

REPORT ON
ELECTROMAGNETIC SURVEY
GOLD, AU, KING AND AG
MINERAL CLAIMS
BARKERVILLE AREA, BRITISH COLUMBIA

by

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

Location: About 2 kilometers west
of Barkerville, $53^{\circ}04'N - 121^{\circ}31'W$ - NTS 93H/4E
Cariboo Mining Division

March 21 - 25, 1978

December 1 - 5, 1978

March 13 - 14, 1979

Vancouver, B.C.

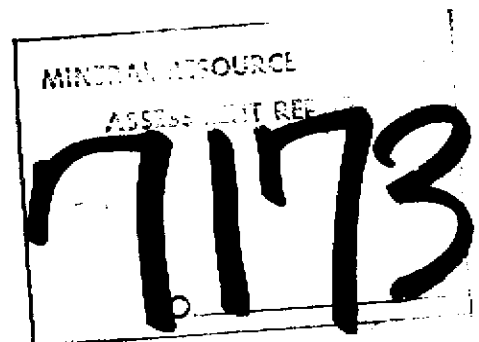


TABLE OF CONTENTS

	Page
SUMMARY	1.
INTRODUCTION	2.
GEOLOGY	3.
DISCUSSION OF RESULTS	3.
CONCLUSIONS AND RECOMMENDATIONS	4.
ASSESSMENT DETAILS	5.
STATEMENT OF COSTS	6.
CERTIFICATION	7.

MAPS (in envelope)

	<u>Scale</u>
PLATE I - CLAIM AND GRID LOCATION	1:10700
PLATE II - GEOPHYSICAL PROFILES	1:6000

SUMMARY:

VLF electromagnetic surveying has indicated conductive zones which may be associated with gold mineralization. Additional surveying is recommended to better define these areas.

REPORT ON
ELECTROMAGNETIC SURVEY
GOLD, AU, KING AND AG MINERAL CLAIMS
BARKERVILLE AREA, BRITISH COLUMBIA

INTRODUCTION:

During the periods March 21 - 25, December 1 - 5, 1978, and March 6 - 8, 1979, geophysical surveys conducted by Mr. R. Sheldrake, Mr. W. Booth and Mr. H. Burnett were completed over portions of the Gold, AU, King and AG mineral claims in the Barkerville Area, British Columbia.

The mineral claims are located about 2 kilometers west of Barkerville and 53 kilometers east of Quesnel, British Columbia in the Cariboo Mining Division. (Figure 1)

A Crone EM-16 VLF electromagnetometer was used on all lines of the survey and an Max-Min horizontal loop electromagnetic system was employed on one line of the survey grid.

For the present survey, grid lines were oriented east-west and separated by 360 meters. (Plate 1) Stations were occupied at 30 meter intervals. For the VLF survey, station NPG Seattle was read facing west. The one Max-Min line, L-5, was completed at a frequency of 3555 Hz. A total of 12 kilometers of traverses was surveyed.

The purpose of the survey was to locate conductive sources which could indicate veins or structure which could be associated with lode gold.

