COMINCO LTD.

EXPLORATION

NTS: 92 I/10

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION AND MAGNETICS SURVEYS

ROPER LAKE PROPERTY

Greenstone Mountain Area; Kamloops Mining Division, B.C.

LATITUDE: 50⁰35'N; LONGITUDE: 120⁰39'W



WESTERN DISTRICT

Work Performed: August 8-16, 1980

On claims: Happy Days 1,2,3,7,9,10,12,15,17; Amron 1,2; GG 1, GIL 2

27 NOVEMBER 1980

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ALAN R. SCOTT

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COMINCO LTD.

EXPLORATION NTS: 92 1/10 WESTERN DISTRICT 27 November 1980

GEOPHYSICAL REPORT

<u>ON</u>

INDUCED POLARIZATION AND MAGNETICS SURVEYS

ROPER LAKE PROPERTY

INTRODUCTION

During the period August 8-16, 1980, a Cominco geophysical crew completed some 20 line kilometers of multiseparation induced polarization survey and 50 line kilometres of total field magnetics survey over portions of the Roper Lake property.

The property is located 35 kilometers west south west of Kamloops, B.C., and is accessible via the Mile High Lodge road, which heads west from the Logan Lake Highway 10 kms north of Logan Lake. The general location of the property is indicated on plate 1, and the location of the survey grid in relation to the claims is shown on plate 2.

This report describes the procedures used on the geophysical surveys, presents the data, and discusses the survey results.

GEOPHYSICAL SURVEYS

Induced Polarization

A Huntec 7.5 kw IP motor generator transmitter in combination with two Scintrex IPR-8 receivers were used on the Roper Lake survey. Readings were taken in the time domain using a 2 second current on/2 second current off alternating square wave signal. The chargeability (IP) values plotted are those for the M₂₃₂ window of from 650 - 1170 milliseconds following cessation of the current pulse. The units of measurement are expressed in millivolts/volt.

A pole dipole electrode array was used on the survey with an "a" spacing of 100 meters and "n" separations of 1,2,3 and 4. The current electrode was kept to the south of the potential dipole on all survey lines.

The apparent resistivity values are in units of ohm meters and were calculated from the relation:

resistivity = $(V/I) \cdot K$

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where V is the voltage drop across the measuring dipole during the current on period (I) and K is a constant dependent on the "a" spacing and "n" separation.

Magnetics

A Scintrex MP-2 total field proton precession magnetometer was used for the magnetics survey. Corrections for diurnal drift were made by reference of a Scintrex MBS-2 base station magnetometer.

DISCUSSION OF RESULTS

The chargeability (IP) and apparent resistivity survey results are presented in pseudosection format on plates 4 to 10 inclusive. This is a schematic form of data presentation and no specific target depth or geometry is implied by it. The near separation (n=1) chargeability values are also presented in contour plan form on plate 11. The total field magnetometer survey values are plotted in contour plan form on plate 3.

The chargeability results have been categorized on the sections as follows:



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1.44 P**y**

strong IP high (>40 mv/v at near separation)
moderate IP high(25-40 mv/v at near separation)
weak IP high (10-25 mv/v at near separation)
IP high at further separations (>10 mv/v)

On the n=1 contour plan, anomalous areas of greater than 10 mv/v are indicated by light stippling and those of greater than 25 mv/v by heavy stippling. Four areas of high IP response are noted on the contour plan.

Magnetic field highs, defined as greater than 58,000 gammas, are indicated by the stippling pattern on the magnetic field contour plan (plate 11).

IP anomaly I consists of a large area of greater than 10 mv/v north of the baseline on lines 24W to 32W. A core area of strong IP response is centered at 1,250N on line 29W (53 mv/v at n=1). Anomaly I is coincident with generally high magnetic field values (greater than 58,000 gammas).

Anomaly II, as outlined by the greater than 10 mv/v contour, is located some 1,500 to 3,000 meters north of the baseline on lines 0 to 6E. A narrow strong response zone lies along the southern flank of anomaly II (peak value of 46 mv/v plots at 1,750N on line 0). Anomaly II is in an area of generally low magnetic field strength.

Anomaly III is a weak IP high on line 0 from about 900 to 1,300N. The peak value of 15.9 mv/v plots at 1,050N. Anomaly III is in an area of generally low magnetic field strength.

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Anomaly IV is located just north of the baseline on lines 3E and 6E. The peak value of 12.3 mv/v plots at 350N and the anomaly is open towards Cornwall Lake to the north as well as to the east. Anomaly IV is in an area of generally low magnetic field strength.

