2210

A GEOPHYSICAL REPORT ON THE P.C. CLAIM GROUP KAMLOOPS MINING DISTRICT, BRITISH COLUMBIA Property: P.C. Claim Group Location: 14 miles WNW of Little Fort, B.C. 51° 120° NE Report by: Rod Macrae, P. Eng., Thomas A. Conto, B. Sc. Claim Owner: Anaconda American Brass Limited Date of Work: 19 August - 2 September 1969

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MAPS

#/ Location Map	In Front
#2 Claim and Line Location Map	In Pocket
#3 Induced Polarization Map	In Pocket

Department of Mines and Petroleum Resources ASSESSMENT REPORT

NO. 2210 MAP

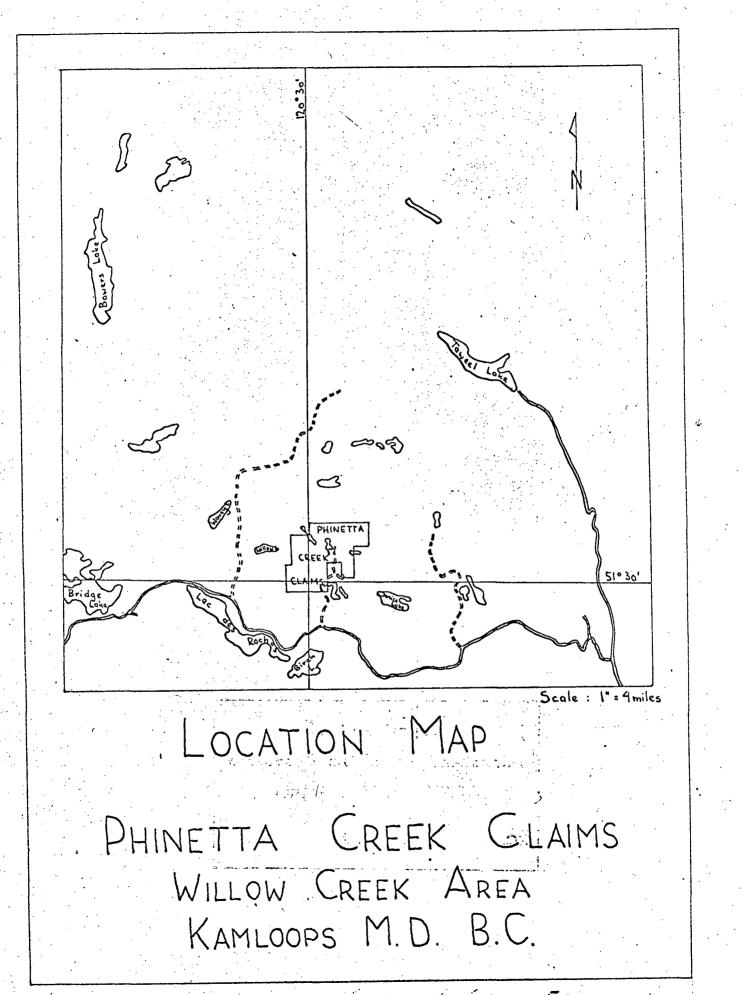
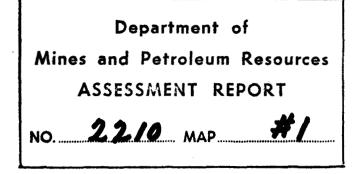


FIGURE L



Introduction

Anaconda American Brass Limited staked a group of claims in the Willow Creek area of British Columbia during the 1967 field season. The P.C. claim group consists of the following claims:

PC 2, PC 4, PC 6, PC 19, PC 20, PC 21, PC 22, PC 23, PC 24, PC 37, PC 38, PC 39, PC 40, PC 41, PC 42, PC 43, PC 44, PC 45 and PC 46.

An induced polarization survey was conducted on the property under the general supervision of Rod Macrae, P. Eng., and Thomas A. Conto, during the 1969 field season. The crew chief for the survey was David Broswick.

Location and Accessibility

The PC claims are located at latitude 51°30' and longitude 120°30', approximately 14 miles WNW of Little Fort, British Columbia (see Fig. 1). They are approximately three miles north of the gravel road that connects Bridge Lake and Little Fort, B. C. A logging road leads from this road to the center of the claim group.

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.

Page 1.

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 designed as a follow up of previous reconnais-.sance geophysical, geological and geochemical work in the area. Suitable locations were to be established for physical testing of anomalous I.P. responses.