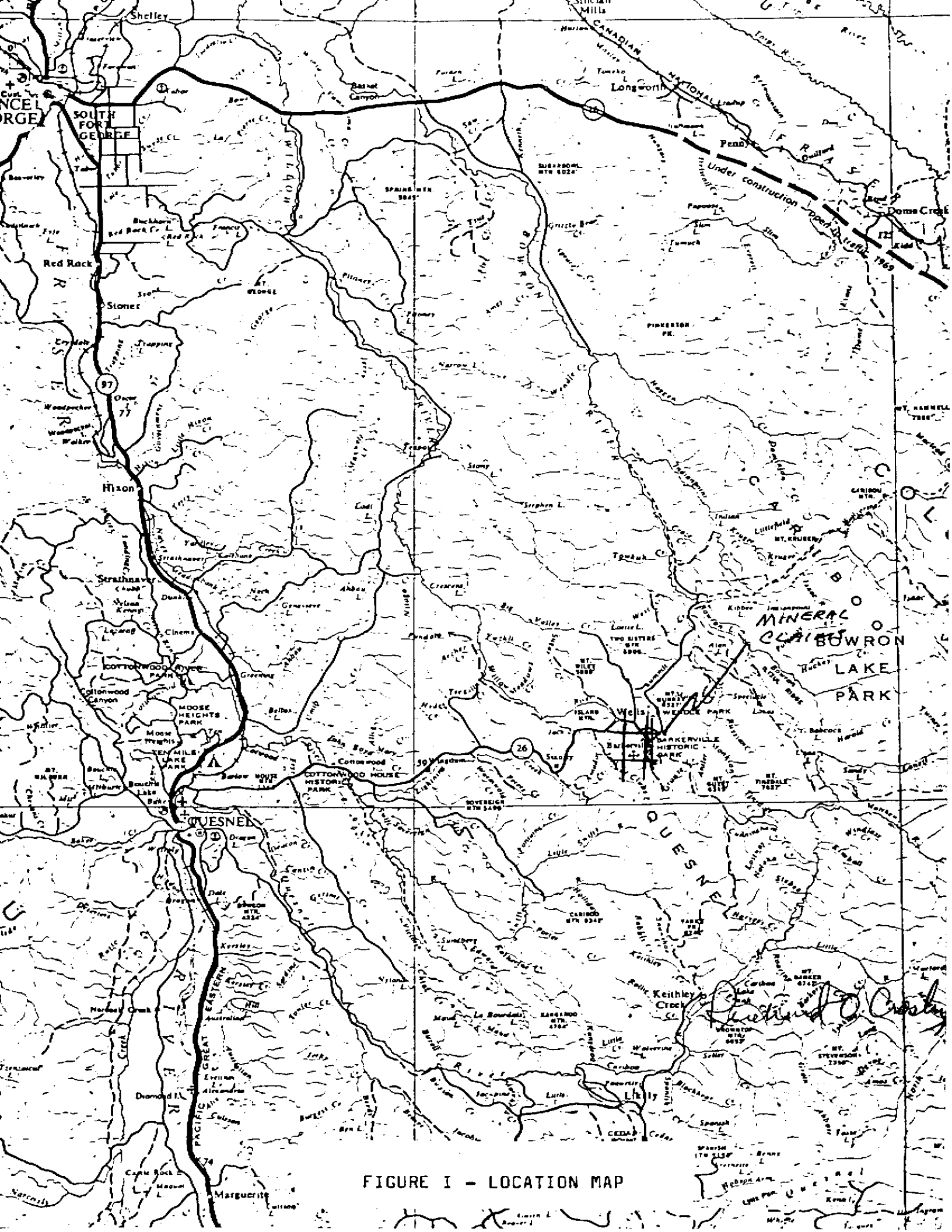


FIGURE I - LOCATION MAP

GEOLOGY:

A description of the regional geology of the area including and surrounding the survey grid is found in GSC Paper 72-35, Geology of McBride Map-Area, British Columbia, R.B. Campbell, E.W. Mountjoy, and F.G. Young (1973).

Proterozoic schists, phyllites, argillites, sandstones and shales of the Kaza Group and the Isaac Formation underlie the claim group. The significant commercial mineralization has been placer and lode gold deposits. The lode deposits consist of quartz veins and pyritic replacements.

DISCUSSION OF RESULTS:

Plate 2, on a scale of 1:6,000, shows the electromagnetic results in profile. Both the in-phase and out-of-phase (quadrature) components of the transmitted field are plotted at a vertical scale of 1 cm equals 10%. Line 5 indicates the in-phase component of a Max-Min electromagnetic profile completed at 3555 Hz. This profile was completed along stations every 100 meters.

