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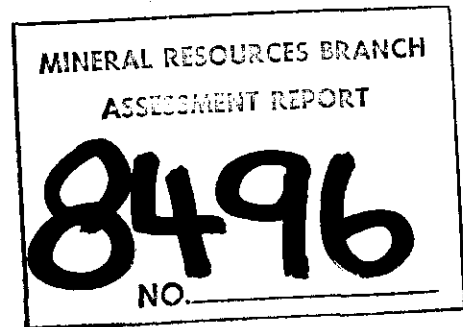
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REPORT ON THE  
HORIZONTAL LOOP ELECTRO-MAGNETIC  
SURVEY ON THE 92P/8 CC GROUP  
KAMLOOPS MINING DIVISION, B.C.  
FOR  
CRAIGMONT MINES LIMITED

8496

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Plan Map (in pockets)	Dwg. E.M.-3085-1,-2



REPORT ON THE  
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SURVEY ON THE 92P/8 CC GROUP  
KAMLOOPS MINING DIVISION, B.C.

FOR

CRAIGMONT MINES LIMITED

LATITUDE:                    51° 23 '  
LONGITUDE:                   120° 04 '

## INTRODUCTION

A Horizontal Loop Electro-magnetic survey has been carried out on the 92P/8 CC Group, on behalf of Craigmont Mines Limited, at the request of Mr. Nels B. Vollo, Exploration Manager.

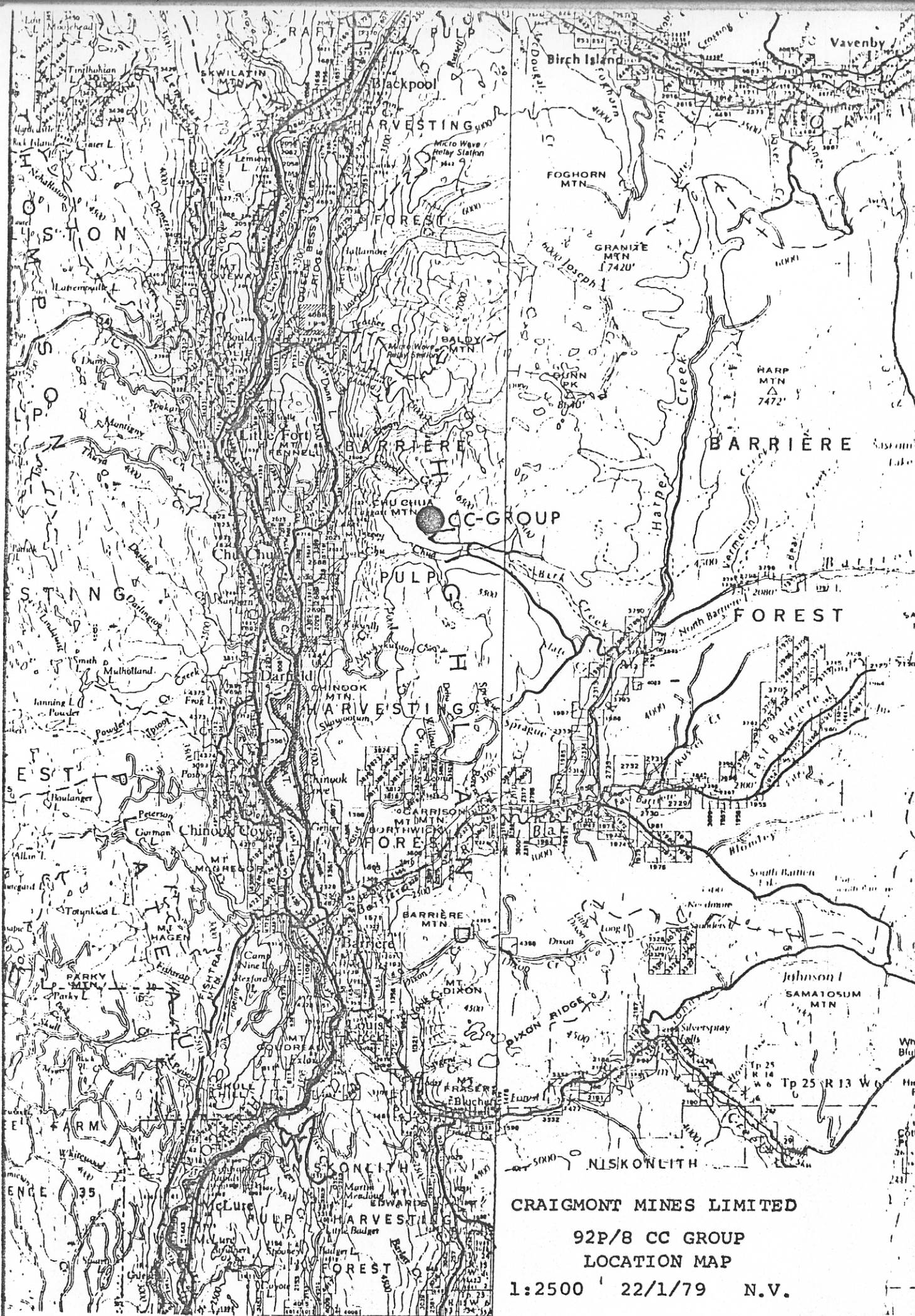
The property is situated approximately 20 km. north of the town of Barriere, B.C., and access is via four-wheel drive vehicle from the Birk Creek logging road.

