

ASSESSMENT REPORT

TYPE: GEOPHYSICAL, GEOCHEMICAL  
CLAIM: AM-1  
MINING DIVISION: KAMLOOPS  
NTS LOCATION: 92P/1E  
LATITUDE: 51° 10'  
LONGITUDE: 120° 06'  
OWNER: CRAIGMONT MINES LIMITED  
OPERATOR: " " "  
AUTHOR: N.B. Vollo, P.Eng.  
DATE: FEBRUARY 21st, 1980

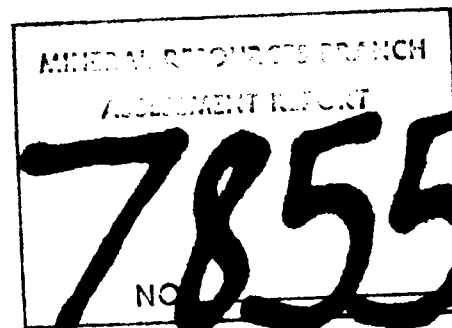


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MAPS IN POCKET

EM-16 Survey, NAA	92P/1	- 1
Magnetic Survey,	"	- 2
Geochemical Plan, Cu-Zn	"	- 3
" " , Pb-Ag	"	- 4
EM-16 Survey, NPG,	"	- 5

### SUMMARY

Approximately 20 km of grid was chained, VLF-EM and magnetic surveys completed, and 340 soil samples collected on the AM-1 claim, on Armour Mountain, at Barriere, B.C. A distinct Zn soil anomaly, with associated Cu and Pb highs, was defined, correlating roughly with a known sulfide zone and VLF-EM conductors. The anomaly should be tested by at least one drill hole.

### GENERAL

The AM-1 claim is located on Armour Mountain, immediately south of the town of Barriere. Elevation ranges from 400 to 800 m with the showings at about 650 m. The mountain has been largely logged off and is now mostly grassland.

### CLAIMS AND PROPERTY HISTORY

The property consists of one 18 unit mineral claim, AM-1, record number 1738(3), in the Kamloops M.D. and held by Craigmont Mines Limited.

A small sulfide showing has been previously staked and several old pits and trenches probably date back to the early 1900's. Diamond drilling of the showing was attempted by J.A. Fennell in the late 1960's with inconclusive results.

### GEOLOGY

The claim is underlain by sheared acid volcanics, mostly fragmentals, interbedded with basic volcanics and cherty tuffites. The sequence probably correlates with the Eagle Bay formation to the southeast. Strikes are northwesterly and dips northeasterly. Photo lineations suggest the presence of northerly striking faults.

A small outcrop of massive sulfides, mostly pyrite, with minor copper and zinc, is located at Grid 10,000N, 10,000E.

### VLF-EM SURVEY

Readings were taken at 25 m intervals along lines 100 m apart using a Ronka EM-16 receiver. NPG, Jim Creek, Wash., was used as transmitter for the east-west lines; NAA, Cutler, Me., for the north-south lines. Readings in per cent slope were reduced (Fraser, D.C., Geophysics, 1969) and are shown contoured on the accompanying maps (in pocket).

Numerous weak conductive zones parallel the known strike of the country rocks. Correlation between the two survey directions is reasonably good. Moderate conductors were obtained over the sulfide zone and indicate some continuity along strike.

### MAGNETIC SURVEY

Readings were taken at 25 m intervals along lines

100 m apart, using a Geometrics G-836 Total Field digital magnetometer. Readings are shown on the accompanying map (in pocket) and are field readings minus 56000 gammas, corrected for diurnal variation by looping.

Magnetic relief is extremely low, less than 200 gammas, and no contourable trend is evident.

#### GEOCHEMICAL SURVEY

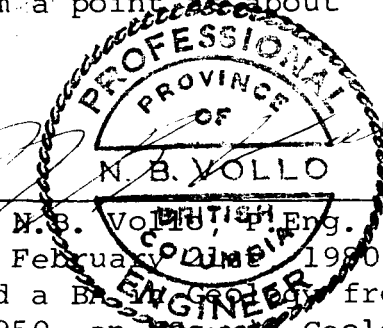
340 samples were collected at 50 m intervals along lines 100 m apart. They were taken, using pulaskis, from the "B" or "C" horizon. The soil profile is poorly developed and definite horizons could not always be distinguished. They were placed in Kraft paper envelopes and taken to Kamloops Research & Assay Laboratories, where they were dried, screened, and the -80 mesh fraction analyzed for Cu, Zn, Pb and Ag, using aqua regia extraction and the Atomic Absorption method.

Background by inspection for Cu, Zn, Pb and Ag is about 25, 75, 20 and 0.3 ppm respectively. Results are shown on the accompanying maps (in pocket), contoured logarithmically where applicable.

A fairly prominent Zn anomaly, with highs to 4000 ppm, is present, with associated smaller Cu and Pb highs. Field relations suggest the anomaly has been transported southerly about 200 m in the direction of ice flow.

#### Conclusions and Recommendations

The correlation between geochemical highs, VLF conductors and a known sulfide zone is sufficiently good to warrant drilling. A minimum of one hole, 100 m long, should be drilled southwesterly from a point at about 10,150N, 9,850E.



I, Nels B. Vollo, received a B.A. in Geology from the University of Saskatchewan in 1950, an M.Sc. in Geology from McGill University in 1959 and have practised my profession for 30 years.

