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AREA

82E 82L *fell*

REPORT ON  
MAGNETIC SURVEY AND GRID LOCATION  
PLENTY, HOST, ZIP MINERAL CLAIMS  
KELOWNA AREA, B. C.

001773

December 1978

PROPERTY FILE

REPORT ON  
MAGNETIC SURVEY AND GRID LOCATION  
OVER  
THE PLENTY, HOST AND ZIP MINERAL CLAIMS  
KELOWNA AREA, BRITISH COLUMBIA

ON BEHALF OF

BUCCANEER RESOURCES LTD.  
630, 510 W. Hastings Street  
Vancouver, British Columbia

by

RICHARD O. CROSBY, B.Sc., P.Eng.

Location: About 29 kilometers west of Kelowna,  
British Columbia - 50°00'N - 119°52'W  
NTS 82E/13W and 82L/4W

August 3 - August 28, 1978

Vancouver, B. C.

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MAP

PLATE 1 - MAGNETIC CONTOURS AND GRID LOCATIONS . . . . .	1:5000
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SUMMARY

Magnetic surveying over the Plenty mineral claim located an ultrabasic rock unit trending northwest across the northeast portion of the claim. Parallel trending ultrabasic rocks located about 1500 meters to the southwest are hosts for massive and disseminated chromite mineralization.

REPORT ON  
MAGNETIC SURVEY AND GRID LOCATION  
OVER THE PLENTY, HOST AND ZIP MINERAL  
CLAIMS  
KELOWNA AREA, BRITISH COLUMBIA  
ON BEHALF OF  
BUCCANEER RESOURCES LTD.  
630, 510 W. Hastings Street  
Vancouver, British Columbia

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INTRODUCTION

During the period August 3 through August 28, 1978, a geophysical party under the direction of Mr. N. Rebalski, executed a magnetic survey over the Plenty mineral claim and located, cut and flagged a survey grid over the Host and Zip mineral claims.

The properties are located in southern British Columbia approximately 29 kilometers west of Kelowna in the Nicola Mining Division, at  $50^{\circ}00'N - 119^{\circ}52'W$ . A Scintrex MF-1 vertical force fluxgate magnetometer was employed for the survey.

The purpose of the survey was to locate magnetic responses arising from ultrabasic rocks which are potential hosts for chromite.

For the present survey, six lines oriented northeast - southwest and separated by 200 meters were cut across the Plenty mineral claim. Stations were occupied every 50 meters.

A total of 4100 meters of line length was surveyed.

Diurnal control was maintained by repeating stations at 30 minute intervals and by checking magnetograms from the Victoria Magnetic Observatory.

Grid lines oriented northeast-southwest were cut at 250 meter intervals across the Host and Zip mineral claims. Stations were flagged at 50 meter intervals. A total of 4000 meters of grid lines were cut.

#### CLAIMS

The following claims are on record at the Mining Recorders Office, Merritt, B.C. of the Nicola Mining Division.

<u>NAME</u>	<u>UNITS</u>	<u>RECORD No.</u>	<u>ANNIVERSARY DATE</u>
Host	2	288	July 18, 1978
Zip	3	289	July 18, 1978
Plenty	4	344	September, 1978

## GEOLOGY

The area is underlain primarily by Paleozoic metasediments of the Cache Creek Group including greenstone, quartzite and limestones and pre-Cambrian sediments of the Chapperon group.

Serpentinized peridotite of the Old Dave intrusions extends across Nicola valley in a general north 25° west direction. Chromite, both as disseminations and as massive mineralized zones, is found in these rocks.

## DISCUSSION OF RESULTS

### PLENTY CLAIM:

Plate 1, on a scale of 1:5,000 shows the results of the magnetometer survey in contour form. The map is dominated by a narrow positive anomaly trending north 25° west across the north-eastern quarter of the claim group. The anomaly reaches a maximum of over 5000 gammas, indicating a very high magnetic susceptibility. The symmetry of the anomaly indicates that its source is a relatively narrow band of highly magnetic rocks extending near vertically to a depth of at least 300 meters.

The remainder of the claim is characterized by a relatively featureless magnetic field suggesting that intermediate to acidic type rocks underly these areas.