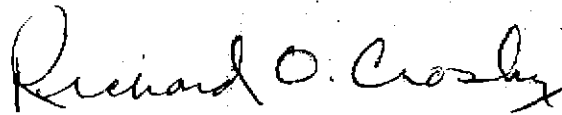
The observed electromagnetic in-phase responses range between -20 to +60% of the secondary field. Distinct zones of increased amplitudes represent those areas underlain by highly conductive bed rock. Examples occur on the western ends of L-3 and L-4 and other distinct portions of L-1 and L-2.

Definite local conductive sources representing either fault zones, geologic formations and/or vein structures were recorded on all traverses.

CONCLUSIONS AND RECOMMENDATIONS:

The present geophysical survey recorded anomalous electromagnetic responses over portions of the survey grid. In this geological environment, these responses may be associated with gold mineralization. It is recommended that in-fill surveying be completed in order to better define their sources and to then test these areas by diamond drilling.

Respectfully submitted,

A handwritten signature in cursive script that reads "Richard O. Crosby". The signature is written in dark ink and is positioned centrally below the typed name.

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

ASSESSMENT DETAILS

CLAIMS: GOLD, AU, KING and AG

LOCATION: BARKERVILLE AREA, B. C.
53°04'N - 121°31'W
Cariboo Mining Division

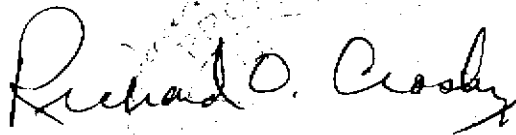
TYPE OF SURVEY: VLF ELECTROMAGNETIC

OPERATING MAN DAYS: 16 DATES: March 21-25, 1978
December 1-5, 1978
CONSULTING MAN DAYS: 3 March 6-8, 1979

COMPILING MAN DAYS: 1 KILOMETERS OF SURVEY: 12

CONSULTANT: RICHARD O. CROSBY
422 - 510 W. Hastings Street
Vancouver, B.C.

FIELD PERSONNEL: R. Sheldrake, Vancouver, B.C.
W. Booth, 1201 - 208th St.
Maple Ridge, B.C.
H. Burnett, Vancouver, B.C.


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

STATEMENT OF COSTS

WAGES:

R. Sheldrake:
March 21 - 25, 1978 \$ 750.00
March 13 - 14, 1979 300.00

W. Booth:
March 21 - 25, 1978 250.00

H. Burnett:
December 1-5, 1978 500.00

CONSULTING:

R. Crosby: 3 days @ \$300/day 900.00

EQUIPMENT RENTAL: 200.00

TRANSPORTATION: 600.00

ROOM AND BOARD: 510.00

TOTAL COSTS TO DATE \$4010.00

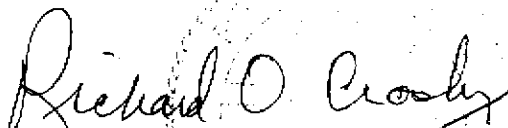
Richard O. Crosby

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 W. 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 23 years.
4. I have a 20% interest in the mineral claims discussed in this report.
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.