Previous work by Craigmont has resulted in the discovery of a body of massive sulphide mineralization, composed mainly of pyrite with lesser amounts of chalcopyrite and sphalerite. This present EM survey was planned in order to search for possible deeper extensions to the original deposit.

A Max-Min II<sup>\*</sup> Horizontal Loop Electro-magnetic unit was used to make the measurements using a 200 meter coil separation. All of the lines tested were surveyed using frequencies of 444 Hertz and 1777 Hertz, while the initial line, Line 100+00N, was completed using five frequencies, 3555 Hertz, 1777 Hertz, 888 Hertz, 444 Hertz and 222 Hertz, in order to establish the best frequency pair for the remainder of the survey program.

The field work was carried out during early October 1980 under the supervision of Mr. Paul Adomaitus, geophysical crew leader.

\* APEX PARAMETRICS, MARKHAM, ONT.



**CRAIGMONT MINES LIMITED**  
 92P/8 CC GROUP  
 LOCATION MAP  
 1:2500 22/1/79 N.V.

### DESCRIPTION OF THE CLAIMS

The property consists of the following claims:

CC-1 record number 1154

CC-2, -3, record numbers 1373, 1428

CC-4, -8, record numbers 1424, 1428

CC-5, -7, 9-11, record numbers, 1455-57, 1458-60,

totalling 150 units, all in the Kamloops Mining Division, and held by Craigmont Mines Limited.

### PRESENTATION OF RESULTS

As was previously mentioned, Line 100+00N was initially surveyed using all five frequencies available on the Max-Min II equipment. This data is plotted in profile form on Dwg. E.M.-1054. Plan maps Dwg. E.M.-3085-1 and Dwg. E.M.-3085-2 show the grid lines which were surveyed, together with the 1777 Hertz and 444 Hertz H.E.M. results respectively. Anomalous H.E.M. responses are marked on the latter two plans according to the legend. All maps are drawn at a scale of 1:2500.

Topographic and grid information shown has been taken from maps supplied by Craigmont Mines Limited.

### DISCUSSION OF RESULTS

(a) Line 100+00N - 3555 Hz, 1777 Hz, 888 Hz, 444 Hz, 222 Hz.

(Dwg. E.M.-1054)

All profiles recorded on Line 100+00N show a very

distinct, strongly anomalous conductor centered at approximately, station 98+65N. A target width of less than 25 meters is indicated while depth to the conductor axis is estimated at 20 to 40 meters sub-surface. A steep westerly dip in the order of  $60^{\circ}$ - $75^{\circ}$  is suggested by the profile shapes.

It is the author's understanding that Line 100+00N passes over the center of the massive sulphide body outlined by previous drilling.

(b) 1777 Hertz Profiles (Dwg. E.M.-3085-1)

The known sulphide body appears to be well outlined by the results from Line 100+00N and Line 99+00N, as definitely anomalous signatures are evident on both lines, with the center of the conductor axis located at approximately station 98+65N. No extension of the zone can be discerned to the south of Line 99+00N.

However, a weak conductor is indicated in the vicinity of Line 92+00N, station 101+50E. This response is marked only by the quadrature results.

Several other very weakly anomalous quadrature responses have also been interpreted in the data from Line 96+00N and Line 92+00N.

(c) 444 Hertz Profiles (Dwg. E.M.-3085-2)

No additional anomalous responses can be interpreted from this lower frequency data.

