

0084 0060A1 JACOBSON (

MAGNETOMETER SURVEY

CLINE DEVELOPMENT CORPORATION

CHUBB OPTION CLAIMS

JACOBSON TOWNSHIP

ONTARIO

RECEIVED

JUN 0 7 1984

MINING LANDS SECTION

L.D.S.Winter B.A.Sc.,M.Sc.,F.G.A.C. May 30, 1984

1. INTRODUCTION

Cline Development Corporation holds 12 claims (the Chubb Option) in Jacobson township in the Goudreau-Lochalsh area of the District of Algoma, Ontario.

The writer was requested to carry out a magnetometer survey of the claim group and this work was done during the period March 29, 1984 to April 4, 1984.

The following report outlines the work done, presents the results and a preliminary interpretation of the survey.

2. PROPERTY

2.1 LOCATION

The Chubb claim group of Cline Development Corporation is located in central Jacobson township at approximately 48°-19'N latitude, 84°-20'W longitude, approximately 8 km west of Lochalsh and 21 km southeast of Dubreuilville.

2.2 PROPERTY ACCESS

The property consists of 12 unpatented, contiguous mining claims as shown on the accompanying map after Plan M.1583 of the Surveys and Mapping Branch of the Ontario Ministry of Natural Resources. The claim numbers are as follows:

SSM 647055 to 647066 inclusive

The claim group can be easily accessed from Dubreuil-ville via a forest access road southeast 19.5 km to the Goudreau-Lochalsh road. The property is 1.2 km east of this junction and immediately south of the Goudreau-Lochalsh road.

2.3 TOPOGRAPHY AND VEGETATION

The property has an irregular topography consisting of till covered ridges separated by swampy areas. A

system of beaver ponds along a small stream occurs along the southeastern part of the property and a small lake is present on the east claim boundary.

North of the baseline and in the southwestern part of the claims the main forest cover is spruce with cedar in the low lying areas. In the east-central part of the property birch and poplar with some spruce are the main types of trees present.

3. REGIONAL GEOLOGY

Jacobson township is underlain by a thick assemblage of Early Precambrian-Archean-metavolcanics and lesser amounts of metasediments that in general trend east-west and dip steeply. Gabbroic to granodioritic stocks are intrusive into the metavolcanics, small felsic dikes are not uncommon and northwesterly striking diabase dikes cut all earlier units.

The metavolcanics, which are dominantly metabasalts with more felsic units in the southern part of the township have been folded into east-west trending folds whose ares strike easterly and plung steeply. The felsic metavolcanics in the southern part of Jacobson township occur along the north limb of the Centre Lake anticline, a major regional structure.

In the region of the Chubb Option claims the meta-volcanics are dominantly mafic in composition, trend approximately east-west and dip steeply.

4. SURVEY GRID

An approximately east-west baseline was chained and flagged along a previously cut and surveyed line along the southern boundary of claims SSM647055 through SSM647057. This line was extended, to the eastern boundary of the property. Cross-lines at 400 feet intervals were run north and south from this line to the claim

boundaries. A second baseline was established along the north boundary of claim SSM647066 and cross-lines were run south from this baseline to cover the claim.

5. MAGNETOMETER SURVEY

The magnetometer survey was carried out using a McPhar M700 Fluxgate magnetometer with readings being taken along the cross lines at 100 ft. intervals and 50 ft. intervals in some areas. A base station was established at the baseline and L66E with a value of 1610 nT.

The baseline was surveyed to establish secondary base stations at the intersection of each survey line and the baseline. The property was surveyed in loops along the north-south lines with tie-ins at the secondary base stations on the base line. Secondary base station tie-ins varied between 45 and 90 minutes. Readings were corrected for drift by comparison with the secondary base station readings at the beginning and end of each loop. The corrected values were plotted and contoured on the accompanying magnetometer survey.

5.1 MAGNETOMETER SURVEY RESULTS AND INTERPRETATION

The corrected values range from a low of -2970 nT to a high of 14980 nT with values generally being in the 1500 nT to 4500 nT range.

A band of high values, (2000 to 14980nT) approximately 500 feet wide stretches across the northern part of the claims with an east-west to east-southeast trend. South of this band is a zone of generally lower values (1500-1800nT) approximately 600 feet wide. These two areas are considered to represent relatively thick mafic metavolcanic flows with different magnetic signatures.

In claims SSM647061, 647062 and 647063, the magnetic values produce a series of magnetic ridges and troughs.

100 to 200 feet wide, with an east-southeast direction. These features are probably due to a series of thin mafic metavolcanic flows whose magnetic expression varies from flow to flow.

