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EXPLORATION

WESTERN CANADA

NTS: 93E-14

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ASSESSMENT REPORT

I.P./RESISTIVITY SURVEY

ON THE

DUAL PROPERTY

LATITUDE: 53° 58' N

LONGITUDE: 127° 06' W

OMINECA MINING DISTRICT, B.C.

FILMED

INGO JACKISCH

TIME PERIOD: JUNE 9 - 19, 1994 JULY 9 - 25, 1994

25

CLAIMS COVERED : DUAL 1 -7, LAD 1 GEOLOGICAL BRANCH ASSESSMENT REPORT

AUG 1994

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 			_1		SCALE: 1:4,000,000 DATE:SEP1 94 PLATE NO: 811-51-1

EXPLORATION

COMINCO LTD.

ASSESSMENT REPORT ON

AN I.P./RESISTIVITY SURVEY

ON THE DUAL PROPERTY

I_ INTRODUCTION

During the time period June 9 - 19 and July 9 - 25, 1994, an Induced Polarization/Resistivity [I.P./Res.] survey was carried out by an in-house Cominco Ltd. geophysical crew on the Dual Property. Geophysicist I. Jackisch and 4 summer students were present for the survey, which totalled 40.3 km.

The purpose of the geophysical survey was to test the porphyry Cu-Au potential of a large alteration zone which is coincident with an aeromagnetic and radiometric feature obtained by Aerodat, for other clients in 1993, using their helicopter system. A logging road contructed in 1992 exposed sulphide mineralization and an extensive alteration system which renewed mineral exploration interest in this area.

This report discusses the geophysical equipment and procedures, then presents and interprets the results.

CLAIMS AND OWNERSHIP

The DUAL [136 units] and LAD [12 units] CLAIMS are owned by R. Hamblin, et al. Work on the claims is currently executed by COMINCO LTD. under agreement with the owners.

The claims are listed as follows:

Mineral Claims	Tenure Nos.	Recording Date
Dual 1	313680	Sept. 21, 1992
Dual 2	313681	Sept. 21, 1992
Dual 3	313682	Sept. 22, 1992
Dual 4	313683	Sept. 22, 1992
Dual 5	313693	March 22, 1993
Dual 6	313694	March 23, 1993
Dual 7	325394	May 11, 1994
Lad 1	327114	June 23, 1994

PROPERTY HISTORY

The northern and southeastern fringes of the DUAL PROPERTY have received some preliminary work during the 1970's. I.P. surveying and diamond drilling work was carried out intermittantly on the THIRA PROPERTY [directly to the southeast of the DUAL] during the 1970 to 1989 period. In Sept. 1992 a new logging road exposed a barite vein containing coarse galena and sphalerite.

GEOLOGY

The geology on the Dual Property was established from 1:50,000 scale mapping conducted by L. Diakow, 1988. The Lower Jurassic Telkwa formation of the Hazelton Group is the oldest volcanic exposed on the property. Stocks diorite. succession of granodiorite, and monzonite cut and locally alter rocks of the Telkwa formation. Younger volcanic Lower Jurassic rocks, tentatively assigned to the Cretaceous Skeena and Kasalka groups, appear to rest unconformably on the Telkwa formation.

LOCATION AND ACCESS

The Dual Property is located 100 km SW of Houston, B.C., at latitude 53°58'N, longitude 127°06'W, on N.T.S. 93E14.

Access is along logging roads from Houston, B.C. The main logging road from Houston follows the Nadina River south to km 56, where one turns right to head towards the New Canamin Resources' Huckleberry property. Turn right at the turnoff going to Tagetochlain Lake, staying on this road until the Duel Lakes turnoff is intersected. The Duel Lakes road accesses the northern part of the property; a right turnoff several kms down the Hill Tout Road accesses the south part of the property.

The grid lines occur on generally flat ground, with two steep hills occurring south of Gordeau Lake. The bush varies from lightly to thickly wooded, with numerous clear cut areas.

II GEOPHYSICAL SURVEYS

EQUIPMENT AND PROCEDURES

Two Huntec Mark 4 time domain receivers and a Huntec 7.5 KW Mark 4 constant current transmitter were used for the I.P.\Res. survey. A pole/dipole electrode array was used, with the current electrode either to the east or west of the potential electrodes as indicated on the pseudosections. The standard 2 second ON/OFF alternating square wave was transmitted.

The Mark 4 receivers were set to a delay time of 120 msecs. and an integration time of 900 msecs. Data was recorded both in notepad form and on a Solid State Memory [SSM] unit, manufactured by Lloyd Geophysics Ltd., which is installed inside the receivers. The SSM dumps directly onto a personal computer running on Geosoft software.

The Huntec receiver measures the chargeability in 10 windows, each 90 msecs. in duration, for a total of 900 msecs. The instrument displays and records each of the 10 windows as well as the total chargeability, which is the value plotted on the pseudosections. This chargeability value is equivalent to the eighth slice [M7, measuring from 690 to 1050 msecs. after transmitter shutoff] of the Scintrex IPR-11 receiver.

The resistivity values [R] are in units of ohmmetres [ohmm] and are calculated from the formula:

R	=	V	K	where	Κ	Ξ	2πan[n+1]	a=100m	, n=1,2,3,4
			Γ		V	=	voltage at	receiver	[volts]
					I	Ħ	transmitte:	r current	[amperes]

The survey procedure was to reel out the wire [leading from the transmitter] to the end of the survey line, leaving a stainless steel rod at each 100 metre station. The survey line is then read back to the beginning of the line by the following procedure. The current electrode man cuts the wire at each 100 metre picket and attaches the end leading to the transmitter to the steel electrode. The wire and rods discarded by the current man are used as potential electrodes by the receiver operators [one receiver taking n=2,1 readings, the other taking n=4,3 readings]. The current electrode man moves up in 100 metre intervals and hammers the rod into the ground while the readings are in progress. When both receiver operators are finished with their readings, the current is shut off, and the current man cuts the wire for the new current station and connects the wire to the rod, then asks for the power to be turned on at the new station. This procedure is repeated in 100 metre increments until the entire line is read.

