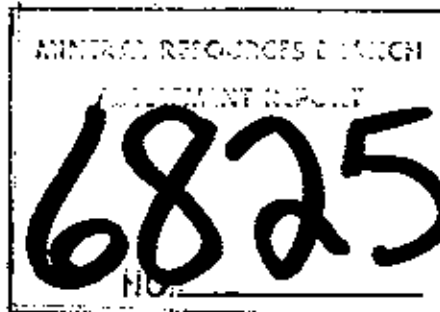


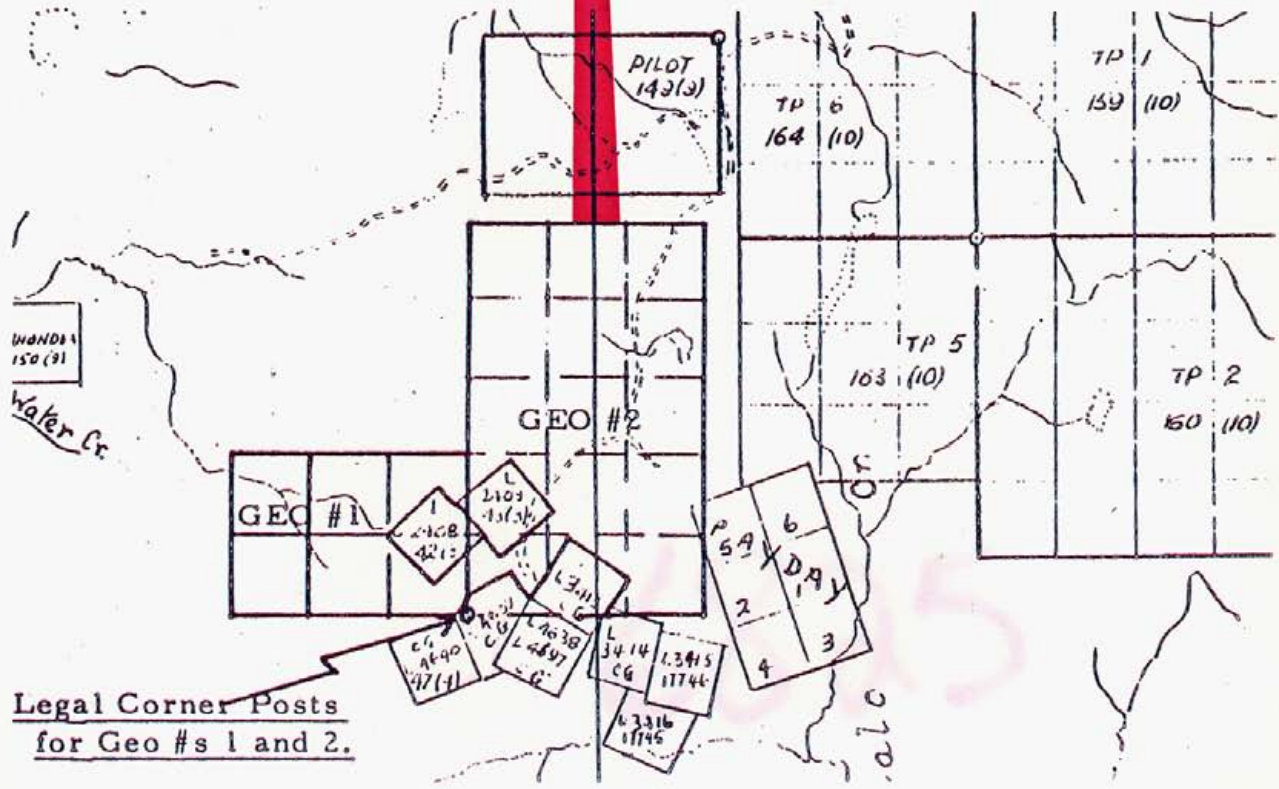
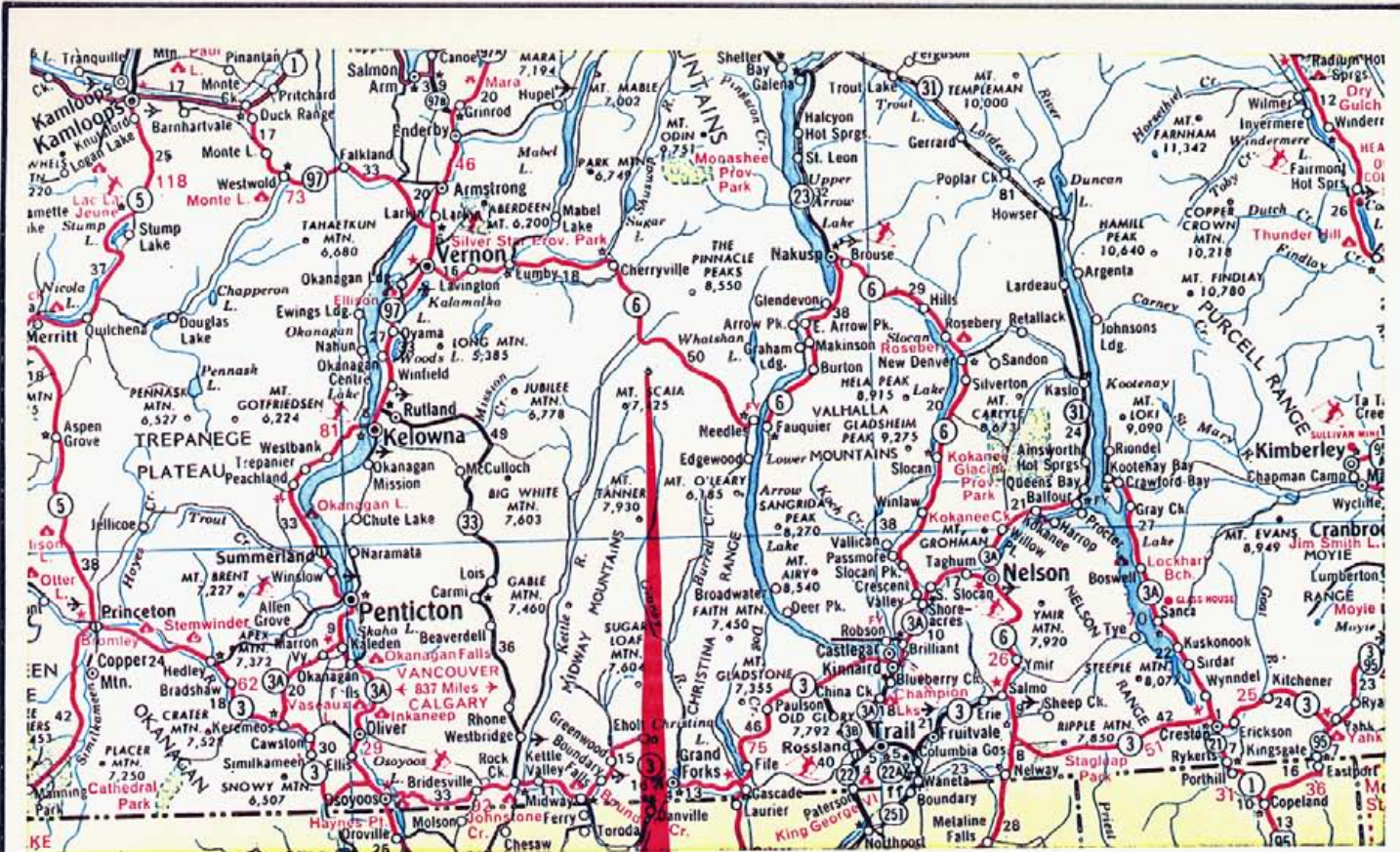
GEOCHEMICAL REPORT  
AMORE MINERALS INCORPORATED