STATEMENT OF EXPENDITURES

Personnel

N.B. Vollo, P.Eng., March 12th/79 to Feb. 21st/80, supervision and Report, 4 days at \$165 -----	\$ 660
L. Loranger, supervision, chaining, VLF Surveys, March 12th/79 to April 27/79, 17 days at \$110 -----	1870
Plotting and Draughting, April 5/79 to Feb. 21/80, 9 days at \$110 -----	990
B. Jardine, chaining, magnetic survey, soil sampling, plotting, March 12th, '79 to April 27/79, 20 days at \$70	1400
subtotal	<u>\$ 4920</u>

<u>Topographic Map</u> - Pacific Survey Corporation 1409 West Pender St. VANCOUVER, B.C.	\$ 1015
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<u>Geochemical Analysis</u> 340 Samples for Cu Zn Ag Pb at \$1.80/ sample, Kamloops Research & Assay Laboratories Ltd. -----	\$ 612
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<u>Vehicle Expense</u> 2389 Miles at \$0.20/mile -----	\$ 478
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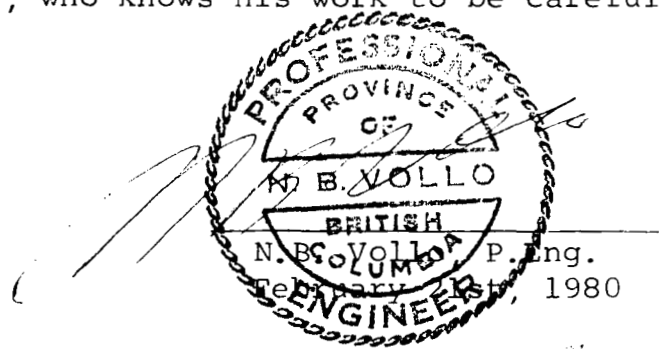
<u>Misc.</u> Prints, flagging, communications, -----	\$ 199
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TOTAL -----	<u>\$ 7124</u> 2
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QUALIFICATIONS OF OPERATORS

LEO LORANGER - is 50 years of age and has worked as fieldman and instrument operator since 1960, for Craigmont Mines since 1972. He has been carefully instructed in the operation of the Ronka EM-16 unit by the undersigned, who knows his work to be carefully and reliably done.

BRENT JARDINE - is 20 years of age, completed Grade XII at Kamloops, B.C. and has worked for Craigmont Mines Limited as instrument operator since 1978. He has been carefully instructed in the operation of the Geomtrics G-836 Magnetometer by the undersigned, who knows his work to be carefully and reliably done.

