

2986

Department of  
Mineral and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2986 MAP

GEOCHEMICAL REPORT

on the

ER 1-8 MINERAL CLAIMS

Located at Trehearn Creek

SIMILKAMEEN M.D.

92 H / 9W

by

J. H. Montgomery, Ph.D., P.Eng.

Work done between June 1, 1970 and October 1, 1970

December 1, 1970

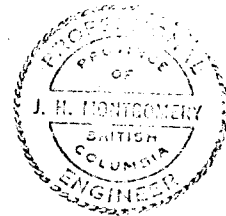


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INTRODUCTION

The following report is a record of the work done on the ER claims during the period June 1, 1970 to October 31, 1970.

LOCATION AND ACCESS

The property is located at the headwaters of Trehearn Creek about 14 miles north of Princeton, B.C. and 4 miles north-west of Erris, B.C. (N.T.S. Ref. 92H; Lat. 49°37' N, Long. 120°28' W). See Figure 1. Access is by foot from Erris, a distance of 4 miles.

PROPERTY AND OWNERSHIP

The ER group of claims consists of 8 mineral claims, ER 1-8, located in Similkameen Mining Division. Claim information is recorded in the following table:

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
ER 1-8	26706-713	Dec. 1, 1971

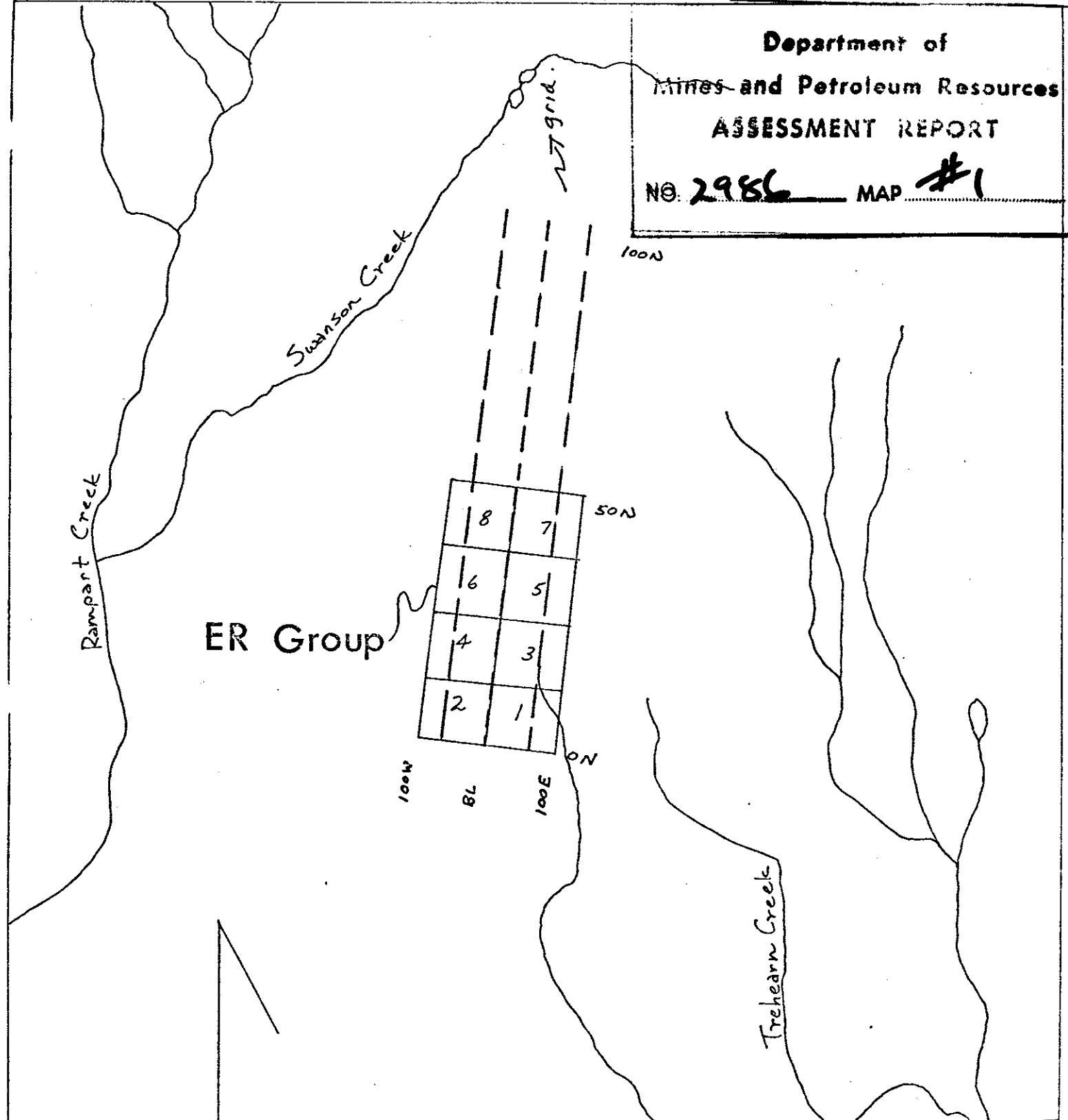
The claims are all owned by J. H. Montgomery.

