

PETER E. WALCOTT  
& ASSOCIATES LTD

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A GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION SURVEYING

Taseko Lake Area, B.C.  
51° 40'W, 123° 47'W  
N.T.S. 92 0/12

Claims surveyed:

CVS 10

Survey dates:

August 19th - 21st, 1992

Operator:

AUCUMO RESOURCES LTD.  
Vancouver, B.C.

Owner:

Peter Charlie  
Kamloops, B.C.

BY

PETER E. WALCOTT & ASSOCIATES LIMITED

Vancouver, B.C.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

NOVEMBER 1992

22,857

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 93.09.14

ASSESSMENT REPORT 22857

MINING DIVISION: Clinton

PROPERTY: CVS  
LOCATION: LAT 51 40 00 LONG 123 42 00  
UTM 10 5723978 451587  
NTS 092012W  
CLAIM(S): CVS 10-11  
OPERATOR(S): Aucumo Res.  
AUTHOR(S): Walcott, P.E.  
REPORT YEAR: 1992, 16 Pages  
COMMODITIES  
SEARCHED FOR: Copper, Tungsten, Silver, Zinc, Gold  
KEYWORDS: Cretaceous, Tyaughton Trough, Basalts, Andesites  
WORK  
DONE: Geophysical, Prospecting  
PROS 100.0 ha

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- 1 -

INTRODUCTION.

Between August 19th & 21st, 1992, Peter E. Walcott & Associates Limited undertook a line of I.P. surveying on a property, located in the Taseko Lake area of British Columbia, for Aucumo Resources Ltd.

The survey was carried out along a two kilometre line that was established by the geophysical crew 100 metres north of the southernmost claim line.

Measurements (first to fourth separation) of apparent chargeability (the I.P. response parameter) and resistivity were made every 75 metres along the line using the pole-dipole method of surveying with a 75 metre dipole.

The data are presented in contour form on an individual pseudosection bound in this report.

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PROPERTY, LOCATION & ACCESS.

The property is located in the Clinton Mining Division of British Columbia and consists of the following claims:

<u>Claim Name</u>	<u>Tenure No.</u>	<u>No. of units</u>	<u>Anniversary</u>
CVS 10	304606	20	September 21st
CVS 11	304607	20	September 22nd

The claims are situated on the western extreme of the Chilcotin Plateau on the west side of the Taseko River some 5 kilometres north of Elkin Lake and some 130 kilometres southwest of the town of Williams Lake, British Columbia.

Access was obtained from Williams Lake by paved highway (90 kilometres) to the settlement of Hanceville, then by good all weather gravel road - Taseko Lake - Nemaiah Valley road - for some 85 kilometres to the turn off to the Twin Lakes airfield, and then along this road running along the east side of Vedan and Elkin Lakes and Elkin Creek for some 20 kilometres to a point 1 kilometre west of the property.

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PURPOSE.

The purpose of the survey was to (a) carry out sufficient work to meet the necessary work requirement to keep the property in good standing for another year, and (b) in view of its geological setting to see if any response, indicative of sulphide mineralization, could be located on a single traverse.

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PREVIOUS WORK.

Previous work in the area consisted of airborne magnetic and VLF electromagnetic surveying, prospecting and mapping, reconnaissance silt and soil sample geochemical surveying and diamond drilling carried out by Brinco in the early 1980's, who were investigating the property for its gold potential.

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GEOLOGY.

Generally the area is underlain by a north northwesterly trending Cretaceous volcanic and associated clastic sequence intruded by porphyries and diorites of probable Tertiary age. In some places flat lying younger Tertiary mafic volcanic flows and tuffs cover the earlier sequences.

For further information the reader is referred to reports held by Brinco to which the present owner has been granted access.



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SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was conducted using a pulse type system, the principal components of which are manufactured by Hunttec Limited of Metropolitan Toronto, Ontario, and BRGM Instruments of Orleans, France.

The system consists basically of three units, a receiver (BRGM), a transmitter and a motor generator (Hunttec). The transmitter, which provided a maximum of 2.5kw d.c. to the ground, obtains its power from a 2.5 kw 400 c.p.s. three phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes  $C_1$  and  $C_2$ , the primary voltages (V) appearing between any two potential electrodes,  $P_1$  through  $P_7$ , during the "current-on" part of the cycle, and the apparent chargeability, ( $M_a$ ) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor - the sample window is actually the total of ten individual windows of 100 millisecond widths.

The apparent resistivity ( $\rho_a$ ) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode,  $C_1$ , and the potential electrodes,  $P_1$  through  $P_7$ , are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode,  $C_2$ , is kept constant at "infinity". The distance, "na" between  $C_1$  and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse.

On this survey a 75 metre dipole was used and first to fourth separation measurements were made on a 2 kilometre traverse.

DISCUSSION OF RESULTS.

The I.P. survey as conducted with a 75 metre dipole on a single traverse showed the traverse to exhibit a low chargeability background - 2 to 3 millivolts/volt - , similar to those obtained on other surveys in the area.

