A GEOPHYSICAL REPORT ON AN ELECTROMAGNETIC SURVEY

Property; Code & Fen Claims

Location: 21 miles SW of Houston, B.C.

Lat. 54°10'N-Long. 126°50'W

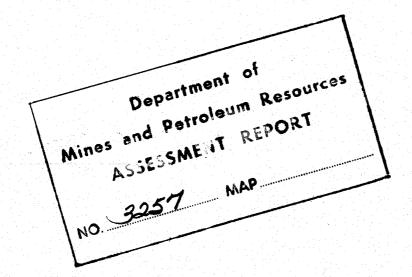
Mining Div.: Omineca

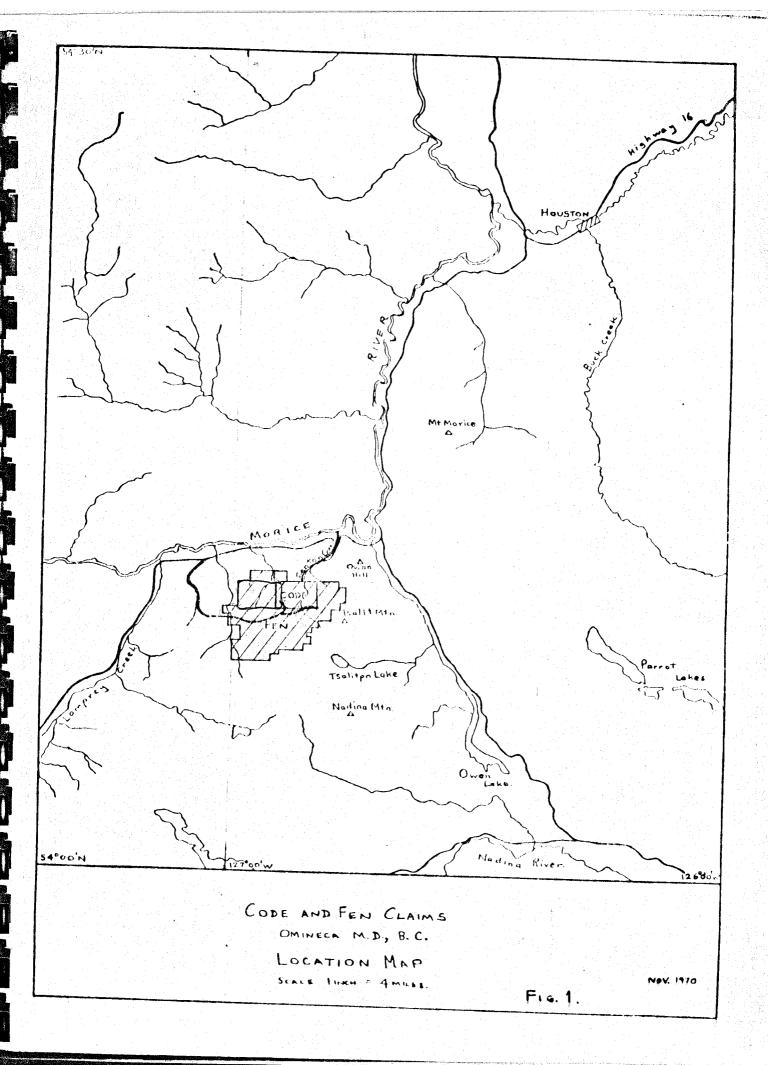
Province: British Columbia

Claim Owner: Anaconda American Brass Limited

Date-Work: July 22-30, 1971
Date-Report: Sept. 15, 1971

Report by: T. A. Conto, P. Eng.





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INTRODUCTION

The Code-Fen property consists of 201 claims which have been consolidated into six groups. During the period July 22 - July 30, 1971, an electromagnetic survey was carried out over parts of these claims as shown in Plate I, the major part of the work being done on Group 70-3. The field work was under the supervision of Thomas A. Conto, P. Eng.

LOCATION & ACCESSIBILITY

The Code-Fen claims are located at the headwaters of Fenton Creek, approximately 21 miles southwest of the town of Houston in the Omineca Mining Division, B. C. (see Fig. I). Access to the property is generally provided by two logging roads leading off the Maurice River Road, but due to the heavy spring runoff, these roads were washed out, necessitating use of a helicopter for access and supply.

SURVEY EQUIPMENT & FIELD PROCEDURE

The equipment used for the survey was the Crone JEM standard unit which operates at 480 or 1800 cps. The method is commonly referred to as the Crone "shootback" method. The reader is referred to page 448 of "Interpretation Theory in Applied Geophysics" by F. S. Grant and G. R. West, McGraw-Hill Book Co. 1965, for a brief summary of the method.

In the "shootback" system two nearly identical coils are used to alternately transmit and receive. The method minimizes noise introduced in most two-coil ground systems by rough terrain. These errors are introduced by variable separation of coils, misalignment of the coils, and elevation differences between coils.