Geo 1 and 2 mineral claims, Vernon  
Mining Division, B. C. Lat. 49°47'N  
Long. 118°30'W N.T.S. 82 E/15

54 N

AUTHOR: Glen E. White, B.Sc., P. Eng.  
DATE OF WORK: July 6 - 13, 1978  
DATE OF REPORT: August 8, 1978





**AMORE MINERALS INC.**  
**LOCATION AND CLAIM MAP**

*Glenn & White*  
 geophysical consulting  
 3  
 000000 Ltd

SCALE 1" = 40 MILES

FIG 1

## INTRODUCTION

During the month of July 1978 from the 6th to the 13th, a program of linecutting and soil sampling was conducted over a portion of the Geo 2 mineral claim by Glen E. White Geophysical Consulting & Services Ltd. on behalf of Amore Minerals Incorporated.

The program was conducted as a follow-up to the report on the Geo 1 and Geo 2 mineral claims by J. B. Paul Sawyer, P. Eng., dated July 22, 1977. As recommended in his report, a section of the old International Mine surveys grid near Horseshoe Lake which reportedly had some anomalous geochemical values was re-gridded and soil sampled.

## PROPERTY

The property consists of the Geo 1 and Geo 2 mineral claims comprising 21 contiguous units as illustrated on Figure 1.

## LOCATION AND ACCESS

The mineral claims are located midway between Lightning Peak and Galloping Mountain, some 15 miles due west of Needles on the Lower Arrow Lake, Latitude 49°56'N, Longitude 118°29'W, N.T.S. 82 E/15, Vernon Mining Division, B. C.

## C O N T E N T S

	<u>PAGE</u>
Introduction.....	1
Property.....	1
Location and Access.....	1 - 2
General Geology.....	2
Survey Specifications	
(a) Survey Grid.....	2 - 3
(b) Geochemical Survey.....	3
Discussion of Results.....	3 - 5
Conclusion and Recommendations.....	5
Statement of Qualifications.....	6
Cost Breakdown.....	7

### Illustrations

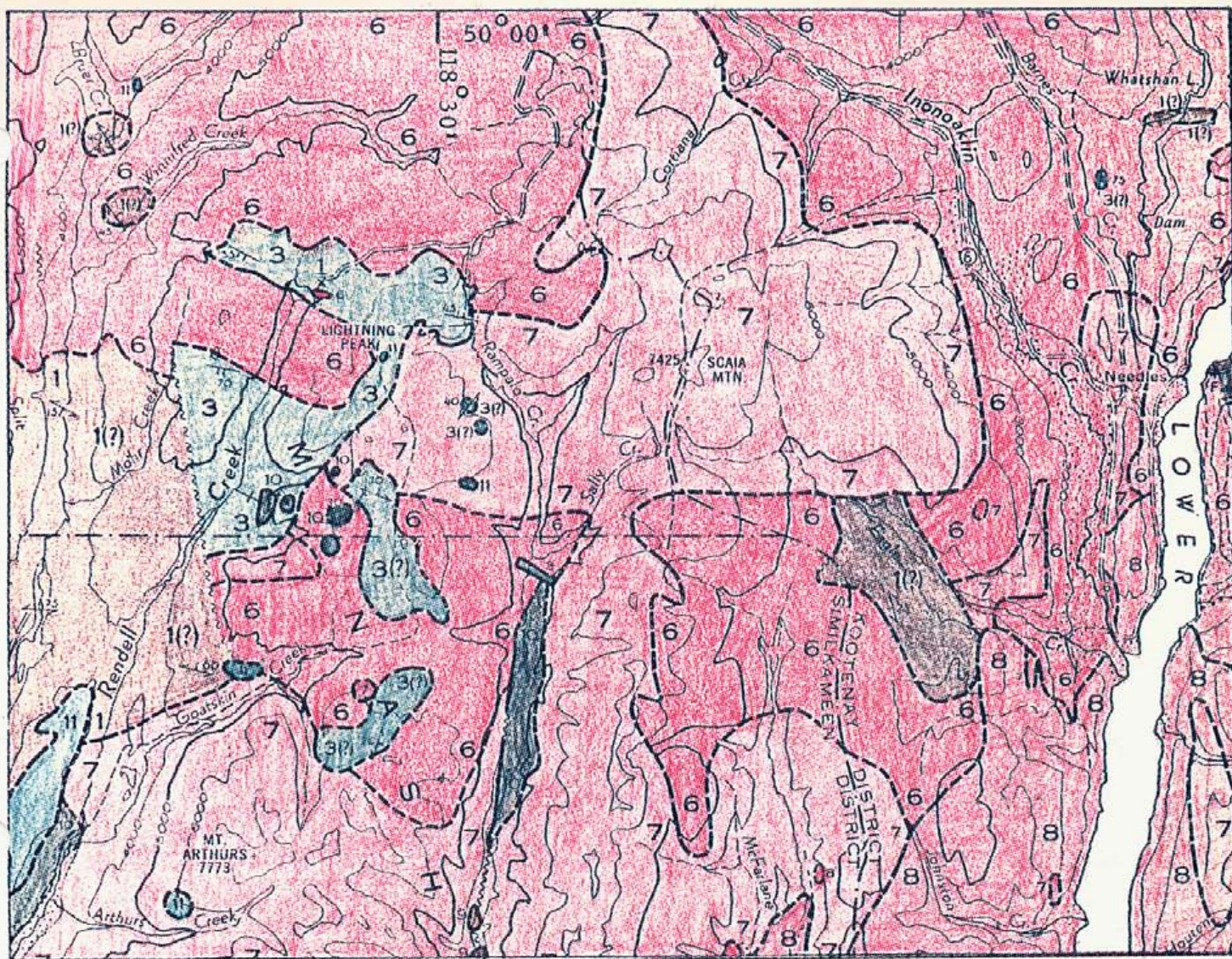
#### Plate 1 - General Geology

Figure 1 - Geochemical Map - Copper p.p.m.

" 2 - " " - Lead p.p.m.

" 3 - " " - Silver p.p.m.