Some slightly higher chargeabilities - 4 to 5 millivolts/volt - with accompanying increasing resistivities, characteristic of basalts, were observed on the western extremity of the traverse.

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SUMMARY, CONCLUSIONS & RECOMMENDATIONS.

Between August 19th and 21st, Peter E. Walcott & Associates Limited carried out a one line I.P. traverse on a property, located in the Elkin Lake area of British Columbia, for Aucumo Resources Ltd.

The traverse exhibited low chargeability values characteristic of those obtained over the Kingsvale sediments and Chilcotin basalts on other properties in the immediate vicinity.

Further work should consist of reconnaissance traverses on lines 400 metres apart with fill-in lines at 200 metres when and if anomalous conditions dictate.

Respectfully submitted,

**PETER E. WALCOTT & ASSOCIATES LIMITED**

Peter E. Walcott, P.Eng.  
Geophysicist

Vancouver, B.C.

November 1992

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APPENDIX  
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- i -

COST OF SURVEY.

Peter E. Walcott & Associates Limited undertook the survey on a daily basis. Reporting costs were extra so that the total cost of services provided was \$4,761.50.

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PERSONNEL EMPLOYED ON SURVEY.

<u>Name</u>	<u>Occupation</u>	<u>Address</u>	<u>Dates</u>
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. 605 Rutland Court, Coquitlam, B.C. V3J 3T8	Nov. 26th - 27th, 1992
R. Summerfield	Geophysical Operator	"	August 19th - 21st, 1992
P. Charlie	"	"	"
G. Karacunte	"	"	"
C. Speropoulos	Geophysical Helper	"	"
P. Hasek	"	"	"
A. Walcott	Geophysical Operator	"	Nov. 24th, 1992
J. Walcott	Typing	"	November 27th, 1992

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CERTIFICATION.

I, Peter E. Walcott, of the City of Coquitlam, British Columbia, hereby certify that:

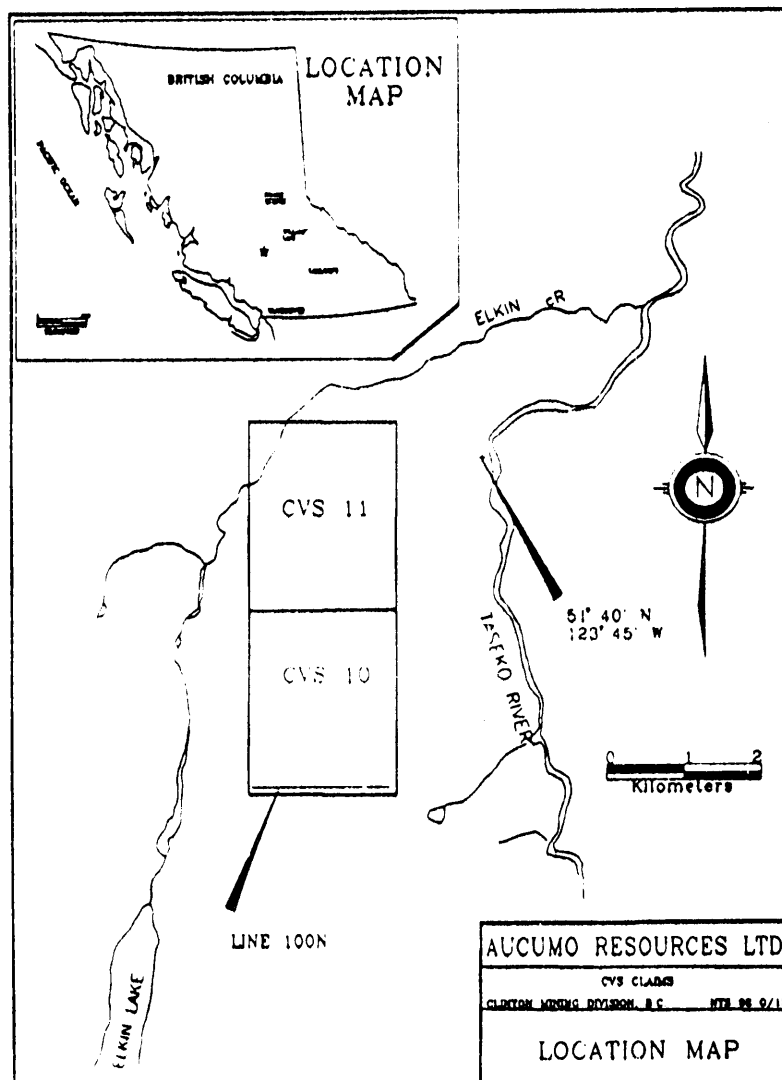
1. I am a graduate of the University of the University of Toronto in 1962 with a A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practising my profession for the last thirty years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.

Peter E. Walcott, P.Eng.

