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Introduction

Chevron Canada Resources Ltd. Price Project consists of 68 contiguous claims in Price, Thornloe and Ogden Townships located 16 km south-west of Timmins, Ontario. The regional geology and road access can be found on OGS MAP 2455. The claims are optioned from Mr. J. Croxall and Mr. M. Kangas who live in the Timmins area.

Terraquest Ltd. of Toronto was contracted to fly an airborne VLF and magnetics survey of the claims in the summer of 1987. A copy of their operations Report A-716.1S is appended to this report.

The east and west boundaries of the property are accessed by all weather gravel roads and parts of the area are accessed by 4-wheel drive logging roads.

Regional Geology and Exploration History

Outcrops occur on the property but they have not been systematically mapped. The claims have experienced only minor past exploration activity. Two early drill holes were located in the area of claim P889263 with only one reaching bedrock. A few unmapped and poorly sampled trenches are located in the south eastern part of property. The trenches expose highly sheared and altered sedimentary, volcanic and iron formation rocks.

Regional geologic features can be seen on OGS maps 2455 and 2205. The northern portion of the property is underlain by interbedded Archean metasedimentary and metavolcanic rocks. The southern portion of the area is underlain by a sequence of metavolcanics and iron formation. The two rock sequences are interpreted to be separated by a continuation of the Destor Porcupine Fault which has been faulted south along the Mattagami River Fault. The Mattagami River Fault cuts north-south across the eastern side of the property. **RECEIVED**

A composite geologic map taken from the OGS maps and a property outline are shown in Figure 1.

MILLING LANDS SECTION

Geophysical Surveys

The airborne VLF and aeromagnetic surveys were designed to map lithology and structure on the property. Maps of contoured total field magnetic data and VLF profiles are enclosed. The data are plotted over topography so geophysical features can be properly located. The claims have been drawn on each map. The technical description of the surveys are included in the attached Terraquest Ltd. report.

Geophysical Data Interpretation

The dominant magnetic features on the property are: 1) a large, elliptical high centred on claim P849067 and elongate east-west, 2) a north-west trending, narrow high that cuts the south-west side of previously noted magnetic high and, 3) an east-west high striking across the south claims of the property. These features are interpreted to be ultramafic to mafic intrusions.



The southern, east-west high also includes iron formation. The north-west trending feature is probably a dike and the dike may follow a fault. The known east-west shearing on the property parallels and abuts the north side of the east-west high. A north north-east structure is interpreted to cut across the north-west side of the elliptical magnetic feature.

The VLF profile map shows several conductors, primarily along east-west trends. Two quite coherent conductors track the east-west magnetic feature at the bottom of the property and probably reflect the more conductive sheared rocks. The north-east trending structure along the north-west side of the central intrusive is conductive over part of its trace on the VLF map. Also two east-west conductors not associated with any well defined magnetic feature cut across the central part of the area.

Summary

The geophysical data suggest a large, unmapped intrusive is located in the central part of the claim block and is associated with dikes and fault. There could be less sedimentary rocks than presented in previous maps. The structures evident in the data will be the focus of ground follow-up geophysics and trenching.



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FIGURE 1



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A-716.1S

OPERATIONS REPORT ON AN

AIRBORNE MAGNETIC AND VLF-EM SURVEY

PRICE PROJECT

PORCUPINE MINING DIVISION, ONTARIO

for

CHEVRON CANADA RESOURCES LTD.

by

TERRAQUEST LTD. Toronto, Canada

October 19, 1987

TERRAQUEST LTD.



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Fig.	3		Sample Record	

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LIST OF MAPS IN JACKET

No. A-716.1S-1, Total Magnetic Field

No. A-716.1S-3, VLF-EM Survey

ichmond Street West, Toronto, Canada, M5H 2K1, Telephone (416) 869-0010

1. INTRODUCTION

This report describes the specifications and results of a geophysical survey carried out for Chevron Canada Resources Ltd. of 1714-390 Bay Street, Toronto, Ontario, M5H 2Y2 by Terraquest Ltd., 905 - 121 Richmond Street West, Toronto, Canada. The field work was performed on August 16, 1987 and the data processing, interpretation and reporting from August 17 to October 19, 1987.