" 4 - " " - Zinc p.p.m.



**TERTIARY**

**11**

**PALAEOCENE or EOCENE**

**10**

Phoenix Volcanic Group

Andesite, trachyte; minor tuff, shale.

**9**

Kettle River Formation

Rhyolite & dacite flows & tuffs, etc.

**PALAEOCENE**

**8**

Coryell Intrusions - Syenite, monzonite, shonkinite, and granite.

**LOWER CRETACEOUS?**

**7**

Valhalla Intrusions - granite, porphyritic granite.

**6**

Nelson Intrusions - granodiorite, diorite, porphyritic granite, monzonite, quartz monzonite.

**PERMIAN?**

**3**

Anarchist Group - greenstone, greywacke, limestone, paragneiss.

**PROTEROZOIC?**

**1**

Monashee and Grand Forks Groups - paragneiss, minor crystalline limestone, pegmatite.

Part of Map 6-1957 by H. W. Little

Scale: 1" - 4 miles. NTS Ref. 82E.

**GEOLOGY OF LIGHTNING PEAK AREA**  
Vernon Mining Division, B. C.

Access to the property is by unimproved bush road from Highway #6, some 23 miles east of Cherryville, a gas station with the last telephone along the road over the Monashee Mountains.

### GENERAL GEOLOGY

The area of the mineral claims is shown on Geology Map 6-1957, East Half, Kettle River, B.C., to be underlain by rocks of the Anarchist Group of probable Permian age which have been intruded by the Nelson and Valhalla plutonic rocks. The Anarchist Group consists variously of greenstone, greywacke, limestone and paragneiss. Both the Nelson and Valhalla intrusions are granitic in nature. Mineralization in the area of the Geo claims appears to be contact metasomatic or "skarn" type deposits containing magnetite, pyrite, pyrrhotite, sphalerite, chalcopyrite and argentiferous galena with a trace of gold.

### SURVEY SPECIFICATIONS

#### Survey Grid

The survey grid was established on a reported area of interest northward from the old Crown Grant mineral claims. Survey lines were cut in an east-west direction every 120 m from a north-south baseline.

Soil samples were obtained at 30 m intervals along the lines. Some 15 km of survey grid was established and sampled.

#### Geochemical Survey

Soil samples of the upper "B" horizon were taken along the traverse lines at 30 m intervals. The soil samples were then placed in soil envelopes provided by Chemex Labs Ltd. of North Vancouver, B. C. The samples were delivered to the above lab where -80 mesh sieving, digestion by hot perchloric/nitric acid and analysis by atomic absorption were carried out under the supervision of professional geochemists. 502 samples were obtained and analysed for p.p.m. copper, lead, silver and zinc.

#### DISCUSSION OF RESULTS

The copper, lead, silver and zinc geochemical data are illustrated on Figures 2 - 5 respectively.

Figure 2, which illustrates the copper geochemical results, shows several broad above background trends along the west side of the survey area. A single value high of 122 p.p.m. was detected on line 3 / 60 S at 3 / 90 W.

The lead geochemical values shown on Figure 3 have been corrected at the laboratory for inter-element interference and thus show a very low background of some 8 p.p.m. A NW trend of weakly anomalous values was detected just west of Horseshoe Lake. A cluster of above background values with no apparent relationship occur in the extreme SE corner of the survey grid.

The corrected silver values are illustrated on Figure 4. A number of weakly anomalous values were obtained in the southern section of the survey grid particularly in the SE corner where a high of 2.8 p.p.m. silver was detected at 2 / 10 W on line 3 / 60 S.

The zinc geochemical map, Figure 5, did not detect any strongly anomalous values. However, zinc is a geochemically mobile element and in this case shows a number of weakly anomalous trends which correlate well with the copper, lead and silver data. The SE corner shows as weakly anomalous with a northerly trend up the eastern boundary of the survey grid which is similar to the copper data, and a northwesterly trend which correlates with the lead data just west of Horseshoe Lake. These weakly anomalous geochemical trends likely reflect

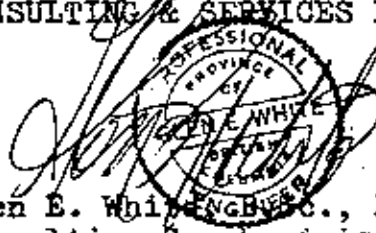


the underlying lithology. However, a definite coincidence of anomalous silver, lead and zinc geochemical values occurs at 2 / 10E on Line 3 / 60S.

#### CONCLUSION AND RECOMMENDATIONS

A program of linecutting and soil sampling was conducted over a portion of the Geo 2 mineral claim Lightning Peak area B. C. on behalf of Amore Minerals Incorporated. The soil sampling program delineated an area of weakly anomalous geochemical values in the southeast corner of the survey grid. Within this zone a coincidence of anomalous lead, zinc and silver values at 2 / 10E on line 3 / 60S would possibly indicate a weakly mineralized vein of sphalerite and galena mineralization. The significance of this anomaly may best be evaluated by determining the underlying lithology and depth of overburden.

Respectfully submitted,  
 GLEN E. WHITE GEOPHYSICAL  
 CONSULTING & SERVICES LTD.



Glen E. White, P. Eng.  
 Consulting Geophysicist

STATEMENT OF QUALIFICATIONS

Name: WHITE, Glen E.

Profession: Geophysicist

Education: B.Sc. Geophysics - Geology  
University of British Columbia

Professional Associations: Associate member of Society of Exploration Geophysicists.

President of B. C. Society of Mining Geophysicists

Experience: Pre-Graduate experience in Geology - Geochemistry - Geophysics with Anaconda American Brass.

Two years Mining Geophysicist with Sulmac Explorations Ltd. and Airborne Geophysics with Spartan Air Services Ltd.

One year Mining Geophysicist and Technical Sales Manager in the Pacific north-west for W. P. McGill and Associates.

Two years Mining Geophysicist and supervisor Airborne and Ground Geophysical Divisions with Geo-X Surveys Ltd.

Two years Chief Geophysicist Tri-Con Exploration Surveys Ltd.

Seven years Consulting Geophysicist.

Active experience in all Geologic provinces of Canada.

Professional Engineer registered in the Province of British Columbia.

