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REPORT ON SELF POTENTIAL SURVEY JASPERSON CLAIM GROUP, HESS TWP., SUDBURY AREA, ONTARIO

RECEIVED DEC 8 1981

MINING LANDS SELLION

INTRODUCTION

In the fall of 1980, John Jasperson, owner of the claims, carried out a detailed geochemical survey over part of patented claim 56631, and outlined an interesting nickel anomaly. The anomaly was in low ground and trended in a general NE-SW direction. To the west was higher ground with an elevation some 50 to 60 feet higher. It was recommended that a self potential test be made. The writer accompanied John Jasperson on two occasions to the property to make these tests. No anomaly was found over the geochemical anomaly, nor on the higher ground to the northwest. Nevertheless, the writer recommended a self potential survey over the four-claim group.

Base and grid lines were picketed and chained (see Map), and the survey was conducted by John Jasperson between September 12 and 28, 1981.

PROPERTY, LOCATION, ACCESS

The property is in Hess Township, lying north of Sudbury, and consists of two patented claims: S6631, S6632, and two unpatented claims: 600759 and 600760, forming a square $\frac{1}{2}$ mile by $\frac{1}{2}$ mile.

The Key Map below shows the location. Access is by Highway 144, which joins Sudbury to Timmins. About 35 miles north of Sudbury, a gravel road (Geneva Lake Road) extends east past the Lake Geneva property (five miles) and ac ross the southern part of the Jasperson property (six miles). Although apparently uncored for, it is still navigable by car.

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GEOLOGY AND TOPOGRAPHY

The rocks under the claim group are a part of the "Benn y" greenstone belt, and consist of volcanics, mainly, ranging from acid to basic. These rocks have a general east-west strike and in places they are intruded by acid and basic rocks and dykes.

Elevation differences on the property range up to sixty feet, and, despite the general E-W strike of the formations, much of the topography has a NE-SW trend. Beaver activity is high in this area with some flooded roads, swamps turned into impassable marshes, and ponds enlarged into small lakes. As a result, although the lines and survey were extended as far as possible over the claim group, there are some blank stretches.

SURVEY METHOD

The survey was carried out using a reel of wire (1700 feet) and two porcelain porous pots containing saturated copper sulphate solution and copper electrodes. The porous pots were placed in canvas sample bags containing the same kind of wet soil. This means that each pot is immersed in the same pH, which inhibits wide variations in potential which one finds when the pots make contact with soils of different acidity (i.e. when one pot is in a wet humus swamp and the other in a dry sandy soil, the potential variation can reach up to 110 millivolts). The instrument was a pocket-size "Multimeter" which has been checked against two different potentiometers.

The writer has checked the readings and assigned millivolt values taken by John Jasperson, and is satisfied the survey was carried out in a very competent manner, with tight control on the base and control stations.

INTERPRETATION OF SURVEY RESULTS

The assigned values of the self potential readings vary from a minimum of +20 millivolts to a maximum of -132 millivolts. Even

without the visual evidence, this indicates that sulphides are present. The writer has used a -45 millivolt contour on the map to outline the stronger sulphide mineralization. However, he suspects that a -20 or -25 millivolt contour would outline weaker, more widespread mineralization.

In short, the many negative values supports the writer's observations of rock specimens from many parts of the property, that disseminated and fine stringers of sulphides are prevalent. Whether this mineralization is a "halo" around some orebody remains to be found. Nevertheless, it is encouraging.

The scale of the map is 1 inch to 2 chains (132 feet). Readings were taken at ½ chain intervals (33 feet). The grid lines are 6 chains (396 feet) apart. On the northern parts of Line 12W and Line 0+00, there are anomalous readings which might indicate more northerly-trending anomalies. These need to be confirmed, and if confirmed, detailed, probably with east-west traverses. A recommended magnetic survey over the present grid lines, may help to define the strike of the stritigraphy or anomalous zones.

Any interpretation linking up anomalous readings between lines some 400 feet apart, is, obviously, subjective. Nevertheless, acknowledging this difficulty, and stressing the need for more detailing between lines, the writer believes that five anomalous areas: "A", "B", "C", "D" and "E" deserve more detailing, not only with the S.P. but a magnetometer check and an E.M. check, to determine whether pyrrhotite or good-condcting (heavier) sulphides are present.

