

CRAIGMONT MINES LIMITED

Project 18-131

82M/HW

SUMMARY OF EXPLORATION ON  
HOMESTAKE PROPERTY

KAMAD SILVER CO. LTD.

29 Jan., 1971

2915

## SUMMARY OF EXPLORATION ON HOMESTAKE PROPERTY - KAMAD SILVER CO. LTD.

### INTRODUCTION

In August, 1970, Craigmont Mines Limited signed an exploration agreement with Kamad Silver Co. Ltd. (NPL). This agreement covered their one hundred and eleven claim Homestake Property situated approximately two miles west of Squaam Bay, Adams Lake in the Kamloops Mining Division. The property is a former producing barite - silver - lead - zinc prospect.

### CONCLUSIONS

- (1) All barite mineralization seen occurs in a crumpled and sheared fissile schist zone.
- (2) Geological mapping suggests that the mineralized zones are lenticular and cut by numerous faults.
- (3) Ground conditions will be poor in underground development immediately adjacent to barite mineralization.
- (4) It is completely impractical to quote probable mining reserves based on the information available at present. Ignoring the obvious geological (structural) complications, any ore reserve calculations based on the present information can at best be classified as possible "geological" reserves.
- (5) It is impractical using surface diamond drilling to further explore along strike the known mineralized zones beyond the 4000 North Co-ordinate.
- (6) Several short surface diamond drill holes in the vicinity of "Barite Bluff" and similar testing from accessible underground workings would greatly enhance any meaningful interpretation of the existing geological information.

### RECOMMENDATIONS

- (1) Drill a limited number of short diamond drill holes from the accessible underground workings and from surface immediately north of the Barite Bluff.
- (2) On completion of the drilling program, reinterpret all available geological information with the object of calculating a possible geological ore reserve.

### DISCUSSION

#### General

The prominent rock types occurring on the property are chlorite and quartz - talc - sericite schists of the Adams Lake Series. The existing mine workings are contained in a quartz - talc - sericite schist zone at least 700 feet thick. This zone has a general azimuth of 295° and dips -20° to the north (295°/-20°N) and contains all of the barite mineralization seen by the writer. Within the Homestake Creek (Falls Creek) gully, this schist zone is shown to be cut by numerous low angle, easterly dipping thrust faults which have caused considerable crushing and crumpling of the entire zone.

The mineralization in the quartz - talc - sericite schist zone consists of tabular veins and lenticular "ore shoots" of massive barite and sulfides. The sulfides, in approximate order of importance are tetrahedrite, galena, sphalerite, pyrite and chalcopyrite. Grab samples taken from surface and underground vein material suggest that gold is generally present but in quantities less than 0.03 oz./ton.

On completion of a two day general property reconnaissance, detailed work was conducted in two areas, (GE-A-50) namely,

- (a) In the immediate vicinity of the old workings. (Stadia survey and 1" = 40' scale geological mapping program.)
- (b) Between the west access road and No.2 showing. (Establishment of a grid and approximately five line miles of composite soil samples.)

#### Survey Control

Using the survey of McWilliams - Whyte - Goble and Associates, British Columbia Land Surveyors of Kamloops, B.C. as a check, a stadia survey was conducted on the area west of Homestake Creek. All known mineralized outcrops adjacent to the old workings were covered by this survey. A 1" = 40' scale contour map (GE-E-42) and a geological overlay plan (GE-D-32) were drawn showing the spacial relationships between old workings, surface diamond drill holes and mineralized outcrops. The contour map and accompanying sections (GE-A-44, GE-A-45, GE-A-46) emphasize the ruggedness of the local terrain.

#### Geological Mapping

Within the mine area an attempt was made to distinguish between the various facies present in the quartz - talc - sericite schist zone. Unfortunately there is little marked megascopic variation within this zone. However, at least three vague gradational facies appear to be associated with the mineralization, namely:

- (a) Sericite schist (brown) - finely fissile to platy - partly chloritic.
- (b) Talc - Sericite schist - fine grained fissile - very talcose - yellow weathering.
- (c) Talc - Sericite schist (quartzose) - contains nodules of siliceous material, possibly squeezed pebbles - broken surface has grey mottled appearance.

Surface mapping suggests that talc - sericite schist (c) is the rock type most frequently found immediately adjacent to barite mineralization. However, in the underground workings, massive barite was seen bounded by sericite schist (a).

The Barite Bluff is the largest surface exposure of mineralization known to exist on the property. It is a north striking lens of massive barite grading 85% barite, 0.25% copper, 0.65% lead, and 3.20% zinc. Its surface cross-sectional area is approximately 2400 sq. feet (GE-A-45). Surface diamond drill hole Kamad No.1, collared 70 feet north of the bluff, intersected little mineralization (GE-A-44).

Attitudes of drag folds in the vicinity of the Barite Bluff and of a number of small quartz lenses seen throughout the schist zone average 15° in azimuth and - 20° North in plunge.

Numerous faults occur within the schist zone making any current attempt to correlate mineralization in existing surface diamond drill holes unrealistic.

In the accessible underground workings three definite barite - fault contacts having an apparent displacement in excess of six feet were noted. The 1936 B.C. Minister of Mines Annual Report mentions that fault blocks with horizontal movements of up to 40 feet had been encountered in the mine workings.

The best mineralization seen underground occurs 170 feet from the portal. However, the bulk of this ore appears to have been mined out above the level and the western edge of the stope terminates along a fault. Detailed mapping in this area is impossible because of poor ground conditions.

The results of underground chip sampling have been tabulated on plan GE-A-48.

Three grab samples, two from surface and one from underground were selected for Semiquantitative Spectrographic analysis (Table I). No unforeseen mineralogical complications were noted.

Diamond Drilling

To date, no diamond drilling has been conducted by Craigmont Mines Limited. The 9,828 feet of surface drill core stored at the property represents 21 holes previously drilled by Kamad Silver Co. Ltd. This core was relogged to become familiar with rock types, check widths of mineralization and to record apparent banding (schistosity). As in the case of surface mapping, little obvious megascopic variations were noted in rock type.

No record could be found of the co-ordinates for drill holes Kamad Nos. 7, 8 & 9. Their approximate locations were described by Mr. Fred Shukin as follows:

- (a) Kamad No.7 - on west road between survey stations 3714 & 3715.
- (b) Kamad No.8 - below Kamad No.2 and south of survey station 3719.
- (c) Kamad No.9 - on switchback above old millsite near survey station 3746.

Minor packrat rearrangement of stored drill core has taken place, however sufficient footage blocks remained in most boxes to adequately locate areas of interest.

The sample interval used by Kamad's core splitter appears to have been consistantly two feet. Unfortunately this interval does not always agree with the widths of mineralization recorded by Mr. F.P. Hodgson. To date we have been unable to reconcile this apparent discrepancy.

Geochemistry: Soil Sampling (GE-C-33-1 to GE-C-33-6)

A 3,800 foot by 800 foot grid was established over the schist zone to the west of the west access road. (GE-A-50) The sample interval was fifty feet along lines 200 feet apart. Each sample analyzed was a composite of several samples taken over the sample interval and the results were plotted at the center of the interval. If soil conditions permitted, each composite represented at least four separate samples taken within the 50 foot interval.

The samples were assayed for copper, zinc, cadmium, lead, silver, molybdenum and barium. Histograms for each metal were drawn and arithmetic mean calculated. (GE-A-51A to 51F, GE-B-19)

Barium was the only metal that did not exhibit well developed anomalous patterns. Without exception the other metals displayed a number of small yet clearly defined anomalous zones, usually coincident. However, after an examination of the fieldnotes, it was concluded that most of the anomalies resulted from highly variable soil conditions. Only two zones warrant further work, namely 4450N - 7400E and 4450N - 9400E.

REFERENCES

- (1) G.S.C. Map 48 1963 Geology Adams Lake.
- (2) B.C. Air Photograph: B.C. 1520:88.
- (3) Annual Report B.C. Minister of Mines 1936 pp D 32.
- (4) Inter-Office Memorandum - Homestake Mines - Kamad Silver Co. Ltd. (NPL) J.F. Bristow and R.J. Young, 29 July, 1970.
- (5) Report on Homestake Silver - Barite Property, Squaam Bay, Adams Lake, British Columbia. Prepared by Angus G. Mackenzie, February, 1969.
- (6) Progress Report on Operations Performed on Homestake Silver Barite Property, Squaam Bay, Adams Lake, B.C. Angus G. Mackenzie, October, 1969.
- (7) Final Progress Report on Operations Performed on Homestake Silver Barite Property, Squaam Bay, Adams Lake, B.C. by Angus G. Mackenzie, March, 1970.
- (8) Report on the Economic Feasibility of the Homestake Property held by Kamad Silver Co. Ltd. (NPL) by F.P. Hodgson, March, 1970.

CRAIGMONT MINES LIMITED,

*James F. Bristow*

J.F. Bristow,  
Chief Geologist.

JFB/dlh

Submitted: 29 January, 1971

2915

CRAIGMONT MINES LIMITED  
Project 18-131

*82M/40*

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HOMESTAKE PROPERTY

KAMAD SILVER CO. LTD.

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d1 Surface Geology GE-D-32

d2 Surface Geology GE-E-42

d3 Geochemical Grid Loc.

4	Geochemistry Contours (Copper)	GE-C-33-1	11	Histogram for Copper
5	"	(Zinc) GE-C-33-2	12	" " Zinc
6	"	(Cadmium) GE-C-33-3	13	" " Cadmium
7	"	(Lead) GE-C-33-4	14	" " Lead
8	"	(Silver) GE-C-33-5	15	" " Silver
9	"	(Molybdenum) GE-C-33-6	16	" " Molybdenum
10	"	(Barium) GE-C-33-7	17	" " Barium

18 Section A-A

19 Section B-B

20 Section C-C

21 Underground Sample Location

22	Geochemistry Contours (Copper)	GE-C-33-1
23	"	(Zinc) GE-C-33-2
24	"	(Cadmium) GE-C-33-3
25	"	(Lead) GE-C-33-4
26	"	(Silver) GE-C-33-5
27	"	(Molybdenum) GE-C-33-6
28	"	(Barium) GE-C-33-7

CERTIFICATE OF QUALIFICATIONS to accompany report entitled, "Craigmont Mines Limited, Project 18-131 Summary of Exploration on Homestake Property - Kamad Silver Co. Ltd. - 29 January, 1971".

I, James F. Bristow, residing at 2125 Parker Drive in Merritt, B.C., certify that:-

I graduated from the University of British Columbia in 1957, receiving the degree B.A. in Geology and Physics.

I have worked continuously in the Mining Industry since graduation.

I have been employed as Chief Geologist at Craigmont Mines Limited, Merritt, B.C. since 2 June, 1965.

Respectfully submitted,

CRAIGMONT MINES LIMITED,

*James F. Bristow*

J.F. Bristow,  
Chief Geologist.

cc: file



GEOCHEMICAL  
SOIL SAMPLES

	<u>SILVER</u> <u>OZ</u>	<u>MOLY.</u>	<u>LEAD</u>	<u>ZINC</u>	<u>COPPER</u>	<u>CADMIUM</u>	<u>BARIUM</u>
Line 3900 -							
4000N							
8600E	.28	3	74	161	52	2.0	712
8800E	.27	3	95	360	37	1.8	560
9000E	.61	3	68	260	30	1.6	536
9200E	.44	3	42	107	38	1.3	440
Line 4000 -							
4100N							
8600E	.41	3	78	180	65	2.4	800
8800E	.27	3	113	310	36	1.8	568
9000E	.17	1	22	215	15	1.2	206
9200E	.26	2	33	102	36	1.4	352
9400E	.33	3	33	109	34	1.6	372
9600E	.28	3	52	190	29	2.8	428
9800E	.34	2	46	128	--	2.3	540
Line 4100 -							
4200N							
6800E	.57	3	163	130	31	1.6	860
7000E	.77	3	157	440	35	2.2	660
8200E	.12	2	40	126	40	1.8	980
8400E	.18	2	44	109	60	1.9	500
8600E	.41	3	74	180	59	2.2	708
8800E	.39	3	108	270	37	1.8	560
9000E	.24	2	42	730	27	2.7	312
9200E	.32	4	75	154	53	1.3	412
9400E	.25	2	31	149	25	1.2	420
9600E	.38	2	43	125	48	2.2	578
9800E	.28	2	36	180	43	1.9	500
10000E	.09	2	39	117	39	1.3	520
10200E	.35	3	130	80	17	1.2	1420
10400E	.47	2	138	410	50	1.8	1350
10600E	.70	3	74	178	56	2.4	672

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GEOCHEMICAL

SOIL SAMPLES

	<u>SILVER</u> <u>OZ</u>	<u>MOLY.</u>	<u>LEAD</u>	<u>ZINC</u>	<u>COPPER</u>	<u>CADMIUM</u>	<u>BARIUM</u>
Line 4200 -							
4300N							
6800E	.48	4	115	71	8	1.7	1020
7000E	.54	8	190	85	16	1.5	950
7200E	.12	3	41	209	60	2.0	564
7400E	.15	2	30	300	38	2.2	480
7600E	.18	1	32	107	77	2.0	532
7800E	.16	2	37	101	49	1.7	432
8000E	.12	2	28	96	42	1.7	460
8200E	.10	2	24	99	34	1.7	376
8400E	.16	2	27	142	28	1.6	628
8600E	.40	3	77	194	55	2.3	800
8800E	.18	2	63	194	33	1.7	484
9000E	.38	2	107	570	40	2.2	436
9200E	.35	4	95	570	43	1.4	480
9400E	.52	2	53	340	49	1.7	420
9600E	.24	1	39	174	42	1.8	440
9800E	.18	3	43	300	33	1.9	560
10000E	.10	2	37	102	56	1.3	526
10200E	.02	2	23	116	28	1.4	492
10400E	.34	3	44	160	68	1.6	812
10600E	.61	5	330	455	34	1.7	800

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Line 4300 -							
4400N							
6800E	.33	2	101	144	31	1.6	716
7000E	.37	3	202	190	59	1.7	694
7200E	.12	2	55	146	67	2.0	564
7400E	.28	3	72	590	93	3.2	812
7600E	.30	2	36	107	76	2.2	540
7800E	.29	3	41	116	61	1.9	428
8000E	.13	2	29	98	65	1.8	452
8200E	.15	2	34	103	68	1.9	500
8400E	.22	3	52	170	31	1.6	500
8600E	.15	1	40	380	20	1.6	436
8800E	.35	2	71	370	40	2.0	644
9000E	.20	2	47	180	43	1.8	300
9200E	.30	3	28	860	23	1.4	484
9400E	.69	3	75	3700	33	1.6	512
9600E	.18	2	28	410	34	1.8	448
9800E	.18	1	58	690	29	2.2	440
10000E	.10	2	36	143	30	1.3	512
10200E	.08	3	28	131	25	1.0	460
10400E	.21	3	48	153	80	1.6	628
10600E	.21	3	56	156	29	1.7	1500