STATEMENT OF COST

<u>Name</u>	<u>No. of Days</u>	<u>Cost</u>
Victor Mukans	12/6 - 14/6 (3) \$30.00/day	\$ 90.00
Ken Hall	12/6 - 14/6 (3) \$25.00/day	75.00
W. Foster	12/6 - 14/6 (3) \$25.00/day	<u>75.00</u>
	Sub Total	\$240.00

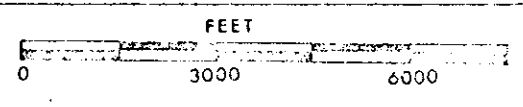
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### Claim Map

ERRIS PROJECT



To accompany geochronology  
report by J.H. Montgomery  
dated Dec. 1, 1970

DFS Dec 1, 1970 Fig. 1

STATEMENT OF COST (cont.)

		<u>Cost</u>
Total from Page 1		\$ 240.00
<u>Name</u>	<u>No. of Days</u>	
C. Hallwood	12/6 - 14/6 (3) \$25.00/day	75.00
D. Symonds	14/10- 15/10 (2) \$30.00/day	60.00
W. Foster	14/10- 15/10 (2) \$25.00/day	50.00
J. H. Montgomery	14/7, 2/11, 3/11 (3) \$ 168/day	504.00
Board Loss	19 man-days @ \$10.00	190.00
Geochemical analyses		
	(a) Soils - 84 @ \$2.70	226.80
	(b) Vegetation - 106 @ \$4.00	424.00
Transportation - 4 Wheel Drive Truck Rental		<u>207.20</u>
TOTAL		\$1977.00

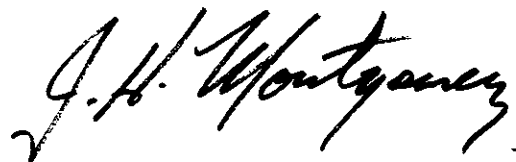
QUALIFICATIONS OF OPERATORS

Party Chief Victor Mukans has over 16 years experience in all types of mining exploration. He has worked for the writer since 1967 and is thoroughly conversant with geochemical and biogeochemical surveys.

Party Chief Douglas Symonds is a third year Geological Engineering student and is also well experienced in geochemical surveys.

He has worked for the writer since 1965.

Declared before me at the City  
of Vancouver, in the  
Province of British Columbia, this 22nd  
day of April, 1971, A.D.



A. Goussotte  
A Commissioner for taking Affidavits within British Columbia or  
for the Province of British Columbia.

Sub-mining Recorder

The other operators are students who were trained to take soil and vegetation samples and who worked under the supervision of Symonds or Mukans.

#### GEOCHEMICAL SURVEY

A total of 84 soil samples and 106 vegetation samples were taken on the survey. All samples were analyzed in the laboratory for copper, zinc and molybdenum.

##### (a) Field Procedure-Soils

Soil samples were taken at 400 feet intervals along lines spaced 1000 feet apart as shown in Figure 1. The samples were all taken from a poorly developed B horizon at depths of 6 to 16 inches. They were collected in kraft envelopes designed for the purpose. Data regarding location and depth of sample were noted. The samples were air dried and shipped to Bondar-Clegg for analysis.

##### (b) Field Procedure-Vegetation

Samples of second year growth conifers (mainly balsam and lodgepole pine) were taken at 400 feet intervals along lines spaced 1000 feet apart. The samples were collected in kraft envelopes designed for the purpose. Data regarding location, species and size were noted. The samples were air dried and shipped to Bondar-Clegg for analysis.

(c) Analytical Procedures

Soil samples were dried and sieved and the -80 mesh fraction retained for analysis. A hot aqua regia extraction was used and the metal contents determined by atomic absorption.