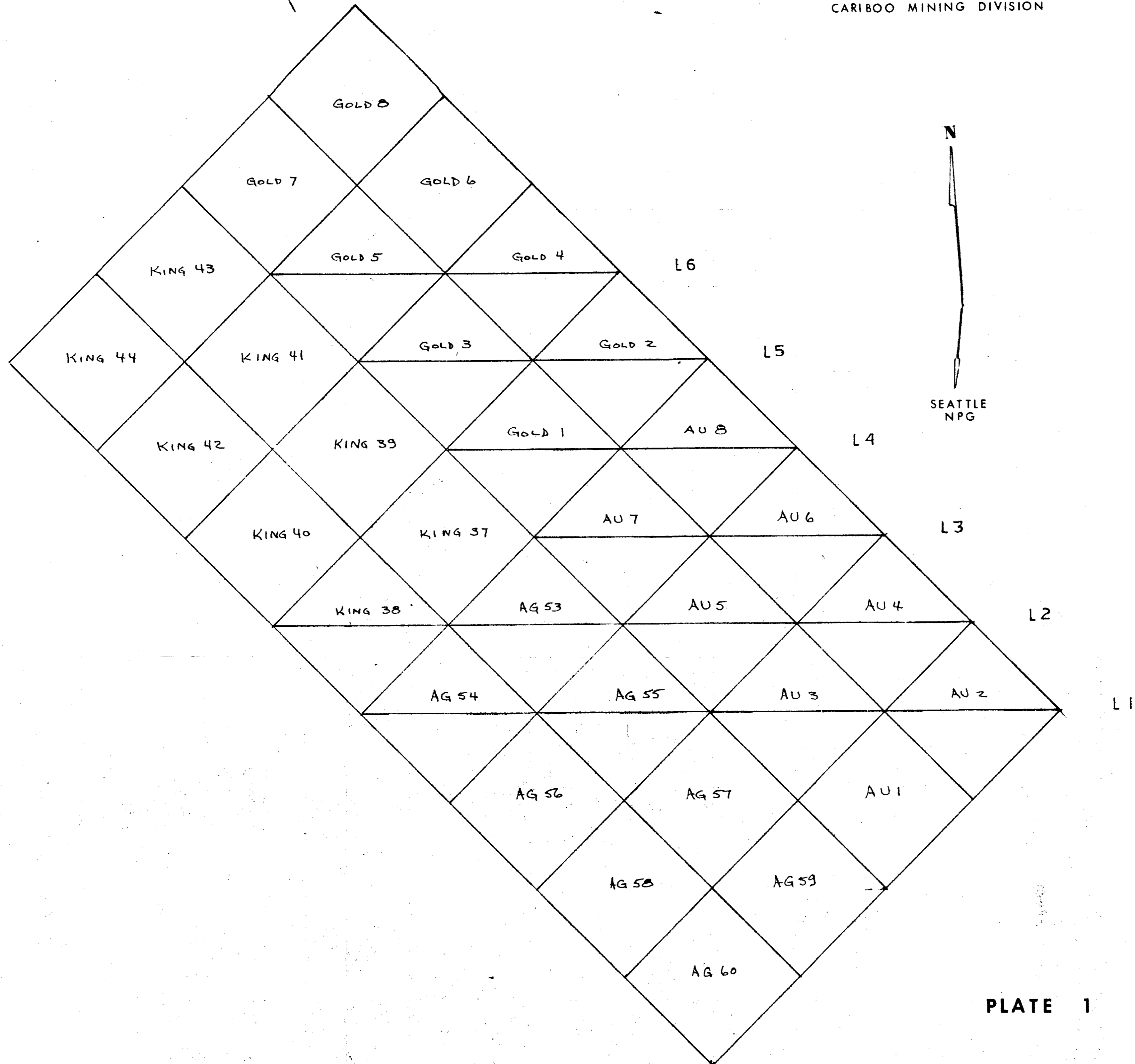
DATED at VANCOUVER, BRITISH COLUMBIA, this 10th day of March, 1979.



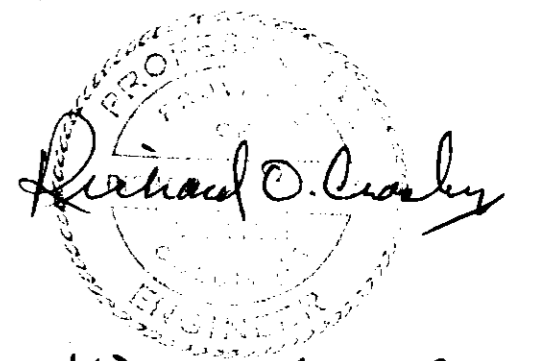
RICHARD O. CROSBY, B.Sc., P.Eng.