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GEOCHEMICAL

SOIL SAMPLES

	<u>SILVER</u> <u>OZ</u>	<u>MOLY.</u>	<u>LEAD</u>	<u>ZINC</u>	<u>COPPER</u>	<u>CADMIUM</u>	<u>BARIUM</u>
Line 4400 -							
4500N							
6800E	.30	2	103	320	255	1.8	584
7000E	.32	3	154	66	32	1.4	960
7200E	.14	4	51	110	34	1.7	984
7400E	.61	4	85	350	605	2.4	600
7600E	.20	4	161	510	270	2.4	728
7800E	.39	3	32	83	55	2.2	400
8000E	.19	2	33	101	70	2.0	436
8200E	.10	2	28	106	43	1.8	460
8400E	.24	5	83	170	23	1.6	880
8600E	.16	2	48	490	19	2.0	852
8800E	.67	3	93	196	58	1.8	500
9000E	.40	3	52	205	60	2.1	824
9200E	1.83	4	35	480	38	1.8	376
9400E	---	5	121	4900	67	4.0	640
9600E	.29	3	42	141	49	2.4	430
9800E	.22	2	56	585	28	1.8	520
10000E	.13	3	28	143	19	1.2	340
10200E	.07	2	39	192	22	1.3	512
10400E	.76	4	167	325	38	---	660
10600E	.14	3	38	133	34	1.5	680
Line 4500 -							
4600N							
6800E	.39	2	163	370	35	2.1	758
7000E	.12	2	35	181	37	0.9	503
7200E	.39	3	39	153	70	1.8	744
7400E	.36	3	112	410	420	2.6	584
7600E	.29	3	88	620	270	3.2	696
7800E	.48	2	28	200	25	1.6	376
8000E	.10	1	33	87	59	2.0	560
8200E	.15	3	30	106	68	2.0	496
8400E	.45	4	123	60	17	1.4	852
8600E	.79	3	350	940	36	3.2	816
8800E	.25	2	39	113	68	1.9	452
9000E	.56	3	42	350	76	2.6	663
9200E	.56	3	30	179	17	0.9	316
9400E	1.02	3	87	520	49	2.2	680
9600E	.59	2	44	113	51	2.4	420
9800E	.20	1	86	320	34	1.6	632
10000E	.13	3	27	137	22	1.2	416
10200E	.15	2	88	690	26	2.0	456
10400E	1.02	---	185	610	46	2.4	696
10600E	.08	4	24	103	23	1.6	684

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GEOCHEMICAL

SOIL SAMPLES

	<u>SILVER</u> <u>OZ</u>	<u>MOLY.</u>	<u>LEAD</u>	<u>ZINC</u>	<u>COPPER</u>	<u>CADMIUM</u>	<u>BARIUM</u>
Line 4600 -							
4700N							
6800E	.26	1	48	240	47	2.0	288
7000E	.24	1	34	88	51	2.3	204
7200E	.21	2	41	160	60	1.8	256
7400E	.28	1	40	174	145	0.7	228
7600E	.37	1	49	250	95	1.6	236
7800E	.15	1	28	85	74	1.5	230
8000E	.06	1	28	95	49	1.5	268
8200E	.49	3	35	101	54	2.1	256
8400E	.69	1	210	470	23	1.8	440
8600E	.24	2	38	117	71	1.8	244
8800E	.64	1	111	300	56	1.6	440
9000E	.75	2	34	160	57	1.4	272
9200E	.20	1	33	149	33	1.5	364
9400E	.78	1	55	590	38	2.2	760
9600E	.16	1	36	560	23	1.2	1000
9800E	.22	1	60	163	36	0.8	356
10000E	.45	2	41	141	48	1.2	220
10200E	.27	2	33	198	100	1.1	480
10400E	.02	2	19	91	16	1.4	704
Line 4700 -							
4800N							
6800E	.23	2	171	130	19	3.8	780
7000E	.12	2	48	133	70	1.8	556
7200E	.23	2	37	150	72	1.8	572
7600E	.26	2	27	155	128	1.6	540
7800E	.48	2	36	111	62	2.6	496
8000E	.11	2	37	107	48	1.7	500
8200E	.35	3	32	108	54	1.8	460
8600E	1.89	4	350	290	45	1.8	1336
8800E	.36	3	83	199	68	2.0	552
9000E	.41	2	36	146	65	1.8	360
9200E	3.80	1	300	657	68	2.2	684
9400E	10.50	1	490	510	98	2.7	1200
9600E	.37	1	53	162	28	1.6	648
9800E	.62	1	535	600	48	1.6	628
10000E	.17	3	41	174	44	1.5	520
10200E	1.29	17	1300	200	43	1.4	652
10400E	.35	4	59	148	68	1.2	800
10600E	.21	4	35	115	56	1.8	1200

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**GEOCHEMICAL**  
**SOIL SAMPLES**

	<u>SILVER</u> <u>OZ.</u>	<u>MOLY.</u>	<u>LEAD</u>	<u>ZINC</u>	<u>COPPER</u>	<u>CADMIUM</u>	<u>BARIUM</u>
Line 4800 -							
4900N							
6800E	.74	3	235	360	22	2.2	862
7000E	.09	1	32	155	21	1.3	526
7200E	.11	3	36	117	59	1.6	600
8000E	.11	2	42	96	51	1.6	556
8200E	.26	2	38	116	65	1.9	570
10000E	.41	2	53	930	108	2.4	492
10200E	.39	1	46	240	22	1.2	660
10400E	.16	2	29	132	29	1.2	484
10600E	.31	4	37	126	64	2.0	1200
Line 4900 -							
5000N.							
10200E	.16	2	47	119		1.3	640
10400E	.21	2	20	104		0.8	276

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CRAIGMONT MINES LIMITED

DATE: 23/11/70

SCALE:

PROJECT 18-131  
(Komad Silver Co. Ltd.)

DRAWN BY:

S. MALANYCH

DRAFTED BY:

A. MOSLEY

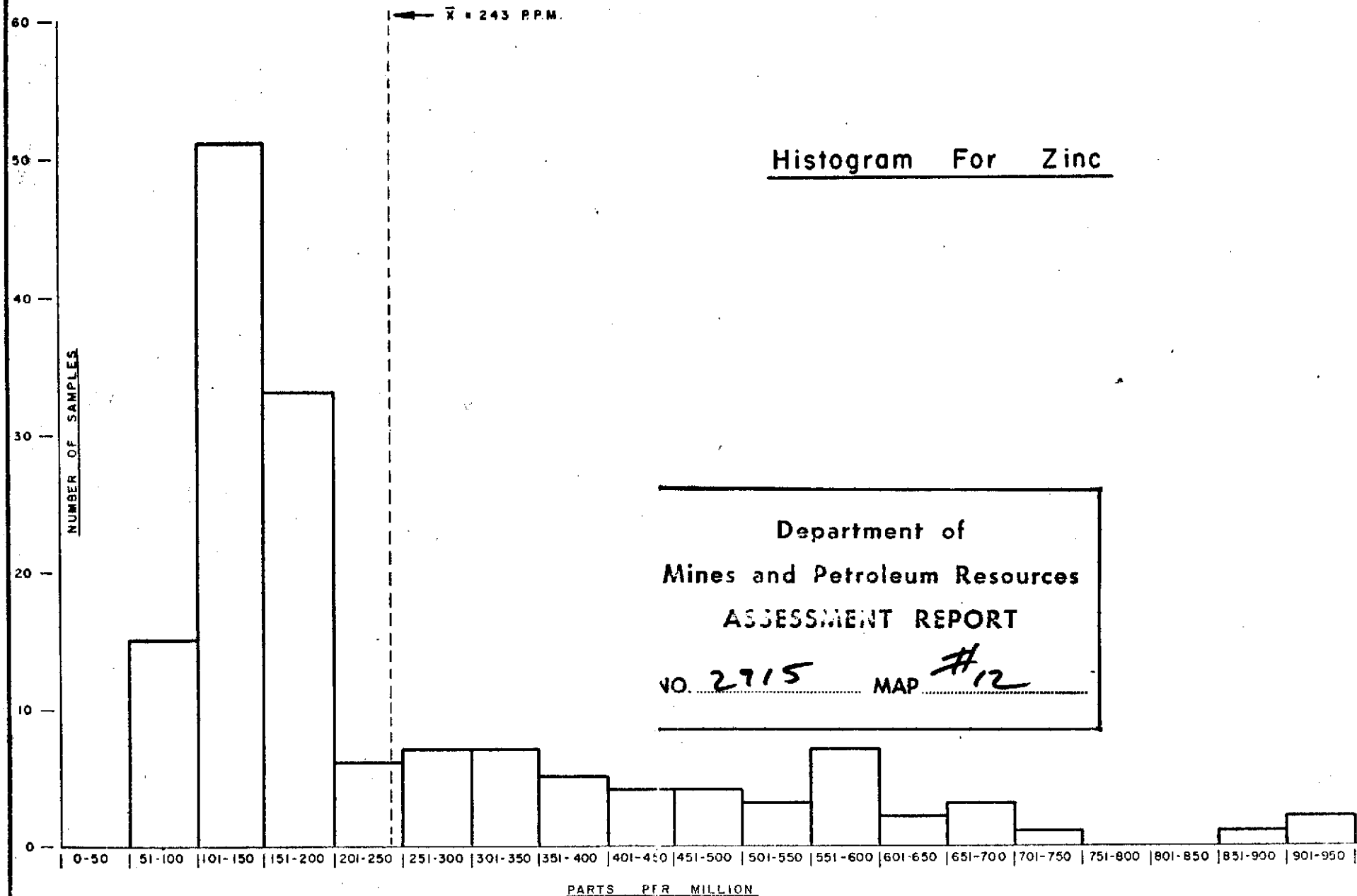
CHECKED BY:

G. SANFORD

FILE NO.

G.E.-A-51A

Histogram For Zinc



CRAIGMONT MINES LIMITED

DATE : 23/11/70

SCALE :

PROJECT 18-131  
(Kamad Silver Co. Ltd.)

DRAWN BY :

S. MALANYCH

DRAFTED BY :

A. MOSLEY

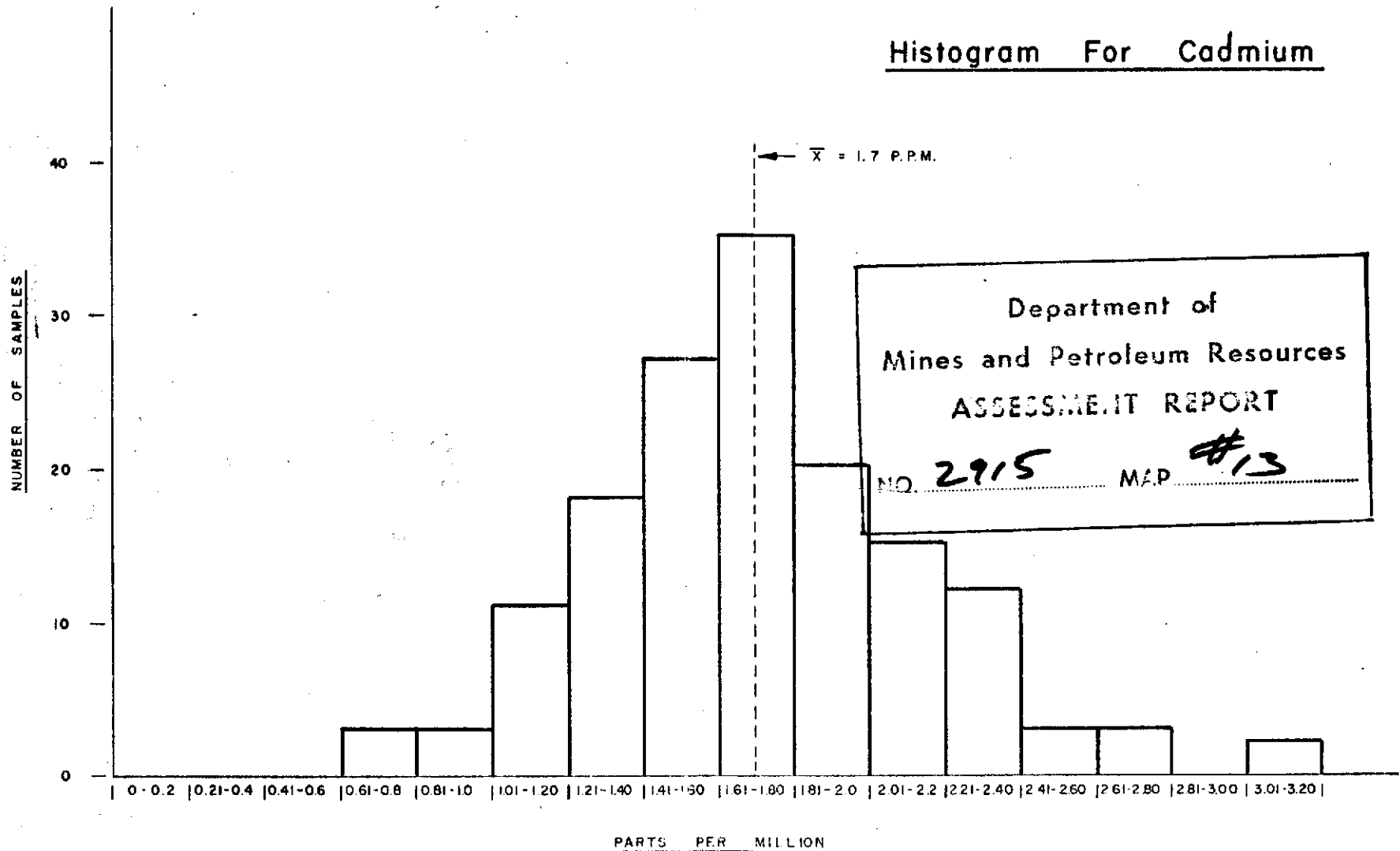
CHECKED BY :

G. SANFORD

FILE NO.

G.E. - A-51C

### Histogram For Cadmium



CRAIGMONT MINES LIMITED

DATE: 23/11/70

SCALE:

PROJECT 18-131  
(Kamad Silver Co. Ltd.)

