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A GEOPHYSICAL REPORT ON AN INDUCED POLARIZATION SURVEY OWL CLAIM GROUP OMINECA MINING DIVISION, BRITISH COLUMBIA Property: Owl Claim Group Location: 13 miles SE of Endako, B.C. 53° 124° NW 93F /15 W Report by: Rod Macrae, P. Eng., Thomas A. Conto, B. Sc. Claim Owner: Anaconda American Brass Limited Date of Work: 5 August - 15 August 1969

CONTENTS

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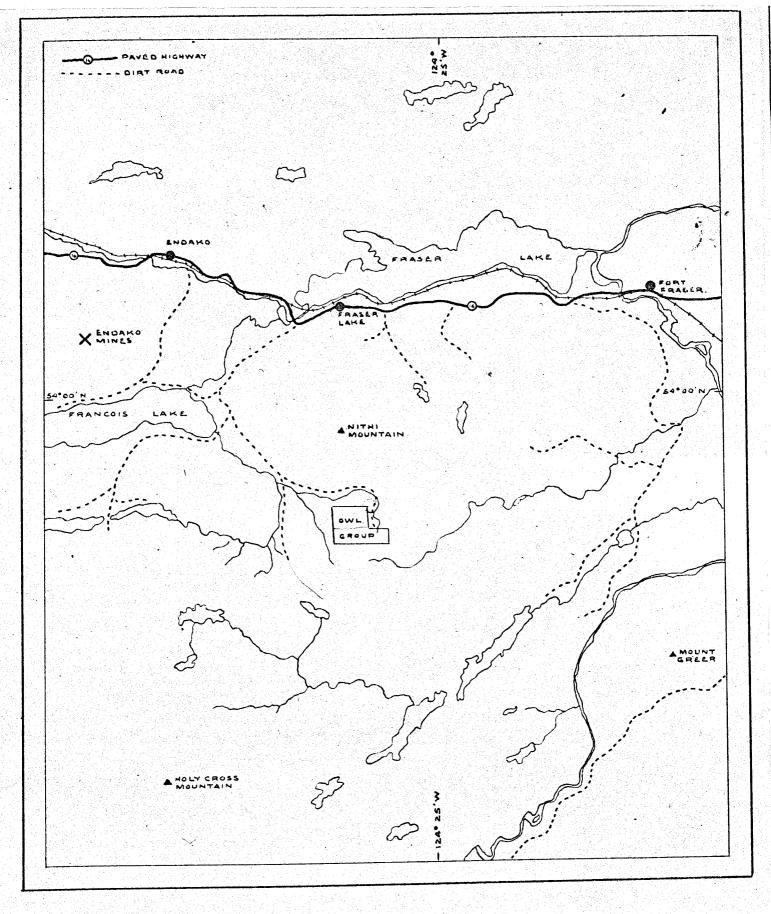
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MAPS

#/ Location Map		In	n Front
#2 Claim and Line :	Location Map	Ir	n Pocket
#3 Induced Polariza		Ţ	n Pocket

Mines and Patroleum Resources ASSESSMENT REPORT NO. <u>2455</u> MAP		D	opartmer	it of	
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ANACONDA AMERICAN BRASS LTD. WESTERN EXPLORATION DIVISION

OWL GROUP OMINECA M.D., B.C. LOCATION MAP SCALE: 1" = 4 MILES

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Introduction

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A TRANSPORT

The Owl Group consists of the Owl 1 - 11, Owl 13-17, Owl 19, Nit 1-11 and the Nit 13-16. Record numbers 41545 - 41555, 41557 -41561, 41563, 55608 - 55618 and 55620 - 55623.

A geophysical induced polarization survey was re-run over portions of the Owl Group during the period 5 August to 15 August, 1969. The field work was under the general supervision of Rod Macrae, P. Eng., and Thomas A. Conto, B. Sc. The instrument operator was David Broswick.

Location and Accessibility

The Owl Group is located about 13 miles SE of the town Endako, British Columbia. Road access to the property is by a dirt road which goes south from highway 16 a few miles west of the town of Fraser Lake. (See location map, plate 1). A four wheel drive vehicle is necessary to reach the claims during the wet season.

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 parameter used in our equipment is the concept of phase angle. 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 a follow up of earlier induced polarization work performed on the property. The property is thought to have economic potential on the basis of molybdenum mineralization and therefore weak response must be closely scrutinized.

Details of the Survey

Chain and compass lines from the 1968 work were used. Readings were taken every 200 feet with spreads of 200 and 400 feet. The plotting is midway between the current electrode and the receiver electrode. A pole dipole assay was employed.

Results of the Induced Polarization Survey

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The survey verified the weak pattern of response on several lines, however it was of such low amplitude that no assurance of "metallic" mineralization could be interpreted.