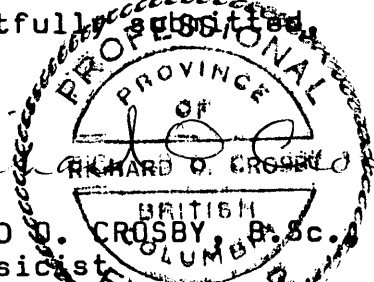
HOST AND ZIP CLAIMS :

Plate 1 shows the location of the grid that was cut and flagged over these claims.

CONCLUSIONS AND RECOMMENDATIONS

The magnetometer survey has clearly defined an area of ultra basic rocks in which could be found segregations of chromite. It is recommended that soil samples be taken across the area underlying the magnetic anomaly and checked for chromium. It is also recommended that a detailed gravity survey be conducted over the same area if the results of the geochemical surveys are positive.

Drilling and/or trenching would be dependent upon the results of this gravity survey.

Respectfully submitted,  
  
RICHARD O. CROSBY, B.Sc. P.Eng.  
Geophysicist  




ASSESSMENT DETAILS

CLAIM : Plenty Mineral Claim  
LOCATION : Kelowna Area, B.C.  
50°00'N - 119°51'W  
Nicola Mining Division  
CLIENT : Buccaneer Resources Ltd.  
630, 510 W. Hastings Street  
Vancouver, British Columbia

TYPE OF SURVEY : Magnetometer Survey

OPERATING MAN DAYS : 24                      DATE STARTED : Aug. 3, 1978

COMPILING MAN DAYS : 2                      DATE FINISHED : Aug. 17, 1978

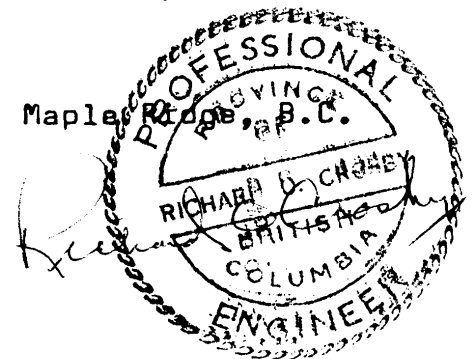
CONSULTING MAN DAYS : 2                      KILOMETERS OF SURVEY : 4.5

TOTAL MAN DAYS :                      28

CONSULTANT : Richard O. Crosby  
422 - 510 W. Hastings Street  
Vancouver, B.C.

FIELD PERSONNEL : Nick Rebaliski  
2011 Creelman Av., Vancouver, B.C.

Bill Booth  
12101, 208th Street, Maple Ridge, B.C.



ASSESSMENT DETAILS

CLAIM : Host  
LOCATION : Kelowna Area, B.C.  
50°00'N - 119°53'W  
Nicola Mining Division  
CLIENT : Buccaneer Resources Ltd.  
630, 510 W. Hastings Street  
Vancouver, British Columbia

TYPE OF SURVEY : Grid Location

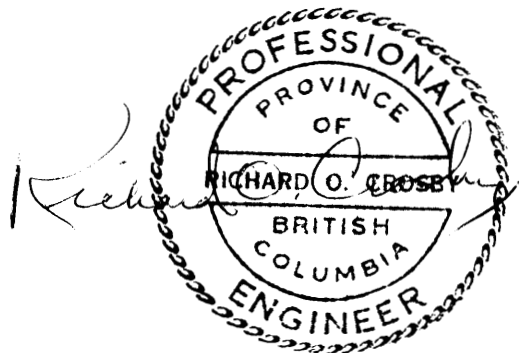
TOTAL MAN DAYS : 6

DATE STARTED : August 17, 1978

DATE FINISHED : August 22, 1978

KILOMETERS OF GRID : 2.0

FIELD PERSONNEL : B. Booth  
12101, 208th Street, Maple Ridge, B.C.