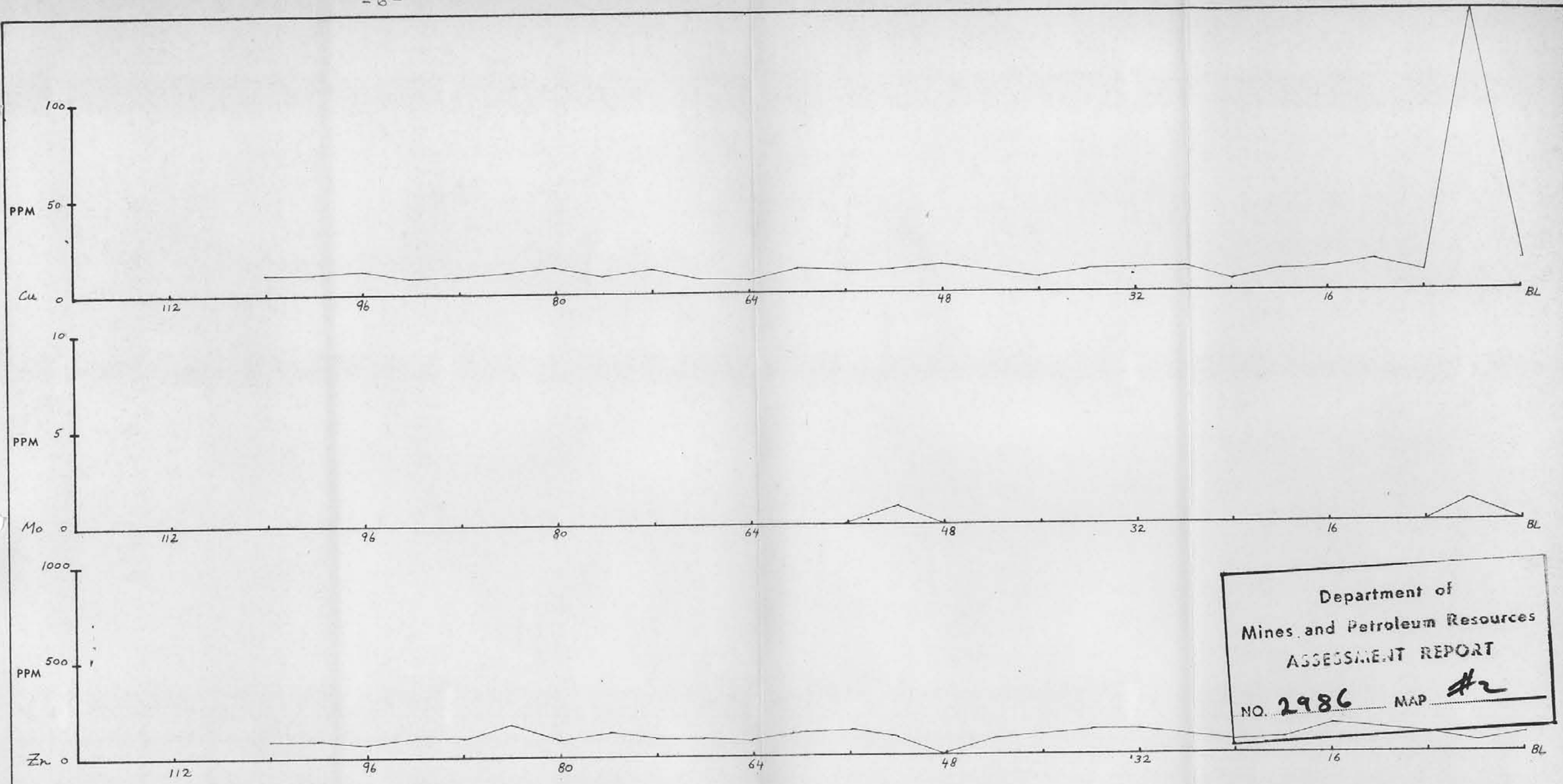
The vegetation samples, after thorough drying, were ashed in an oven at a low temperature to prevent metal loss through evaporation. After ashing, the samples were analyzed using an HCl extraction and atomic absorption methods.

(d) Interpretation of Results

The results of the soil survey are shown plotted as profiles in Figure 2. A copper anomaly was obtained at 100E/4N and zinc anomalies at 0E/52N and 100W/92N.

The biogeochemical results are shown as profiles in Figure 3. One zinc anomaly was detected at 100W/36N.

The large range in molybdenum content of conifers is believed to be a result of abnormal concentration in balsam and not of anomalous conditions in the soil or bedrock.



