

53F04NW0133 2.3831 HERONRY LAKE

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TECK EXPLORATIONS LIMITED

NORTH BAY, ONTARIO

ASSESSMENT REPORT

ON THE

GEOPHYSICAL SURVEYS

ON

GROUP KL-2, HERONRY LAKE

FOR

THE SULPHIDE SYNDICATE

by

K. Thorsen

REPORT NO. 708NB

N.T.S. 52 F/4

81-3-16

SUMMARY AND RECOMMENDATIONS

Detailed geophysical surveys have outlined two parallel conductors dipping east and striking northwest-southeast for 200m and open in both directions. The west conductor is associated with a strong magnetic trend with scattered highs to 9000 gammas. The east conductor does not have any magnetic expression.

Winter geophysical surveys are recommended to delineate the extension of these conductors under Kakagi Lake.

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INTRODUCTION

An airborne anomaly in the Area of Heronry Lake near Chase Point is covered by six contiguous claims numbered K475465, K475466, K475467, K475468, K475469 and K475470 recorded in the name of Teck Explorations Limited. Detailed geophysical follow-up consisted of VLF (Radem), vertical and horizontal loop EM and magnetometer surveys carried out during 80/9/23-25 and 81/1/12-16 on a compass and pace grid. The work was done by Teck Explorations Limited personnel under the supervision of Mr. K. Thorsen, district manager.

Access to the area is by boat in the summer and snow machine in the winter from Highway 71 at the west end of Kakagi Lake.

PREVIOUS WORK

One diamond drill hole (Hudson Bay Oil & Gas, 1975) was located on L 3+50W near 1+25mN. Old trenches were found on L 0+00 and 0 +25E near 1+50S. The area is underlain by intermediate to mafic tuffs with interbedded cherty sediments.

GEOPHYSICAL SURVEYS

Two grids were established at 25m, 50m and 100m line spacing with readings at 12.5m and 25m stations for a total of 1.5 line kilometers of VLF, 0.75 line kilometers of vertical loop EM including a search square and 0.4 line kilometers of horizontal loop EM. The magnetic survey covered six lines for a total of 1.5 line kilometers read at 12.5m stations with fill-in readings in areas of high magnetic response. The magnetic readings were corrected for diurnal change hourly or less at an established base station. A total of 246 electromagnetic readings and 72 magnetic readings were taken on the claims.

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Specifications of the instruments used are included in the Appendix. GEOPHYSICAL SURVEY RESULTS

The VLF conductor does not coincide with the vertical loop EM conductors. The VLF survey located one east-west conductor just south of Blacky Bay whereas the vertical and horizontal loop EM surveys outlined two poorly defined parallel conductors with east dips striking northwest-southeast and open at both ends. The west conductor is associated with a strong magnetic trend containing a 9000 gamma high. The east conductor does not have any magnetic expression. The extension of these conductors into Kakagi Lake will be delineated by winter geophysical surveys.















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OFFICE USE ONLY

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GEOPHYSICAL – GEOLOGI TECHNICAL DATA

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geophysical Surveys	
Township or Arca <u>Heronry Lake M-2475</u>	MINING CLAIMS TRAVERSED
Claim Holder(s) Teck Explorations Limited	List numerically
Survey Company Teck Explorations Limited	.K. 475465
Author of Report K. Thorsen	K 475466
Address of Author <u>North Bay</u> , Ontario	K 475467
Covering Dates of Survey <u>1981-1-10 to 1981-2-15</u> (linecutting to office)	
Total Miles of Line Cut	<u>K</u>
P	
SPECIAL PROVISIONS DAYS	К 475470
<u>CREDITS REQUESTED</u> Geophysical per claim	
ENTER 40 days (includesElectromagnetic	
line cutting) for first Magnetometer	
survey. –Radiometric	
ENTER 20 days for each -Other	
additional survey using Geological	
Geochemical	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
MagnetometerElectromagneticRadiometric	
DATE: March 16, 1981 SIGNATURE:	
	i di seconda
Res. GeolQualificationsQualifications	
Previous Surveys	
File No. Type Date Claim Holder	
	TOTAL CLAIMS6

GEOPHYSICAL TECHNICAL DATA

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<u>c</u>	ROUND SURVEYS I	If more than one survey, s	pecify data for each	type of survey	
					· • • •
ſ	Number of Stations	71	Numbo	er of Readings	124
5	Station interval	25m with some 12.5m	stations Line sp	bacing <u>75,60</u>	meters
I	Profile scale	<u>lcm = 10°</u>	·		
Ċ	Contour interval	100 gammas; 500 and	_1000_gammas		
MAGNETIC	Instrument Accuracy – Scale cons Diurnal correction met Base Station check-in i Base Station location a	Sĉintrex MF tant	-1_Magnetometer_ ammasstablished_base hourly_or_les	and_Scintrex_M station	F-2 Magnetometer
S	Instrument	Crone EM 2 Coil Syst	em	Crone	VLF (Radem)
ETI	Coil configuration	Vertical and Horizo	ntal	Vertic	al
B	Coil separation	100m	····	Infini	<u>te</u>
MA	Accuracy	-0.5°		-2%	
ECTRO	Method:	🕱 Fixed transmitter	🖾 Shoot back	🗖 In line	Parallel line
	Frequency			Seattle,	Washington
EL	Parameters measured_	Horizontal & vertic	(specify V.L.F. station) al components of	, f a primary field	
	Instrument		•		•.
	Scale constant			f	
Z	Corrections made				*********
AVI					
GR	Base station value and	location	· • · • • • • • • • • • • • • • • • • •		
		·			
	Instrument				
,	Method Time Do	main	·	Frequency Domain	
	Parameters - On time	man		Frequency Domain	
	- Off time	••••••••••••••••••••••••••••••••••••••		Range	
Y TI	- Ori tine		······································	Kunge	, 1994 - Tanan ang ang ang ang ang ang ang ang ang
TIV	- Delay til	on time			
SIS	Power	in this entry			•
RE	Electrode array				
	Flectrode enacing				
	Type of electrode			***********	
	Type of circuloue				

INDUCED POLARIZATION

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K475470

, ka	Sample	Cu ppm	Zn ppm	Ag oz/t	Au on
r K E	4471 4472 4473 4474 4475 4476	13600 16400 970 682 112 170	64 86 22 31 28 83	0.54 0.45 0.04 0.04 Tr. Nil	0.05 / Im 0.02 / 0.7m 0.07 / 5.0m 0.01 / 30m 0.01 / 10cm Ni 1
		Cu ppm	Zn ppm	Ag ppm	Au ppb
	13374	8 9	163	0.5	40 / 10cm

K475469