COST BREAKDOWN

<u>Personnel</u>	<u>Date</u>	<u>Wages</u>	<u>Total</u>
J. Miller.....	July 6-13/78....	\$70/day....	\$560.00
G. Steblin.....	"....."	60/day....	480.00
K. Fitzpatrick.....	"....."	60/day....	480.00
Meals and Accomodations.....			350.00
Vehicle including gas.....			280.00
Materials.....			30.00
Geochemical analysis - 502 samples.....			1672.00
Interpretation and report.....			850.00
Total.....			3450.00



118°30'

4+80W

3+60W

2+40W

1+20W

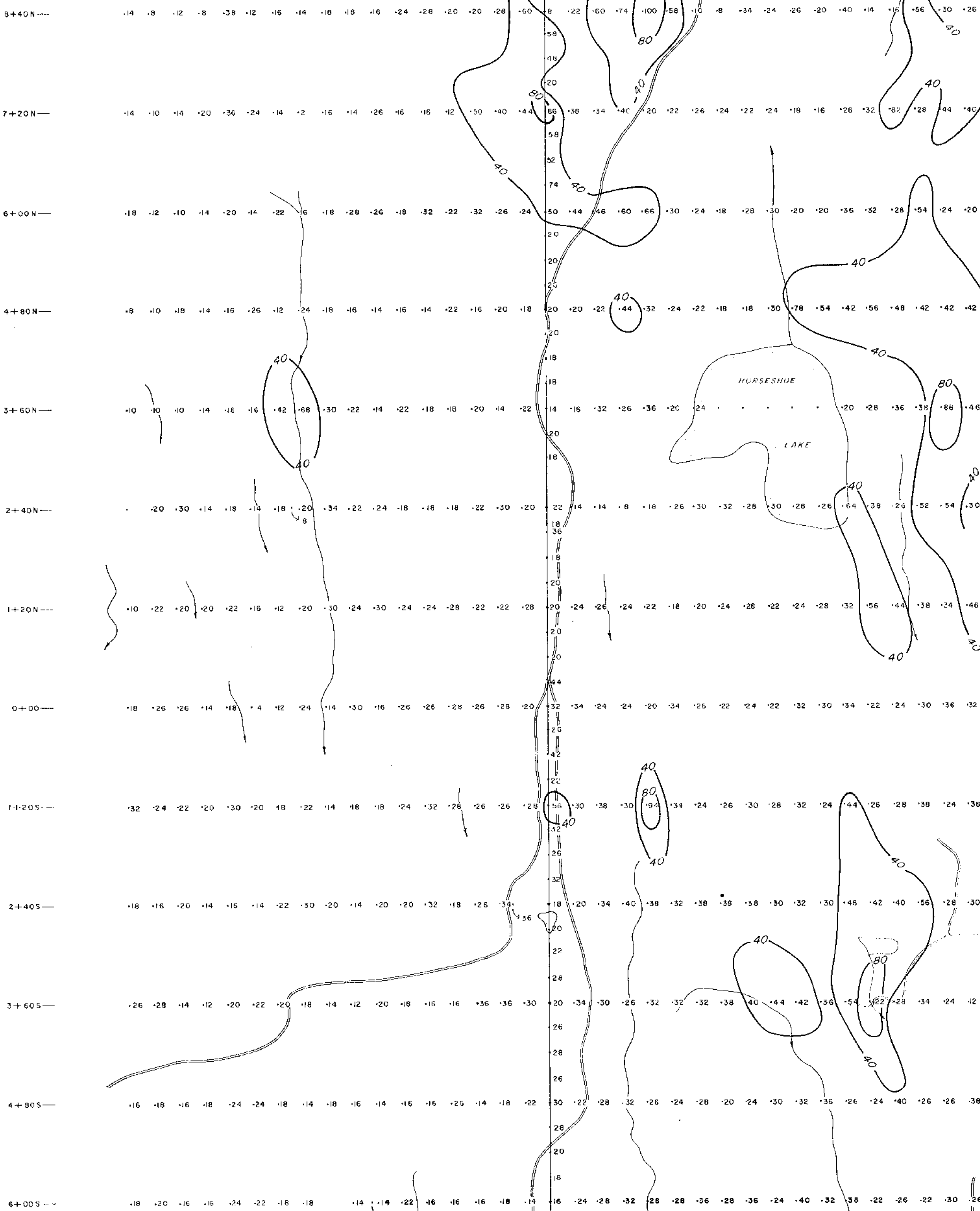
0+00 BASE LINE

1+20E

2+40E

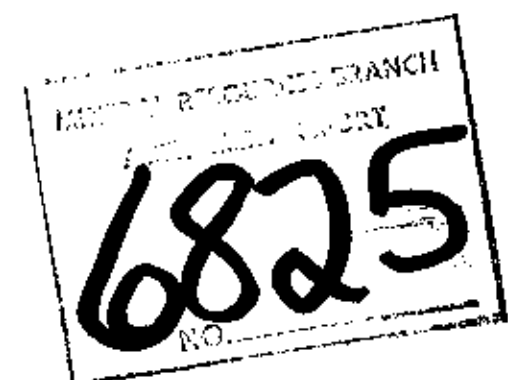
3+60E

4+80E

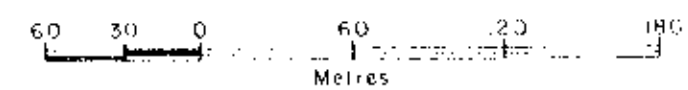
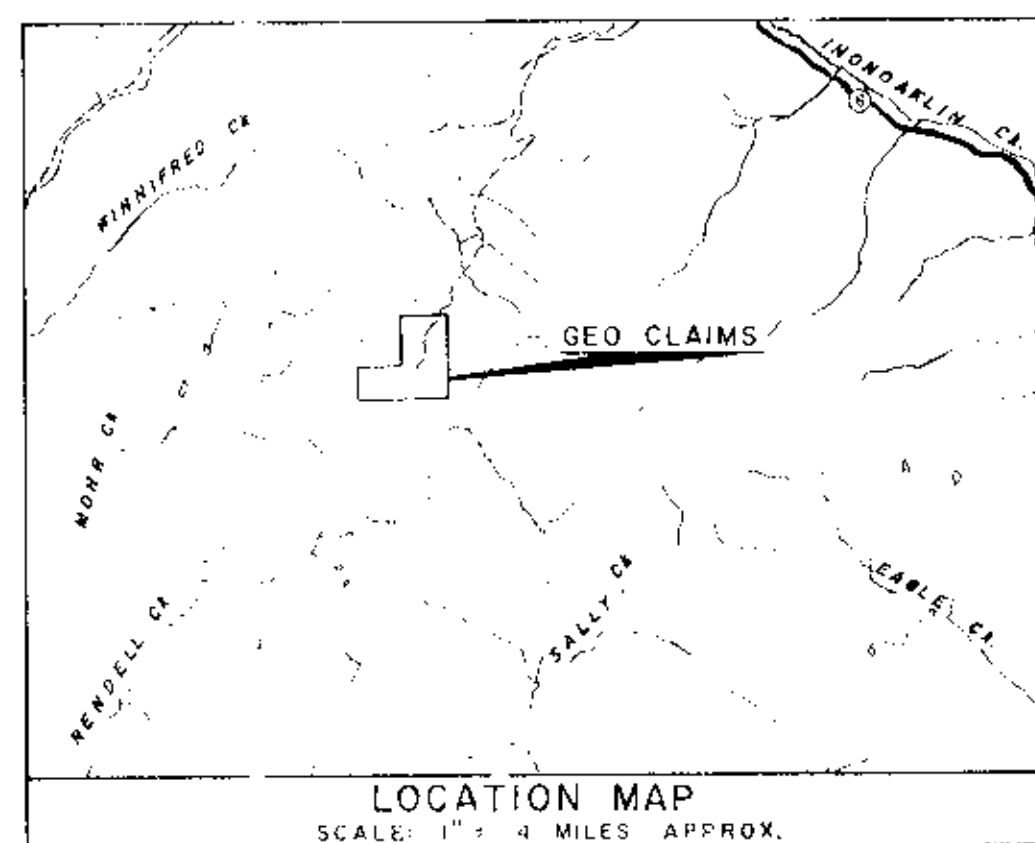
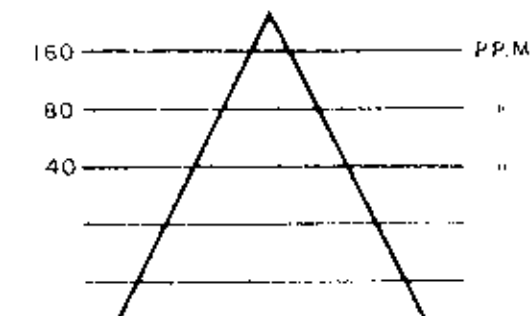