CLAIM AND GRID LOCATION

BARKERVILLE AREA BC
CARIBOO MINING DIVISION



SEATTLE
NPG



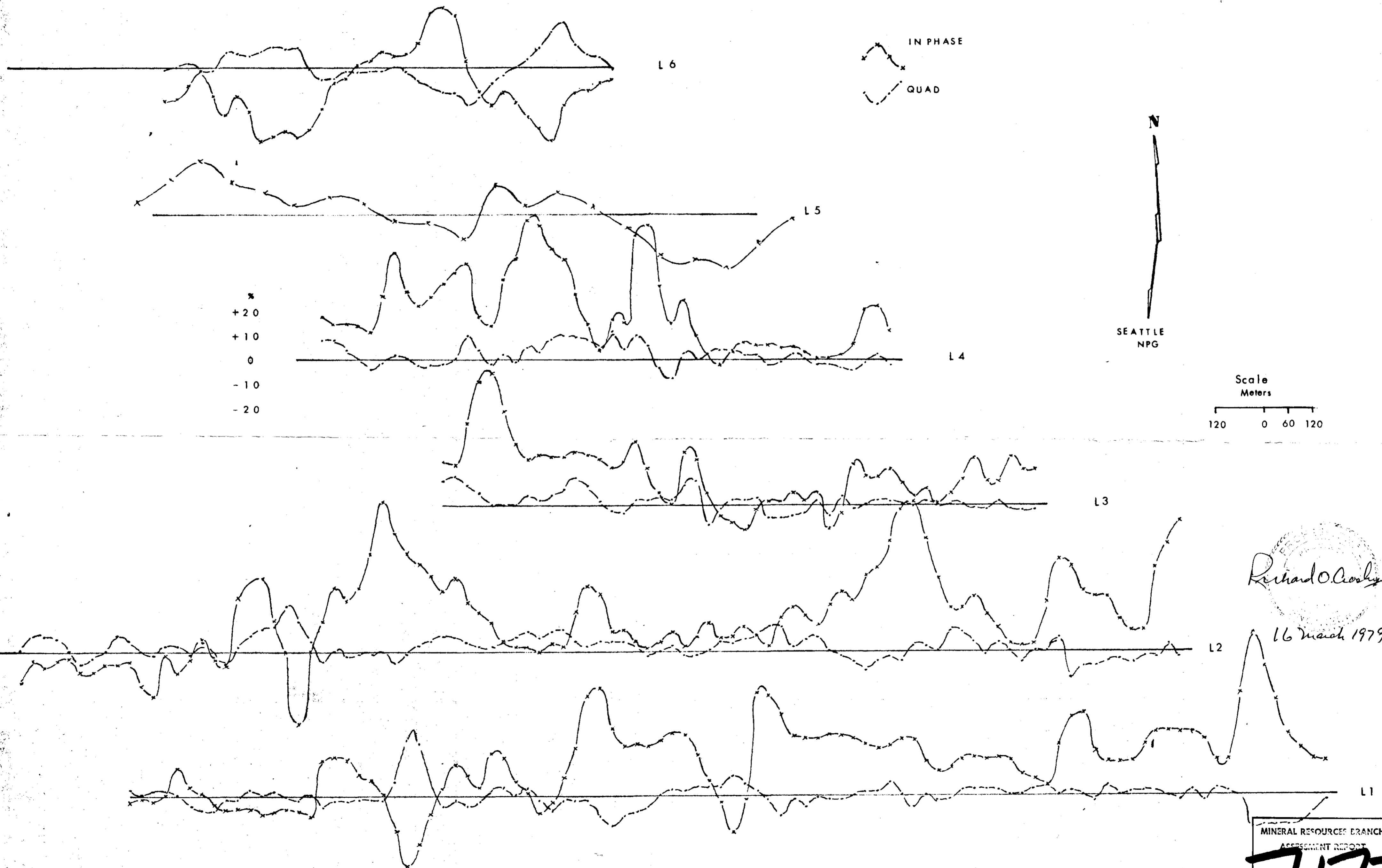
16 March 1979

MINERAL REGION

7173

PLATE 1

1



x
+20
+10
0
-10
-20

N
SEATTLE
NPG

Scale
Meters
120 0 60 120

Richard O. Coakley
16 March 1979

ELECTROMAGNETIC PROFILES

Plate 2
②

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7173