Details of the Survey

Chain and compass lines were used for ground control. Stations were marked at 100 foot intervals along each line. Induced polarization readings were taken at 200 foot intervals with electrode spreads of 400 ft, 200 ft, 100 ft, 50 ft, and 25 ft. The smaller spreads were run in areas of detail surveying.

Results of the Geophysical Survey

Anomalous readings were recorded over a considerable part of the lines surveyed with induced polarization. Graphitic argillite is thought to be responsible for the strong response, however there is no obvious exposure of outcrop in this immediate area to verify this assumption.

Detailed separations of 50 and 100 feet were traversed on lines 28, 36, and 64 north. The results of the detail indicated several areas of near surface responsive material. Additional spreads of smaller dimensions were recorded in several of these areas to verify this condition. Further work on the property will be based on economic appraisal.

Thomas A. Conto Rod Macrae, P. Eng.

TAC:RB 9 February 1970

APPENDIX I

ASSESSMENT DETAILS

Property:	P.C. Claim G	roup			
Owner:	Anaconda Ame	rican Brass	Limited,	British (Columbia
Mining Division:	Kamloops Min	ing Divisic	n		•
Province:	British Colu	mbia			`
Date of Work:	20 August -	2 September	1969	· .	,
Type of Survey:	Geophysical	(Induced Po	larizatio	on)	
Operating Man Days:	51				-
Operating Crew Days	: 14				
Supervisory Days:	1	•	· · ·		
Data Processing Day	s: 1			:	
Report Preparation:		`. .		•	•
(accounting, draft	ing,	•			
typing, map compi	lation) 2			•	

Personnel Employed on Survey

Supervision and Interpretation: Data Processing: Accounting, drafting, map comp.: Typing:

Rod Macrae, Thomas A. Conto D. Broswick J. Vinnell Ruth Broderick

Field Technicions:

Name	Category	Monthly Rate	Days Worked	Period	Wage & Fringe
D. Broswick	Operator	\$ 550	10	20 Aug 2 Se	ept.69 \$ 234.75
H. Holm	Helper	450	14	11 1	268.85
P. Bruce	11	450	13	11 1	249.65
M. Woolridge	**	425	14	11 1	254.05

Declared before me at the

of

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Presince of Philish Columbia, this February. 9.90 day of

Vancourse

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

, A:D.

SUB-MINING RECORDER

Thomas A. Conto

\$1,007.30

Rod Macrae, P. Eng.

APPENDIX II

STATEMENT OF COSTS

Salaries (as per appendix I)		\$ 1,007.30
Room & Board @ \$12/man/day	.:	612.00
Transportation @ \$23/crew/day		322.00
Communication (radio telephone)		15.00
Equipment Depreciation		100.00
Supervision \$35 + 11% (fringe)	•	38.85
Data Processing \$30 + 11% (fringe)		33.30
Report Preparation - 2(\$30 + 11%)		66.60

2,195.05

Total Line Feet = 23,600 Line feet on Claims = 16,800 Percentage on Claims = 71.2

Total Assessment Applicable = \$ 1,552.87

Declared before me at the Cit Marcouve. of

Province of Elist Columbia, this // day of February, 1970 .A.D.

100 A Commissioner for-taking Affidavits within British-Columbia A Netary-Public-in-and-for-the-Province-of-British-Columbia

SUB-MINING RECORDER

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Thomas A. Conto

Rod Macrae, P. Eng.

CERTIFICATE

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

- 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 9th day of February 1970

Thomas A. Conto, B.Sc. Geophysics

- I, Thomas A. Conto, do make the following statement:
 - David Broswick was the instrument operator for the Geophysical Induced Polarization conducted on P.C. claims in 19 August - 2 September 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.