DRAWN BY:

S. MALANYCH

DRAFTED BY:

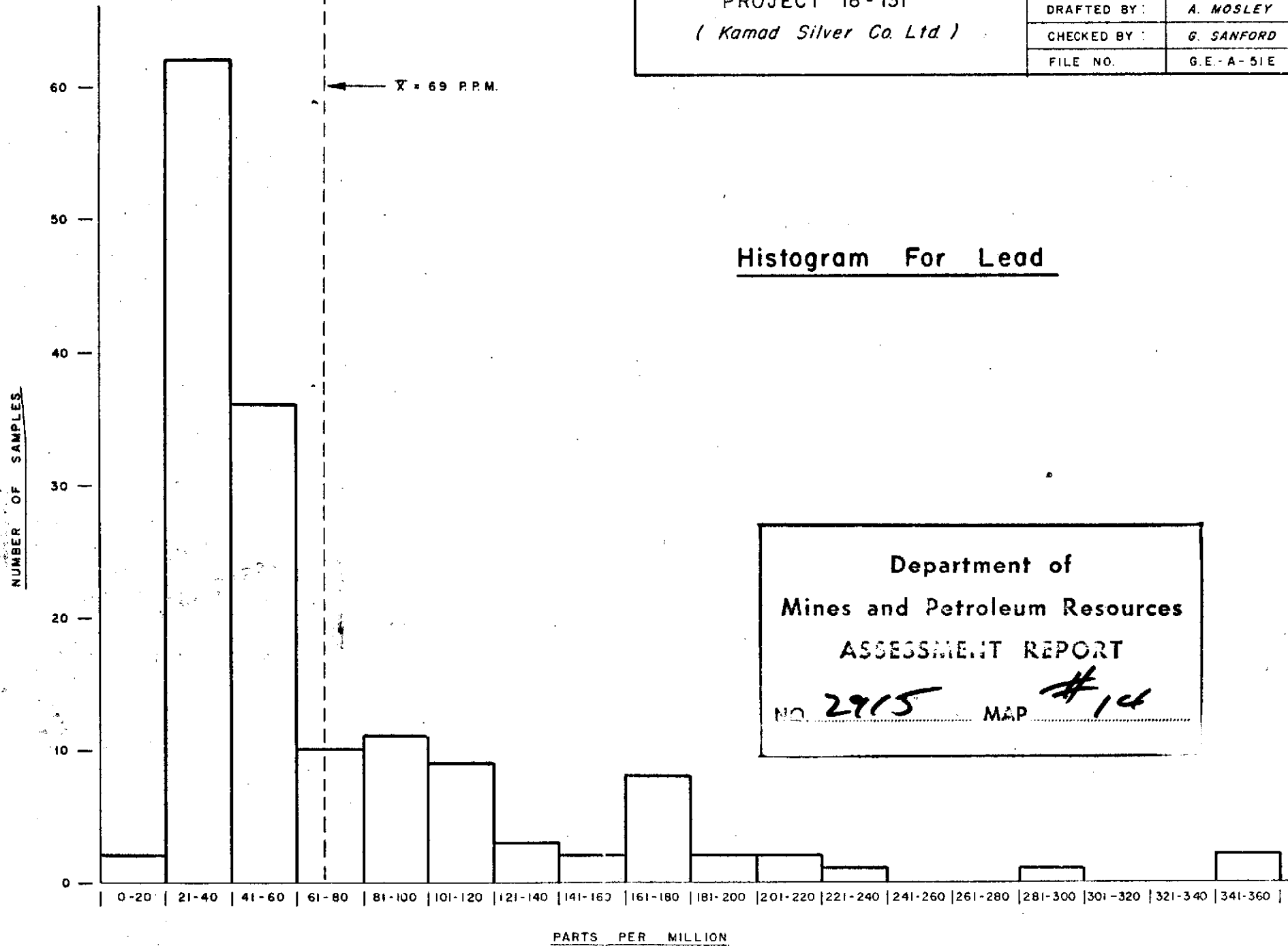
A. MOSLEY

CHECKED BY:

G. SANFORD

FILE NO.

G.E.-A-51E



$\bar{X} = 69$  P.P.M.

PARTS PER MILLION



CRAIGMONT MINES LIMITED

DATE: 23/11/70

SCALE:

PROJECT 18-131  
(Kamad Silver Co. Ltd.)

DRAWN BY:

S. MALANYCH

DRAFTED BY:

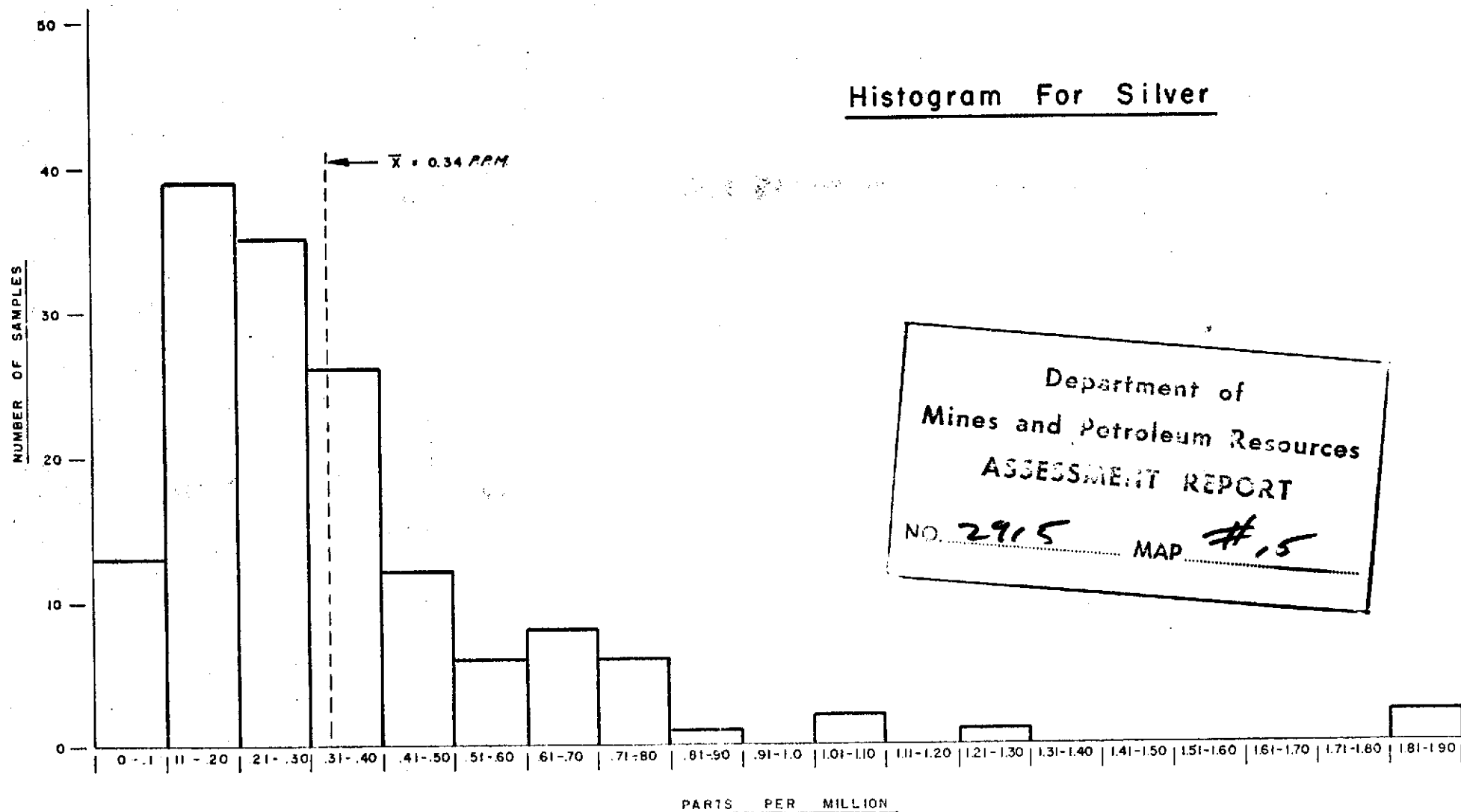
A. MOSLEY

CHECKED BY:

G. SANFORD

FILE NO.

G.E.-A-51F

Histogram For Silver

CRAIGMONT MINES LIMITED

DATE: 23/11/70

SCALE:

PROJECT 18-131

(Kamad Silver Co. Ltd.)

DRAWN BY:

S. MALANYCH

DRAFTED BY:

A. MOSLEY

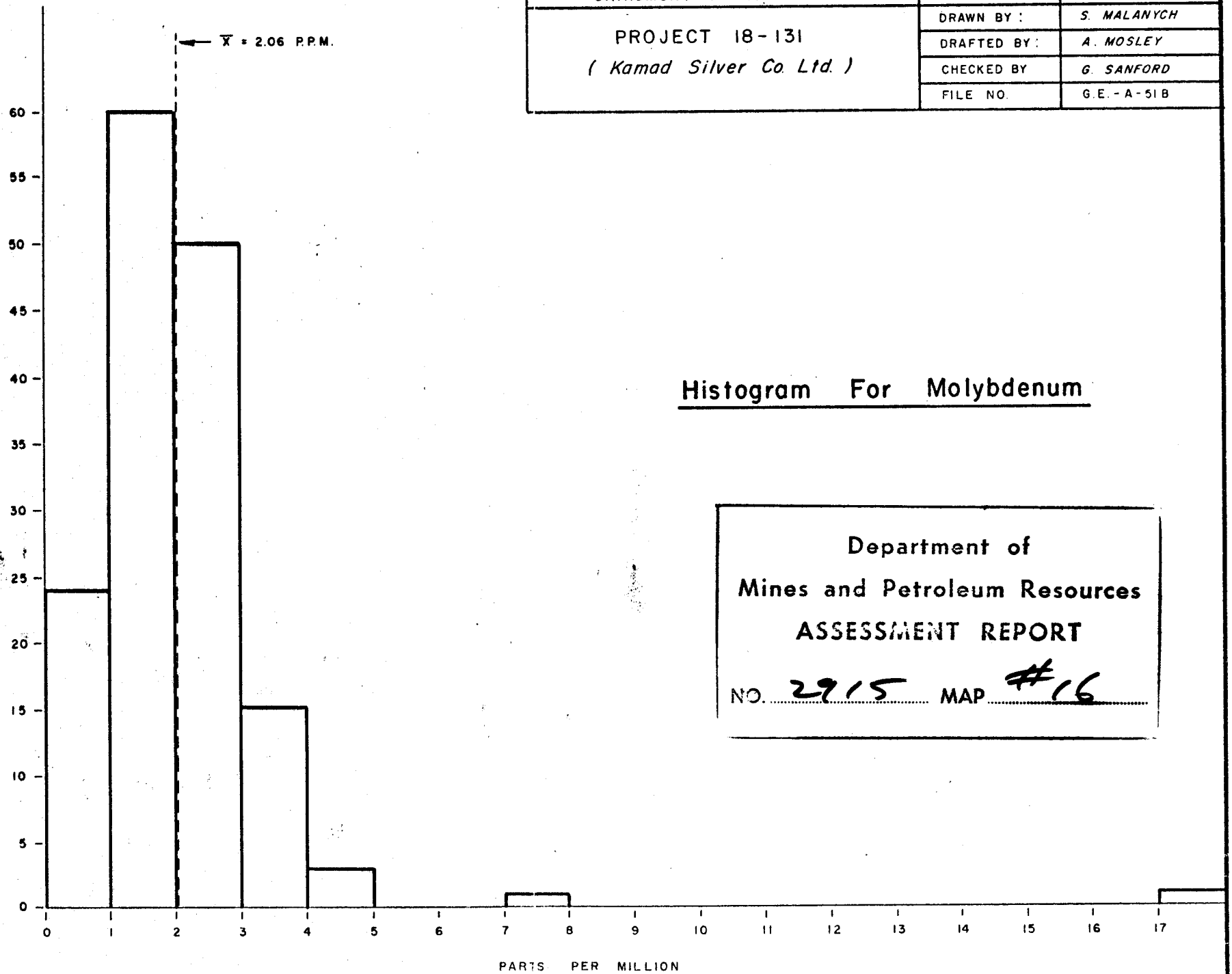
CHECKED BY:

G. SANFORD

FILE NO.

G.E. - A-51B

NUMBER OF SAMPLES

Histogram For Molybdenum

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 2915 MAP #16

PARTS PER MILLION

CRAIGMONT MINES LIMITED

DATE: 23/11/70

SCALE:

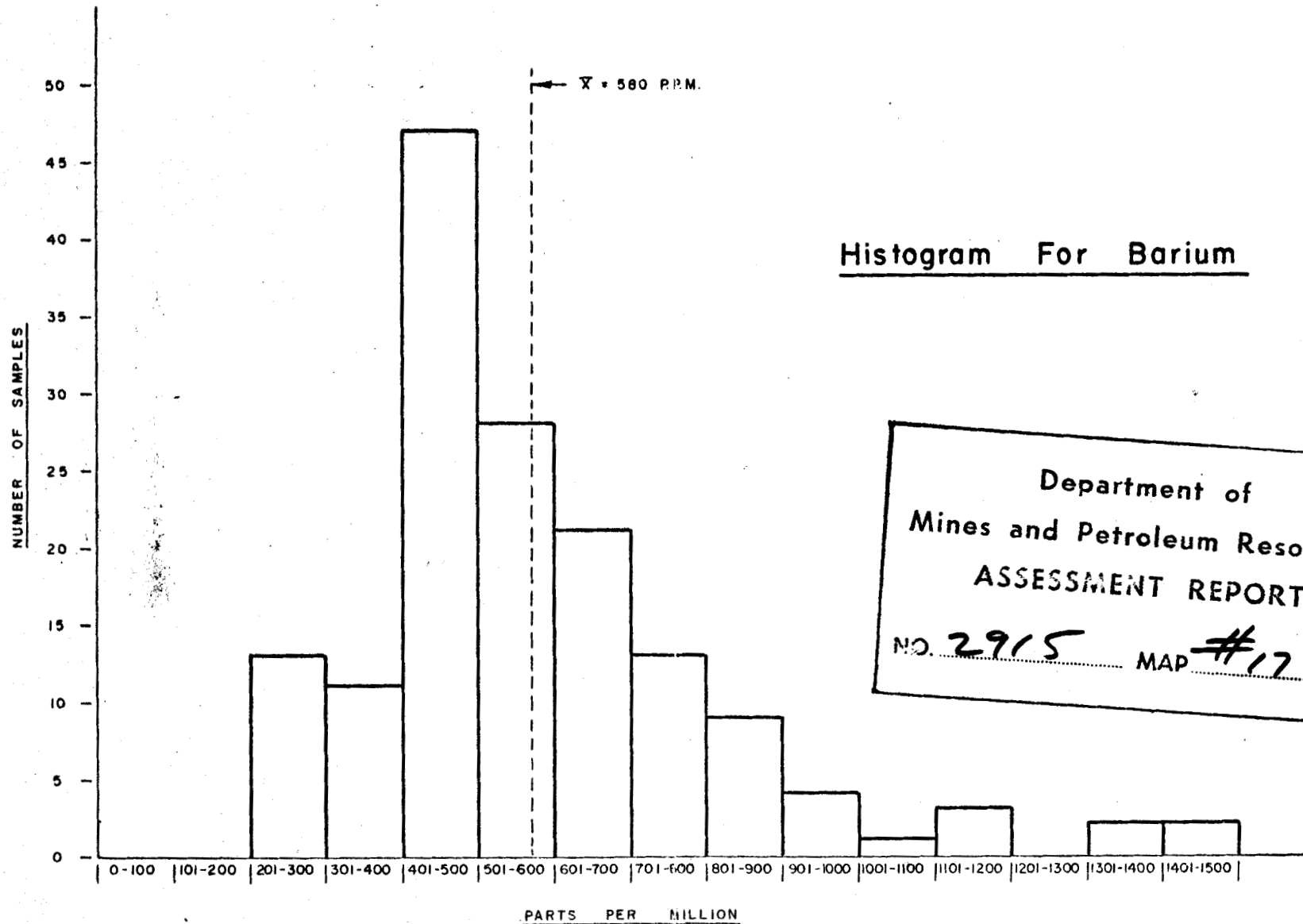
PROJECT 18-131  
(Kamad Silver Co Ltd.)