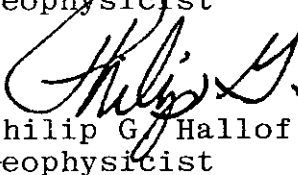
SUMMARY AND RECOMMENDATIONS

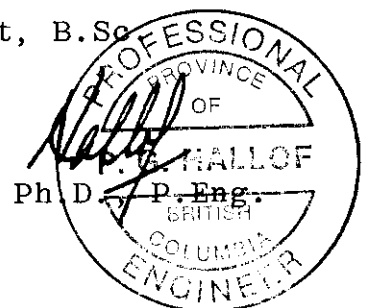
The present Horizontal Loop Electro-magnetic survey has outlined the previously discovered Chu Chua massive sulphide deposit very well. Unfortunately, there does not appear to be any other targets of similar size and conductivity-thickness product underlying the survey area, between the surface and the approximately 100 meter detection limit of the equipment.

The only other response indicated, which might be of interest, is seen on Line 92+00N, station 101+50E. It is unlikely, however, that this anomaly represents material even remotely as conductive as that which apparently constitutes the known sulphides. Further work in the form of drill testing should be of low priority until infill lines can be surveyed.

PHOENIX GEOPHYSICS LIMITED

Paul A. Cartwright, B.Sc.  
Geophysicist

  
Philip G. Hallof, Ph.D.  
Geophysicist



November 25, 1980

Expiry Date: February 25, 1981



ASSESSMENT DETAILS

PROPERTY: 92 P/8 CC Group MINING DIVISION: Kamloops  
SPONSOR: Craigmont Mines Ltd. PROVINCE: British Columbia  
LOCATION: Chu Chua, B.C.  
TYPE OF SURVEY: Horizontal Loop Electro-magnetics  
OPERATING MAN DAYS: 7 DATE STARTED: Oct. 03, 1980  
EQUIVALENT 8 HR. MAN DAYS: 10.5 DATE FINISHED: Oct. 08, 1980  
CONSULTING MAN DAYS: 2 NUMBER OF STATIONS: 172  
DRAFTING MAN DAYS: 2 NUMBER OF READINGS: 742  
TOTAL MAN DAYS: 14.5 KILOMETERS OF LINE  
SURVEYED: 6.7  
CONSULTANTS:

Paul A. Cartwright, 4238 West 11th Avenue, Vancouver, B.C.

Philip G. Hallof, Suite 3505, 2045 Lake Shore Blvd West  
Toronto, Ontario

FIELD TECHNICIANS:

Paul G. Adomaitus, 29 Jardine Place, Weston, Ontario

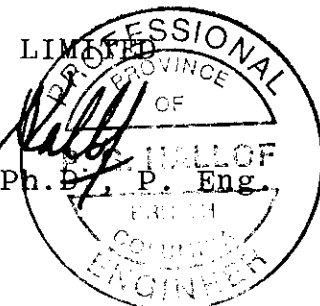
Stephen Henshall, 200 Yorkland Blvd., Willowdale, Ontario

DRAUGHTSMAN:

Paul G. Adomaitus, 29 Jardine Place, Weston, Ontario

PHOENIX GEOPHYSICS LIMITED

Philip G. Hallof, Ph. E., P. Eng.



November 25, 1980.

Expiry Date: February 25, 1981

STATEMENT OF COST

Craigmont Mines Ltd. - Horizontal Loop EM Survey  
CC Group - Chu Chua, B.C.

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Crew: P. Adomaitis - S. Henshall

Period: October 3, 1980 - October 8, 1980

3½ Operating Days	@ \$495.00/day	\$1,732.50
½ Organization Day	@ \$195.00/day	97.50
2 Travel Days	@ \$195.00/day	390.00

EXPENSES:

Meals & Accommodation	\$114.20	
Vehicle 6 days @ \$33.00	198.00	
1250 Km @ \$ 0.10	125.00	
Fuel	54.10	
	<hr/>	
	491.30	
+ 15%	73.70	
	<hr/>	
	565.00	565.00
		<hr/>
		\$2,785.00
		<hr/>

PHOENIX GEOPHYSICS LIMITED

*Philip G. Hallof*  
Philip G. Hallof, Ph.D. P. Eng.



Expiry Date: February 25, 1981

Dated: October 15, 1980

CERTIFICATE

I, Paul A. Cartwright, of the City of Vancouver, Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 4238 West 11th Avenue, Vancouver, B.C.
2. I am a graduate of the University of British Columbia, B.C. with a B.Sc. Degree.
3. I am a member of the Society of Exploration Geophysicists.
4. I have been practising my profession for 10 years.
5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Craigmont Mines Limited or any affiliate.
6. The statements made in this report are based on a study of published geological literature and unpublished private reports.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

Dated at Vancouver

this 25th day of November 1980.

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Paul A. Cartwright, B.Sc.