Thomas A. Conto

THIS MAP IS TO ACCOMPANY THE GEOPHYSICAL REPORT BY R MACRAE & T. CONTO

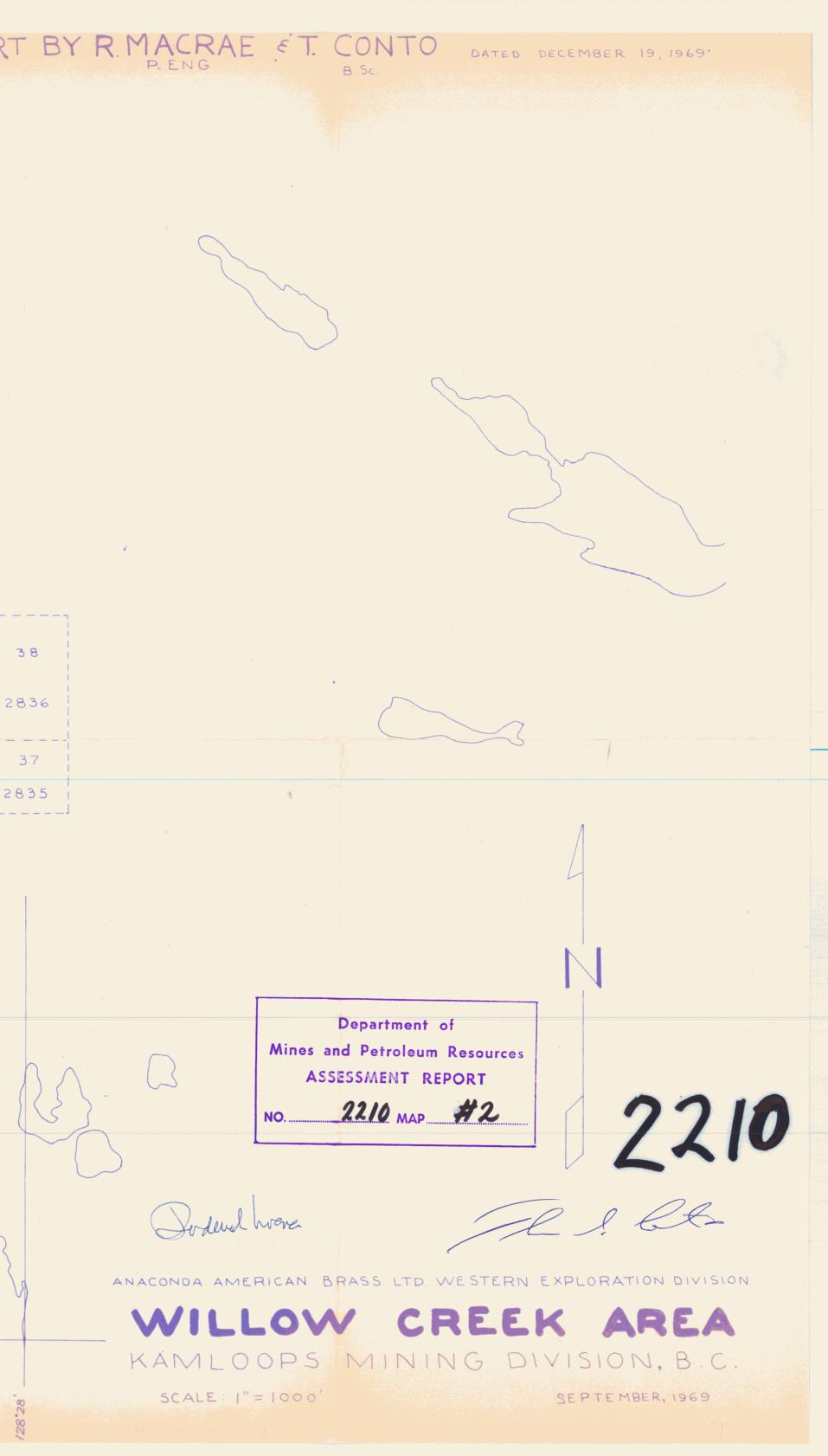
EXPLANATION

THE MINERAL CLAIM BOUNDARIES ARE SHOWN AS DASHED LINES. SOLID LINES DENOTE PICKETED LINES. THE I.P. SURVEY WAS CONDUCTED ALONG THESE PICKET LINES

PC 46	PC 44	PC 3 42	PC 40	PC
Nº 62844	N° 62842	N° 62 840	N° 62838	N° 6
PC 45	PC 43	PC 41	PC 39	PC
N° 62843	N° 62841	N° 62839	Nº 62837	N° 63
	D.C. 22		LINE 44 N	
PC 24	PC 22	PC 320	LINE 36 N (48	00')
Nº 62822	Nº 62820	N° 623818		(4300 1)
PC 23	PC 21	PC19	LINE 28 N	(4300)
Nº 62821	N° 62819	Nº 62817	LINE 20 N (2800')
PC 6	PC 4	PC 2		
Nº 62804	N° 62802	N° 62800		
			5	

L84 N

51°30′ –



105 W. llow. 100 W 95 W 90W. ACTUAL LOCATION OF THIS LINE 1200 FT. NORTH ;;; 110W. 105W. 100 W. 95W. 90 W.

KEUFFEL & ESSER CO. MADE IN U.S.A.

STANDARD (CROSS SECTION)