DRAWN BY: S. MALANYCH

DRAFTED BY: A. MOSLEY

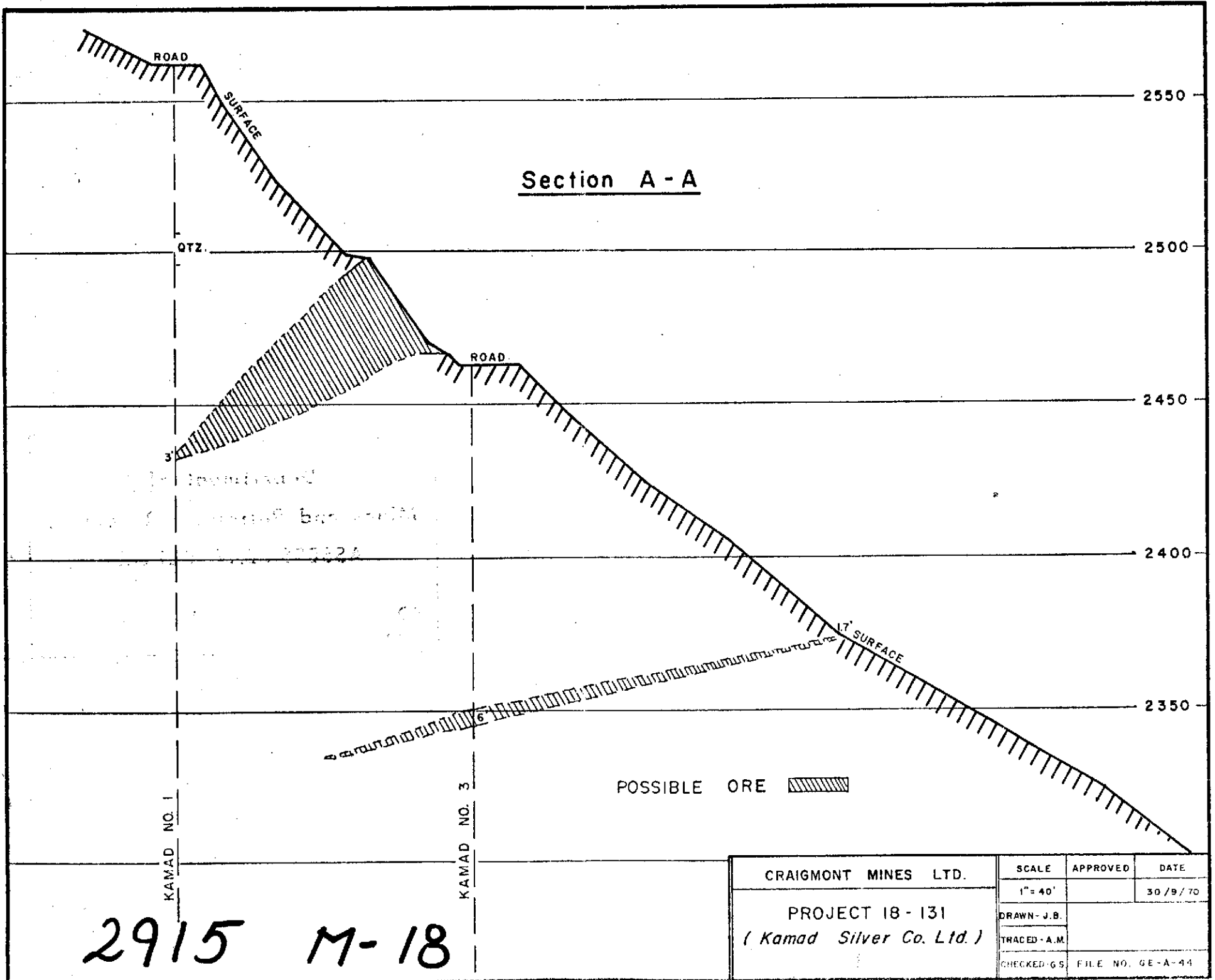
CHECKED BY: G. SANFORD

FILE NO. G.E. - A - 510



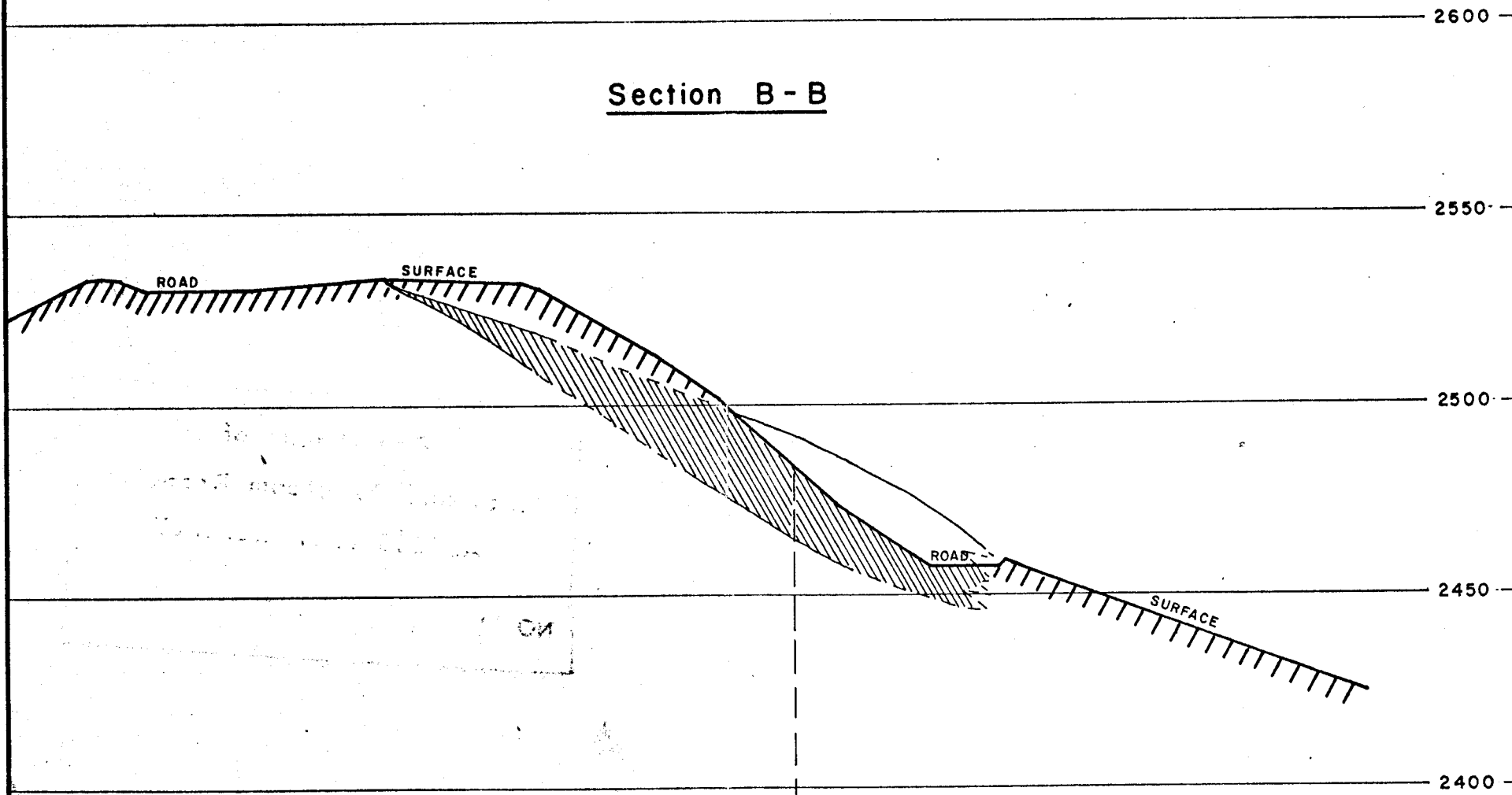
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 2915 MAP #17



2915 M-18

Section B - B



POSSIBLE ORE 

2915 M-19

D. D. H. NO. 3

CRAIGMONT MINES LTD.	SCALE	APPROVED	DATE
PROJECT 18-131 (Kamad Silver Co. Ltd.)	1" = 40'		30/9/70
	DRAWN - J.B.		
	TRACED - A.M.		
	CHECKED - G.S.	FILE NO. GE-A-45	

R.L. STATION  
70-13



Section C-C

2400

2350

2300

2250

2200

SURFACE

ROAD

ROAD

ROAD

STOPE

MAIN 300 LEVEL

CREEK

2915

M-20

R.L.

CRAIGMONT MINES LTD.

SCALE

APPROVED

DATE

1" = 40'

30/9/70

PROJECT 18-131

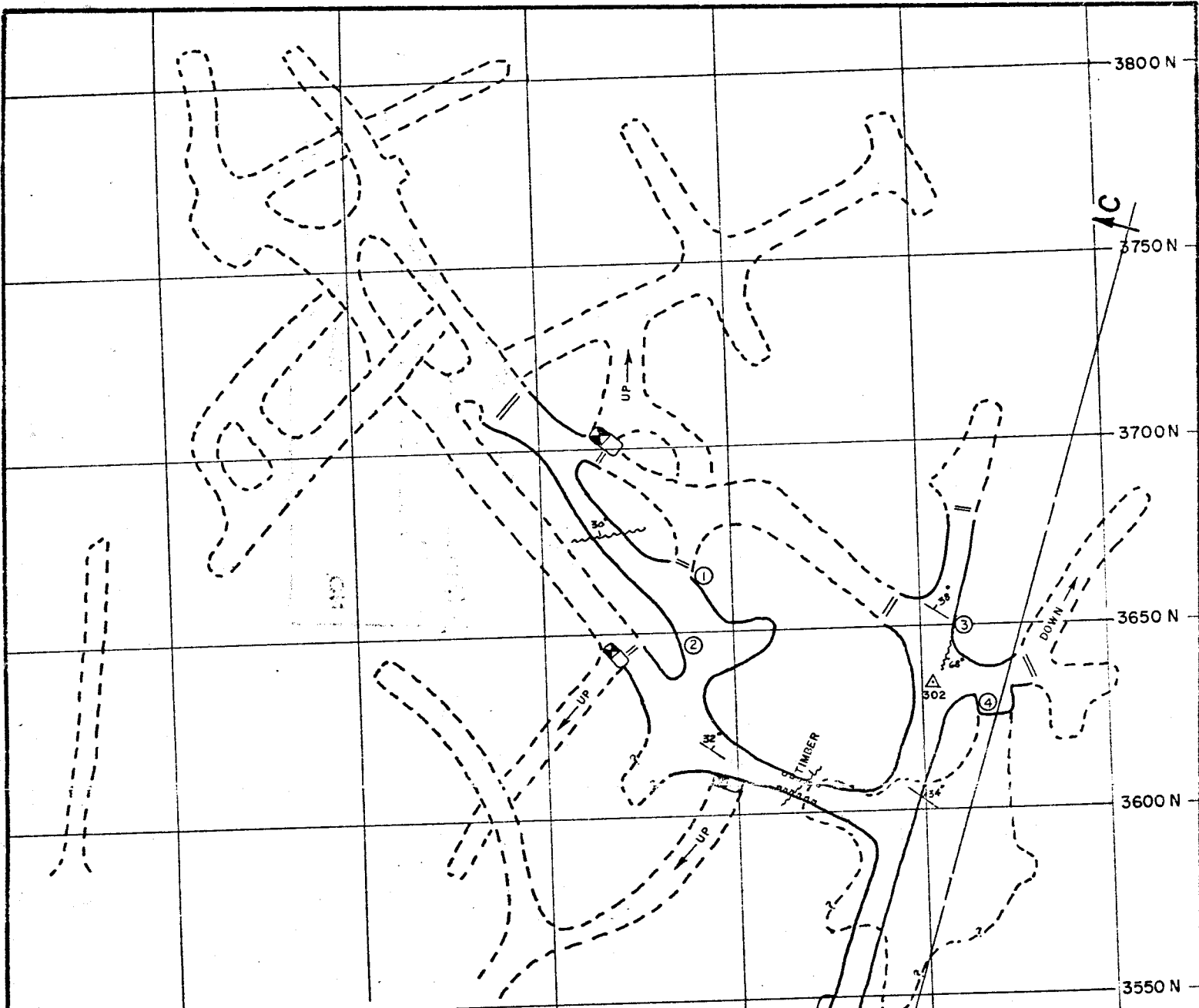
(Kamad Silver Co. Ltd.)

DRAWN - J.B.

TRACED - A.M.

CHECKED - G.S.

FILE NO. GE-A-46



**LEGEND**

- ① 34' @
- ② 50' @
- ③ 150' @
- ④ 60' @
- ⑤ 100' @

Oz Au	Oz Ag	% Pb	% Zn	% Ba So <sub>4</sub>	% Cu
0.01	4.2	0.46	1.28	91.2	0.22
0.02	11.5	1.07	2.73	71.6	0.33
0.02	10.5	0.42	1.00	82.4	0.30
0.01	6.2	0.35	1.28	84.0	0.24
0.01	4.2	—	—	—	0.10

Drift caved or not accessible Cave

NUMEROUS QUARTZ VEINS

<b>CRAIGMONT MINES LTD.</b>  <b>PROJECT 18-131</b> <i>(Kamad Silver Co. Ltd.)</i>	SCALE	APPROVED	DATE
	1" = 40'		23/9/70
	DRAWN - J.B.		
	TRACED - A.M.		
CHECKED - G.S.	FILE NO. GE-A-48		

2915 M-21

UNDERGROUND SAMPLE LOCATIONS

T  
S  
L

# Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504

ASSAYERS  
CHEMISTS  
GEOCHEMISTS

## CERTIFICATE OF ANALYSIS

Semiquantitative Spectrographic

SAMPLE(S) FROM

CRAIGMONT MINES, LTD.