LEGEND

- Contour Line Contour Interval 40,80,160 PPM.
- Stations
- Outline of Claims
- Claim Posts
- Unpaved Roads



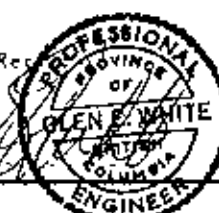
COPPER KEY



N.T.S. 82 E/15

<b>AMORE MINERALS INCORPORATED</b>	
GEO CLAIMS	
VERNON MINING DIVISION — BRITISH COLUMBIA	
GEOCHEMICAL MAP	
COPPER P.P.M.	
<i>Glen E. White</i> geophysical consulting services Ltd.	INTERPRETED BY: G.E.W. DRAWN BY: T.M. CHECKED BY: DATE: JULY 1978 FIG No: 2

To Accompany Geochemical Report  
 THE GEO CLAIMS  
 Date: *Aug 27, 1978*  
 By: G.E.W. & S.W.



118°30'

4+80W

3+60W

2+40W

1+20W

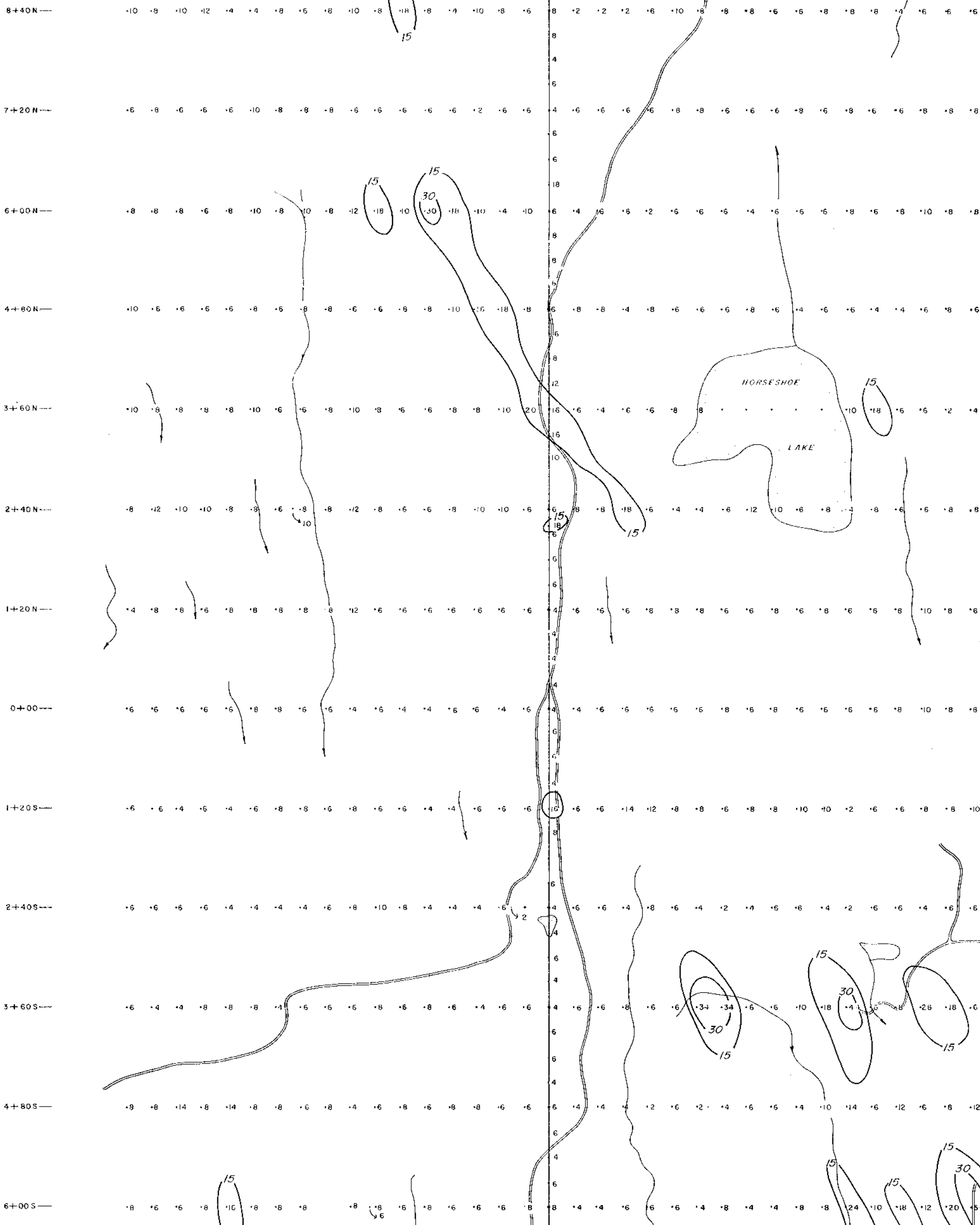
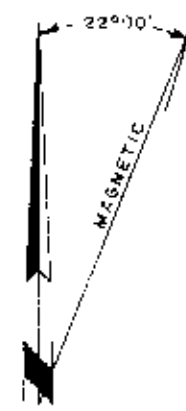
0+00 BASE LINE