A linear feature as evidenced by the 2000nT contour is present from L74E:9S to L99E:8S and this corresponds to the projected location of an east-northeast trending shear zone from claims to the west. South of this feature the magnetics show an east-west trend with linear highs separated by broad areas of lower values. This area is considered to be underlain by mafic metabasalts with the highs being due to individual magnetiterich flows or mafic intrusives.

6. SUMMARY AND CONCLUSIONS

The property was surveyed with a McPhar M700 flux-gate magnetometer and the results are presented in the accompanying map.

It is considered that the magnetometer survey shows the property to be underlain by a series of approximately east-west trending mafic metavolcanic flows and possibly some associated mafic intrusives. The survey indicates an east-northeast trending linear feature that coincides with the projected location of a shear zone on the adjacent claims to the west. North of this structure the magnetic trends are east-southeast and south of the structure the magnetics show an east-west orientation.

It is recommended that the property be geologically mapped and prospected with the magnetometer survey to be used as an aid in the geological interpretation of the property. The magnetometer survey does not appear to specifically indicate any areas of economic interest.

Respectfully submitted,

LDS. Winter

L.D.S.Winter
B.A.Sc., M.Sc., F.G.A.C.
May 30, 1984



CERTIFICATE OF QUALIFICATION

- I, Lionel Donald Stewart Winter do hereby certify:
- 1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
- 2. that I am a Fellow of the Geological Association of Canada,
- 3. that I graduated from the University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
- 4. that I have practised my profession continuously for 25 years.
- 5. that my report for Cline Development Corporation, Chubb Option Claims, Jacobson Township, Ontario dated May 30, 1984 is based on field work carried out by and/or supervised by me during theperiod March 29 to April 4, 1984.

L.D.S.Winter
B.A.Sc.,M.Sc.,F.G.A.C.

May 30, 1984

LDS. Winter

L. D. S. Winter

Personnel Names, Addresses, Man-Days

Name	Address	Man-Days
K. Krause	1819 Oriole Drive, Sudbury, Ontario.	3.5
L.D.S.Winter	1849 Oriole Drive, Sudbury, Ontario.	3.5
Line-outting & F	lagging	
K. Krause	1819 Oriole Drive, Sudbury, Ontario.	3.5
L.D.S.Winter	1849 Oriole Drive, Sudbury, Ontario.	3.5
Reports and Map		
L.D.S.Winter	1849 Oriole Drive, Sudbury, Ontario.	2.5
P.M. Winter	1849 Oriole Drive, Sudbury, Ontario	1



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File No 2.683 6

Control Sheet

	TYPE OF SURVEY	GEOPHYSICAL GEOLOGICAL GEOCHEMICAL EXPENDITURE	
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Signature of Assessor

24/01/84

Date

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OFFICE USE ONLY



Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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) MAGNETO		·
Township or Area JACOB SO		MINING CLAIMS TRAVERSED
Claim Holder(s) CLINE DEV		List numerically
CORPOR		- 4474.55
Survey Company WINTERBOURN		(mrefix) (masker)
Author of Report L.D. S. W		- SSM 647056
Address of Author 1849 ORIO	,	
Covering Dates of Survey MARCH	29 TO APRIL 4: 198 inecutting to office)	
Total Miles of Line Cut 12.4		SSM 647058
<u></u>		ssm 647059
SPECIAL PROVISIONS	DAYS	SSM 647060
CREDITS REQUESTED	Geophysical per claim	SSM 647061
ENTER 40 days (includes	Electromagnetic	
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survey.	-Radiometric	SSM 647063
ENTER 20 days for each	-Other	SSH 647064
same orid.	Geological	SSN 647065
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GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

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INDUCED POLARIZATION



Ministryof **liatural** Resources

me and Postal Address of Person Certifying

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

#125-84 " 2.6836

Instructions: - Please type or print.

- If number of mining claims traversed exceeds space on this form, attach a list.

Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Do not use shaded areas below.

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1984 07 03

Your File: 125 Our File: 2.6836

Mrs. M.V. St. Jules
Mining Recorder
Ministry of Natural Resources
875 Queen Street Bast
P.O. Box 669
Sault Ste. Marie, Ontario
P6A 5N2

Dear Madam:

We have received reports and maps for a Geophysical (Magnetometer). Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims SSM 647055 et al in the Township of Jacobson.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416) 965-1380

A. Barrisc

cc: Cline DevelopmentCorporation 174 Douglas St W Sudbury, Ontario P3B 1G1

cc: L.D.S. Winter 1849 Oriole Drive Sudbury, Ontario P38 2W5

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SEE ACCOMPANYING MAP (S) IDENTIFIED AS JACOBSON-0060-A1 #1

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LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)