CERTIFICATE

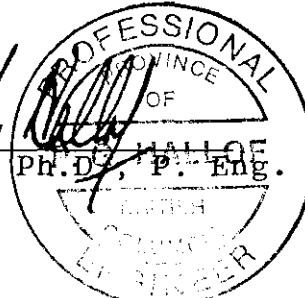
I, Philip George Hallof, of the City of Toronto, Province of Ontario, do hereby certify that:

1. I am a geophysicist residing at Suite 3505, 2045 Lake Shore Blvd. West, Toronto, Ontario.
2. I am a graduate of the Massachusetts Institute of Technology with a B.Sc. Degree (1952) in Geology and Geophysics, and a Ph.D. Degree (1957) in Geophysics.
3. I am a member of the Society of Exploration Geophysicists and the European Association of the Exploration Geophysicists.
4. I am a Professional Geophysicist, registered in the Province of Ontario, the Province of British Columbia and the State of Arizona.
5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of Craigmont Mines Limited, or any affiliate.
6. The statements made in this report are based on a study of published geological literature and unpublished private reports.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

Dated at Toronto

this 25th day of November 1980

  
Philip G. Hallof, Ph.D., P. Eng.



Expiry Date: February 25, 1981


CERTIFICATE

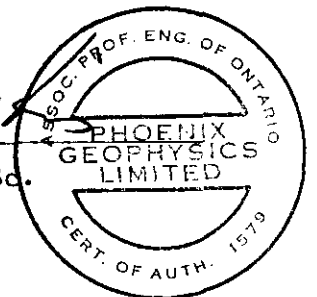
I, Paul G. Adomaitis, of the City of Toronto, Province of Ontario, do hereby certify that:

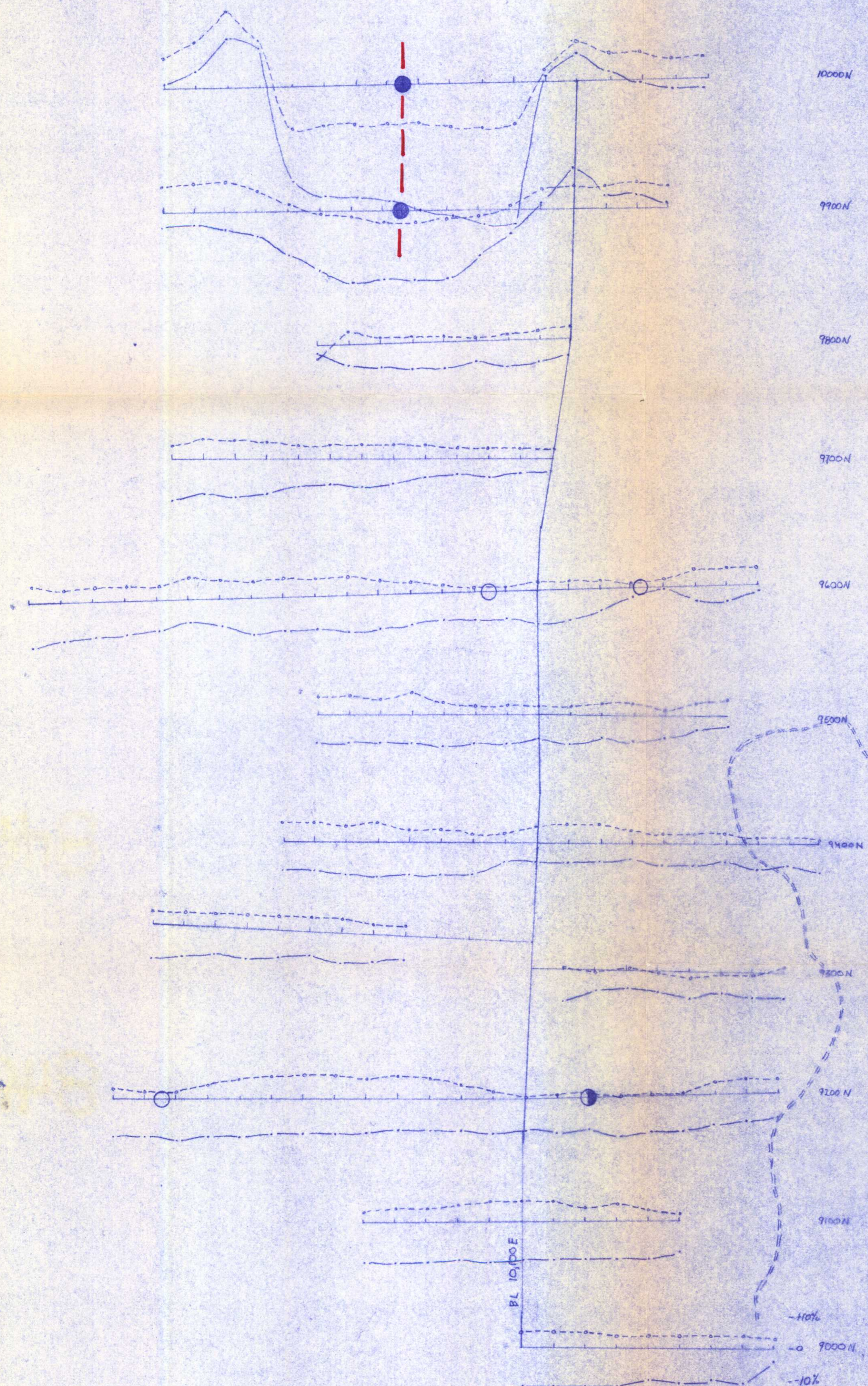
1. I am a geophysicist residing at 29 Jardine Place, Weston, Ontario.
2. I am a graduate of the University of Western Ontario, Ontario with a B.Sc. Degree.
3. I have been practising my profession about 5 years.
4. I have no direct or indirect interest, nor do I expect to receiver any interest directly or indirectly, in the property or securities of Craigmont Mines Limited or any affiliate.
5. The statements made in this report are based on a study of published geological literature and unpublished private reports.
7. Permission is granted to use in whole or in part for assesement and qualification requirements but nor for advertising purposes.