1+20E

2+40E

3+60E

4+80E

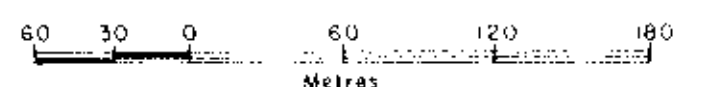
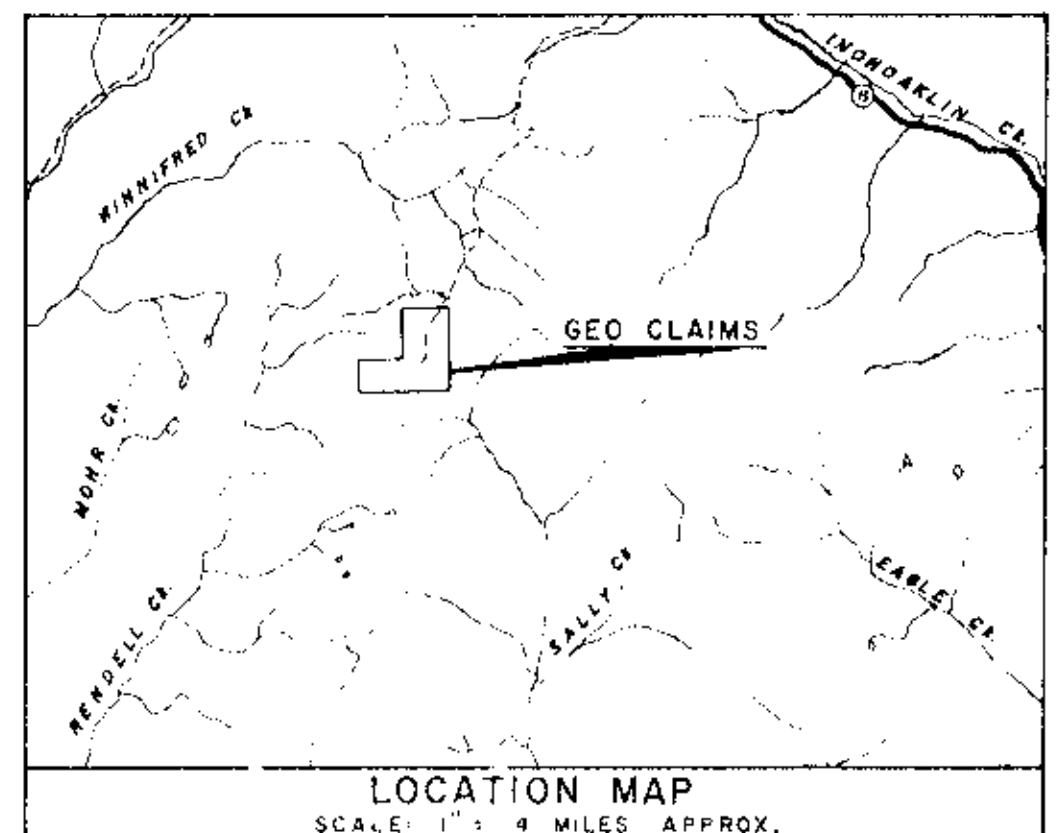


LEGEND

- Contour Line, Contour Interval 15, 30, 60 P.P.M.
- Stations
- Outline of Claims
- Claim Posts
- Unpaved Roads

6825

LEAD KEY



N.T.S. 82 E/15

**AMORE MINERALS INCORPORATED**  
 GEO CLAIMS  
 VERNON MINING DIVISION - BRITISH COLUMBIA  
 GEOCHEMICAL MAP  
 LEAD P.P.M.  
 (Corrected)

*Glen E. White*  
 geophysical consulting  
 services Ltd.

INTERPRETED BY: G.E.W.  
 DRAWN BY: T.M.  
 CHECKED BY:  
 DATE: JULY, 1978  
 FIG. No. 3

To Accompany Geochemical  
 THE GEO CLAIMS  
 Date: *July 1978*  
 By: GLEN E. WHITE & SONS



118°30'

4+80W

3+60W

2+40W

1+20W

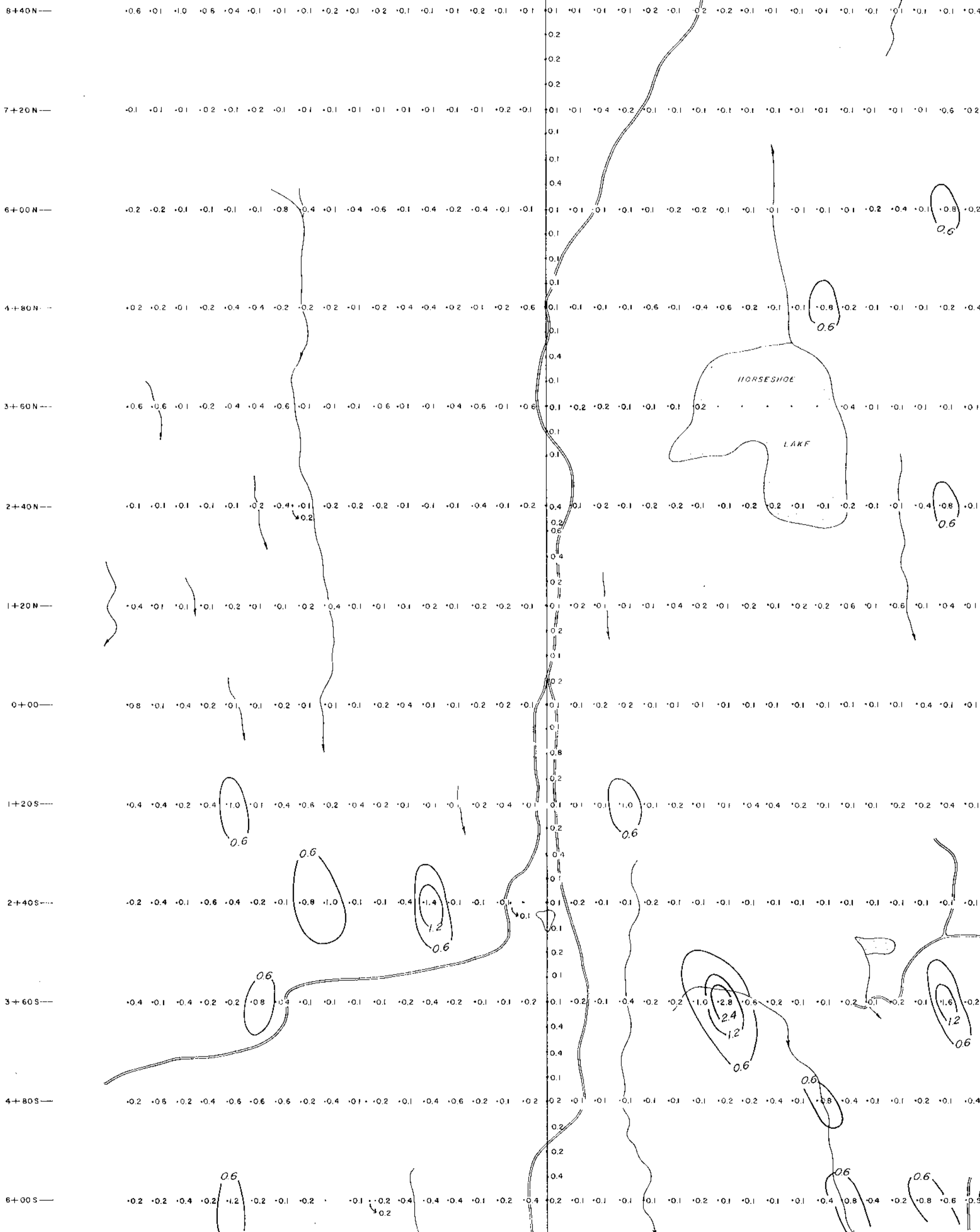
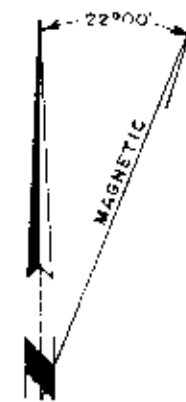
0+00 BASE LINE