ASSESSMENT DETAILS

CLAIM : Zip

LOCATION : Kelowna Area, B.C.  
50°01'N - 119°53'W  
Nicola Mining Division

CLIENT : Buccaneer Resources Ltd.  
630, 510 W. Hastings Street  
Vancouver, British Columbia

TYPE OF SURVEY : Grid Location

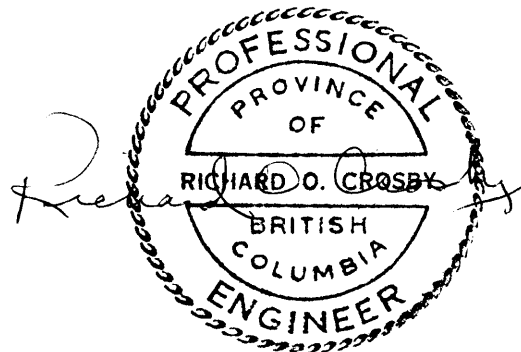
TOTAL MAN DAYS : 6

DATE STARTED : August 23, 1978

DATE FINISHED : August 28, 1978

KILOMETERS OF GRID : 2 kms.

FIELD PERSONNEL : B. Booth  
12101, 208th Street, Maple Ridge, B.C.

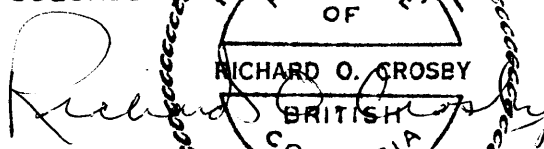
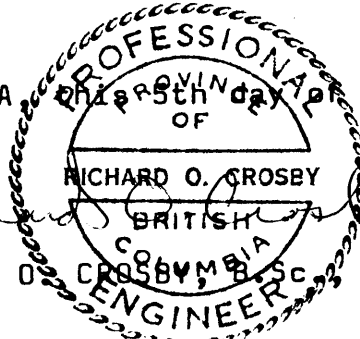


CERTIFICATION

I, Richard O. Crosby, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am a Consulting Geophysicist with offices at 422 - 510 West Hastings Street, Vancouver, B.C.
2. I am a registered Professional Engineer of British Columbia. I graduated from Washington State University in 1951.
3. I have practiced my profession for 25 years.
4. I have no interest, direct or indirect, in the mineral claims discussed in this report, nor do I expect to receive any.
5. I did not examine the permit area, but I am not aware of any claim conflict and believe that the data presented herein is reliable.
6. I consent to the use of this report in, or in connection with the prospectus, or in a statement of material facts relating to the raising of funds for this project.

DATED at VANCOUVER, BRITISH COLUMBIA, this 15th day of December, 1978.

  
RICHARD O. CROSBY, B.Sc. P.Eng.  


# Richard O. Crosby & Associates Ltd.

CONSULTING GEOPHYSICISTS

SUITE 422 - 510 W. HASTINGS ST.,  
VANCOUVER, B.C. V6B 1L9

OFFICE: (604) 684-1568

December 20, 1978

Invoice #2040

## IN ACCOUNT WITH

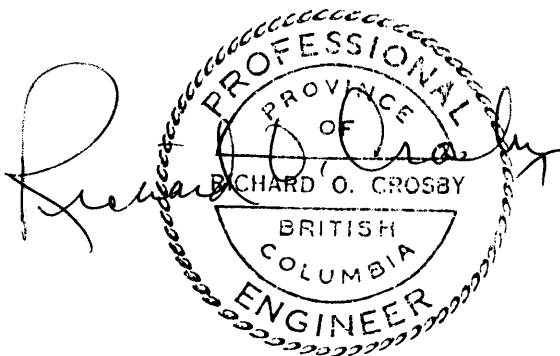
Buccaneer Resources Ltd.  
422 - 510 West Hastings Street  
VANCOUVER, B. C.  
V6B 1L8

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Geophysical Services - Host, Zip and Plenty Claims,  
Kelowna Area, B. C. August 3 - August 28, 1978.