- 1 -

The purpose of a survey of this type is two-fold. One is to prospect directly for anomalously conductive and magnetic areas in the earth's crust which may be caused by, or at least related to, mineral deposits. A second is to use the magnetic and conductivity patterns derived from the survey results to assist in mapping geology, and to indicate the presence of faults, shear zones, folding, alteration zones and other structures potentially favourable to the presence of gold and base-metal concentration. To achieve this purpose the survey area was systematically traversed by an aircraft carrying geophysical instruments along parallel flight lines spaced at even intervals, 100 meters above the terrain surface, and aligned so as to intersect the regional geology in a way to provide the optimum contour patterns of geophysical data.

2. THE PROPERTY

The property staddles Price and Thorneloe township in the Porcupine Mining Division of Ontario about 16 kilometres southwest of the town of Timmins. The property is readily accessible by roads.

The latitude and longitude are 48 degrees 20 minutes, and 81 degrees 29 minutes respectively, and the N.T.S. references are 42A/5 and 6.

The survey outline is shown in figure 2.

3. GEOLOGY

Map References

 Map 2205: Timmins-Kirkland Lake, Geological Compilation Series. scale 1:253,440. O.D.M. 1973.
 Map 2455: Timmins. scale 1:50,000. O.G.S. 1982.

The survey area is underlain predominantly by clastic metasediments, argillite and greywacke. Throughtout the southern half these sediments are intercalated with amphibolitized mafic calc-alkalic metavolcanics and some east trending iron formations.

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Tholeiitic metavolcanics occur along the east boundary of the survey area. Felsic intrusives, primarily hornblende diorite occurs to the south and southeast. Diabase dykes trend to the north-northwest and northeast. The structural systems trend to the north-northwest and east-west.

Gold mineralization has been detected in a minor quartz feldspar porphyry intrusive along the western boundary.

4. SURVEY SPECIFICATIONS

4.1 Instruments

The survey was carried out using a Cessna 206 aircraft, registration C-GGLS, which carries a magnetometer and a VLF electromagnetic detector.

The magnetometer is a high sensitivity airborne proton (Overhauser) type with the sensor element mounted in a towed bird at a distance of 14 metres below and 24 metres behind the aircraft. It's specifications are as follows:

Resolution:	0.01 gamma
Accuracy:	0.03 gamma for 2 readings per second
Cycle time:	0.5 second
Range:	20000-100000 gammas
Gradient tolerance:	Up to 5000 gammas per meter
Model:	GSM-11
Manufacturer:	GEM Systems Inc., 105 Scarsdale Rd.,
	Don Mills, Ontario, M3B 2R5

The VLF-EM unit uses three orthoganol detector coils to measure (a) the total field strength of the time-varying EM field and (b) the phase relationship between the vertical coil and both the "along line" coil (LINE) and the "cross-line" coil (ORTHO). The LINE coil is tuned to a transmitter station that is ideally positioned at right angles to the flight lines, while the ORTHO coil transmitter should be in line with the flight lines. It's specifications are:

····	
Accuracy:	1%
Reading interval:	1/2 second
Model:	TOTEM 2A
Manufacturer:	Herz Industries, Toronto

The VLF sensor is mounted in the left wing tip extension.

Other instruments are:

. King KRA-10A Radar altimeter

. UDAS-100 data processor with Digidata nine track tape recorder,

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manufactured by Urtec Ltd., Markham, Ontario. Geocam video camera and recorder for flight path recovery, manufactured by Geotech Ltd., Markham, Ontario.