1+20E

2+40E

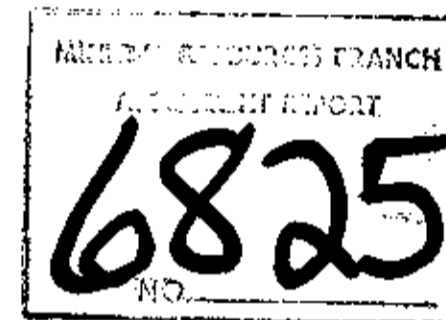
3+60E

4+80E

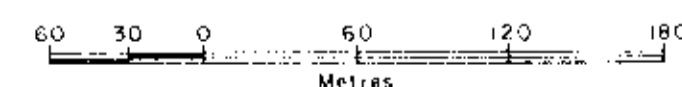
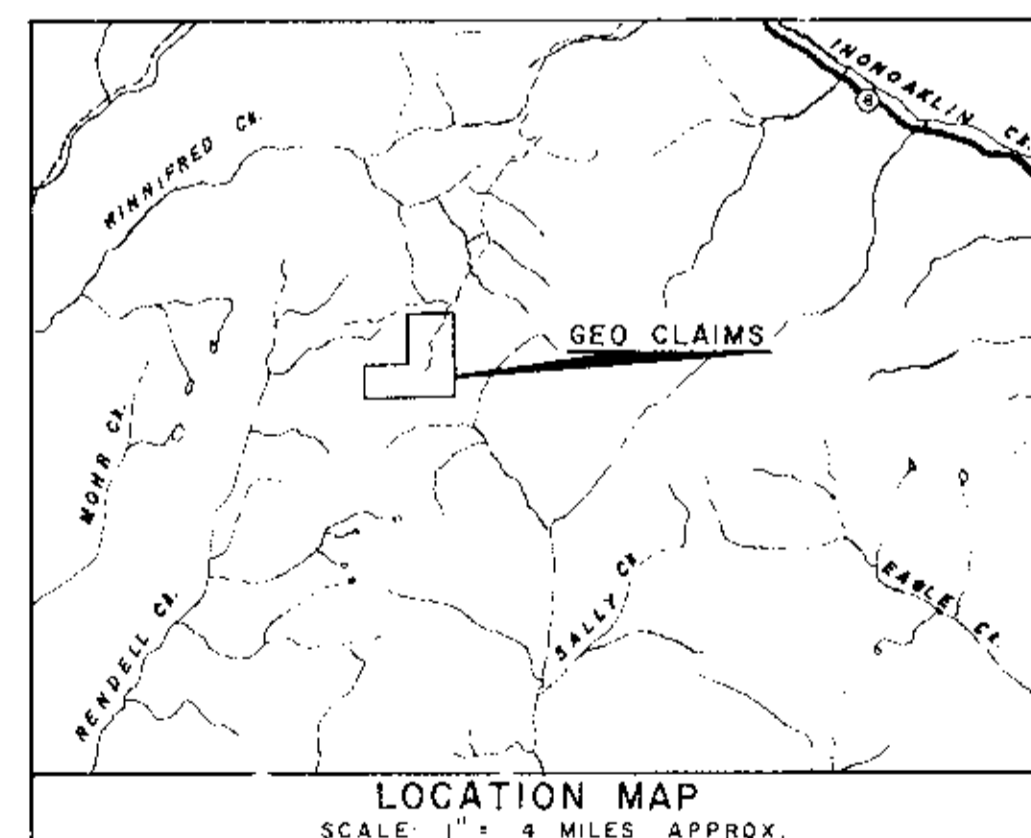


LEGEND

- Contour line Contour Interval 0.6, 1.2, 2.4, 4.8 PPM
- Stations
- Outline of Claims
- Claim Posts
- Unpaved Roads



SILVER KEY



N.T.S. 82 E/15

**AMORE MINERALS INCORPORATED**  
 GEO CLAIMS  
 VERNON MINING DIVISION — BRITISH COLUMBIA  
 GEOCHEMICAL MAP  
 SILVER P.P.M.  
 (Corrected)

*Glen C. White*  
 geophysical consulting  
 services Ltd.