Dated at Toronto

This 25th day of November, 1980

  
Paul G. Adomaitis, B.Sc.  
Geophysicist





10000N  
 9900N  
 9800N  
 9700N  
 9600N  
 9500N  
 9400N  
 9300N  
 9200N  
 9100N  
 9000N



H.E.M. ANOMALY CLASSIFICATION  
 DEFINITE ●  
 PROBABLE ○  
 POSSIBLE ○  
 CONDUCTOR AXIS - - - - -

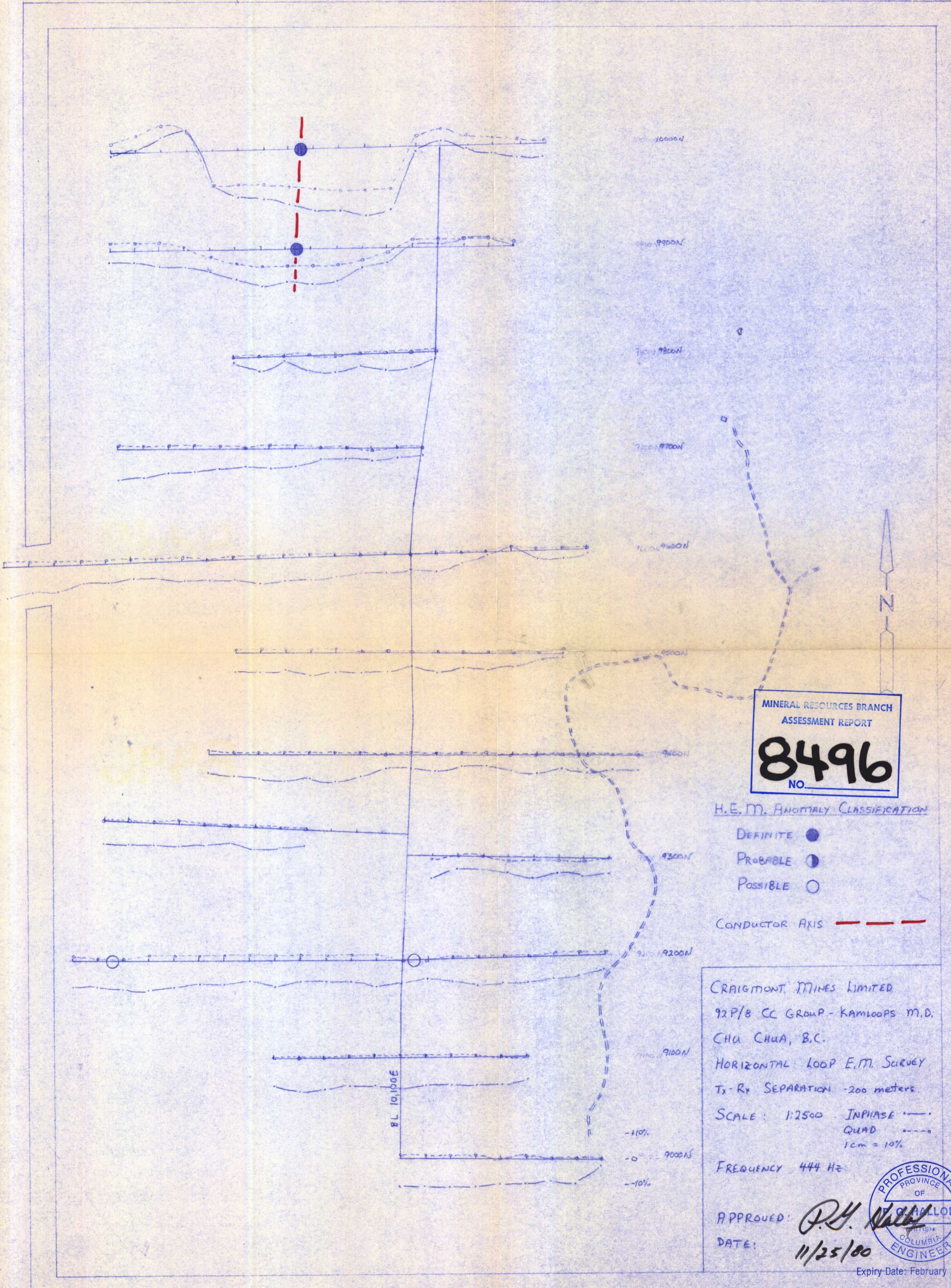
MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**8496**  
 NO.