### Wages:

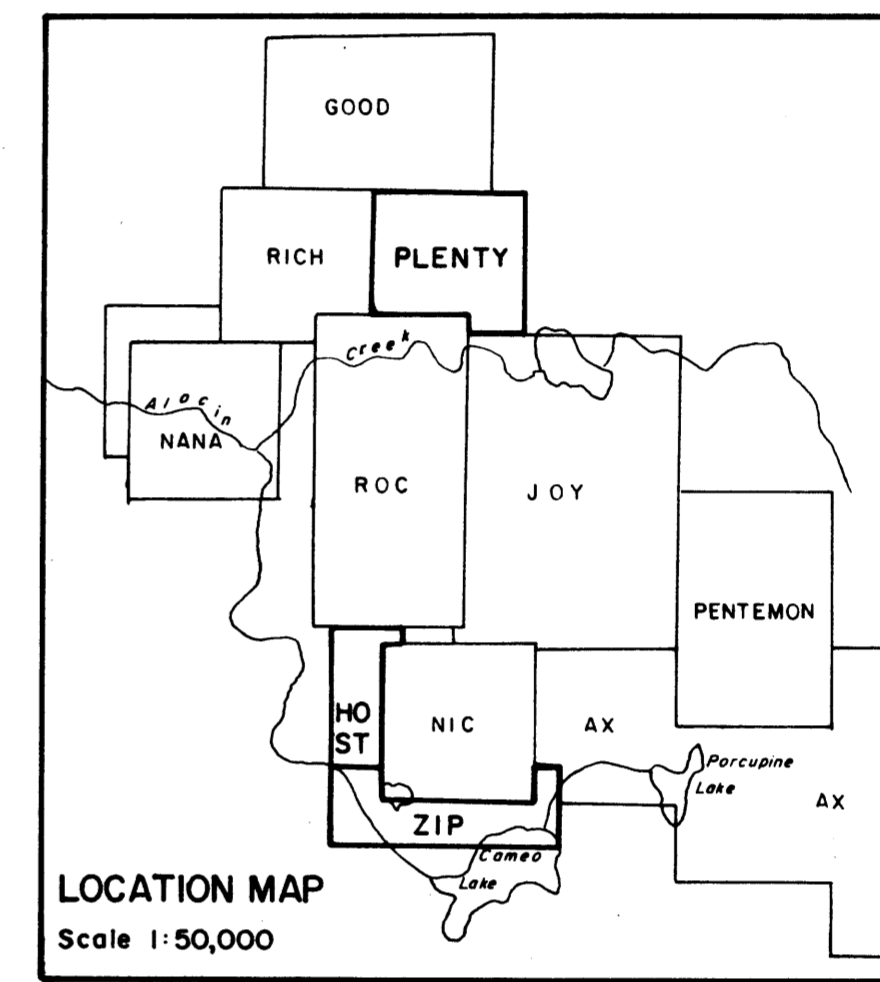
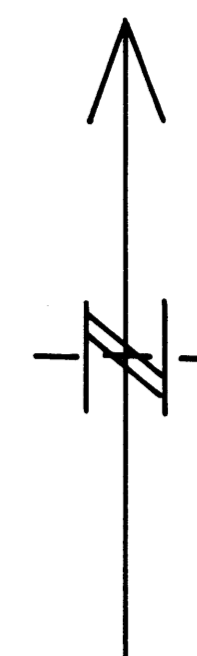
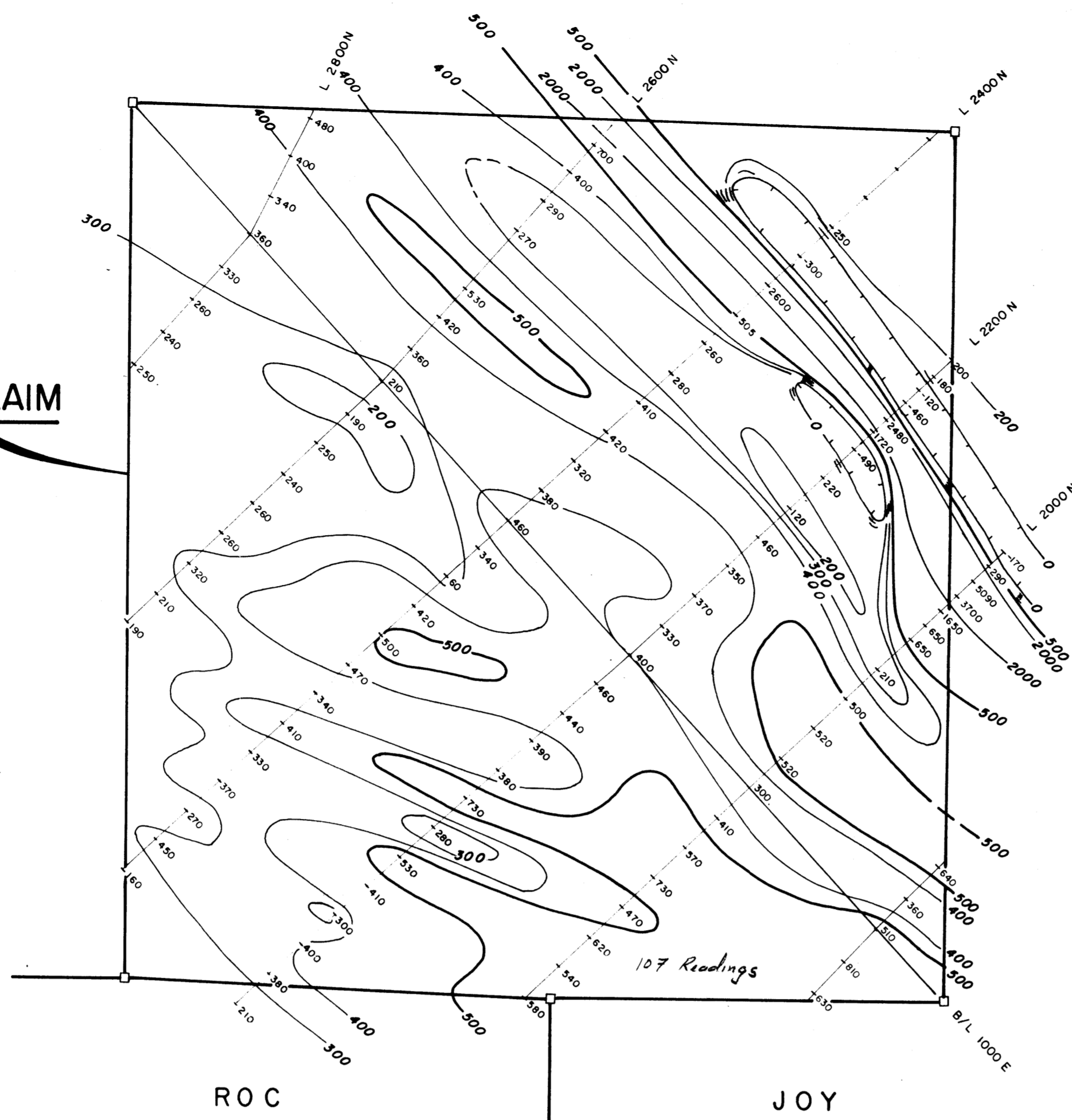
Nick Rebalski, 23 days - Aug. 3-26/78 - @ \$90/day	\$2,070.00
Bill Booth 15 days - Aug.13-28/78 - @ \$65/day	975.00
Project Expenses - including gas, oil, food, supplies	633.55
Consultant and Reporting	1,000.00
Equipment Rental M.F.-1 Magnetometer	<u>300.00</u>
TOTAL AMOUNT DUE	<u><u>\$4,978.55</u></u>