The field operation involves moving both coils at a constant separation in tandem along a line. This separation is usually about 200 feet at 1800 cps with a maximum possible separation of 300 feet in most British Columbia environments. At each station each coil alternately transmits and receives, producing two tilt angles which are summed algebraically. The resultant tilt angle, due to consideration of field symmetry, is near zero if no conductors are present, even in very rough terrain. Interpretation procedures for thin conductors dipping greater than 30° usually allow a reasonable estimation of strike, lateral position, dip, depth and conductivity-thickness produced. However, as the depth relative to coil separation increases, definitive character in the resultant curves tends to diminish.

PURPOSE OF THE SURVEY

Geological, geochemical and geophysical investigation on the Code-Fen property suggested the possibility of vein-type conductive mineralization. The survey was designed to detect near-surface conductors striking east-west with a strike length of at least 800 feet in the area of the survey. Such conductors could be economically significant in the Code-Fen geological environment.

DETAILS OF SURVEY

The survey was run on eight north-south lines named 216 east to 272 east, inclusive. One additional line, 200 east, located 1600 feet west of the grid, was also traversed. The reading interval was 100 feet with a coil separation of 200 feet. Readings were normally taken at 1800 cps with additional readings at 480 cps taken at the operator's discretion. Plate I shows the grid relative to the claim boundaries at a scale of one inch to one thousand feet. Plate II shows the readings in profile form along each line at a scale of 1"=400 feet. The open circles indicate the low frequency readings. The north coordinate of the profiles correspond to the north coordinates indicated on Plate I. The profile scale is one inch equals 20 degrees.

RESULTS OF THE SURVEY

The survey results failed to indicate the presence of conductors in areas of dry ground. Flat lying poor conductors were indicated in and adjacent to most wet and/or swampy areas. The flat lying poor conductors are thought to be indicating conductivity contrasts between wet and dry sub-surface conditions, rather than mineralization.

T. A. Conto

APPENDIX I

ASSESSMENT DETAIL

Property:

Code-Fen claims

Owner:

Anaconda American Brass Limited

Mining Division:

Omineca

Province: Date of Work: British Columbia July 22-30, 1971

Location:

21 miles SW of Houston, B.C. 54°10'N-126°50'W

Type of Survey:

Geophysical (Electromagnetic)

Operating Field Shifts: Operating Man Shifts: 27 Data Processing & Drafting: 2 2 Accounting & Typing:

Personnel Employed on Survey

Supervision:

Thomas A. Conto, B. Sc., P. Eng.

Data Processing:

Drafting:

P. C. Emery

Accounting:

J. Vinnell, B. Pullen

Typing:

R. Broderick

Field Technicians

Name	Category	Rate(day)	Worked	Period	Wage
T. A. Conto	Super. & Op	per. \$40	9	July 22-30	\$360
D. E. James	Helper	30	9	11	270
R. Morehouse	Helper	30	9	Ħ	270
					\$900

Declared before me at the

Province of British Columbia, this

A Commissioner for taking Affidavits within British Columbia A Modery Public in and for the Province of British Columbia

Sub-mining Recorder

APPENDIX II STATEMENT OF COSTS

Field Crew:

	Salaries (as per Appendix I) Camp Supplies Transportation (Helicopter)	\$ 900 155 550
		1,605
Interpretation	& Report Preparation:	
	Drafting & Typing Data Processing & Map Compilation	30 40
	Accounting	<u>25</u>
		95
	Total	\$ 1,700

Total Line Feet = 34,600
Total Line Feet on 70-3 Group 28,900
Total Sum Applicable to Fen 70-3 Group = 84% = \$1,428

Total Line Feet on 70-4 Group 5,400
Total Sum Applicable to Fen 70-4 Group = 15% = \$255

Declared before me at the City

of

Vansouver

in the

Province of British Columbia, this 23

day of

3

1971 ,A.D.

Et PE

A Commissioner for taking Affidavits within British Columbia A Notary Public in and for the Province of British Columbia

Sub-mining Recorder

CERTIFICATE

I, Thomas A. Conto, of the town of Britannia Beach, Province of British Columbia, do hereby certify that:

- 1) I am a geophysicist residing at Lions Bay, British Columbia.
- 2) I am a graduate of the University of Utah with a B.Sc. Degree (1960) in Geophysics.
- 3) I am an associate member of the Society of Exploration Geophysicists.
- 4) I have been practicising my profession for eight years.
- 5) I am a member of the B. C. Association of Professional Engineers.
- 6) I have no direct or indirect interest, nor do I expect to receive any interest, direct or indirect, in the property of Anaconda American Brass Limited.
- 7) The statements made in this report are based on a study of published and unpublished private reports and geophysical data.

Dated at Britannia Beach this 15 day of September 1971

Thomas A. Conto, B.Sc. Geophysics and P. Eng.