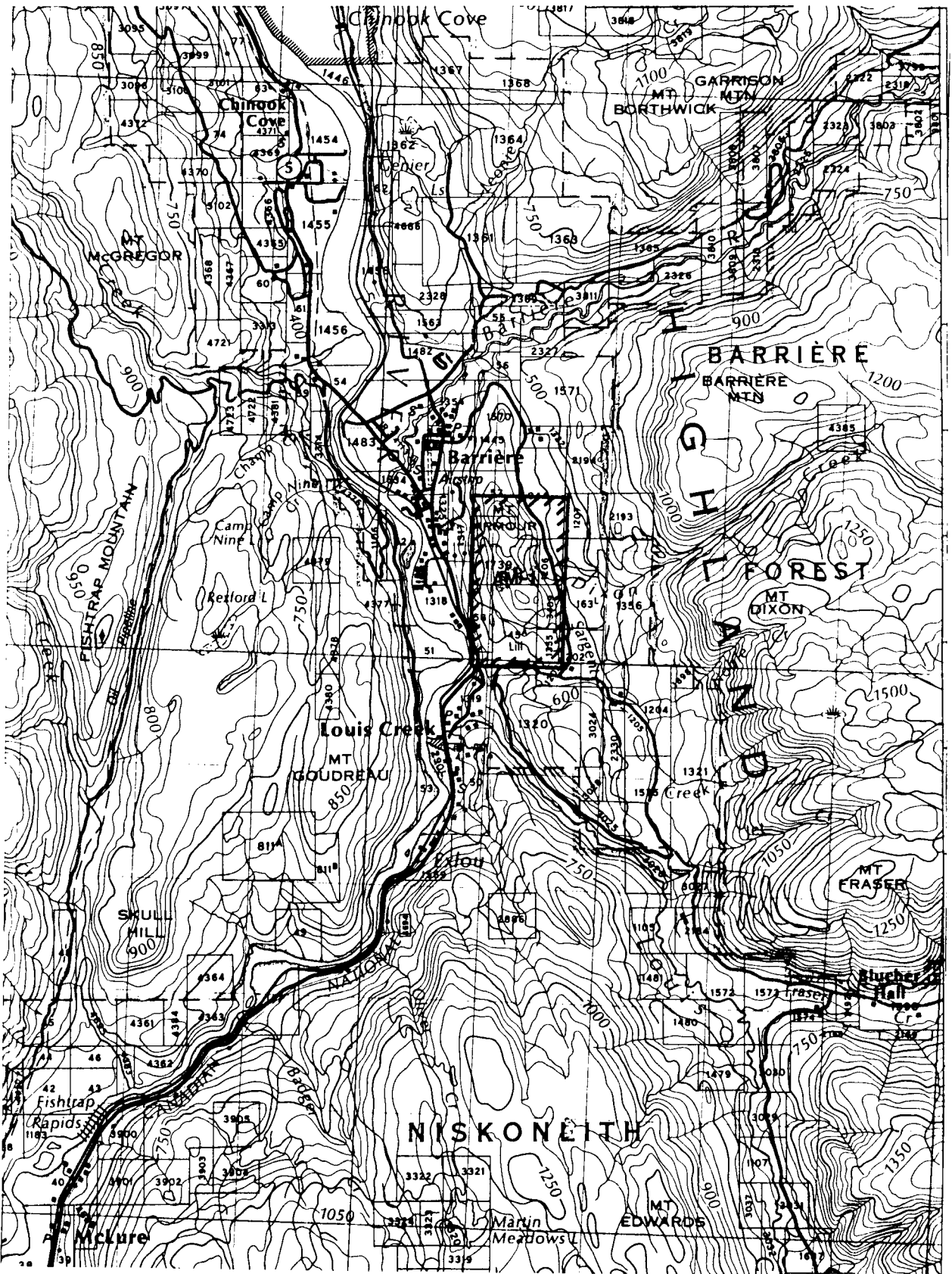


LOCATION MAP

120°00'

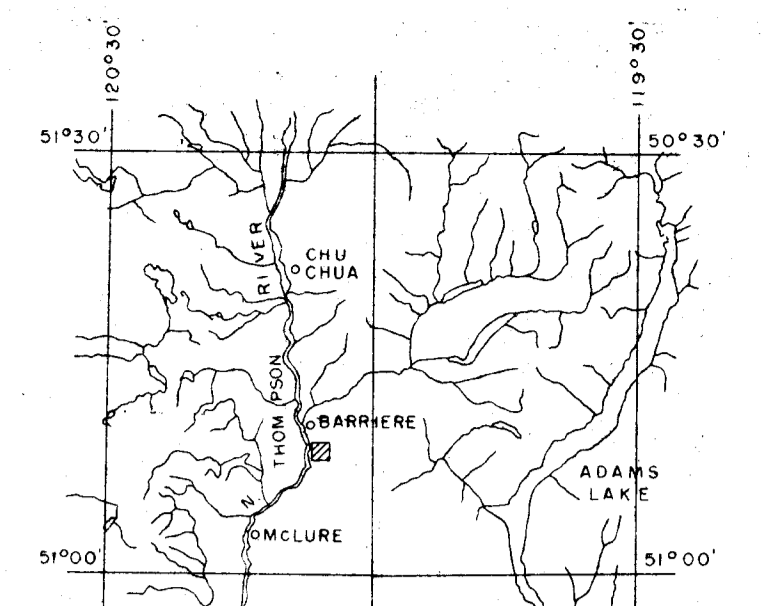
51°15'

51°15'



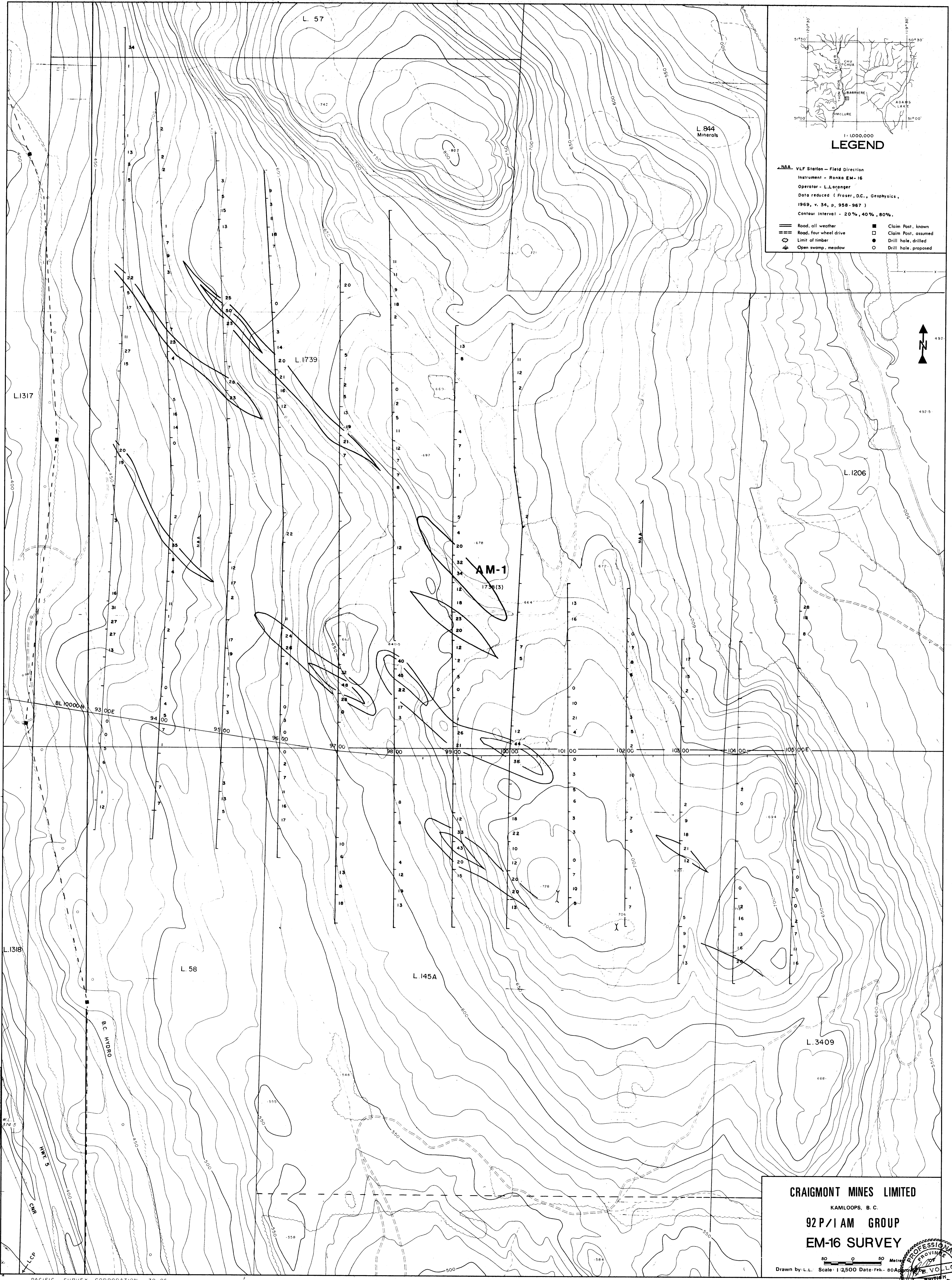
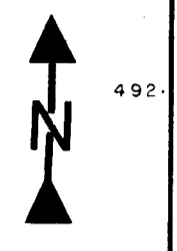
20°00'