CONCLUSIONS

Portions of the Roper Lake property were surveyed with time domain IP and total field magnetics in the summer of 1980.

Four areas of high IP response were detected on that survey and are labelled I, II, III, and IV on accompanying plate 11. Areas of greater than 10 mv/v IP response (n=1) are categorized as weakly high, of greater than 25 mv/v as moderately high, and of greater than 40 mv/v as strongly high.

Anomalous area I is the only one of these anomalies coincident with generally high magnetic field values, suggesting at least a partially common source such as magnetite of pyrrhotite for that anomaly.

Anomalies I and II are both large in aerial extent and contain core areas of strong IP response. Both of the anomalies are open to the east and west.

Anomalies III and IV are relatively small in area and do not contain strong response cores. Anomaly III is open to the west and anomaly IV is open to the north and east.

Correlation of these geophysical results to geology and geochemistry information is neccesary before any decision on further work to test for the source of these anomalous responses can be made.

Respectfully submitted:

Alan R. Scott

Geophysicist

Endorsed for Release by:

G. Harden, Manager Western District

ARS/skg Distribution: Mining Recorder (2)↓ Western District(1) Geophysics File (1)

APPENDIX I

IN THE MATTER OF THE B.C. MINERAL ACT

AND IN THE MATTER OF A GEOPHYSICAL PROGRAMME

CARRIED OUT ON PORTIONS OF THE HAPPY DAYS GROUP OF MINERAL CLAIMS

ON THE ROPER LAKE PROPERTY

LOCATED 35 KM WSW OF KAMLOOPS IN THE KAMLOOPS MINING DIVISION

OF THE PROVINCE OF BRITISH COLUMBIA, MORE PARTICULARLY

N.T.S.: 92I/10E

STATEMENT

I, Alan R. Scott, of the City of Vancouver, in the Province of British Columbia, make oath and say:-

- 1. 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 the annexed hereto and marked as "Appendix II" to this statement is a true copy of expenditures incurred on geophysical survey on the Happy Days mineral claims;
- 3. THAT the said expenditures were incurred for the purpose of mineral exploration of the above noted claims between the 8th day and the 16th day of August, 1980.

Signed: <u>Un</u>

27 November 1980

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APPENDIX II

HAPPY DAYS CLAIMS

ROPER LAKE PROPERTY

STATEMENT OF EXPENDITURES

(Induced polarization, magnetometer surveys, linecutting)

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1. SALARIES

	 S. Holland, geophysicist in training, D. Milne, geophysical technician, Y. Fortin, IP crewman, E. Bernshaw, IP crewman, D. Campbell, IP crewman, J. Allen, IP crewman, 	Aug. Aug. Aug. Aug. Aug. Aug.	8-16 8-16 8-16 8-16 8-16 8-16	9 9 9 9 9 9 9 9	days days days days days days days	0 0 0 0 0 0 0	105 105 83 83 83 83 83	\$	945 945 747 747 747 747 747
2.	EQUIPMENT RENTALS							\$	4878
	7.5 kw IP survey system, magnetometers	s, tri	uck					\$	2893
3.	CHARGES PER SURVEY DAY								
	8 days geophysical survey @ 175							\$	1400
4.	MISCELLANEGUS CHARGES								
	food, gas, lodging, consumables							\$	1785
5.	LINECUTTING								
	60.625 kms @ 317/km							<u>\$1</u>	<u>9218</u>
	TOTAL E	XPEND	ITURES	:				<u>\$3</u>	0174

APPENDIX III

CERTIFICATION

I, Alan R. Scott, of 4013 West 14th Avenue, in the City of Vancouver, in the Province of British Columbia, do hereby certify:-

- 1. THAT I graduated from the University of British Columbia in 1970 with a B.Sc. in Geophysics;
- 2. THAT I am a member of the Association of Professional Engineers of the Province of Saskatchewan, the Society of Exploration Geophysicists of America, and the British Columbia Geophysical Society.
- 3. THAT I have been practising my profession for the past ten years.

Signed: Alan R. Scott, Geophysicist

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27 November 1980





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MAGNETOMETER FIELD HIGH > 58000 GAMMAS

NTS 92 1/10 MAGNETOMETER SURVEY KAMLOOPS M.D., B.C.





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COMINCO LTD. ROPER LAKE PROPERTY HAPPY DAYS CLAIMS KAMLOOPS M.D., B.C.

LINE NO. 3200 W



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DWG. NO. 184-80-5



LINE NO. 2900 W



X = 100 m

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DATE SURVEYED AUG 9, 10, 1980

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