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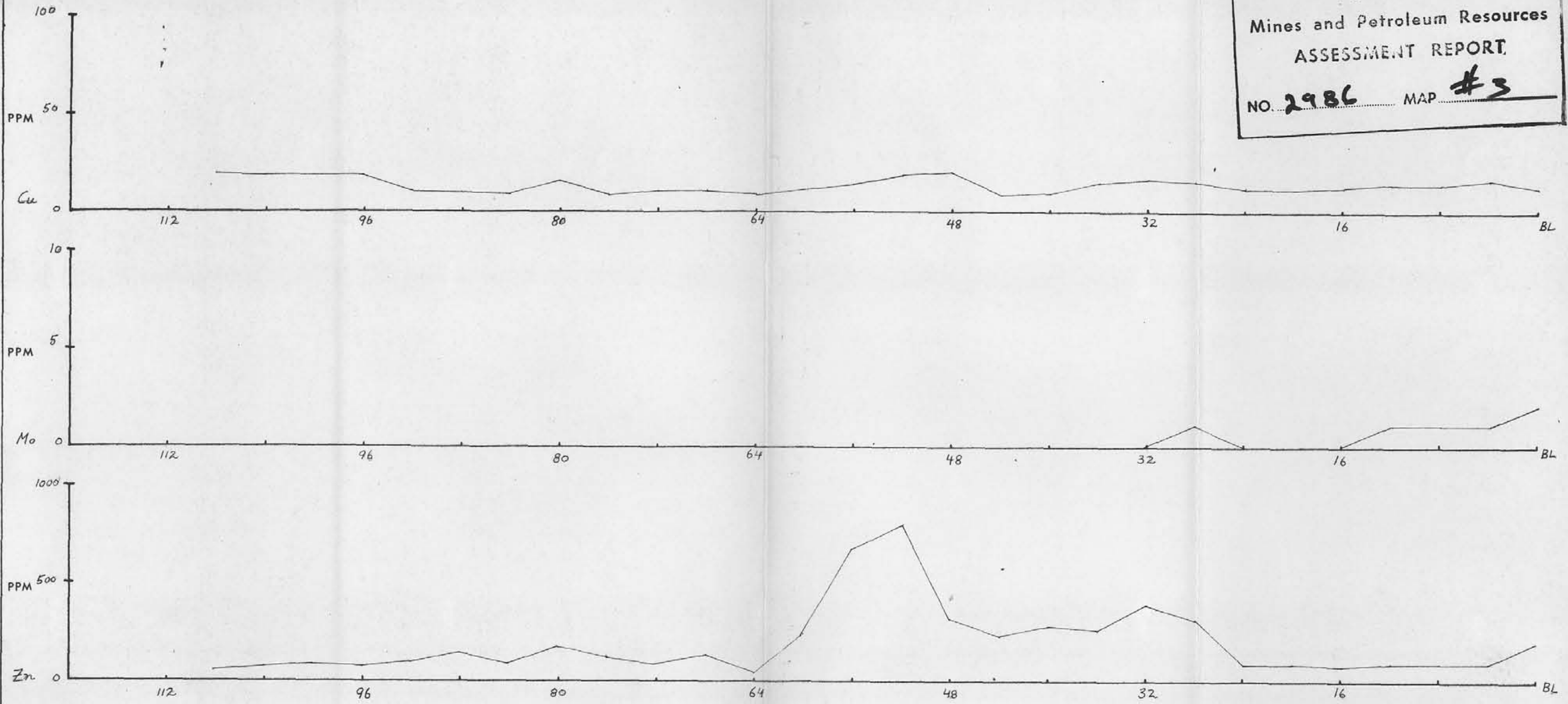
Line 100E

To accompany geochem  
 report by J. H. Montgomery  
 dated Dec 1, 1970

<b>Geochemistry</b>		
ERRIS PROJECT		
800' = 1"		
DFS	Dec 1, 1970	page 1 of 3 Fig 2

