

2518

A GEOPHYSICAL REPORT ON
AN INDUCED POLARIZATION SURVEY

Property: DOT Claims
Location: 7 miles North of Princeton
49° 120° S.E. 92H/10E
Mining Division: Similkameen
Province: British Columbia
Report by: Thomas A. Conto, B. Sc.
Rod Macrae, P. Eng.
Claim Owner: Anaconda American Brass Limited
Date of Work: 12 June - 23 July 1970

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MAPS

- | | |
|------------------------------|-----------------|
| #1 Claim & Line Location Map | In Pocket (Cal) |
| #2 Induced Polarization Map | In Pocket (Cal) |
| #3 APPARENT RESISTIVITY | " " " |

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2518 MAP

Introduction

The DOT claims consist of two groups:

DOT 1 - consisting of DOT 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 85, 86, 87, 87, 88, 88, 89, 90, 91, 91, 92; record numbers - 25703-35712 inclusive, 26088, 26089, 26090, 25723, 25724, 26091-26096 inclusive.

DOT 2 - consisting of DOT 51-62 inclusive, DOT 73, 74, 76, 77, 78, 79, 81, 82 and Elephant 1-4 inclusive; record numbers - 25691-25702 inclusive, 25713, 25714, 25716, 25717, 25718, 25719, 25721, 25722. The Elephant 1-4 do not as yet have record numbers.

Total line footage of 92,100 was performed on the two groups: 46,900 applicable to the DOT 1 group, 43,100 to the DOT 2 group, and 2,100 not applicable to this report.

A geophysical Induced Polarization survey was run over the DOT claims in order to delineate the distribution of the near surface "metallic" mineralization. The work was done during the period June 12 to July 23, 1970, under the general supervision of Rod Macrae, P. Eng., and Thomas A. Conto. The instrument operator was Peter Thompson.

Location & Accessibility

The DOT claims are located 3,000 ft. N 30°E from the junction of Highway 5 and the Missezula Lake Road which have coordinates of 120°31'00" longitude and 49°32'15" latitude. Access to the claims is by a system of dirt logging roads which require four-wheel drive vehicles during wet weather.

Survey Equipment and Field Procedure

The geophysical concept of Induced Polarization (I.P.) is thought to be the electro-chemical phenomenon that occurs at a solution - "metallic" mineral interface when the mode of conduction changes from ionic to electronic. When a D.C. current is transmitted through a "grounded" dipole, the measured voltage in a nearby dipole will not drop instantly to the S.P. voltage, but will decay with time. This voltage decay is the measurable I.P. effect which results from various types of polarization or blocking. The most predominant type is the solution - "metallic" mineral interface.

This effect is measured in various ways and is reported as the I.P. parameter. The variation in instrumentation and mathematical treatment of the method results in such terms as "percent frequency effect", "chargeability", phase angle and "metal factor". The phase angle is the angle whose tangent is the area under the voltage decay curve of the receiver dipole when the current is off divided by the area when the current is on, assuming the current on and off times are equal.

The equipment used for the survey was manufactured by Anaconda. The transmitter uses a pulse time of five (5) seconds. The receiver responds to the current on and off voltages and from this information, a phase angle is calculated. The measurements are made along a surveyed line using a pole-dipole

electrode configuration with a variable spacing between current and near leg of the receiver dipole. Normally, at least two "a" spacings are used for each traverse. The plotting point is midway between the current electrode and the near potential electrode. The phase angle is reported in minutes of phase shift.

Purpose of the Induced Polarization Survey

The survey was conducted to delineate the near surface distribution of "metallic" mineralization in an area that was geochemically anomalous and geologically of interest.

Details of the Survey

Chain and compass lines were cut and used for control on the survey. Stations were marked at 100 foot intervals along each line. Readings were taken every 200 feet with "a" spacings of 200 feet and "n" spacings of one and two. The plotting point is midway between the current electrode and the near potential electrode.

Results of the Survey

Figure 1 indicates the location of the I.P. lines relative to the claim boundary. Figure 2 and 3 show the I.P. and apparent resistivity readings in profile form. Readings in excess of 30 minutes are normally considered anomalous. Several zones are obviously anomalous. Additional detailed I.P. work, geologic mapping, other geophysical tests and physical testing will be necessary to more fully evaluate the anomalous response.

Thomas A. Conto

Rod Macrae, P. Eng.