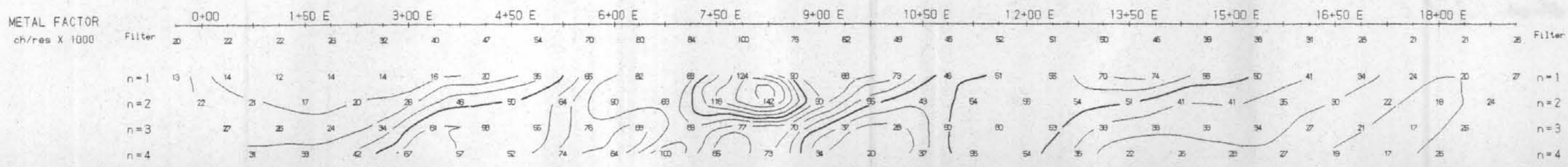
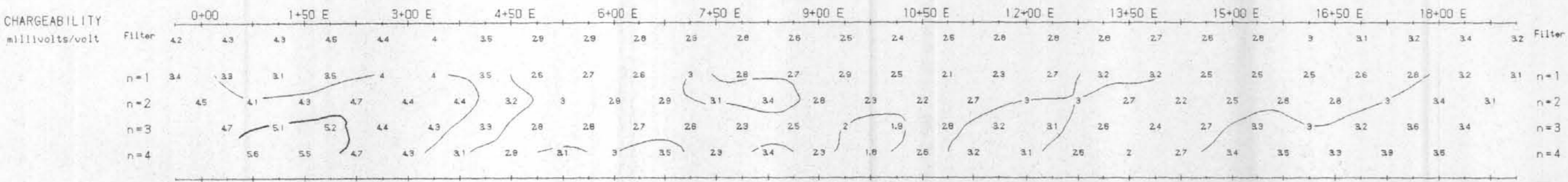
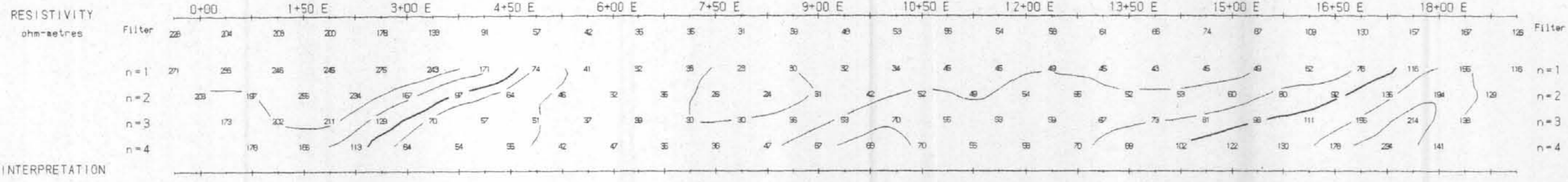
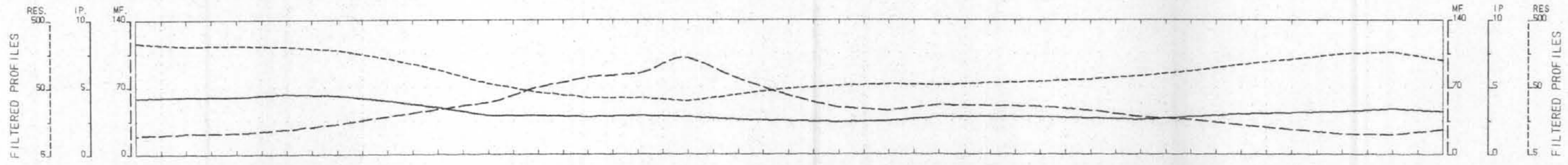
Vancouver, B.C.

November 1992

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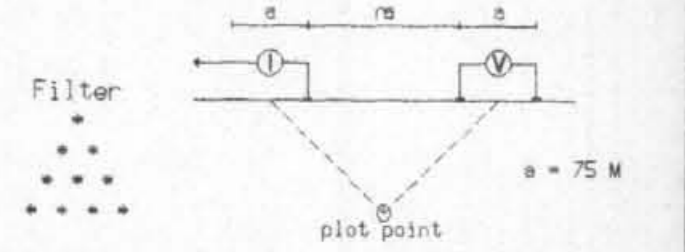






Line 100 N

Pole-Dipole Array



Instrument: Huntco 2.5 kw. Tx., BRGM IP6 Rx.  
 Frequency: 0.125 Hz.  
 Operators: R.S., P.C.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

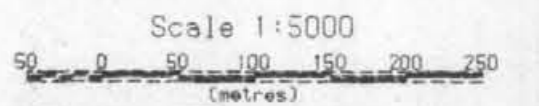
INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.



**22857**

AUCUMO RESOURCES LTD.

INDUCED POLARIZATION SURVEY  
 CVS Claims  
 Taseko Lake Area, British Columbia

Date: September 1992  
 Interpretation: P.E.W.

PETER E. WALCOTT & ASSOC. LTD.