SCALE: 1:100,000



1:1000,000  
**LEGEND**

- ▲ NAA VLF Station - Field Direction  
 Instrument - Ronka EM-16  
 Operator - L.L. Loranger  
 Data reduced (Fraser, D.C., Geophysics, 1969, v. 34, p. 958-967)  
 Contour interval - 20%, 40%, 80%.
- |                          |                        |
|--------------------------|------------------------|
| — Road, all weather      | ■ Claim Post, known    |
| — Road, four wheel drive | □ Claim Post, assumed  |
| ○ Limit of timber        | ● Drill hole, drilled  |
| ☼ Open swamp, meadow     | ○ Drill hole, proposed |

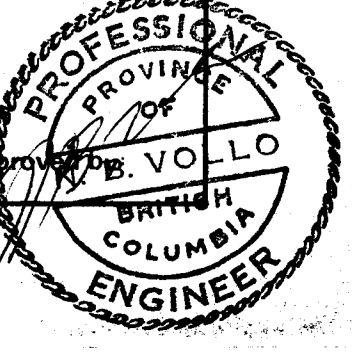


7855  
 M.M.: F. J. JES STANCHI  
 L.L.: L. LORANGER

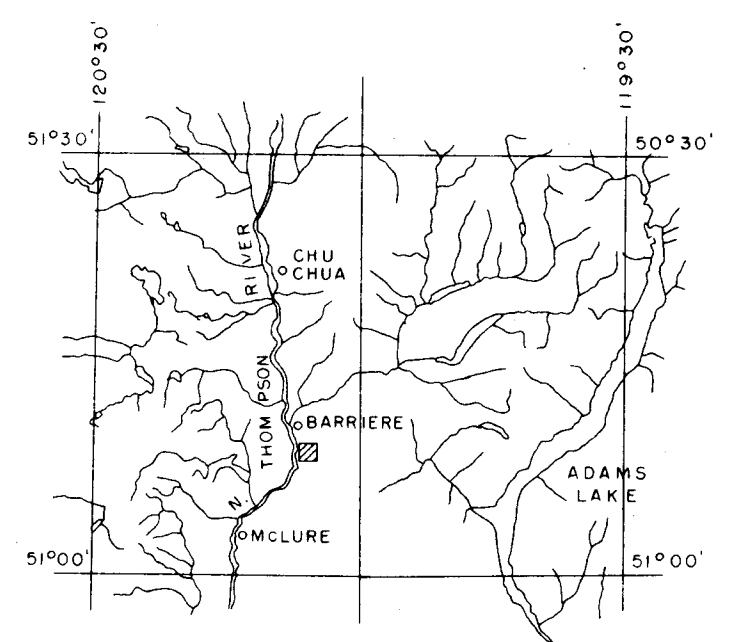
**CRAIGMONT MINES LIMITED**  
 KAMLOOPS, B. C.  
**92 P/1 AM GROUP**  
**EM-16 SURVEY**