TAC:RB

Declared before me at the _____
of _____, in the _____
Province of British Columbia, this _____
day of _____, A.D. _____

APPENDIX I

ASSESSMENT DETAIL

Property: DOT CLAIM GROUPS
 Owner: Anaconda American Brass Limited
 Mining Division: Similkameen
 Province: British Columbia
 Date of Work: 12 June - 23 July 1970
 Location: 7 miles North of Princeton 49°120°S.E.
 Type of Survey: Geophysical (Induced Polarization)
 Operating Field Man Shifts: 143
 Operating Field Crew Shifts: 37
 Supervisory Shifts: 4
 Data Processing Shifts: 7
 Accounting Shifts: 1
 Map Compilation Shifts: 1
 Drafting & Typing Shifts: 1

PERSONNEL EMPLOYED ON SURVEY

Supervision: Rod Macrae, Thomas A. Conto
 Data Processing: Allan Saxberg, M. E. Deyelle
 Map Compilation: P. C. Emery, J. Vinnell
 Accounting: J. Vinnell
 Typing: R. Broderick

Field Technicians

<u>Name</u>	<u>Category</u>	<u>Rate/Mo.</u>	<u>Days Worked</u>	<u>Period</u>	<u>Wages & Fringes</u>
Peter Thompson	Operator	\$ 500	37	12 June-23 July	\$ 774.89
Neil Osborne	Helper	425	34	" "	605.26
Helmut Jenak	Helper	450	37	" "	697.40
John Percheson	Helper	425	31	23 " 23"	551.86
Pete Favelle	Helper	475	4	12 " 19 June	78.03
					\$ 2,707.44

Declared before me at the

of
 Province of British Columbia, this
 day of

, in the

AD

APPENDIX II
STATEMENT OF COSTS

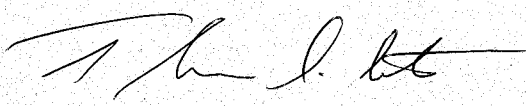
Field Crew:

Salaries (as per appendix I)	\$ 2,707.44
Room & Board @ \$12.88/man/day	1,842.40
Transportation @ \$18.00/crew day	666.00
Communications (radiophone & telephone) @ \$45/mo. + \$96.00	141.00
Equipment depreciation @ \$300/mo.	350.00
Supervision @ \$35/day + fringes @ 11%	155.40

Interpretation & Report Preparation:

Map compilation \$30/day + fringes @ 11%	33.30
Data processing \$30/day + fringes @ 11%	233.10
Drafting \$30/day + fringes @ 11%	33.30
Typing \$25/day + fringes @ 11%	27.75
Accounting \$30/day + fringes @ 11%	33.30

\$ 6,222.99



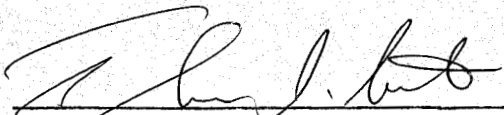
Declared before me at the
of
Province of British Columbia, this
day of
, in the
, A.D.

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 Britannia Beach, British Columbia.
2. I am a graduate of the University of Utah with a B.Sc. Degree (1960) in Geophysics.
3. I am an active member of the Society of Exploration Geophysicists.
4. I have been practising my profession for seven years.
5. 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.
6. The statements made in this report are based on a study of published literature and unpublished private reports and geophysical data.

Dated at Britannia Beach
this 30 day of July 1970.