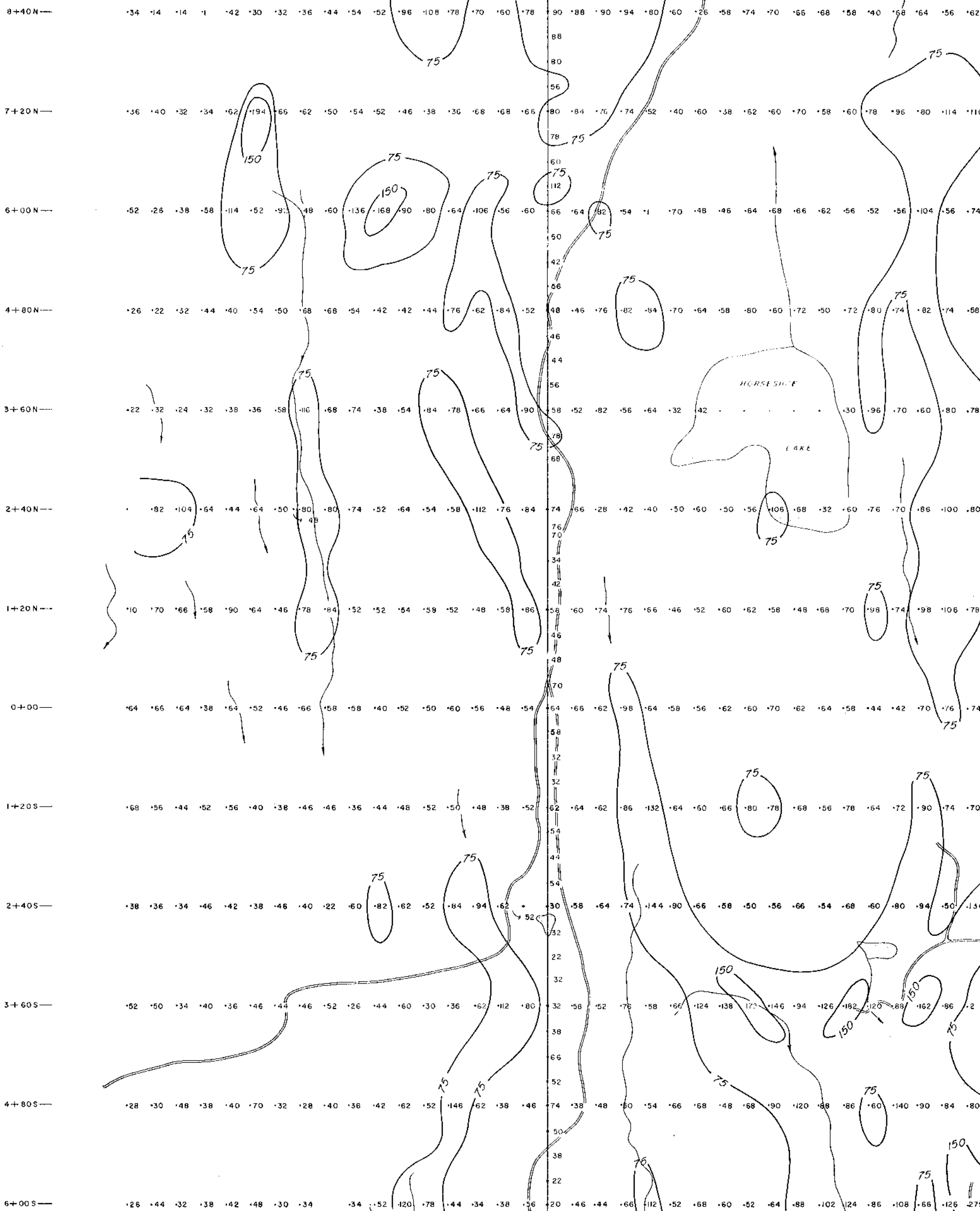
INTERPRETED BY: G.E.W.  
 DRAWN BY: T.M.  
 CHECKED BY:  
 DATE: JULY, 1978  
 FIG. No: 4

To Accompany Geochemical  
 THE GEO CLAIMS  
 Date: *July 1978*  
 By: GLEN E. WHITE



116°30'

4+80W 3+60W 2+40W 1+20W 0+00 BASE LINE 1+20E 2+40E 3+60E 4+80E

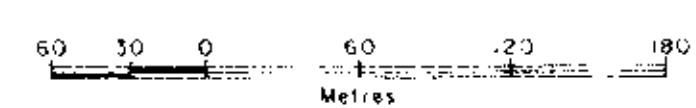
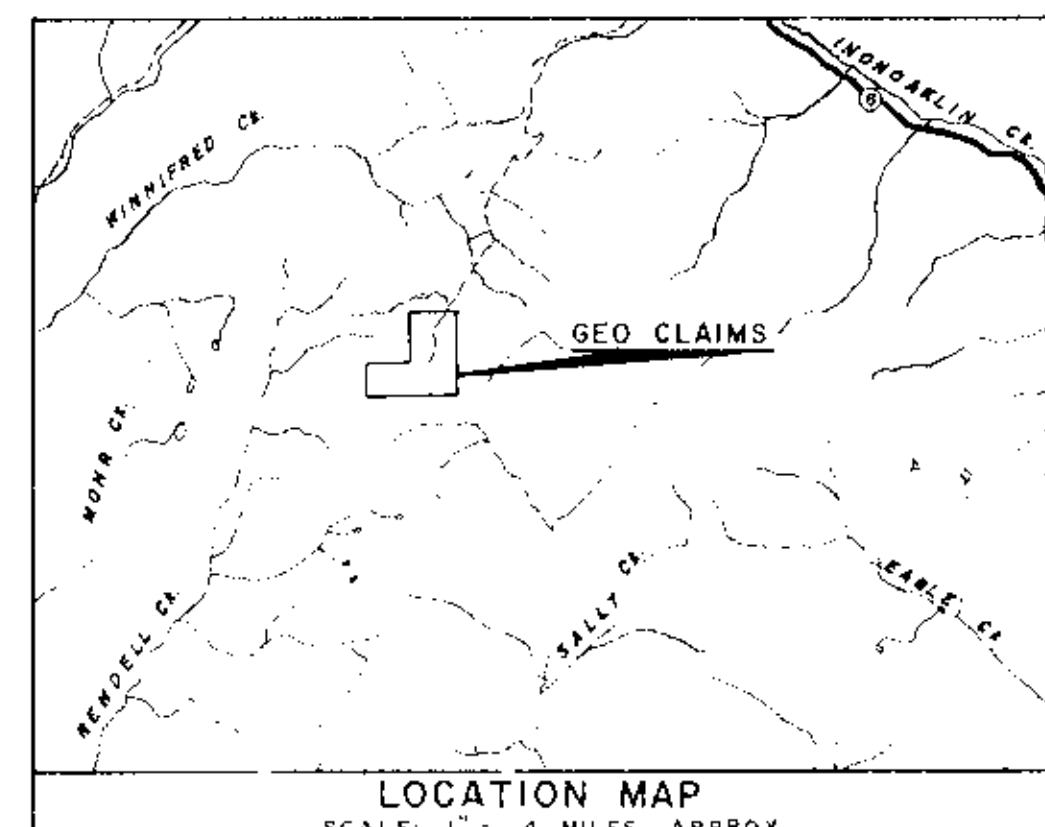
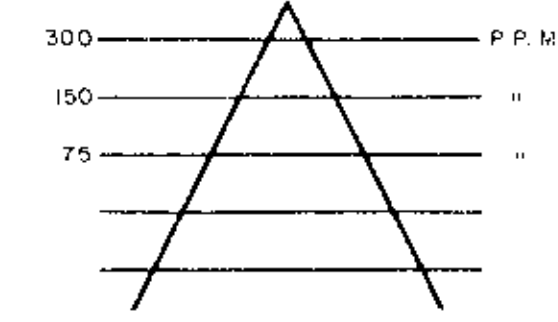


LEGEND

- Contour Line Contour Interval 75, 150, 300 P.P.M.
- Stations
- Outline of Claims
- Claim Posts
- Unpaved Roads

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**6825**

ZINC KEY



N.T.S. 82 E/15

**AMORE MINERALS INCORPORATED**

GEO CLAIMS

VERNON MINING DIVISION — BRITISH COLUMBIA

GEOCHEMICAL MAP

ZINC P.P.M.

Glen E. White geophysical consulting services Ltd.	INTERPRETED BY: G.E.W.
	DRAWN BY: T.W.
	CHECKED BY:
	DATE: JULY, 1978

FIG No: 5

To Accompany Geochemical  
THE GEO CLAIMS  
Date: July 1978  
By: GLEN E. WHITE - B.Sc.  
PROFESSIONAL  
GLEN E. WHITE  
BRITISH COLUMBIA  
ENGINEER