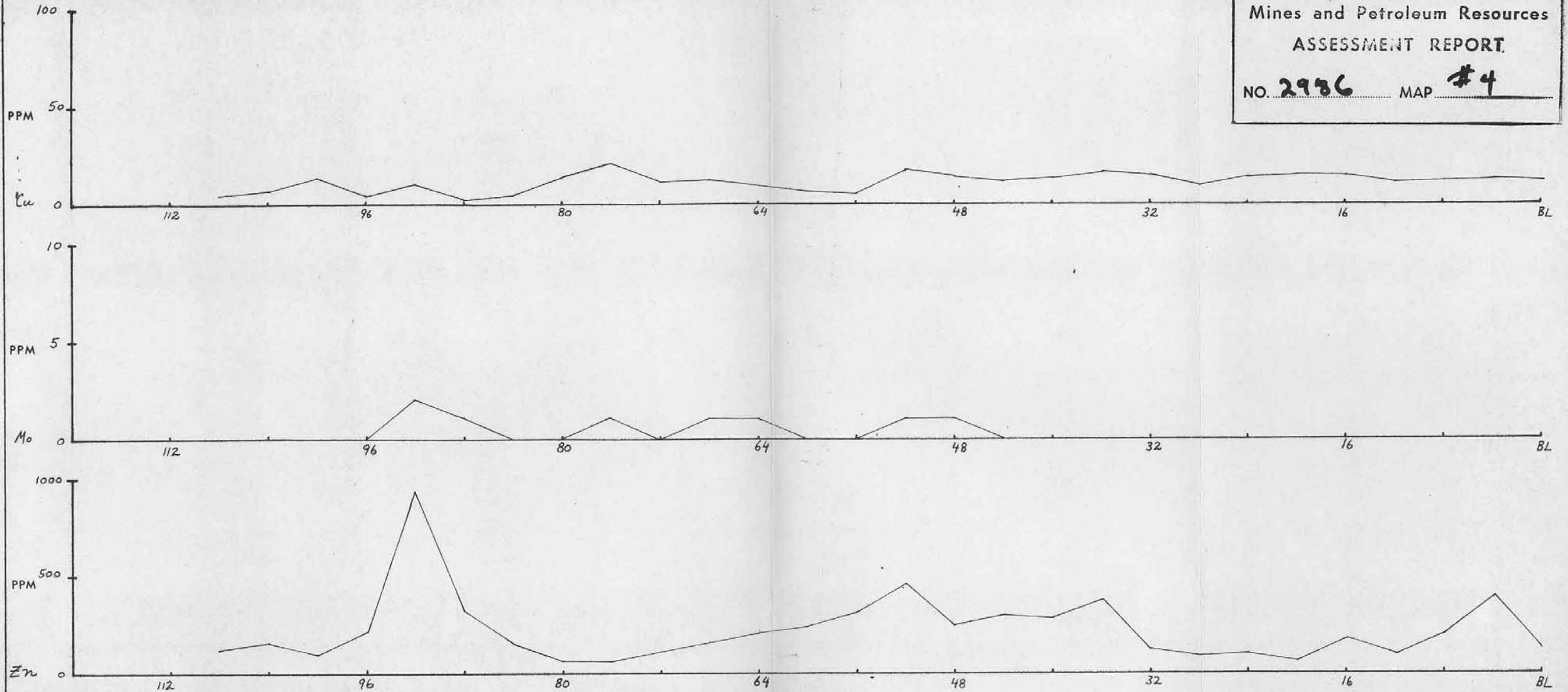


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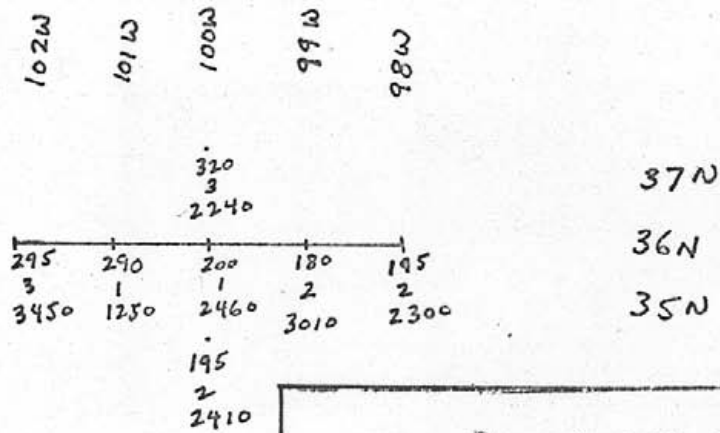
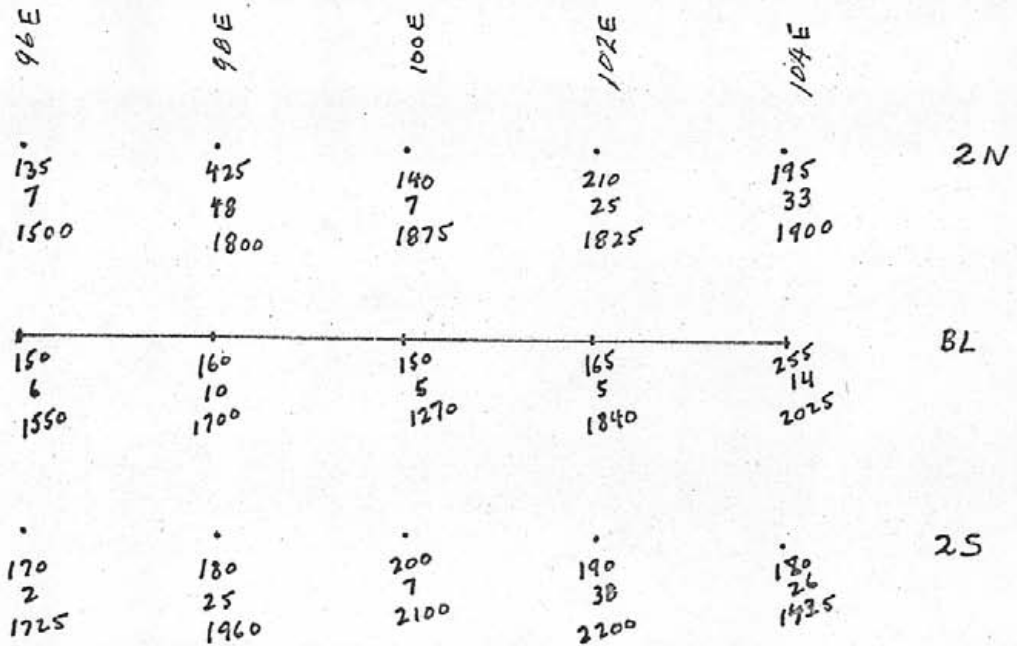
line OE