Thomas A. Conto, B. Sc. Geophysics

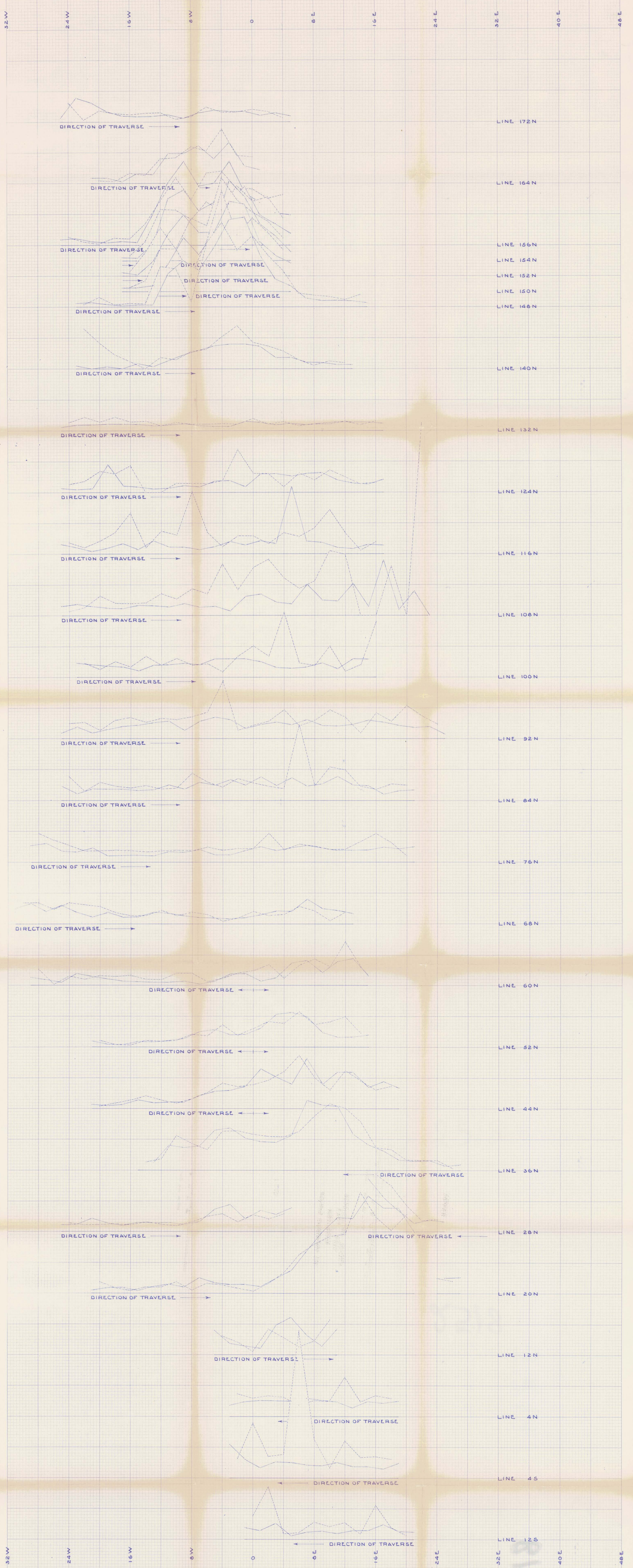
STATEMENT OF OPERATOR'S QUALIFICATIONS

I, Thomas A. Conto, do make the following statement:

1. Peter Thompson was the instrument operator for the Geophysical Survey conducted by Anaconda American Brass Limited on the DOT claim group.
2. Peter Thompson worked on an induced polarization crew for five months prior to the start of this survey.
3. Peter Thompson has been trained by Anaconda personnel to be an instrument operator and I consider him fully qualified.



Thomas A. Conto



ANACONDA AMERICAN BRASS LTD WESTERN EXPLORATION DIVISION

DOT
SIMILKAMEEN M.D., B.C.

U.L.F. - I.P.