CRAIGMONT MINES LIMITED  
 92P/8 CC GROUP KAMLOOPS M.D.  
 CHU CHUA, B.C.  
 HORIZONTAL LOOP E.M. SURVEY  
 TX-RX SEPARATION - 200 meters  
 SCALE 1:2500 INPHASE ———  
 QUAD - - - - -  
 1 cm = 10%  
 FREQUENCY: 1777 Hz

APPROVED: *P.S. Nally*  
 DATE: 11/25/80



Expiry Date: February 25, 1981



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**8496**  
NO.

H.E.M. ANOMALY CLASSIFICATION

- DEFINITE ●
- PROBABLE ◐
- POSSIBLE ○

CONDUCTOR AXIS ———

CRAIGMONT MINES LIMITED  
92P/B CC GROUP - KAMLOOPS M.D.  
CHU CHUA, B.C.  
HORIZONTAL LOOP E.M. SURVEY  
Tx-Rx SEPARATION - 200 meters  
SCALE: 1:2500 INPHASE ———  
QUAD - - - - -  
1cm = 10%

FREQUENCY 444 HZ

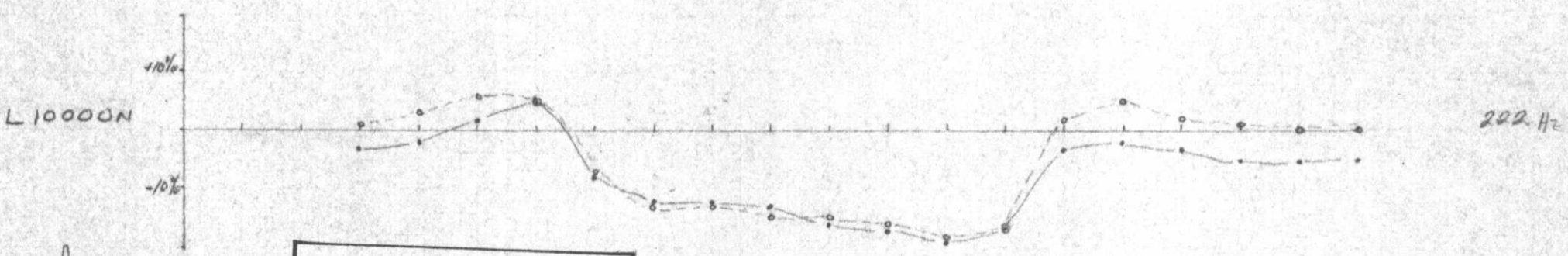
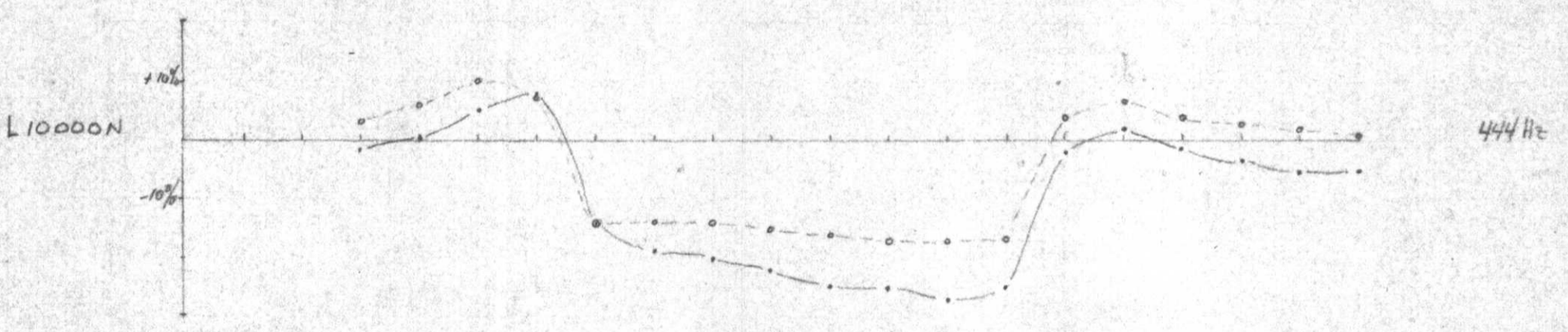
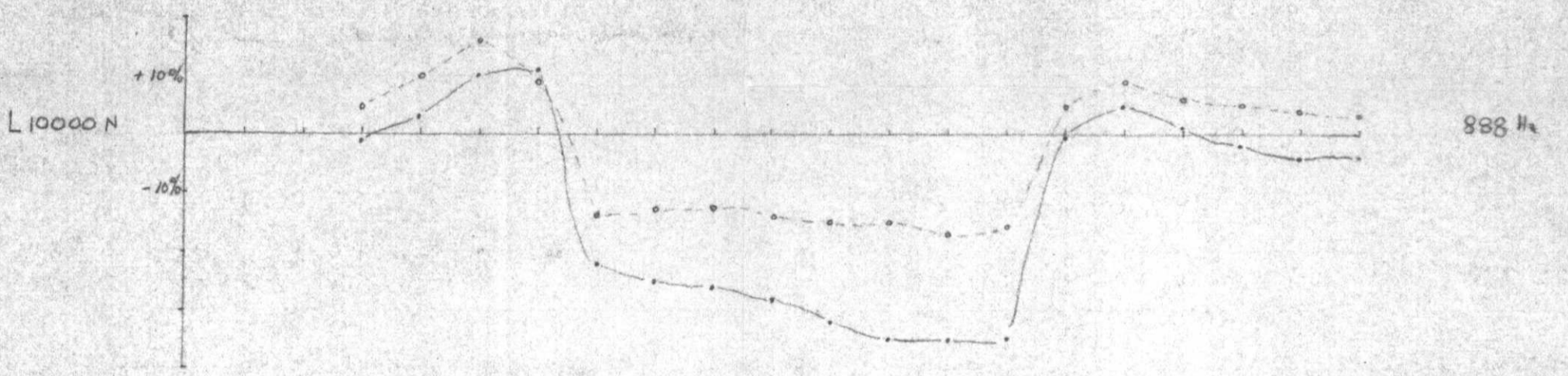
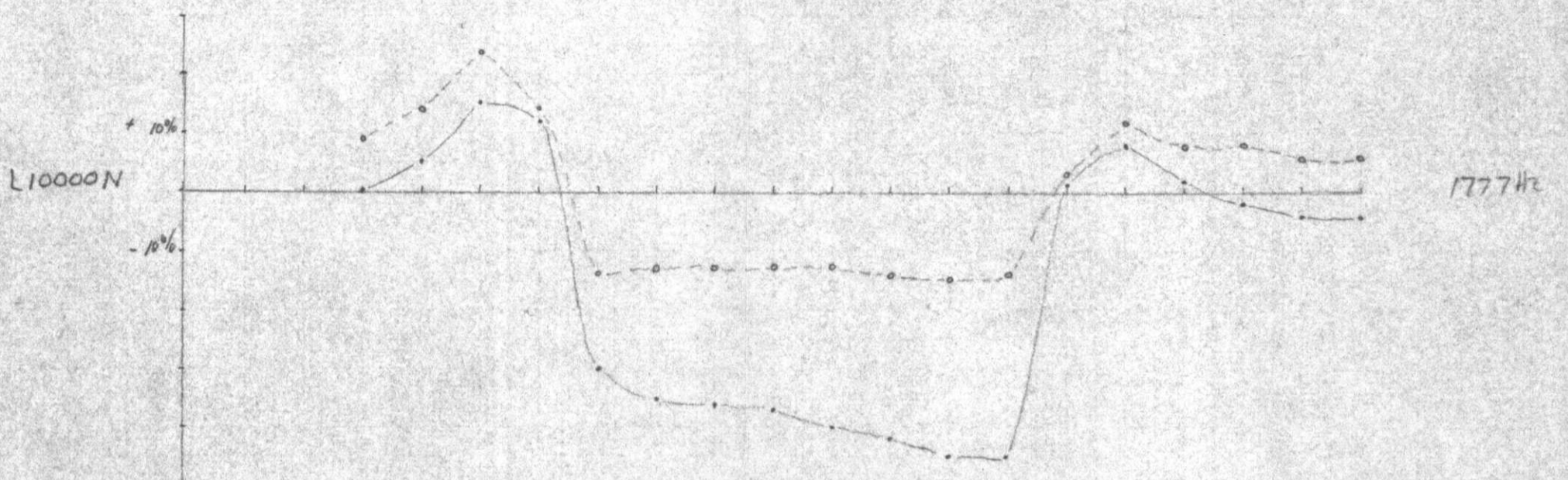
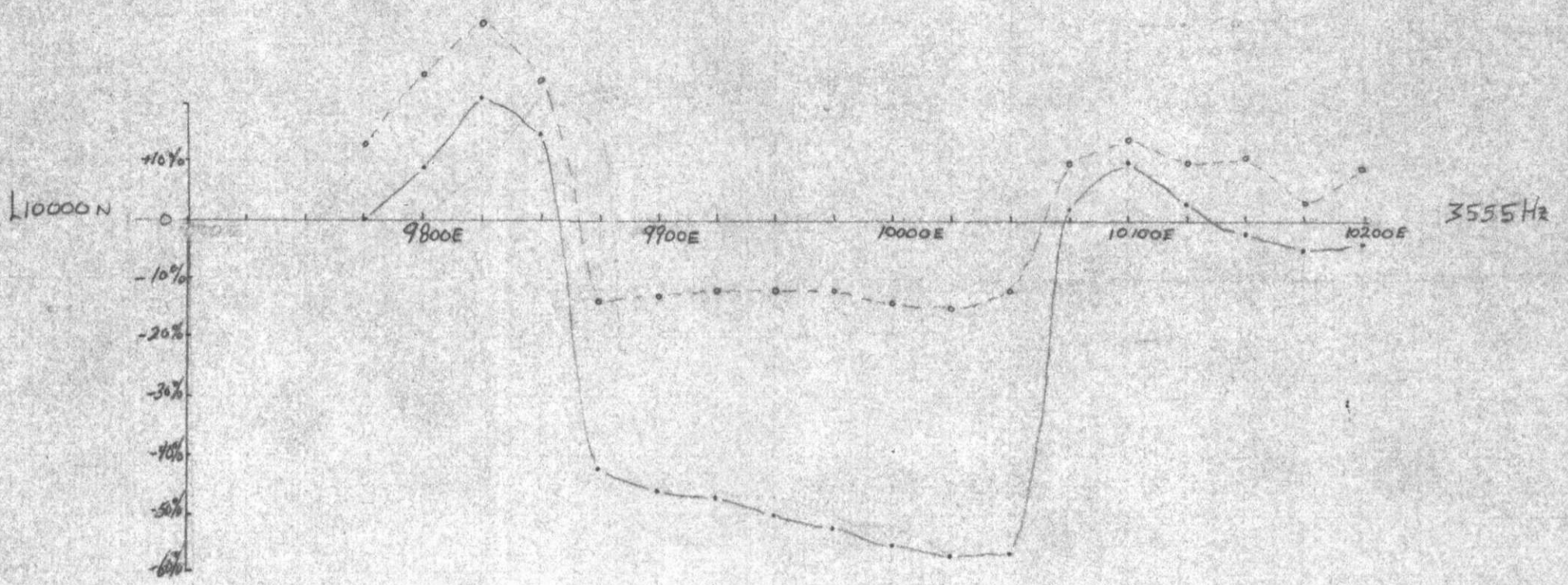
APPROVED: *P.H. Nalder*  
DATE: 11/25/80



Expiry Date: February 25, 1981

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Page 2 of 2



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**8496**  
NO.

APPROVED: *J. G. Kelly*  
DATED: 11/25/80



Expiry Date: February 25, 1981

CRAIGMONT MINES LIMITED  
92 P/B CC GROUP - KAMLOOPS M.D.  
CHU CHUA, B.C.  
HORIZONTAL LOOP E.M. SURVEY  
Tx - Rx SEPARATION - 200 meters  
SCALE: 1:2500 INPHASE ———  
QUAD - - - -

DWG. E.M. - 1057