The survey lines are very widely spaced at 1000 metres. This widely spaced reconnaissance style is adequate for the large porphyry system being targeted.

PRESENTATION OF RESULTS

The I.P./Resistivity data is presented in pseudosection form on Plates 811-51-4 to -7, with chargeability and apparent resistivity plotted at a scale of 1:5000 for each survey line. A plan map of the Chargeability is presented on Plate 811-51-3 at a scale of 1:10,000. Apparent Resistivity is in units of ohm-metres, chargeability values are in units of milli-seconds [msecs.].

Chargeability anomaly bars are categorized as strong [>40 msecs.], moderate [30-40 msecs.], and weak [20-30 msecs.]. These bars are plotted on the pseudosections to highlight anomalous chargeability zones.

III INTERPRETATION

The I.P./Res. survey results show a chargeability high on the eastern periphery of the Dual Property. The responses making up

this high are tabulated below, from north to south:

Line	10,000N	from	to	none
	9000N	134+00E	open to east	14 msecs.
	8000N	121+00E	130+00E	25
	7000N	128+00E	134+00E	25
	6000N	125+00E	open to east	28
	5000N	113+00E	open to east	65
	4000N	102+00E	open to east	25

The resistivity values are very low for virtually the entire survey grid, ranging from 20 to 200 ohm-metres. A localized higher resistivity area on the eastern end of Lines 8000N and 9000N of 500 to 2500 ohm-metres coincides somewhat with higher chargeability values.

A very localized chargeability high [of 49 msecs.] occurs at station 111+00E on Line 10,000N, located just north of the north boundary of the DUAL claims. This feature is not interpreted as being due to porphyry-style mineralization, but its cause is unknown.

IV CONCLUSIONS

40.3 kms of I.P./Resistivity were surveyed by Cominco Ltd. from June 9 - 19 and July 9 -25, 1994, on the Dual Property.

The results did not detect the presence of a porphyry system and no response was seen associated with the mineralization uncovered by recent road work.

No further geophysical surveying is recommended for the Dual Property.

Report by : Ingo Gackisch Geophysicist, P.Geo Hem Warmi Ita Approved for Release by : J.M. Hamilton, P.Eng/P.Geo Manager, Exploration Cominco Ltd. Western Canada

Distribution:

[2] Mining Recorder

- [1] Western District, Central Files
- [1] Geophysics File, Vancouver, B.C.
- [2] Owner

APPENDIX I

IN THE MATTER OF THE B.C. MINERAL ACT

AND IN THE MATTER OF A GEOPHYSICAL PROGRAMME

CARRIED OUT ON THE DUAL PROPERTY

LOCATED 100 KMS SW OF HOUSTON, B.C.

IN THE OMENICA MINING DIVISION OF THE

PROVINCE OF BRITISH COLUMBIA,

MORE PARTICULARLY

N.T.S. 93E/14

<u>STATEMENT</u>

I, Ingo Jackisch, of 424 Somerset Street, in the City of North Vancouver, in the Province of British Columbia, make oath and say:

- That I am employed as a geophysicist by Cominco Ltd. and, as such have a personal knowledge of the facts to which I hereinafter depose;
- That annexed hereto and marked as "Exhibit A" to this statement is a true copy of expenditures incurred on a geophysical survey on the DUAL Property;
- 3. That the said expenditures were incurred from June 9 19 and July 9 25, 1994, for the purpose of mineral exploration on the above noted property.

Ingé Jackisch Geophysicist Cominco Ltd.

Dated this 7 day of <u>Aeptember</u> , 1994 at Vancouver, B.C.

STATEMENT OF EXPENDITURES

DUAL PROPERTY - JUNE 9-19 AND JULY 9-25, 1994

1. SALARIES I. JACKISCH \$10440 A. ROBULACK 3250 J. ALLARDYCE 2889 T. DIXON 2919 I.B. MAWER 1284 J.S. ARMSTRONG 1500

\$22282.00

REPORT WRITING, DRAFTING \$8455.00 EQUIPMENT RENTAL I.P. RECEIVER \$2500 I.P. TRANSMITTER 3125 MISC. 1250

\$5500.00

\$6875.00

5.	EXPENSE	ACCOUNTS	I. JACKISCH	\$5359.68
			A. ROBULACK	1276.22
			J. ALLARDYCE	892.68
			T. DIXON	856.94
			I.B. MAWER	340.34
			J.S. ARMSTRONG	590.61

6. MOTEL

4.

7. LINECUTTING

TRUCK RENTAL

\$9316.47 \$968.87

•

23,267.00

TOTAL \$76,664.34

APPENDIX III

CERTIFICATION OF QUALIFICATIONS

I, INGO JACKISCH, of 424 Somerset Street, in the City of North Vancouver, in the Province of British Columbia, do hereby certify:

- i. THAT I graduated with a B.Sc. in Geophysics from the University of British Columbia in 1975.
- ii. THAT I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- iii. THAT I have been actively practising Geophysics from 1975 to 1994, and have been an employee of Cominco Ltd. from 1980 to 1994.

ngo Jackisch, B.Sc. P.Geo. Geophysicist

Sept., 1994





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