SCALES: HORIZONTAL 1" = 400'
PROFILES 1" = 50 MINUTES

DATA BY: P. THOMPSON JUNE - JULY, 1970

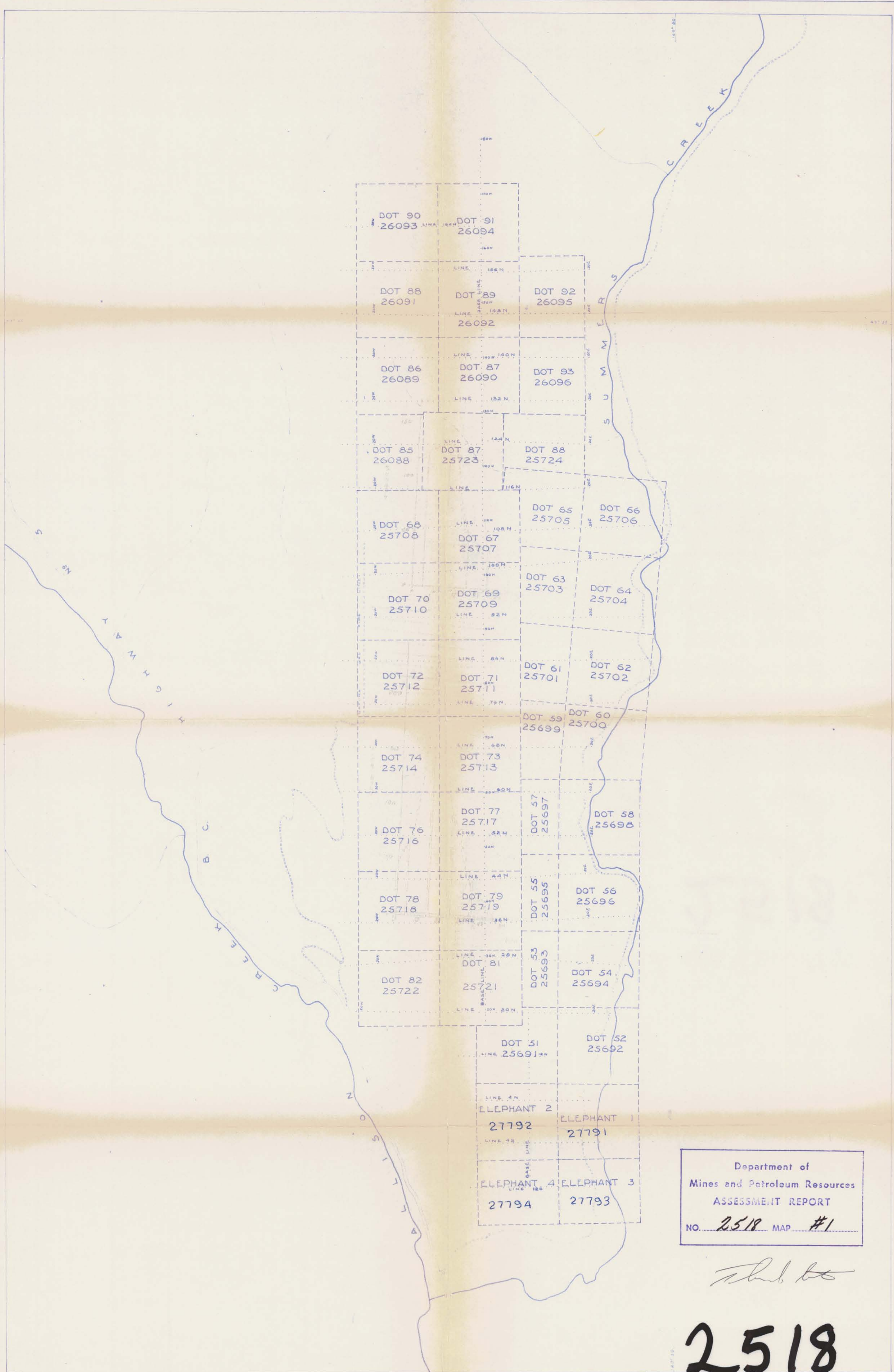
2518

Declared before me at the
of
Province of British Columbia, this
day of
.A.D.

TO ACCOMPANY GEOPHYSICAL REPORT BY T.A. CONTO AND
R. MACRAE (P. ENG.) DATED JULY 30, 1970.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2518 MAP #2

A Commissioner for Lands and Mines with the Province of British Columbia
A Notary Public in and for the Province of British Columbia



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2518 MAP #1

John B. [Signature]

2518

THE 100 FOOT CHAINAGES OF THE PICKET LINES ARE SHOWN.
CLAIM NAMES AND RECORD NUMBERS ARE SHOWN.
DOT 75 AND 80 FRACTIONS ARE NON-EXISTENT.
DOT 51, 53, 55, 57, 59, 61, 63, AND 65 SHOULD HAVE BEEN SHOWN AS
BEING PRIOR TO DOT 67, 69, 71, 73, 77, 79, AND 81.