REPORT NO.

V-8122

SAMPLE(S) OF

PULP

	Sample 24-D	Sample 22-d	Sample 20-D		Sample 24-D	Sample 22-D	Sample 20-D
Antimony	.15%	.01%	-	Phosphorus	-	-	-
Arsenic	-	-	-	Platinum	-	-	-
Barium	H	H	H	Rhenium	X	X	X
Beryllium (BeO)	-	-	-	Rhodium	-	-	-
Bismuth	-	-	-	Rubidium	X	X	X
Boron	-	-	-	Ruthenium	-	-	-
Cadmium	<.005%	.01%	.005%	Silver	8 oz:t	3 oz:t	.5 oz:t
Cerium (CeO <sub>2</sub> )	-	-	-	Strontium	.5%	.2%	.5%
Caesium	X	X	X	Tantalum (Ta <sub>2</sub> O <sub>5</sub> )	-	-	-
Chromium	-	-	-	Tellurium	-	-	-
Cobalt	-	-	-	Thallium	-	-	-
Columbium (Cb <sub>2</sub> O <sub>5</sub> )	-	-	-	Thorium (ThO <sub>2</sub> )	-	-	-
Copper	.3%	.2%	.1%	Tin	-	-	-
Gallium	<.001%	<.001%	-	Titanium	.03%	.01%	.01%
Germanium	-	-	-	Tungsten	-	-	-
Gold	.02 oz:t	-	-	Uranium (U <sub>3</sub> O <sub>8</sub> )	-	-	-
Hafnium	-	-	-	Vanadium	.01%	<.01%	<.01%
Indium	-	-	-	Yttrium (Y <sub>2</sub> O <sub>3</sub> )	-	-	-
Iridium	-	-	-	Zinc	1%	5%	1%
Lanthanum (La <sub>2</sub> O <sub>3</sub> )	-	-	-	Zirconium (ZrO <sub>2</sub> )	<.005%	-	<.005%
Lead	2%	M	LM	ROCK FORMING METALS			
Lithium (LiO)	-	-	-	Aluminum (Al <sub>2</sub> O <sub>3</sub> )	M	1%	2%
Manganese	<.005%	.1%	.03%	Calcium (CaO)	.05%	2%	.5%
Mercury	-	-	-	Iron (Fe)	.6%	.4%	.3%
Molybdenum	.001%	.005%	-	Magnesium (MgO)	.6%	.3%	1%
Neodymium (Nd <sub>2</sub> O <sub>3</sub> )	-	-	-	Silica (SiO <sub>2</sub> )	MH	M	LM
Nickel	.001%	<.001%	<.001%	Sodium (Na <sub>2</sub> O)	.02%	-	-
Palladium	-	-	-	Potassium (K <sub>2</sub> O)	.5%	<.1%	<.1%

Figures are approximate:

### CODE

H — High — 10 — 100% approx.  
MH — Medium High — 5 — 50% approx.  
M — Medium — 1 — 10% approx.

LM — Low Medium — .5 — 5% approx.  
L — Low — .1 — 1% approx.  
TL — Trace Low — .05 — .5% approx.  
T — Trace — .01 — .1% approx.

FT — Faint Trace — approx. less than .01%.  
PT — Possible Trace — Presence not certain.  
— — Not Detected — Elements looked for but not found.  
X — Not looked for

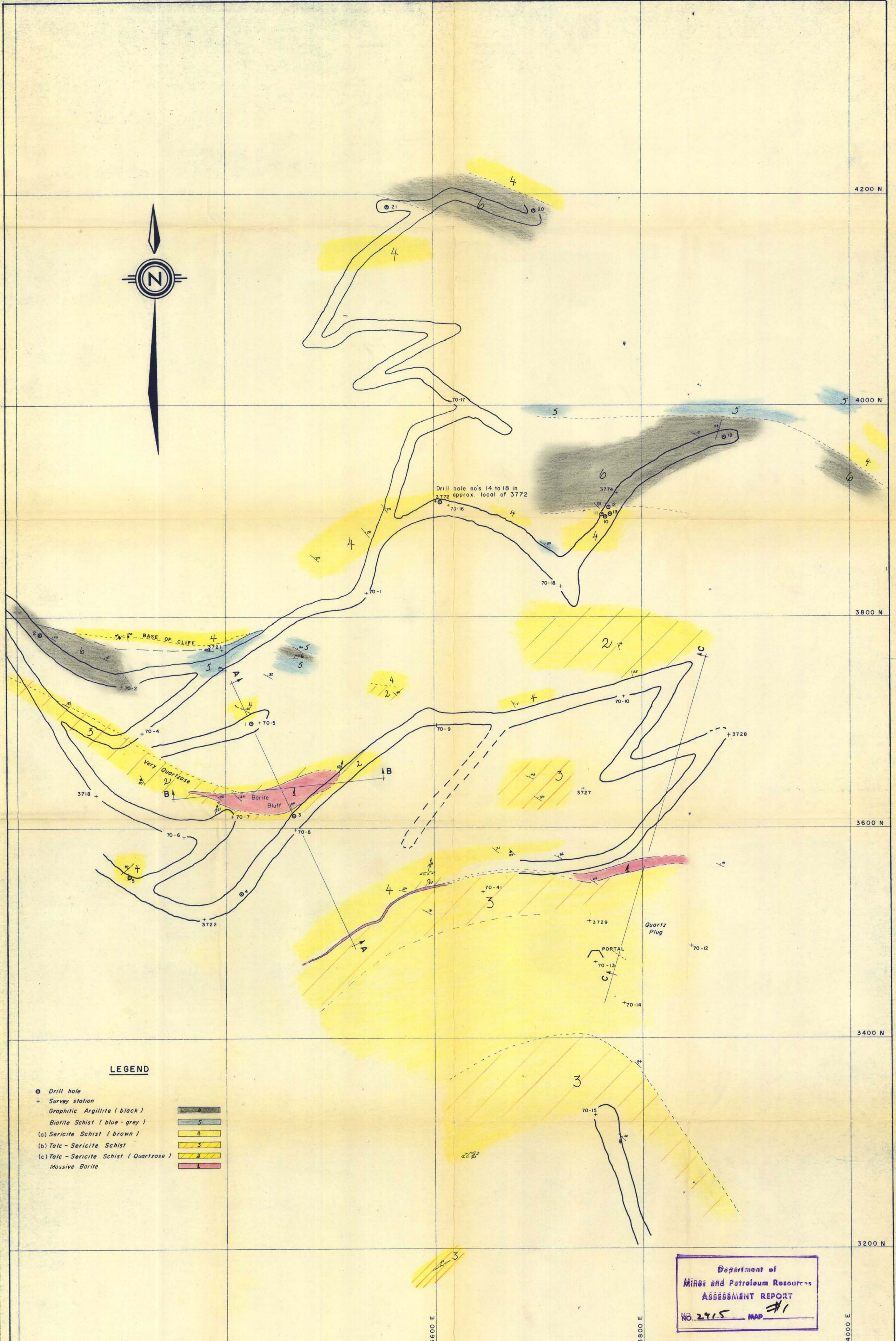
DATE September 25, 1970.

SIGNED *[Signature]*

DIVISION OF TECHNICAL SERVICE LABORATORIES

60 ELEMENT SEMIQUANTITATIVE  
SPECTROGRAPHIC ANALYSIS





**LEGEND**

- Drill hole
- + Survey station
- Graphitic Argillite (black)
- Biotite Schist (blue-grey)
- (a) Sericite Schist (brown)
- (b) Talc-Sericite Schist
- (c) Talc-Sericite Schist (Quartzose)
- Massive Barite

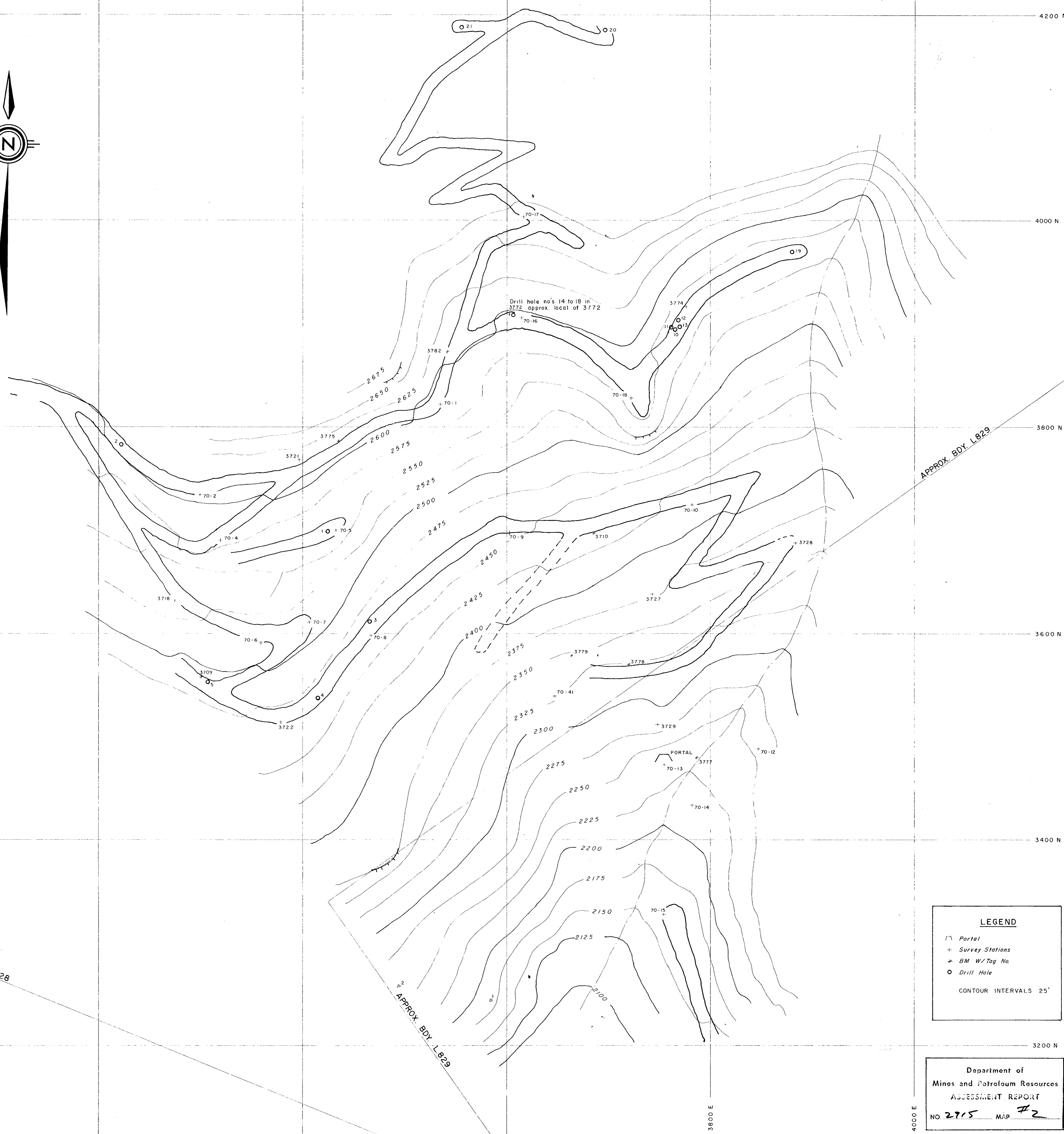
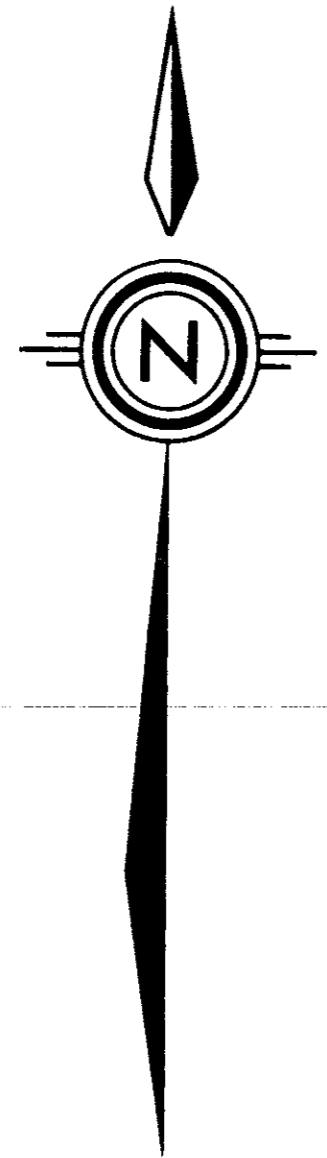
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2915 MAP #1

DRAWN BY J. BRISTOW	DATE
TRACED BY A. MOSLEY	29/9/70
CHECKED BY G. Sanford	1/10/70
APPROVED G. Sanford	1/10/70

**CRAIGMONT  
MINES LIMITED**  
MERRITT, B.C.

PROJECT 18-131  
(KAMAD SILVER CO. LTD.)  
SURFACE GEOLOGY

SCALE 1" = 40' JOB NO.  
**GE-D-32**



**LEGEND**

- Portal
- + Survey Stations
- \* BM W/Tag No
- Drill Hole

CONTOUR INTERVALS 25'