**PLENTY CLAIM**

Contour interval 100 gammas  
upto 500 gammas.

**MAGNETIC SURVEY**  
PLENTY MINERAL CLAIM



**HOST**

**NIC**

**ZIP**

**CAMEO LAKE**

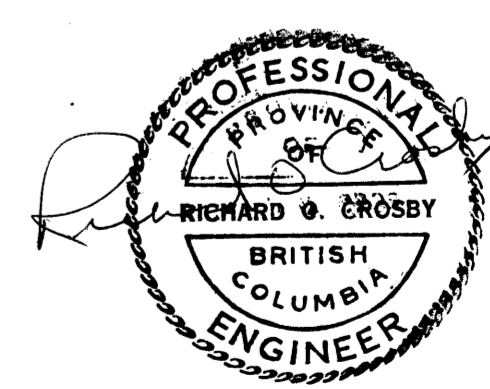
39 Readings

52 Readings

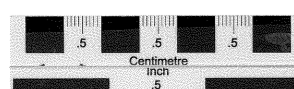
To Porcupine Lake

B/L 3000

BEAR LAKE MAIN



**GRID LOCATION**  
HOST & ZIP MINERAL CLAIMS



RICHARD O. CROSBY & ASSOCIATES LTD., VANCOUVER, B. C.

**MAGNETIC SURVEY & GRID LOCATION**  
**PLENTY, HOST AND ZIP MINERAL CLAIMS**

NICOLA MINING DIVISION  
B. C.

**PROPERTY FILE**

0 100 200 300 METRES

826113

SCALE 1:5000      DATE: DEC. 1978      R.O.C.