Lines and Data 4.2

a)	Line spacing:	100 metres	
b)	Line direction:	360 degrees	
c)	Terrain clearance:	100 metres	
d)	Average ground speed:	193 km/hr.	
e)	Data point interval:	Magnetic:	ll metres
		VLF-EM:	ll metres
f)	Tie Line interval:	2 kilometres	5
g)	Channel l (LINE):	NAA Cutler,	24.0 kHz
h)	Channel 2 (ORTHO):	NSS Annapoli	.s, 21.4 kHz
i)	Line km over total survey	y area: 330 k	ms

4.3 Tolerances

a) Line spacing: Any gaps wider than twice the line spacing and longer than 10 times the line spacing were filled in by a new line. Terrain clearance: Portions of line which were flown above 125 b) metres for more than one km were reflown if safety considerations were acceptable.

Diurnal magnetic variation: Less than ten gammas deviation from a c) smooth background over a period of two minutes or less as seen on the base station analogue record. d) Manoeuvre noise: nil

4.4 Photomosaics

For navigating the aircraft and recovering the flight path, semicontrolled mosaics of aerial photographs were made from existing air photos. Each individual photograph was photographically adjusted to conform to the NTS map system before the mosaic was assembled.

5. DATA PROCESSING

Flight path recovery was carried out in the field using a video tape viewer to observe the flight path as recorded by the Geocam video camera system. The flight path recovery was completed daily to enable reflights to be selected where needed for the following day.

The magnetic data was levelled in the standard manner by tying survey lines to the tie lines. The IGRF has not been removed. The

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total field was contoured by computer using a program provided by Dataplotting Services Inc. To do this the final levelled data set is gridded at a grid cell spacing of 1/10th of an inch at map scale.

The VLF data was treated automatically so as to normalize the non conductive background areas to 100 (total field strength) and zero (quadrature). The algorithms to do this were developed by Terraquest and will be provided to anyone interested by application to the company.

All of these dataprocessing calculations and map contouring were carried out by Dataplotting Services Inc. of Toronto.

Grant, F.S. and Spector A., 1970: Statistical Models for Interpreting Aeromagnetic Data; Geophysics, Vol 35

Grant, F.S., 1972: Review of Data Processing and Interpretation Methods in Gravity and Magnetics; Geophysics 37-4

Spector, A., 1968: Spectral Analysis of Aeromagnetic maps; unpublished thesis; University of Toronto, 1968.

6. SUMMARY

An airborne combined magnetic and VLF-EM mapping survey has been carried out at 100 metre line intervals with data reading stations at 11 metres along the flight lines. All data is produced on maps at a scale of 1:10,000.