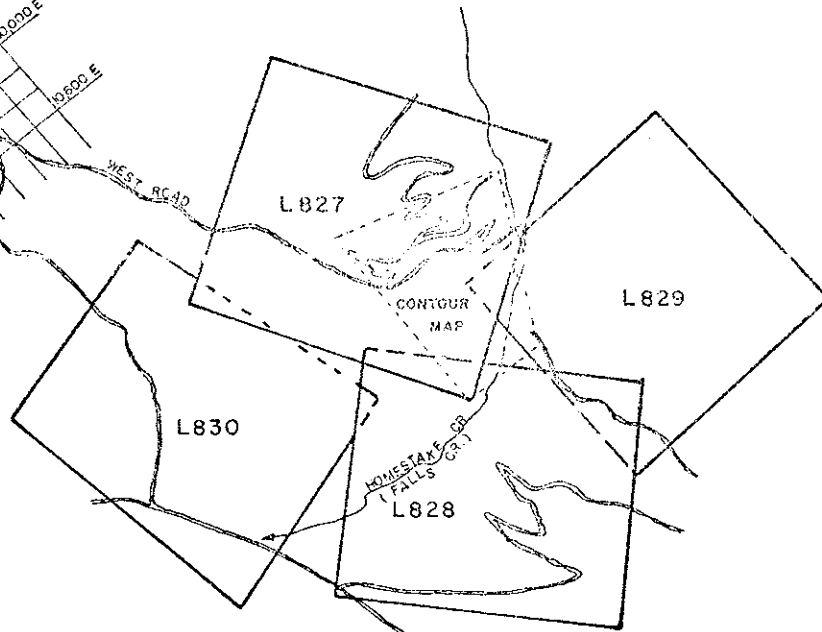
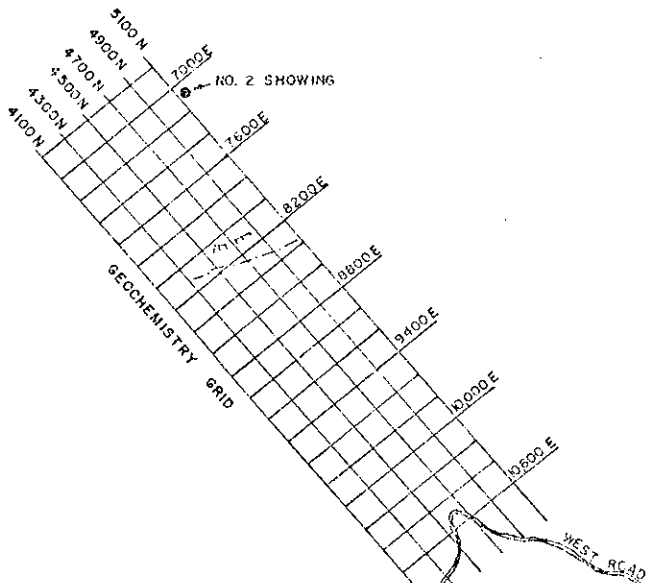
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2715 MAP #2

DRAWN BY	J. BRISTOW	DATE
TRACED BY	A. MOSLEY	29/9/70
CHECKED BY	G. OCOL	30/9/70
APPROVED	G. SANFORD	1/10/70

**CRAIGMONT  
MINES LIMITED**  
MERRITT, B. C.

PROJECT 18-131  
(KAMAD SILVER CO. LTD.)  
SURFACE CONTOUR

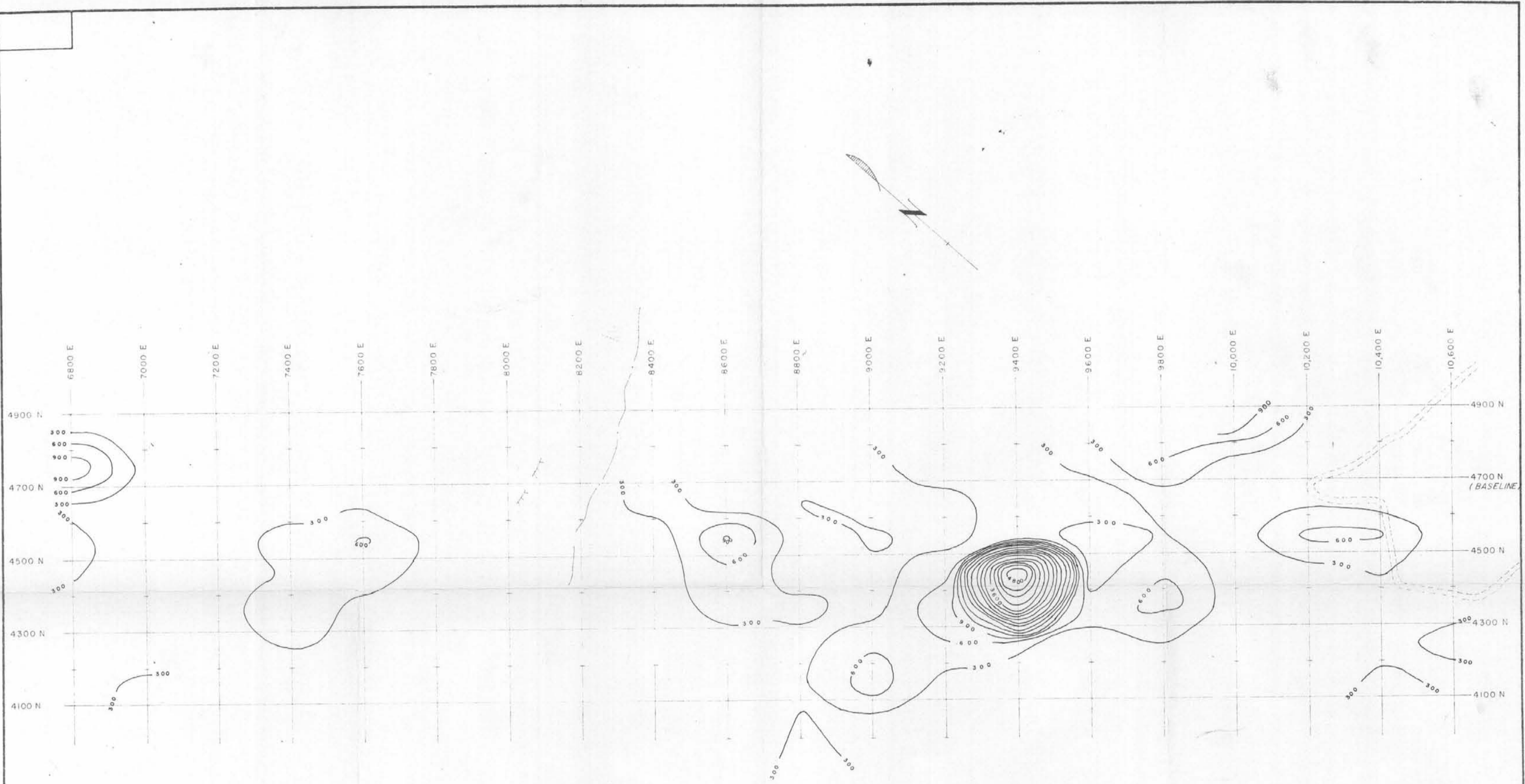
SCALE 1" = 40' JOB NO.  
**GE-E-42**



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2915 ..... MAP **A3**

CRAIGMONT MINES LTD.	SCALE	DATE
PROJECT 18-131 (Komad Silver Co. Ltd.)	APPR 1" = 1000'	22/10/75
GEOCHEMISTRY GRID	DRAWN-A.M.	
LOCALITY	FILE NO. 85-1-53	





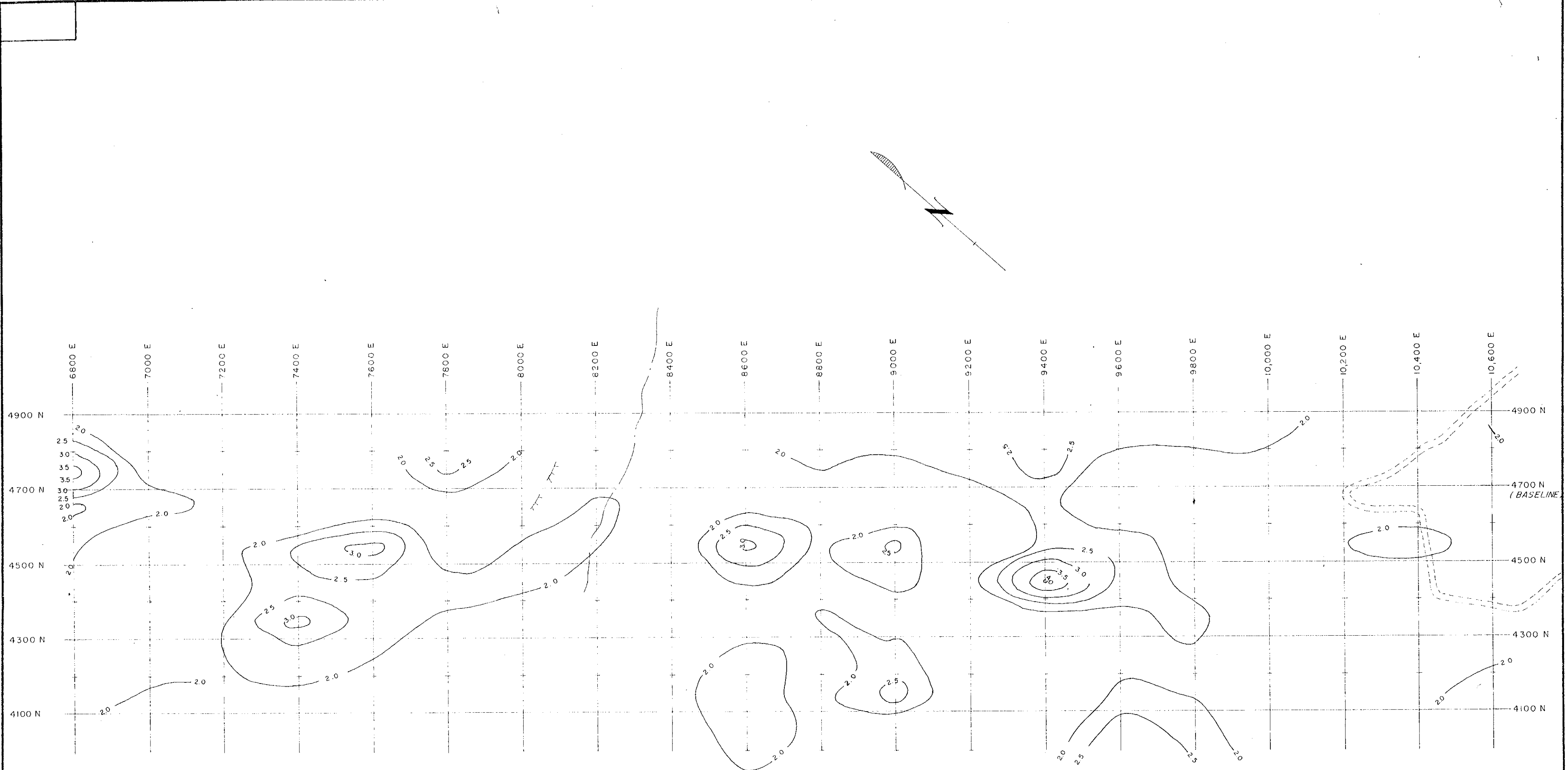
Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO 2915 MAP #5

REFERENCE	PLAN No.	COMPANY	TITLE	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY	DATE

**CRAIGMONT  
 MINES LIMITED**  
 MERRITT, B. C.

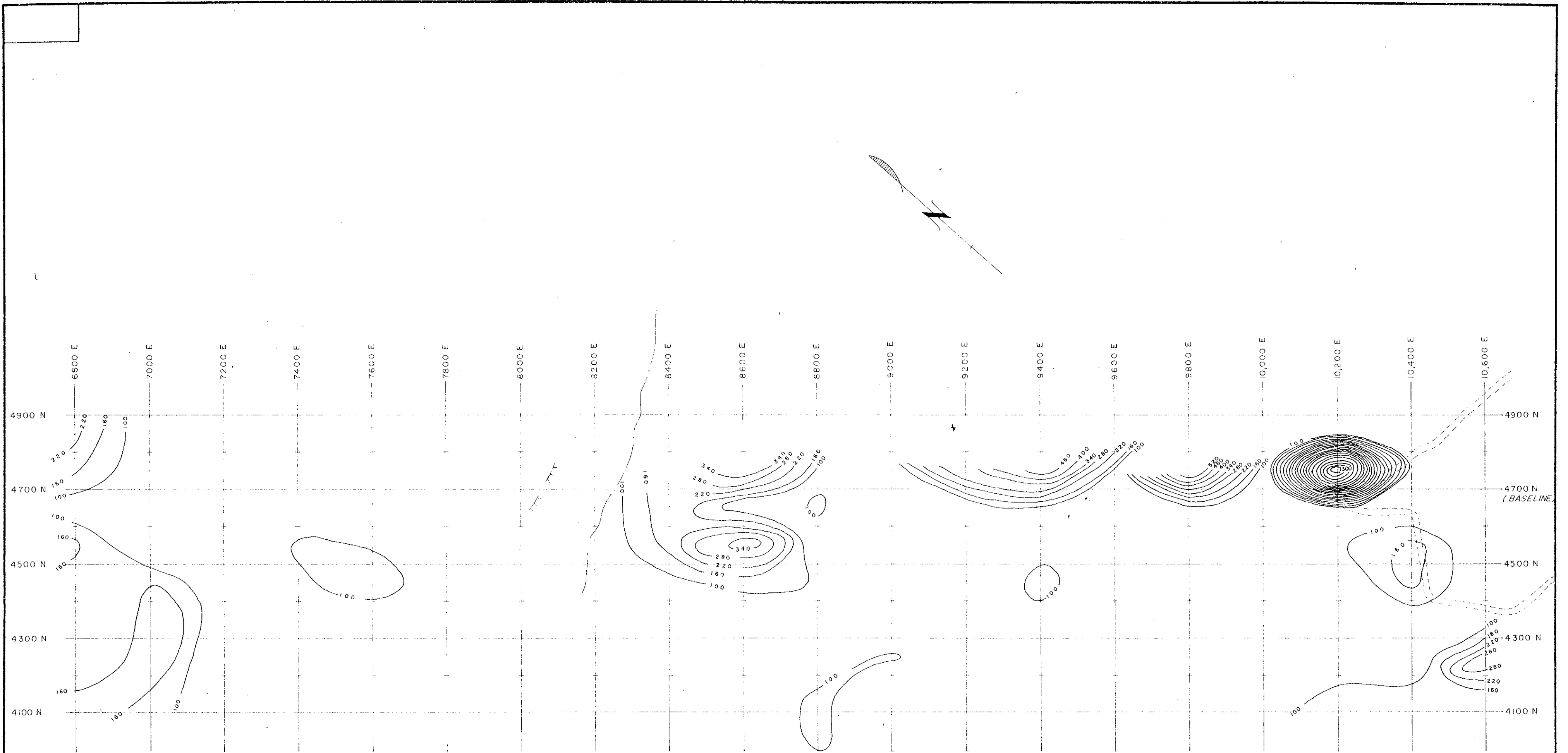
GEOCHEMISTRY CONTOURS ( Zinc )  
 Homestake Mine ( Kamad Silver )