Drawn by: L.L. Scale: 1:2500 Date: Feb. 80  
 50 0 50 Metres

92 P/1 AM - 1



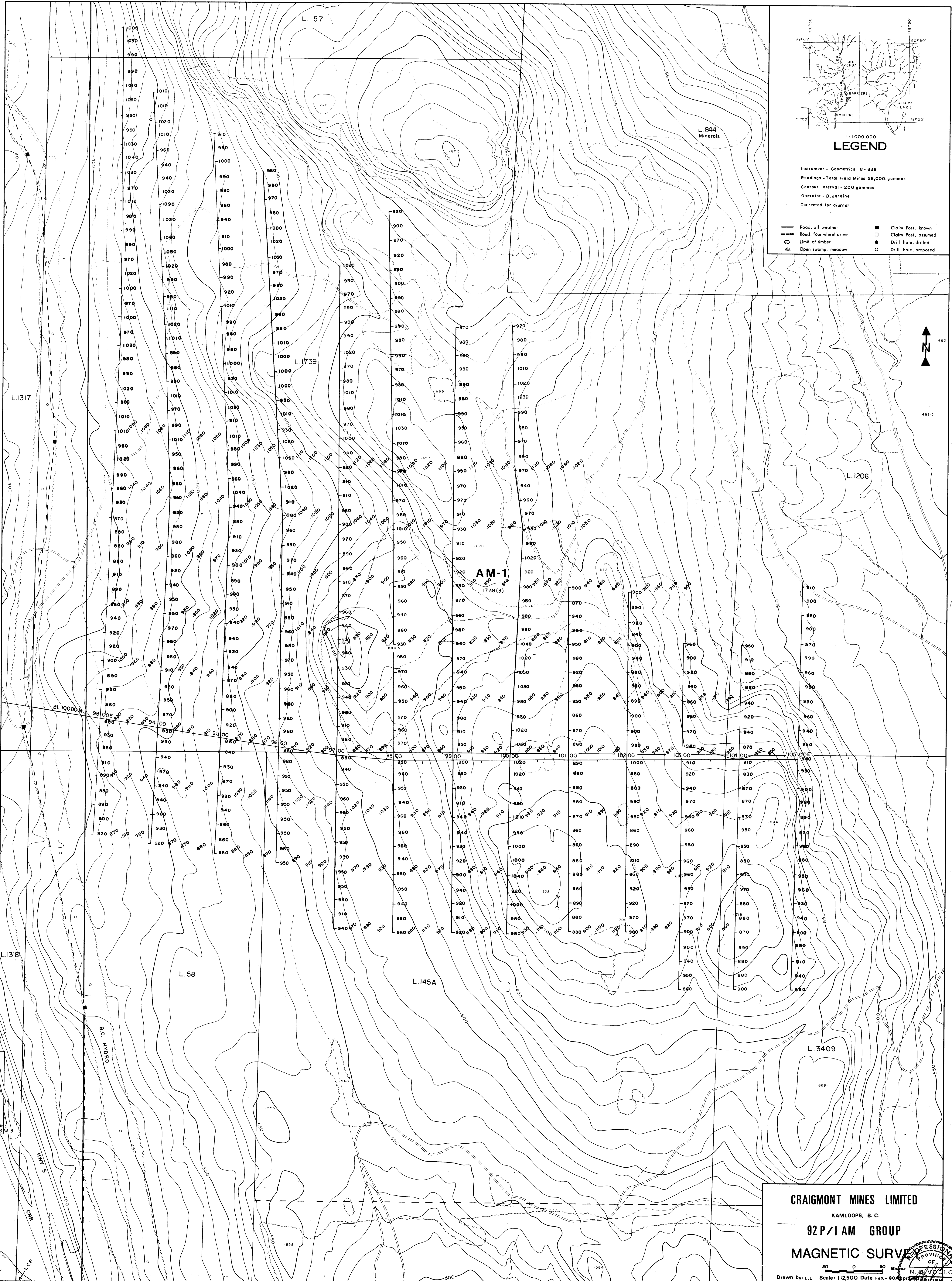




1:1000,000  
**LEGEND**

Instrument - Geometrics G-836  
 Readings - Total Field Minus 56,000 gammas  
 Contour Interval - 200 gammas  
 Operator - B. Jardine  
 Corrected for diurnal

- |                        |                      |
|------------------------|----------------------|
| Road, all weather      | Claim Post, known    |
| Road, four wheel drive | Claim Post, assumed  |
| Limit of timber        | Drill hole, drilled  |
| Open swamp, meadow     | Drill hole, proposed |