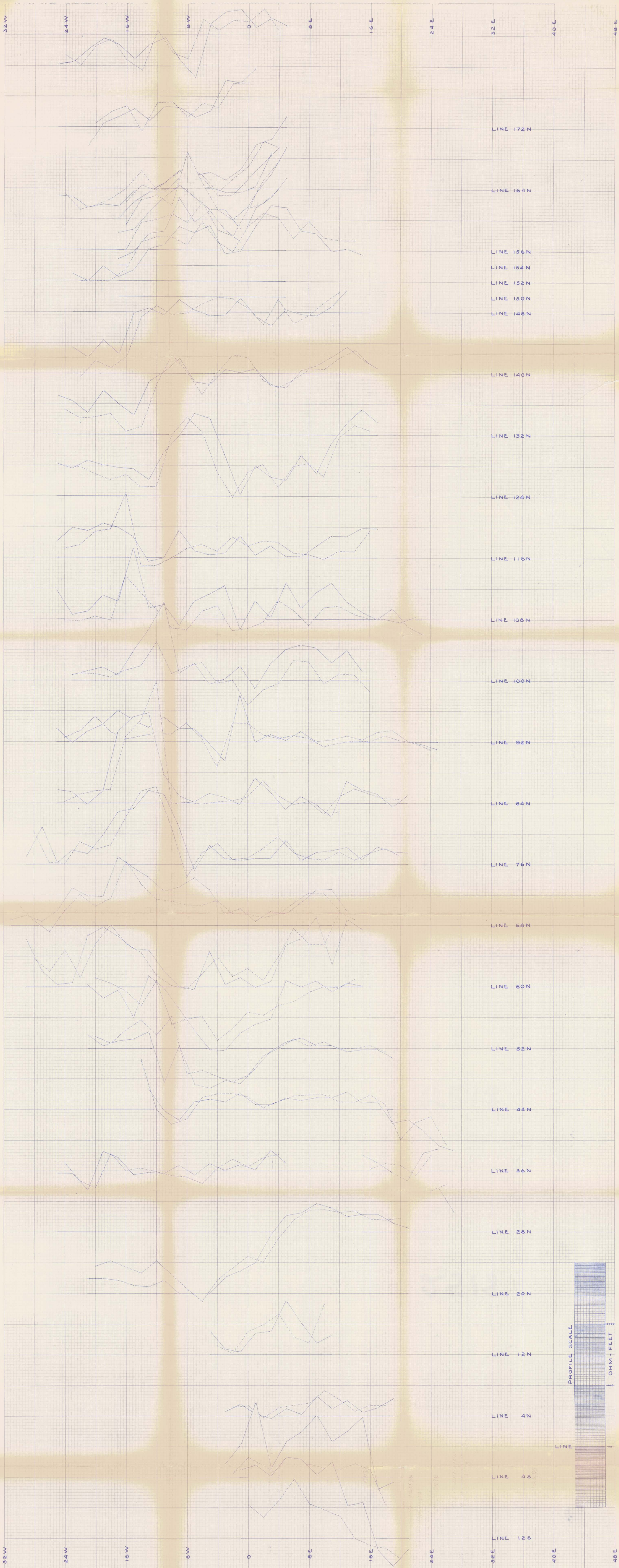
ANACONDA AMERICAN BRASS LTD WESTERN EXPLORATION
Declared before me at the
of
DOT
SIMILKAMEEN M.D.B.C. Province of British Columbia, this
day of
SCALE: 1"=1000'

TO ACCOMPANY GEOPHYSICAL REPORT BY T.A. CONTO AND
R. MACRAE (P.ENG.) DATED JULY 30, 1970.

John B. [Signature]

FIGURE 1
A Commission for Taking Affidavits within British Columbia
A Notary Public in and for the Province of British Columbia

MADE IN CANADA
 KENNEL P. EBER CO.
 MADE IN CANADA
 KENNEL P. EBER CO.
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 KENNEL P. EBER CO.
 MADE IN CANADA
 KENNEL P. EBER CO.
 MADE IN CANADA
 KENNEL P. EBER CO.



— 200 FOOT SPREAD
 - - - 400 FOOT SPREAD

ANACONDA AMERICAN BRASS LTD WESTERN EXPLORATION DIVISION

DOT
 SIMILKAMEEN M.D., B.C.
APPARENT RESISTIVITY

SCALES: HORIZONTAL 1" = 400'
 PROFILES LOG ILLUSTRATED
 DATA BY: P. THOMPSON JUNE-JULY, 1970

2518

Declared Before me at the
 of
 Province of British Columbia this
 day of

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2518 MAP #3

TO ACCOMPANY GEOPHYSICAL REPORT BY T.A. CONTO AND
 R. MACRAE (P. ENG.) DATED JULY 30, 1970.

A Geophysical Log of the Province of British Columbia
 A Ready Public File for the Province of British Columbia