SCALE 1" = 200' JOB No  
**GE-C-33-2**



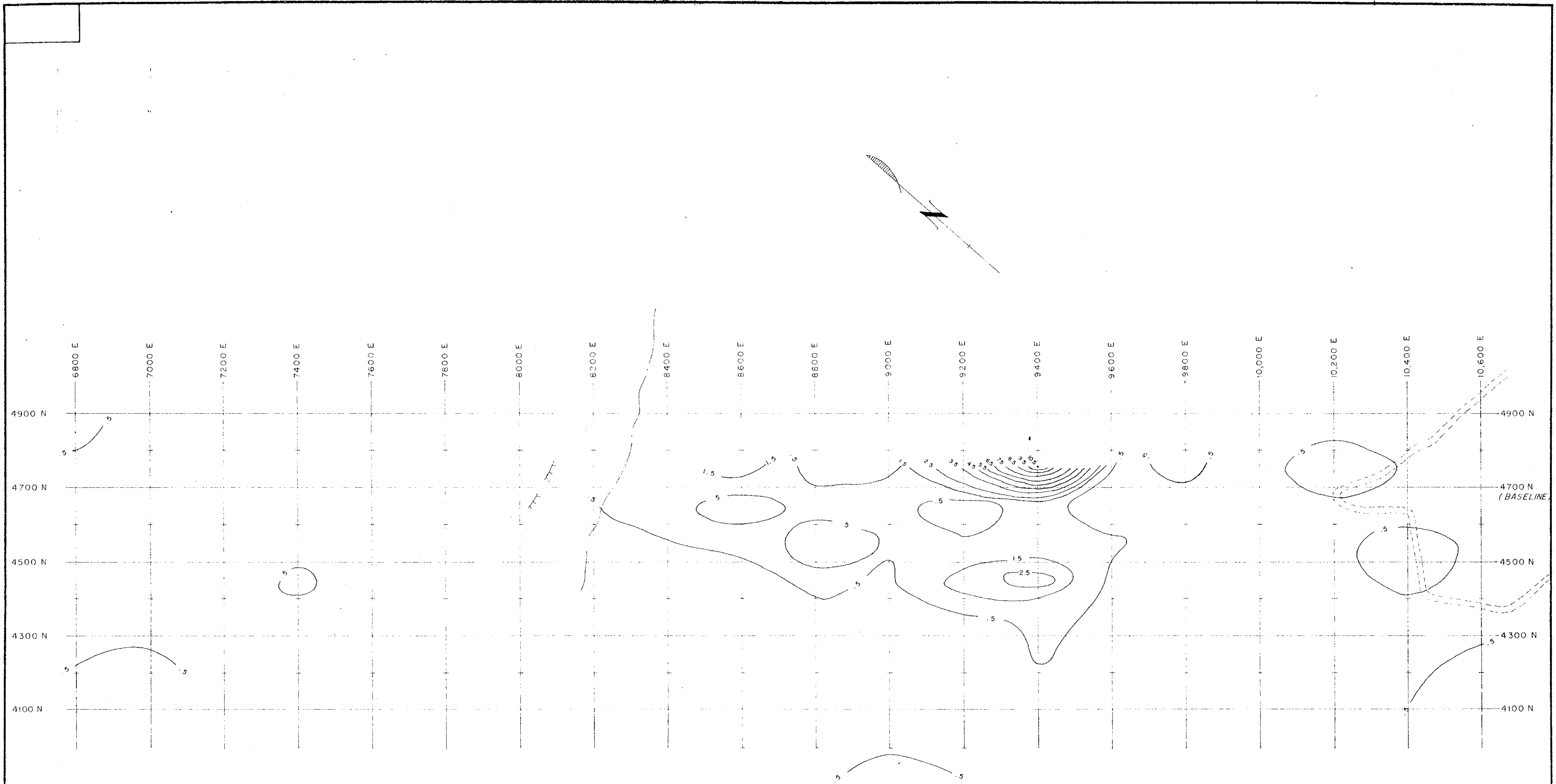
Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2915 M.P. #16

REFERENCE	PLAN No.	COMPANY	TITLE	REVISIONS	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY	S. MALANYCH	DATE	CRAIGMONT MINES LIMITED MERRITT, B. C.	SCALE 1" = 200'	JOB No. GE-C-33-3	
									TRACED BY	A. MOSLEY	9/11/70				GEOCHEMISTRY CONTOURS (Cadmium) ✓ Homestake Mine (Kamad Silver)
									CHECKED BY	G. SANFORD	22/1/71				
									APPROVED						



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2915 MAP # 17

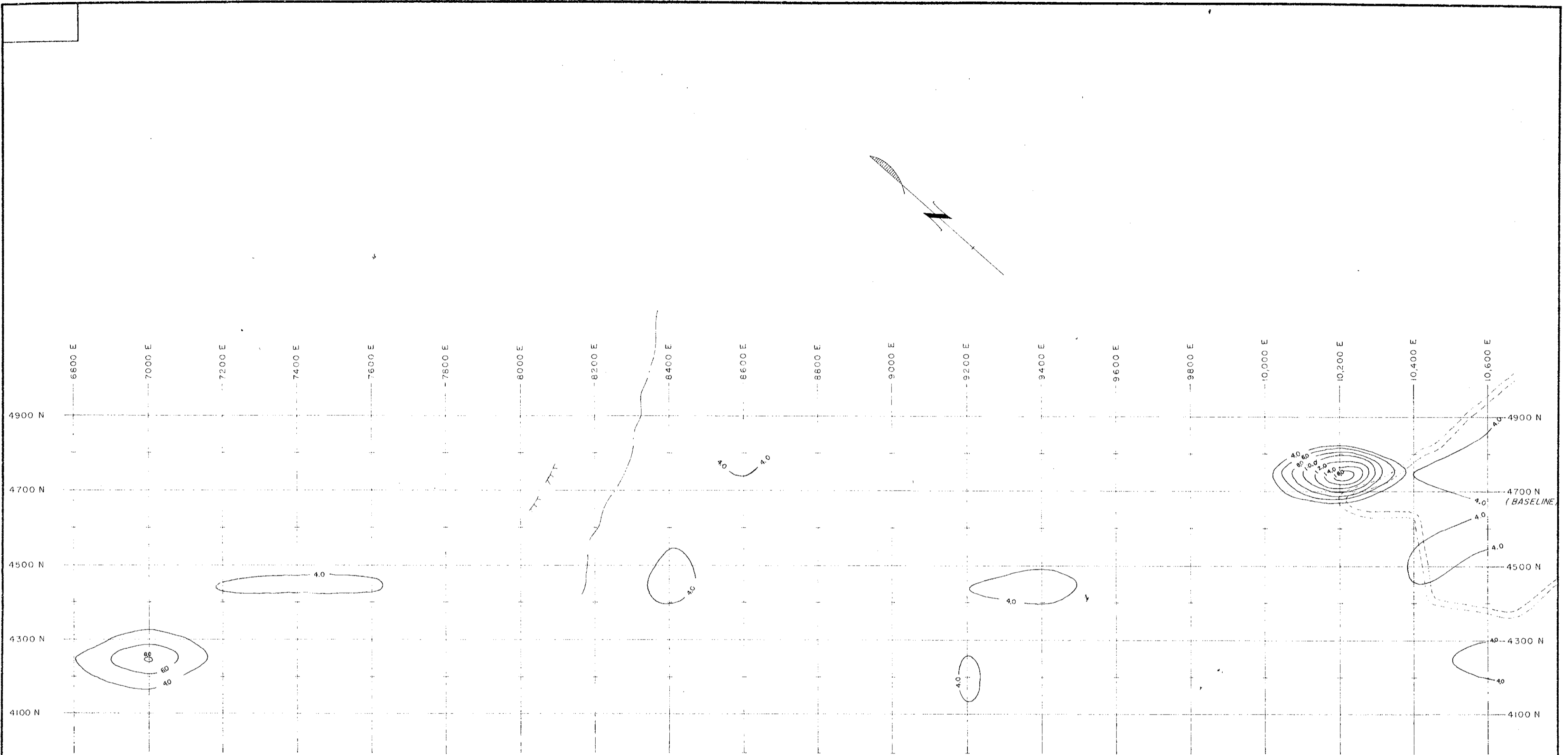
REFERENCE	PLAN No.	COMPANY	TITLE	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY	DATE	CRAIGMONT MINES LIMITED MERRITT, B. C.	SCALE 1"=200'	JOB No. GE-C-33-4
								S. MALANYCH	9/11/70			
								A. MOSLEY	22/1/71			
								G. SANFORD				
								APPROVED				



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2915 MAP #8

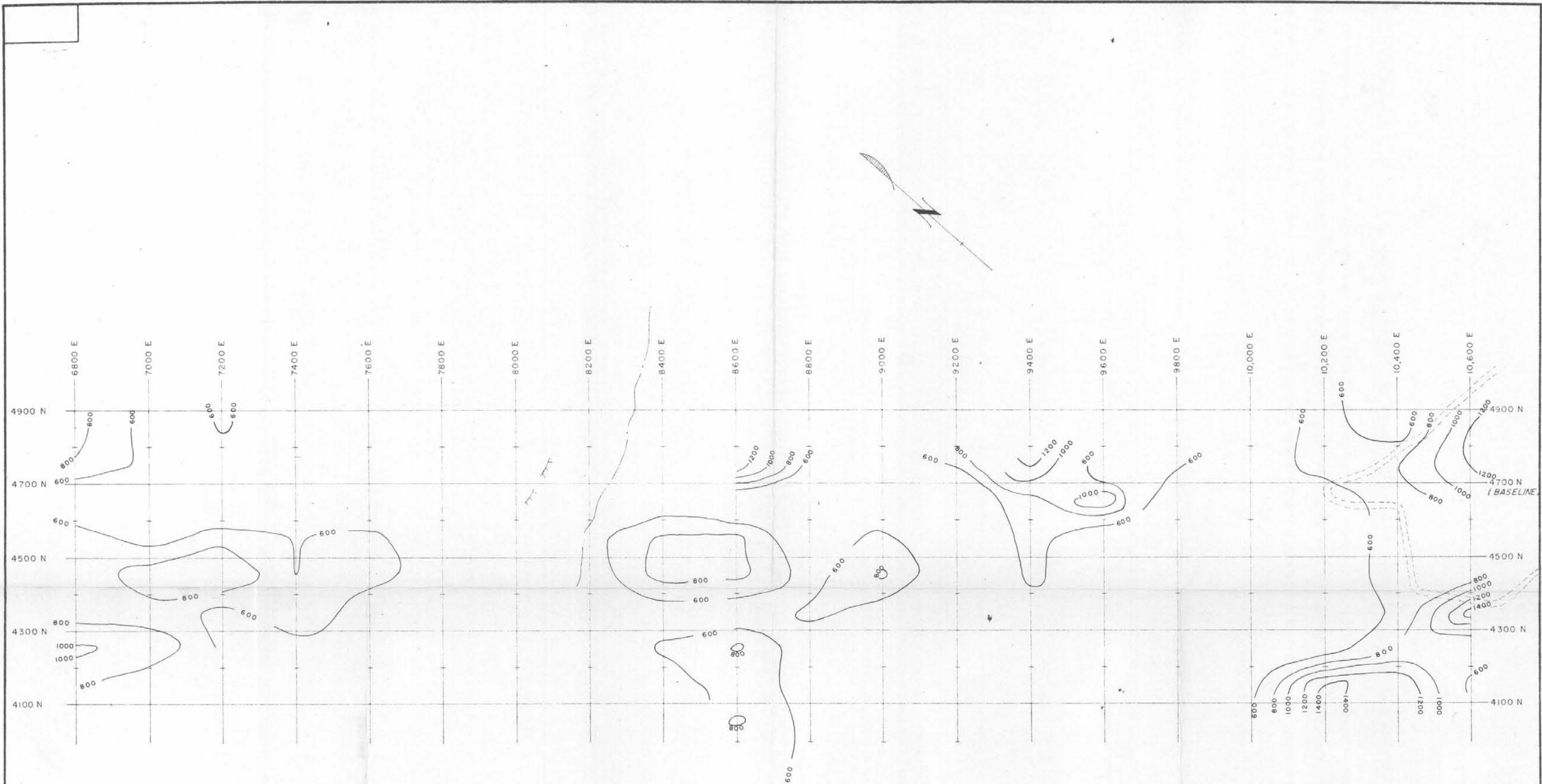
PLAN No.	COMPANY	TITLE	NO.	DESCRIPTION	MADE BY	DATE	DRAWN BY	S. MALANYCH	DATE	CRAIGMONT MINES LIMITED MERRITT, B. C.	GEOCHEMISTRY CONTOURS (Silver) ✓	SCALE 1"=200'	JOB No.
							TRACED BY	A. MOSLEY	9/11/70		Homestake Mine (Kamad Silver)		
							CHECKED BY	G. SANFORD	22/1/71				GE-C-33-5
							APPROVED						





Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2915 MAP #7

REFERENCE	PLAN No.	COMPANY	TITLE	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY	S. MALANYCH	DATE	CRAIGMONT MINES LIMITED MERRITT, B. C.	SCALE 1"=200'	JOB No.
										TRACED BY		A. MOSLEY	9/11/70
								CHECKED BY	G. SANFORD	22/1/71	Homestake Mine (Kamod Silver)		
								APPROVED					