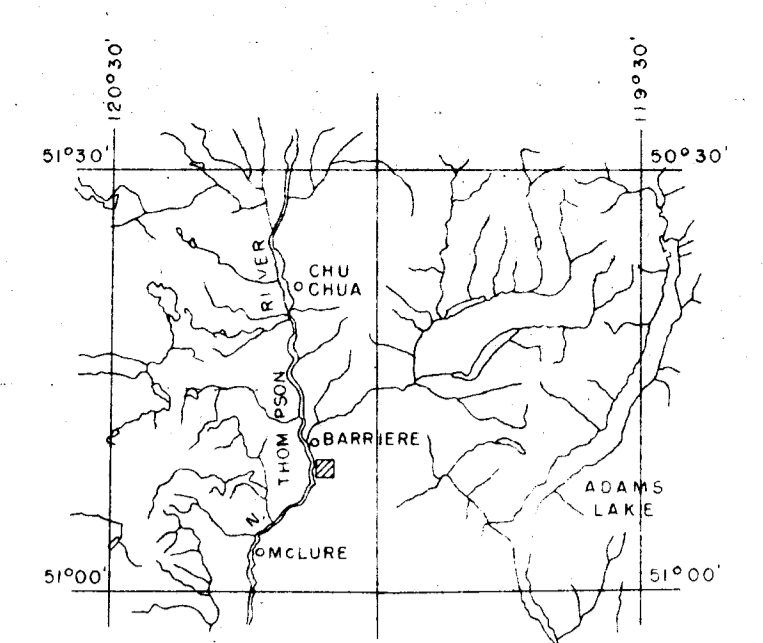


**7855**  
 MINERAL RECORDS BRANCH  
 ASSESSMENT REPORT

**CRAIGMONT MINES LIMITED**  
 KAMLOOPS, B. C.  
**92P/1-AM GROUP**  
**MAGNETIC SURVEY**

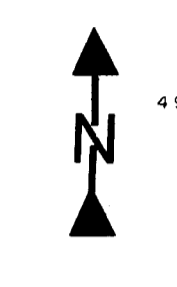
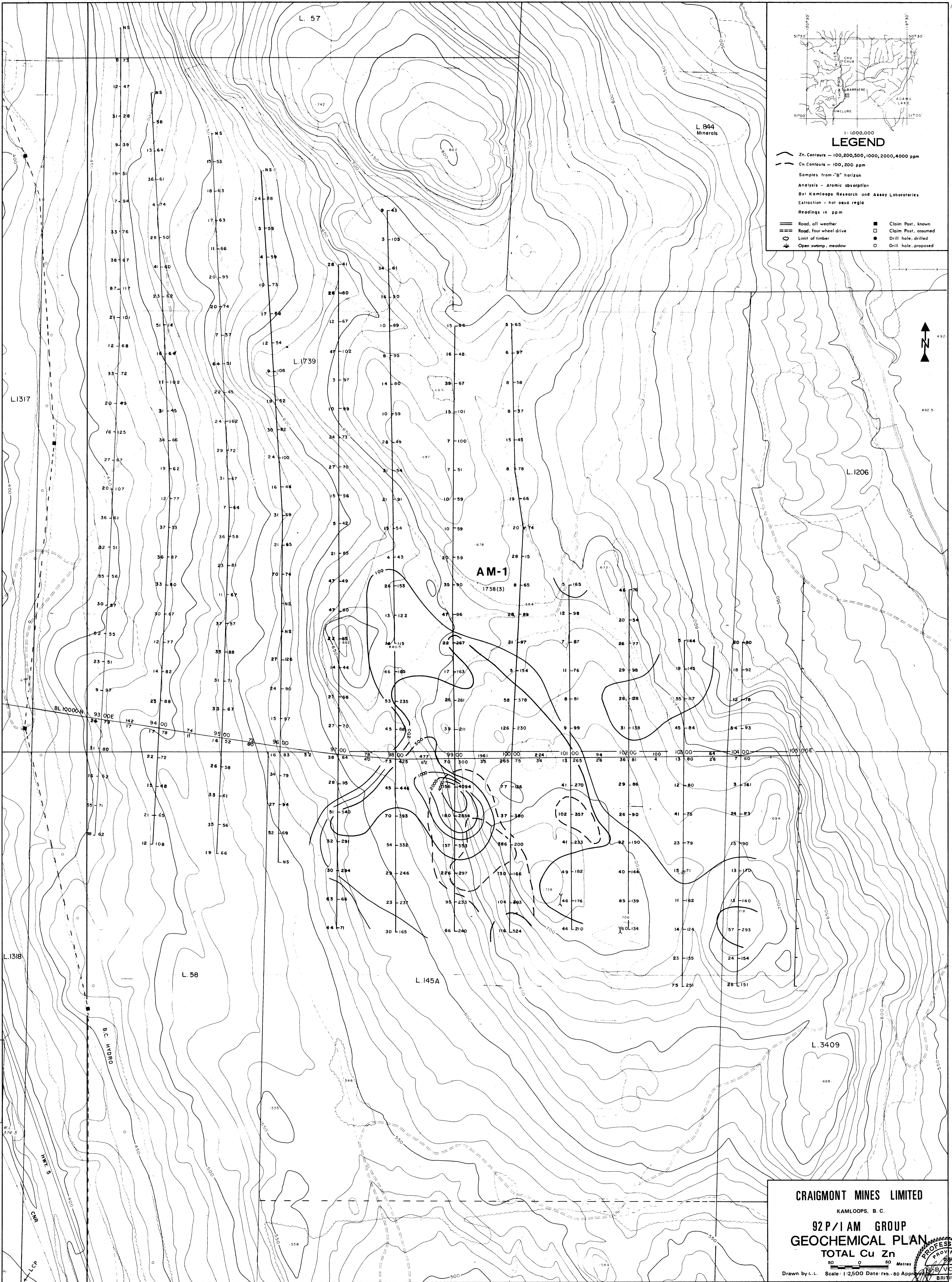
Scale: 1:2,500 Date: Feb. - 80  
 Drawn by: L. L.

**PROFESSIONAL ENGINEER**  
 OF  
 THE  
 PROVINCE OF  
 BRITISH COLUMBIA



1:1000,000  
**LEGEND**

- Zn. Contours - 100,200,500,1000,2000,4000 ppm
- Cu. Contours - 100,200 ppm
- Samples from "B" horizon
- Analysis - Atomic absorption
- By: Kamloops Research and Assay Laboratories
- Extraction - hot aqua regia
- Readings in ppm
- Road, all weather
- Road, four wheel drive
- Limit of timber
- Open swamp, meadow
- Claim Post, known
- Claim Post, assumed
- Drill hole, drilled
- Drill hole, proposed