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line 100W

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	Fig. 2



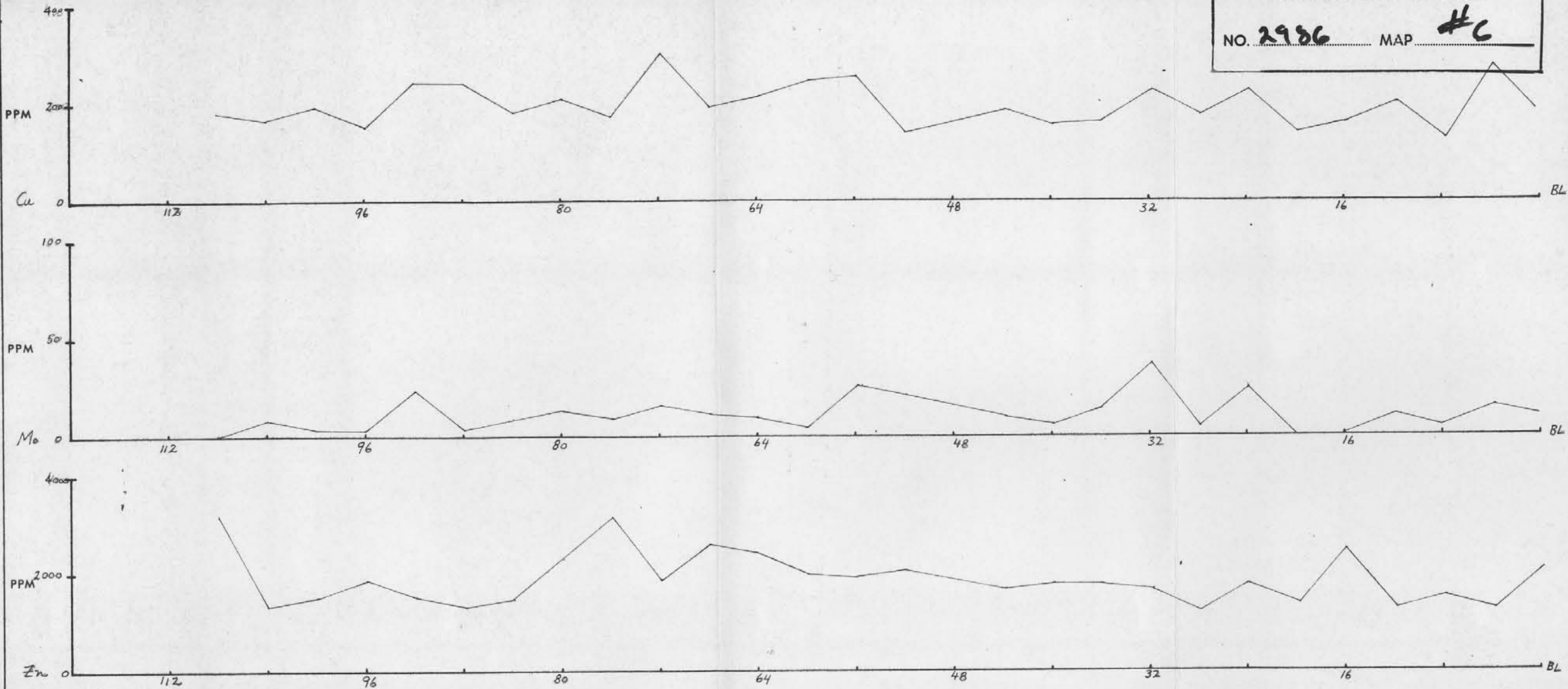
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210 - ppm Cu  
 16 - ppm Mo  
 1890 - ppm Zn