TERRAQUEST LED. MACHANICA Charles Q. Barrie, M. Sc CHARLES Q. BARRIE Geologist FELLOW	Qual 2. 8 305
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Name and Address of Author (o W.E., GLENN, #1714	of Geo-Technical report) 4-390 BAY STRE	ET. TOR	ONTO, OI		5H 2Y2			
Credits Requested per Each (Claim in Columns at r	ight	Mining Clai	ms Traversed	(List in nume	rical seque	ence)	
Special Provisions	Geophysical	Days per Claim	Min Prefix I	ing Claim Number	Expend. Davs Cr.	Prefix	lining Claim	Expend Days C
For first survey:	- Electromagnetic		D	840065		D	000304	
Enter 40 days. (This includes line cutting)	- Magnetometer			049005			000000	
	- Badiometric			849000			880307	
For each additional survey: using the same grid:				849067			880308	
Enter 20 days (for each)	- Uther			849068			880309	
	Geological			849069			880310	
	Geochemical			871790			889259	
Man Days	Geophysical	Days per Claim		871791			889260	
Complete reverse side and enter total(s) here	- Electromagnetic			871792			889261	
	 Magnetometer 			871703			000201	
· ·	- Radiometric			071795			009202	
	Other		-	8/1/94			889263	_
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Perlification Verifying Repo	t of Work		Ç	X	<u> </u>			
I hereby certify that I have a	personal and intimate ke	nowledge of	the facts set for	th in the Report	t of Work anne:	ked hereto,	having performed	the work
Name and Postal Address of Per	son Certifying							
W.E. GLENN, #1714	<u>-390 BAY STREI</u>	ET, TOR	<u>onto, on</u>	TARIO	<u>45H 2Y2</u>		······································	
				Date Certified	11/82	Certified I	oy (Signature))
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THE TOWNSHIP OF PRICE DISTRICT OF COCHRANE PORCUPINE MINING DIVISION SCALE: 1-INCH = 40 CHAINS DISPOSITION OF CROWN LANDS PATENT, SURFACE AND MINING RIGHTS " SURFACE RIGHTS ONLY " MINING RIGHTS ONLY LEASE, SURFACE AND MINING RIGHTS " SURFACE RIGHTS ONLY MINING RIGHTS ONLY LICENCE OF OCCUPATION 0 ROADS IMPROVED ROADS \mathbf{N} KING'S HIGHWAYS S RAIL WAYS POWER LINES MARSH OR MUSKEG \$ \$5 Ω MINES 3 CANCELLED. ŝ NOTES Ε 400' surface rights reservation along the σ shores of all lokes and rivers. Ū 1 Areas withdrawn from staking under Section 43 of the Mining Act (R.S.0. 1970). Order Nº File Date Disposition RE FOREST RATION CHILLE PLANNED may 2/83 SEP 1 5 1987" SAND AND GRAVEL QUARRY PERMIT 6 lec. Oct. 3/ This township lies within the Municipality of the CITY of TIMMINS. PLAN NO. M-307 ONTARIO المراجبة ا MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH

REFERENCES AREAS WITHDRAWN FROM DISPOSITION M.R.O. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.+ S. - MINING AND SURFACE RIGHTS Order No. Date Disposition File Description (R) SEC. 43/70 17/5/72 S.R.Q. 164584 F) FILED ONLY NOU. 15/05, 032526, 832701 QU. SAND AND GRAVEL G GRAVEL FILE 143834 5 WINIR. GRAVEL RESERVE (3) MINIR SRAVEL PIT 258 FILE 11467 NOTES Reservation for Deputy Chief Ranger's Headquarters site shown thus English File: 110657 Flooding Rights on Kenogamissi Lk. & Mattagami R. are reserved to Ont. Hydro - L.O. 7598. File: 1163 vol. 3 This township lies within the Municipality of the CITY OF TIMMINS.



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LEGEND HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. UNSURVEYED LINES: LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. RAILWAY AND RIGHT OF WAY UTILITY LINES NON-PERENNIAL STREAM man FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS ORIGINAL SHORELINE MARSH OR MUSKEG MINES TRAVERSE MONUMENT DISPOSITION OF CROWN LANDS SYMBOL TYPE OF DOCUMENT 🕑 or 🤚 PATENT, SURFACE & MINING RIGHTS , SURFACE RIGHTS ONLY 0 , MINING RIGHTS ONLY _____ LEASE, SURFACE & MINING RIGHTS , SURFACE RIGHTS ONLY..... , MINING RIGHTS ONLY L.Q. or 🔫 LICENCE OF OCCUPATION 00 ORDER-IN-COUNCIL RESERVATION CANCELLED _____ SAND & GRAVEL NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT. R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1. SCALE: 1 INCH = 40 CHAINS 1000 2000 6000 4000 2000 0 200 METRES 1000 (1 KM) (2 KM) TOWNSHIP THORNELOE NECE M.N.R. ADMINISTRATIVE DISTRICT TIMMINS NUG MINING DIVISION \sim PORCUPINE 1907 LAND TITLES / REGISTRY DIVISION COCHRANE Ministry of Land φ Natural Management Fesources Branch Ontario Number Date MARC- .985 G-322 April 4/85 - 2M. 1.9

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