 100'
DRAWING No. 94 D 8 - B3

LEGEND

CONTOUR INTERVAL 150, 250, 350, 500 P.P.M
EVERY 250 ABOVE 500 P.P.M.

BACKGROUND 70 P.P.M.

POSSIBLY ANOMALOUS 150 - 250 P.P.M.

PROBABLY ANOMALOUS 250 - 350 P.P.M.

DEFINITELY ANOMALOUS > 350 P.P.M.

CAUTION
50%
OF ORIGINAL SIZE

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3264 MAP #3

TO ACCOMPANY GEOLOGICAL GEOCHEMICAL - GEOPHYSICAL REPORT BY G. A. NOEL, P. Eng., ON THE KLI GROUP, KLIYUL CREEK, OMINECA MINING DIVISION, DATED AUGUST 27th, 1971

FIELD WORK BY D. FRANCIS, JULY 1971

MAP No. 2

EL PASO MINING AND MILLING COMPANY
DEL NORTE MINING GROUP

GEOCHEMICAL SOILS

COPPER IN P.P.M.
KLI CLAIMS
KLIYUL CREEK, OMINECA AREA, B. C.

DRAWN BY	K.L.J.	DATE	AUG. 1971	SCALE 1" = 100'
TRACED BY		DATE		
REVISED	DATE	REVISED	DATE	DRAWING No. 94 D 8 - B3

G Noel
Aug 30/71