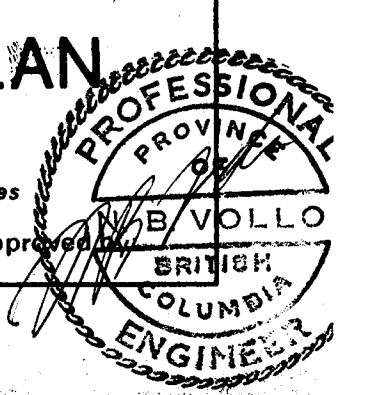
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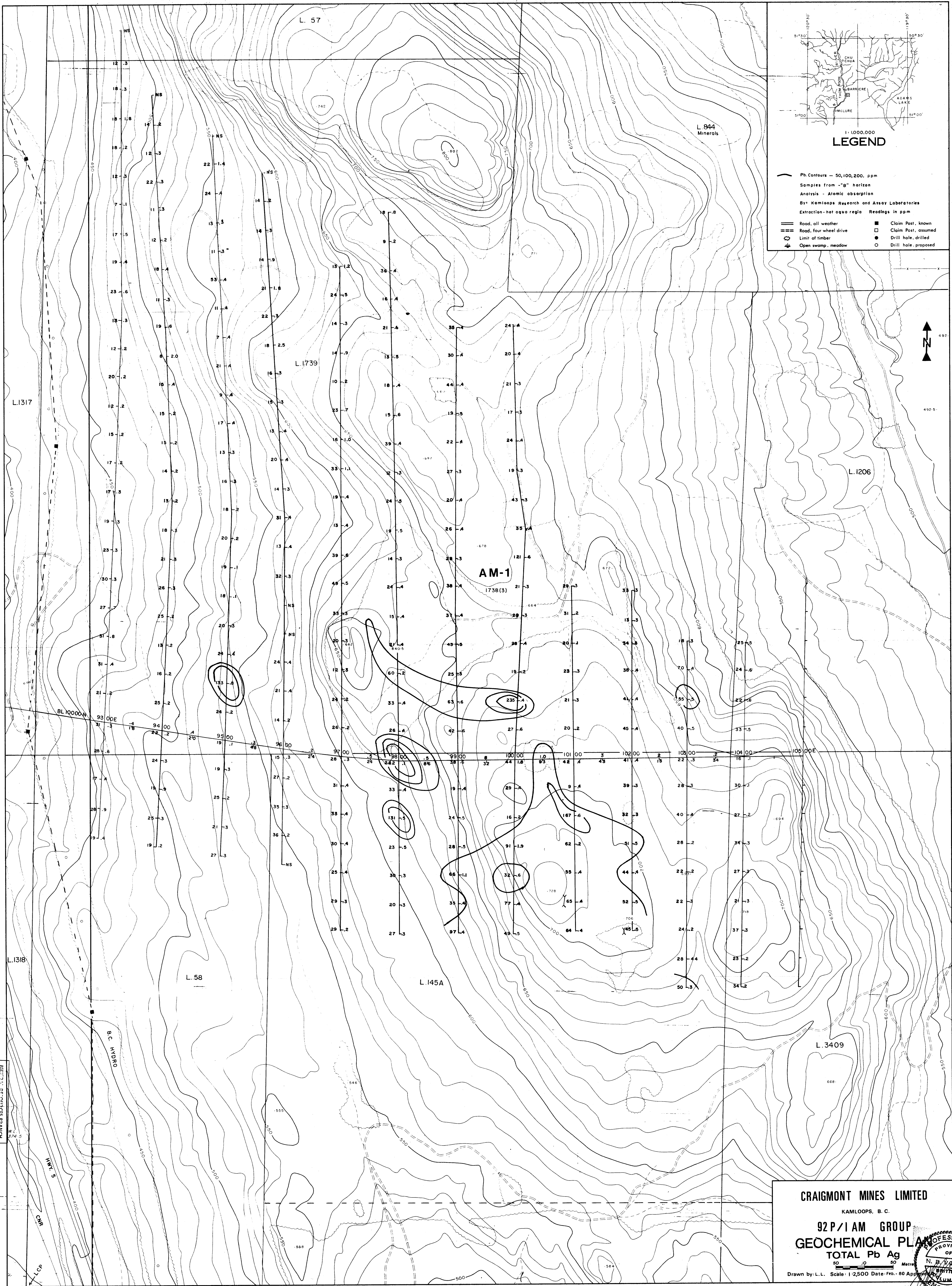
MINERAL INTERESTS PATCH  
AS PER PLAN REPORT

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

**92P/1 AM GROUP  
GEOCHEMICAL PLAN  
TOTAL Cu Zn**

Scale: 1:2,500 Date: Feb. - 80





1:1000,000  
**LEGEND**

Pb Contours - 50, 100, 200, ppm  
 Samples from "g" horizon  
 Analysis - Atomic absorption  
 By: Kamloops Research and Assay Laboratories  
 Extraction - hot aquo regia    Readings in ppm

	Road, all weather		Claim Post, known
	Road, four wheel drive		Claim Post, assumed
	Limit of timber		Drill hole, drilled
	Open swamp, meadow		Drill hole, proposed

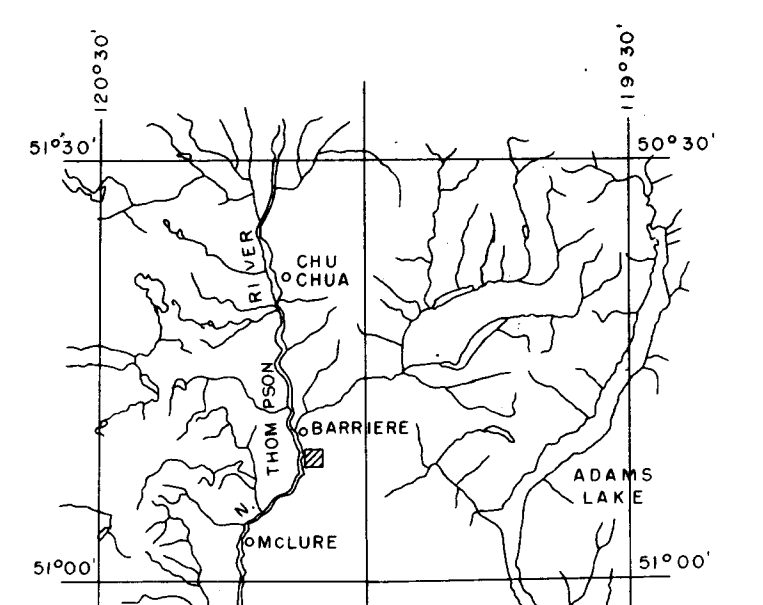
**7855**  
 MINERAL RESOURCES BRANCH  
 ASSAYMENT REPORT