Province of British Columbia, this day of

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Declared before me at the

Thomas A. Conto

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

TAC:MD 11 February 1970

APPENDIX I

ASSESSMENT DETAILS

Property:	Owl Claim Group
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Owner:	Anaconda American Brass Limited, British Columbia
Mining Division:	Omineca
Province:	British Columbia
Location:	13 miles SE of Endako, British Columbia
Date of Work:	5 August - 15 August 1969
Type of Survey:	Geophysical (Induced Polarization)
Operating Man Days:	1997년 38 - 1997년 1997년 2017년
Operating Crew Days:	11. sec. 11. sec. sec. sec. sec. sec. sec. sec. sec
Supervisory Days:	그는 그는 그는 2000년 소리는 그는 것은 것을 받았는 것을 받았는 것을 물었다.
Data Processing Days:	
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Personnel Employed on Survey

Supervision:	Rod Macrae, Thomas A. Conto
Data Processing:	D. Broswick
Map Compilation:	J. Vinnell
Accounting:	J. Vinnell
Drafting:	P. C. Emery
Typing:	Ruth Broderick
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<u>Name</u>	Category	Monthly <u>Rate</u>	Days <u>Worked</u>	Period	Wage & Fringe
D. Broswick H. Holm	Operator Helper	\$ 550 450		5 Aug 15 Aug.69 7 Aug 14 Aug.69	\$ 258.24 153.69
P. Bruce M. Woolridge	u u uerber	450 425		5 Aug 15 Aug.69 7 Aug 14 Aug.69	211.29 145.15

\$ 768.37

Thomas A. Conto

Neven Rod Macrae, P. Eng.

A Commissioner for taking Affidavits within British Columbia A Notary Public in and for the Province of British Columbia SUB - MINING RECORDER

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APPENDIX II

STATEMENT OF COSTS

Salaries (as per appendix I)	768.37
Room & Board @ \$12/man/day	572.00
Transportation @ \$23/crew/day	253.00
Supervision \$35 + 11% (fringe)	77.70
Data Processing \$30 + 11% (fringe)	33.30
Map Compilation \$30 + 11% (fringe)	33.30
Accounting \$30 + 11% (fringe)	33.30
Drafting \$30 + 11% (fringe)	66.60
Typing \$25 + 11% (fringe)	13.07
Communication (radio telephone)	16.00
Equipment Depreciation	100.00
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Thomas A. Conto

Rod Macrae,

1970, ,A.D.

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

SUB - MINING RECORDER

Page 5.

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

- 19 Mar

this 11th day of February 1970

Thomas A. Conto, B.Sc. Geophysics

STATEMENT OF OPERATOR'S QUALIFICATIONS

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- I, Thomas A. Conto, do make the following statement:
 - 1. David Broswick was the instrument operator for the Geophysical Induced Polarization conducted on P.C. claims in 5 August - 15 August 1969.
 - 2. David Broswick had been working as an Induced Polarization Crew Chief for over two years prior to the start of this survey.
 - 3. David Broswick has been trained by Anaconda personnel to be an instrument operator and I consider him fully qualified.

1-4-

Thomas A. Conto

SCALE: 4"= IMILE

OWL GROUF

MINERAL CLAIM MAP

GROUP

2455

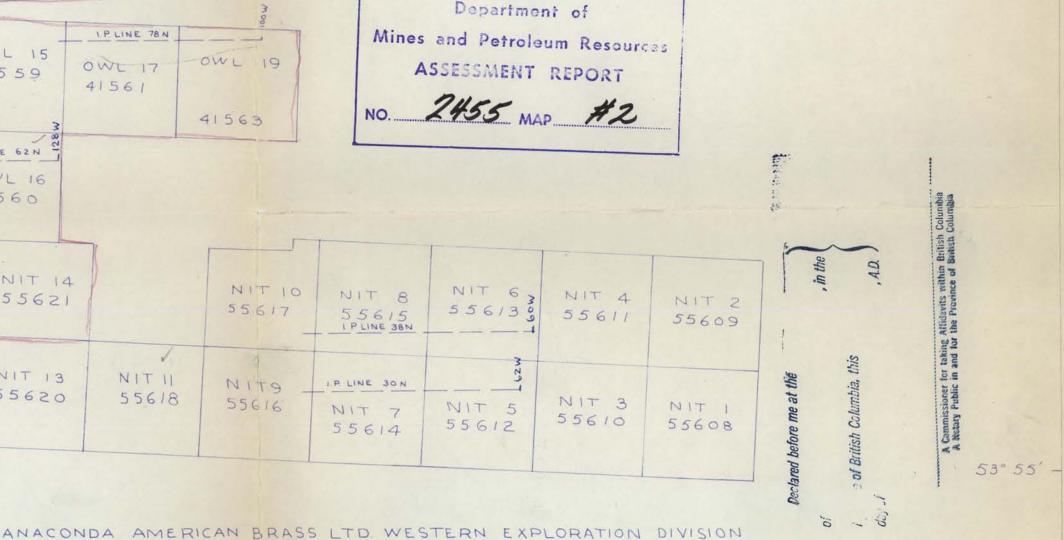
- 53° 55'

				24° 50		-	r	->	
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		WL 2 MOO 1546		41548	PLINE 94N DWL 6 41550	8	ow1 415	0WL 10 41554	
Department of as and Petroleum Resource ASSESSMENT REPORT 2455 MAP #2	A	0WL 19 41563	LINE 78N	15 OW	0WL 4155	OWL 13 41557	100	owL 4155	
				6	1 P LINE 62 OWL 1 41560	WL 14 1558	4		
556139 55611	NIT 8 55615 IPLINE 38N	NIT 10 55617		621		NIT 5562			
NIT 5 NIT 3 55612 55610	NIT 7 55614	NIT9 - 55616	NIT II 55618			NIT 1 5562			

124° 50'

ACCOMPANY GEOPHYSICAL R. MACRAE, P. ENG., AND CONTO, B. Sc.

DATED 11 FEBTUARY 1970



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