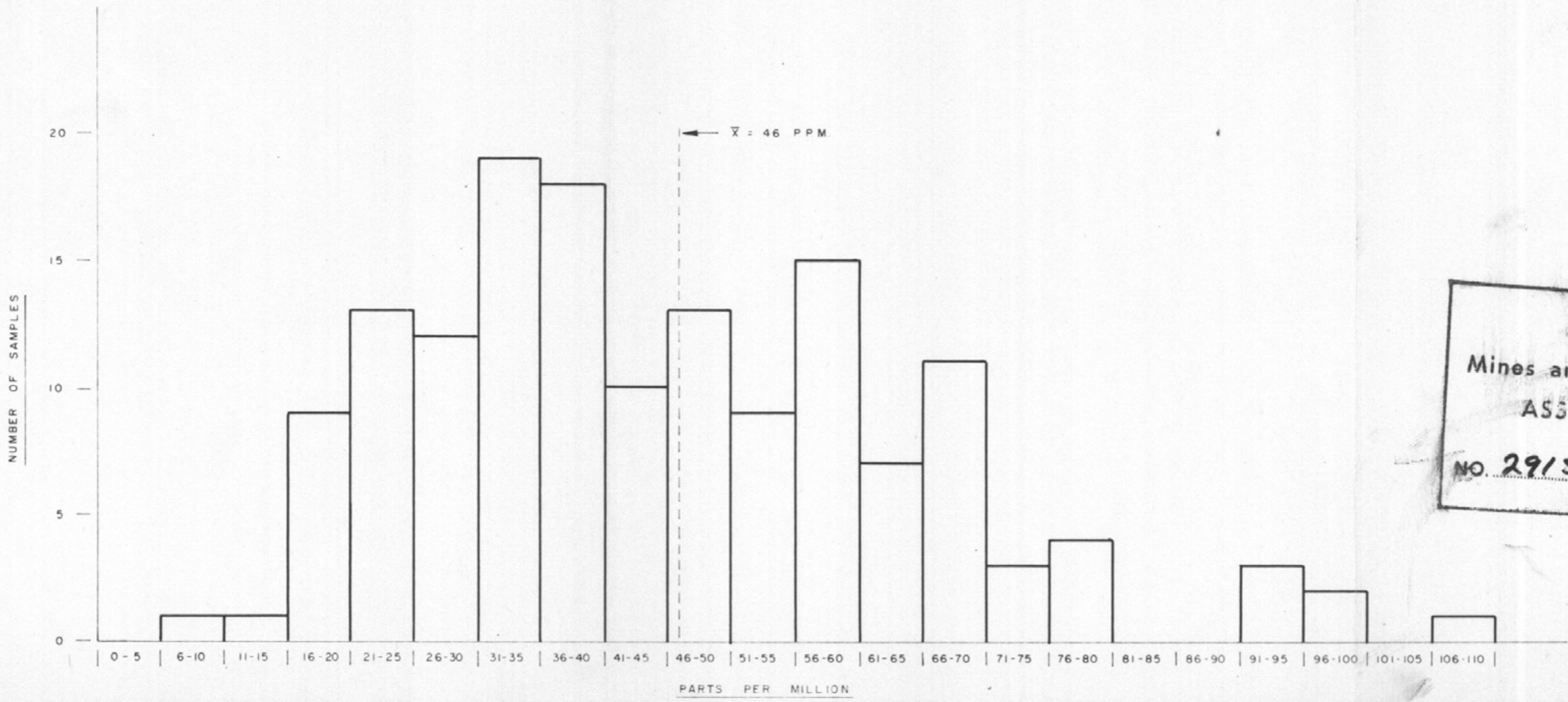


Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2915 MAP #10

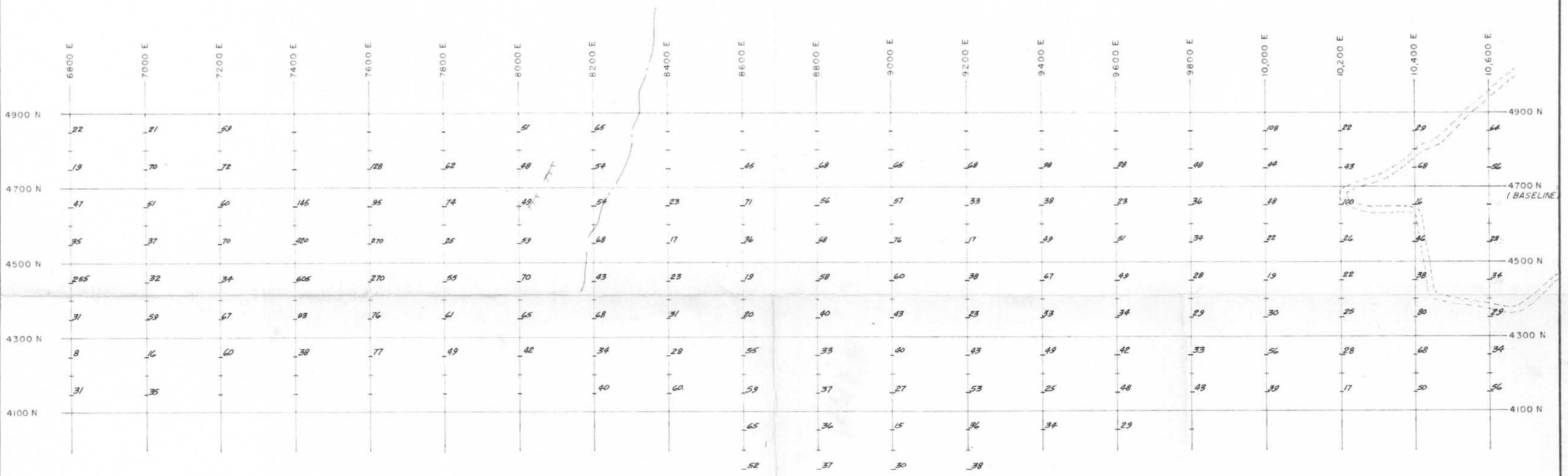
REFERENCE	PLAN No.	COMPANY	TITLE	REVISIONS	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY	S. MALANYCH	DATE	<b>CRAIGMONT          MINES LIMITED</b> MERRITT, B. C.	GEOCHEMISTRY CONTOURS ( Barium ) <i>Homestake Mine ( Kamad Silver )</i>	SCALE 1" = 200'	JOB No.	
									TRACED BY	A. MOSLEY	9/11/70			<b>GE-C-33-7</b>		
									CHECKED BY	G. SANFORD	22/1/71					
									APPROVED							

CRAIGMONT MINES LTD.	DATE: 23/11/70	SCALE:
PROJECT 18-131 (Kamad Silver Co. Ltd.)	DRAWN BY:	S. MALANYCH
	DRAFTED BY:	A. MOSLEY
	CHECKED BY:	G. SANFORD
	FILE NO.	GE-B-19

Histogram For Copper ✓

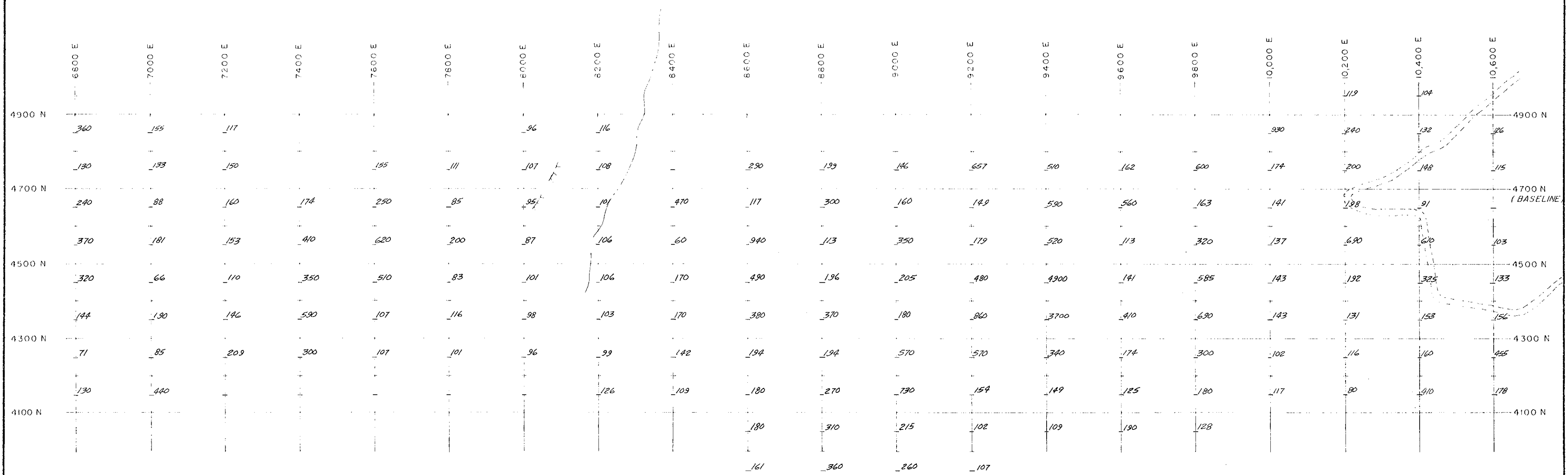
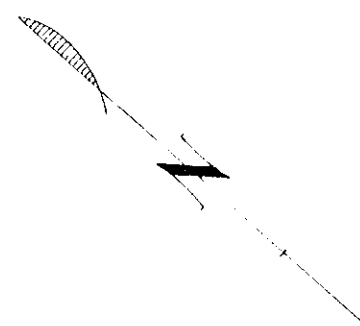


Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2915 MAP # 11



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2915 MAP #22

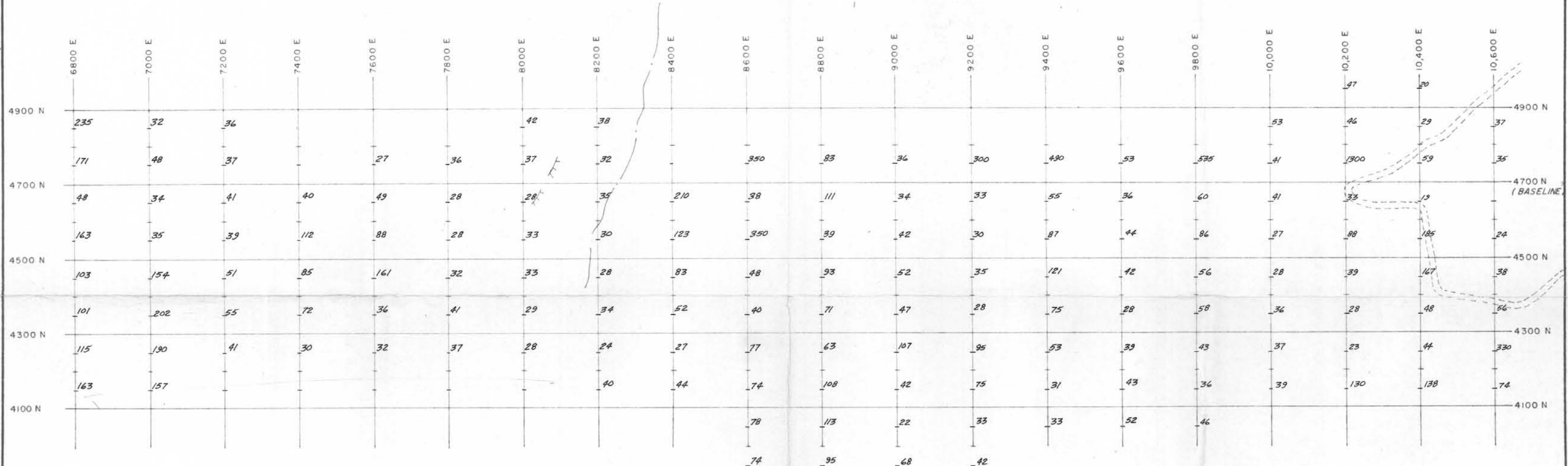
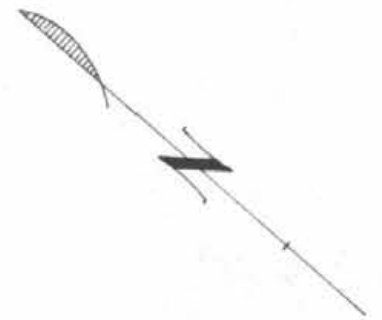
REFERENCE	PLAN No.	COMPANY	TITLE	REVISIONS	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY S. MALANYCH	DATE	CRAIGMONT MINES LIMITED MERRITT, B. C.	SCALE 1"=200'	JOB No.
									TRACED BY A. MOSLEY	9/11/70		GEOCHEMISTRY CONTOURS (Copper)	GE-C-33
									CHECKED BY			Homestake Mine (Kamad Silver)	
									APPROVED				



Department of  
 Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
 NO. 2915 MAP # 23

REFERENCE	PLAN No.	COMPANY	TITLE	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY	S. MALANYCH	DATE	<b>CRAIGMONT MINES LIMITED</b> MERRITT, B. C.	GEOCHEMISTRY CONTOURS (Zn) Homestake Mine (Kamod Silver)	SCALE 1" = 200'	JOB No.
									TRACED BY	A. MOSLEY			9/11/70	
								CHECKED BY						
								APPROVED						

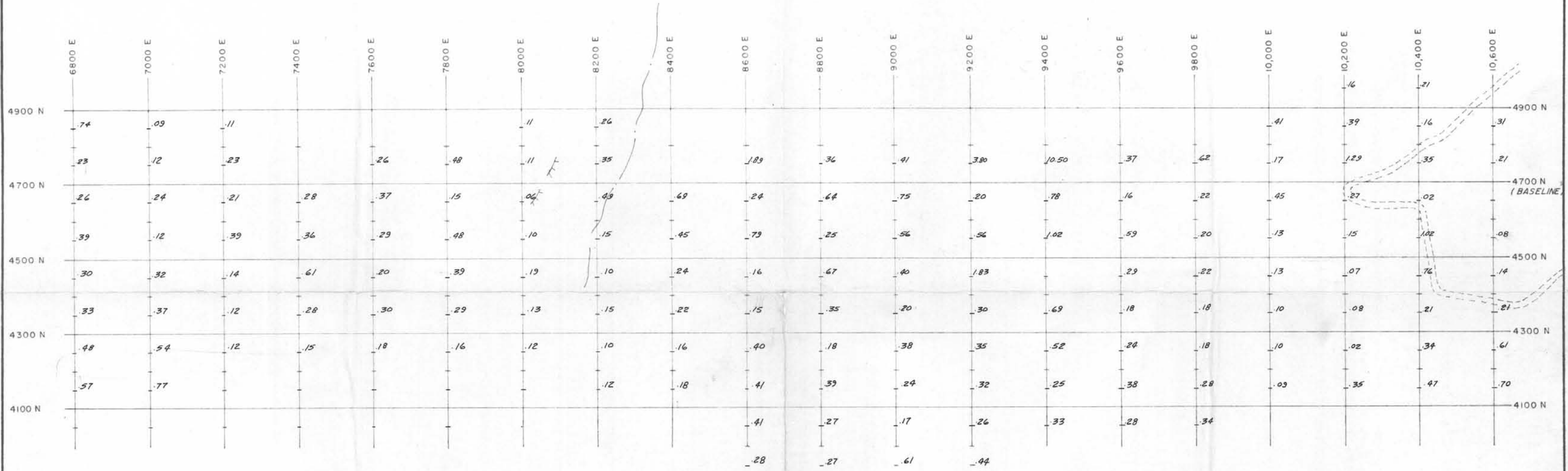




*[Faint, illegible text or stamp]*

**Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT**  
 NO. 2915 MAP #25

REFERENCE	PLAN NO.	COMPANY	TITLE	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY S. MALANYCH	DATE	<b>CRAIGMONT          MINES LIMITED          MERRITT, B. C.</b>	SCALE 1" = 200'	JOB No.
								TRACED BY A. MOSLEY	9/11/70		<b>GE-C-33</b>	
								CHECKED BY			GEOCHEMISTRY CONTOURS (Lead) Homestake Mine (Kamad Silver)	
								APPROVED				



Department of  
 Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
 NO. 2915 MAP # 26

REFERENCE	PLAN NO.	COMPANY	TITLE	No.	DESCRIPTION	MADE BY	DATE	DRAWN BY S. MALANYCH	DATE	<b>CRAIGMONT MINES LIMITED MERRITT, B. C.</b>	SCALE 1" = 200'	JOB No.
								TRACED BY A. MOSLEY	9/11/70		GEOCHEMISTRY CONTOURS ( <i>Silver</i> ) Homestake Mine (Kamad Silver)	<b>GE-C-33</b>
							CHECKED BY					
							APPROVED					