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

**92P/1 AM GROUP**  
**GEOCHEMICAL PLAN**  
**TOTAL Pb Ag**

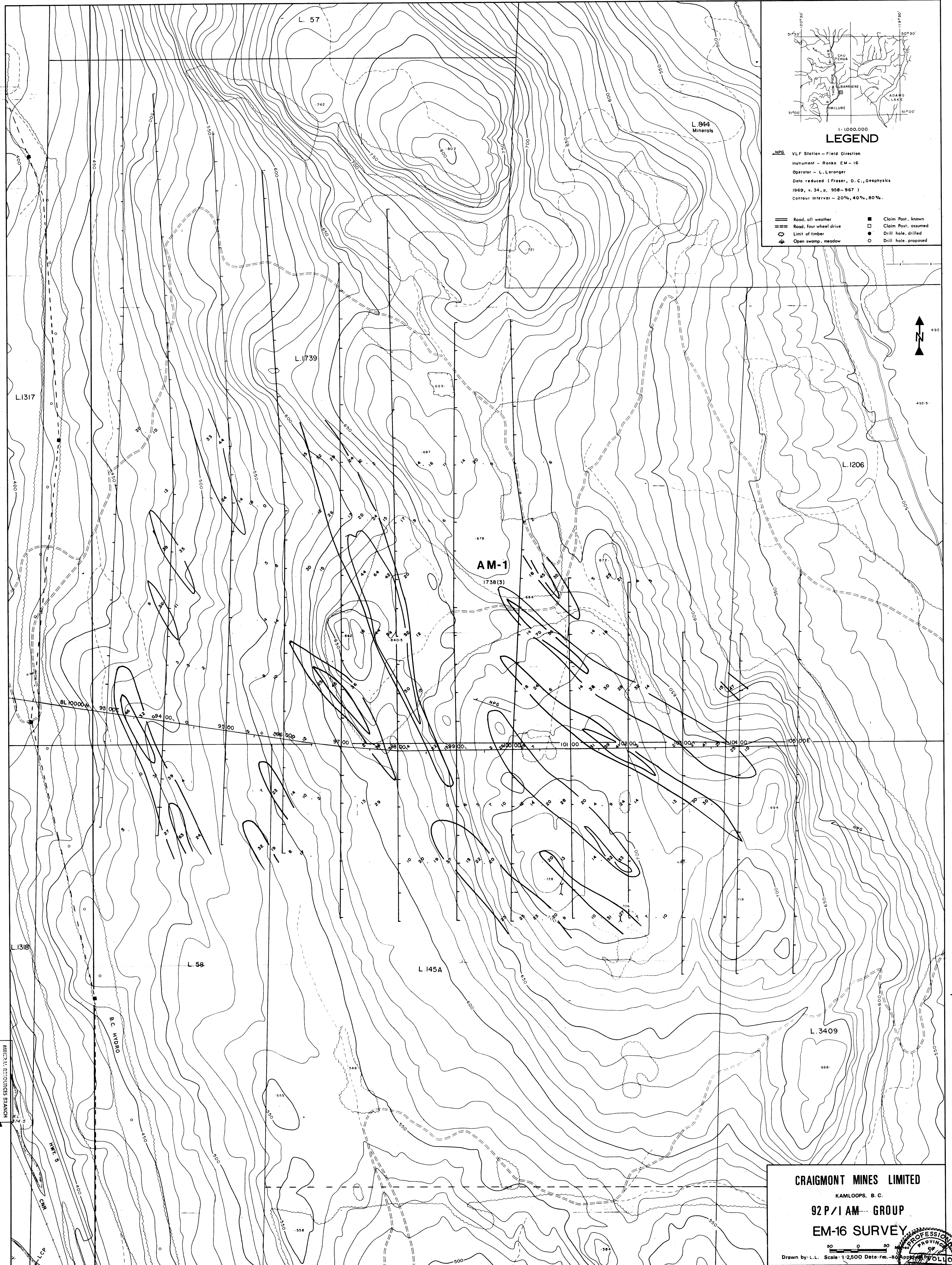
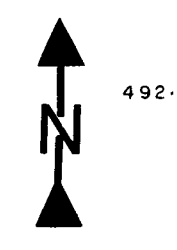
50 0 50 Metres  
 Drawn by L.L. Scale: 1:2,500 Date: Feb. 80 Approved: [Signature]  
**PROFESSIONAL ENGINEER**

92P/1 AM - 4



1:1000,000  
**LEGEND**

- NPG** VLF Station - Field Direction  
 Instrument - Ronko EM-16  
 Operator - L. Loranger  
 Data reduced (Fraser, D. C., Geophysics  
 1969, v. 34, p. 958-967)  
 Contour interval - 20%, 40%, 80%.
- |   |                        |   |                      |
|---|------------------------|---|----------------------|
| — | Road, all weather      | ■ | Claim Post, known    |
| — | Road, four wheel drive | □ | Claim Post, assumed  |
| ○ | Limit of timber        | ● | Drill hole, drilled  |
| ⊕ | Open swamp, meadow     | ○ | Drill hole, proposed |



**7855**  
 MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT

**CRAIGMONT MINES LIMITED**  
 KAMLOOPS, B. C.  
**92 P/1 AM - GROUP**  
**EM-16 SURVEY**

Scale: 1:2,500 Date: Feb.-80  
 Drawn by: L.L.