To accompany geochem.  
 report by J.H. Whittigano,  
 dated Dec. 1, 1970

Detail Biogeochemistry		
Erris Project		
1" = 200'		
DFS	Decl, 1970	Fig. 3

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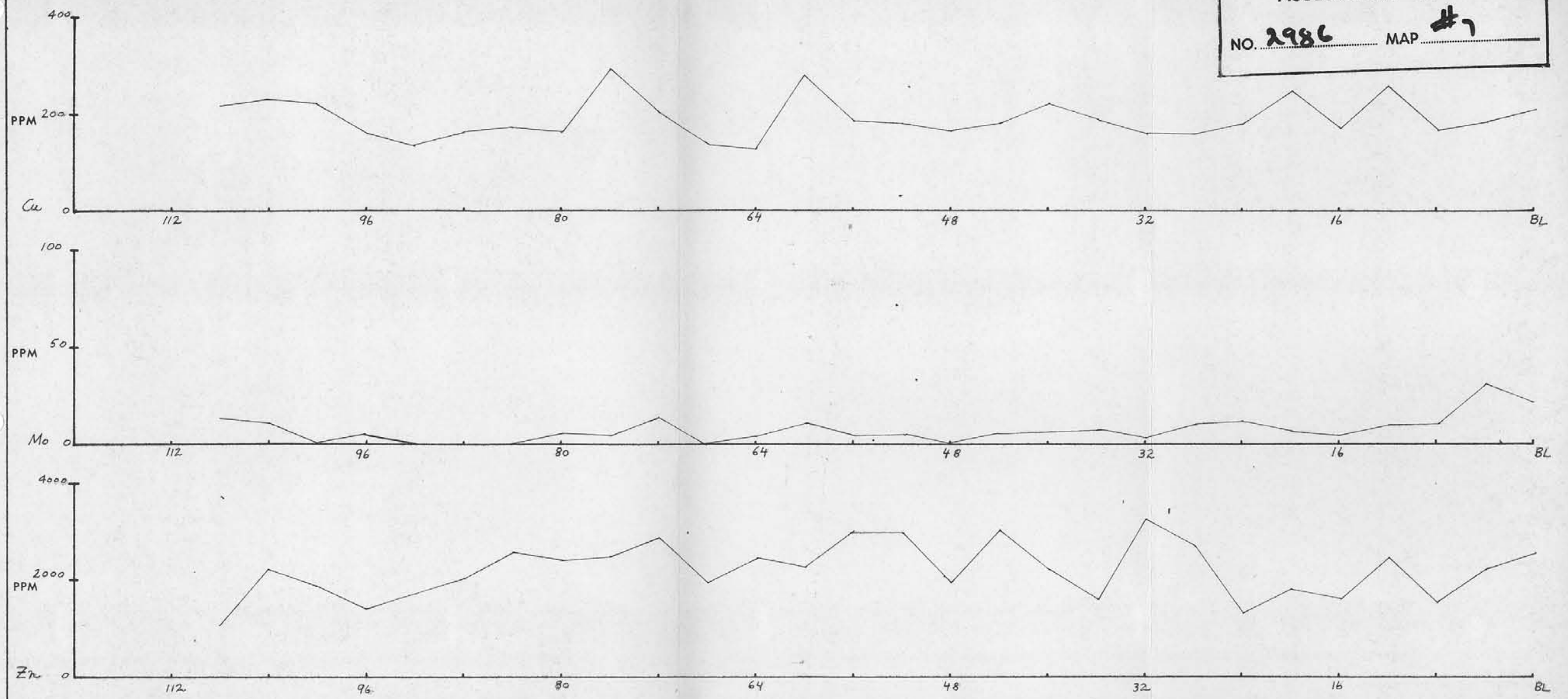


line 100E

To accompany geochem.  
 report by J.H. Montgomery  
 dated Dec 1, 1970.

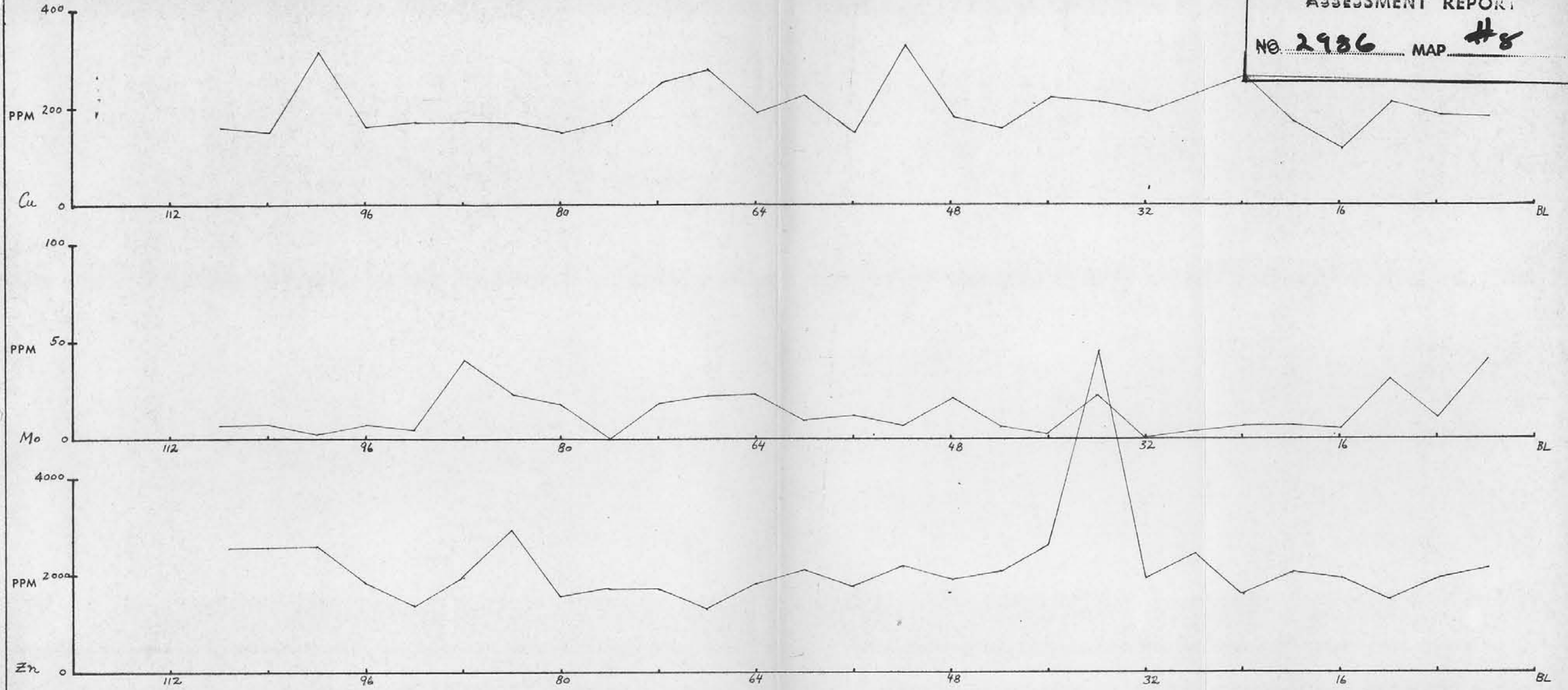
<b>Biogeochemistry</b>		
800' = 1"		
DFS	Dec 1, 1970	page 1 of 3 Fig. 3

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*line OE*


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line 100W

	page 3 of 3 Fig. 3

CONCLUSIONS AND RECOMMENDATIONS

The geochemical survey has detected several erratic high results which may be considered anomalous. The most interesting one is the copper anomaly at 100E/4N.

Additional sampling in this area would be necessary before a reasonable interpretation could be made.

Respectfully submitted,




J. H. Montgomery, Ph.D., P.Eng.

CERTIFICATE

I, J. H. Montgomery, of Vancouver, British Columbia, hereby  
certify that:

1. I am a geological engineer and reside at 4153 West 11th Avenue, Vancouver 8, B.C.
2. I am a graduate of the University of British Columbia: B.Sc. in 1959, M.Sc. in 1960, Ph.D. in 1967.
3. I have practiced my profession since 1959.
4. I am a member of the Association of Professional Engineers of British Columbia.

DATED at Vancouver, B.C., this 1st day of December, 1970.

  
J. H. Montgomery, Ph.D.,  Eng.

4153 West 11th Avenue,  
Vancouver, B.C.