Anomaly "A", on the northern part of Line 12%, is close to an old pit from which dump rock samples have indicated interesting amounts of chalcopyrite and some sphalerite and galena. It appears to be a one-line anomaly, but, for lack of detailing, it may be part of the northeast-trending Anomaly "C". On Line 12% north, Anomaly "B" is the strongest so far found. Detecting this anomaly led to the discovery of another old trench from which samples showed pyrite, pyrrhotite and minor chalcopyrite. The pyrrhotite may explain the stronger S.P. anomaly. The rock from this trench is more acidic than the rock from Anomaly "A", suggesting, as the S.P. suggests, that they are not from the same stratigraphic horizon.

Anomaly "C" (if the interpretaion is correct) is the longest of any of the anomalies - ac ross three lines for a strike distance of some 1450 feet, with, possibly, as suggested above, a link-up with the old copper pit of Anomaly "A". Anomaly "D", south of "B", and Anomaly "E" in the southern part of claim 600579, also deserve more attention.

The most interesting anomaly in the writer's opinion is "C". It cuts across the general strike and suggests there may be some NE-SW structure, possibly faulting, folding or dyking, which involved or controlled mineralization. Certainly, the self potential survey indicates that more detailing and exploration is warranted.

RECOMMENDATIONS

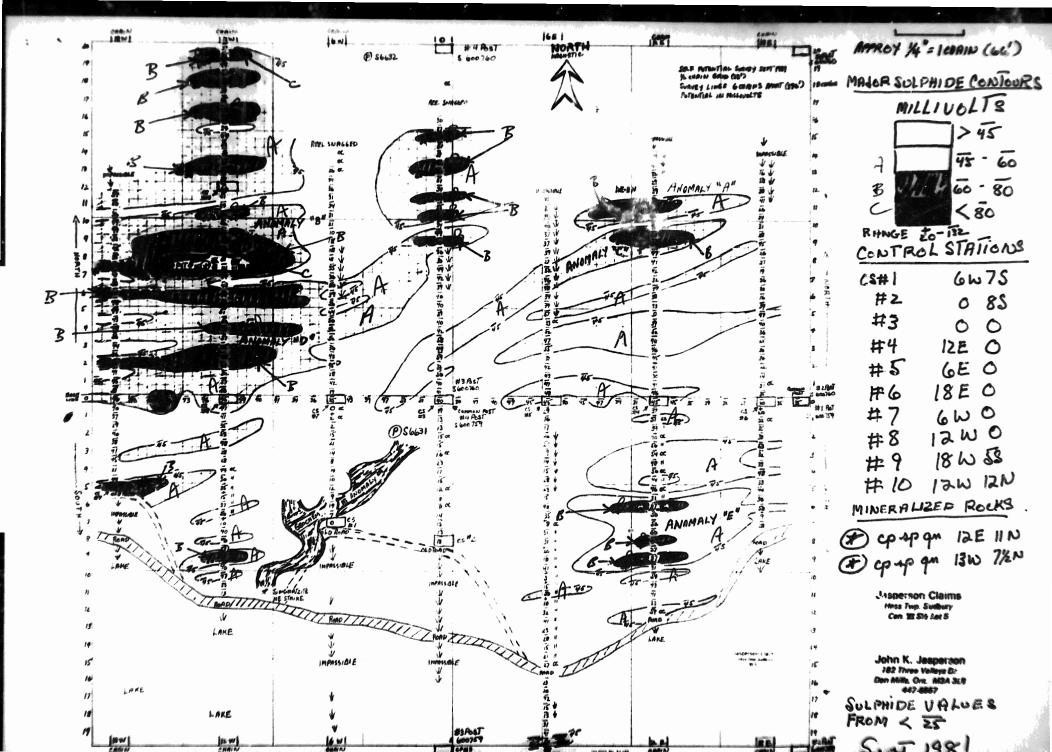
It is recommended that more self potential detailing, along with magnetic surveying and some check electro-magnetic, be carried out over the anomalies. Magnetic and E.M. could be conducted in the winter-time, but the S.P. should wait until after break-up.

S. V. Burr

S.V. Burr

November 23, 1981







OFFICE USE ONLY

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNIC FACTS SHOWN HERE NEED NOT BE REPEATED	
TECHNICAL REPORT MUST CONTAIN INTERPRETATION,	
Type of Survey(s) SELF POTENTIAL	Z :
Township or Area	
Claim Holder(s) SOHN K. JASPERSON	MINING CLAIMS TRAVERSED List numerically
Auusta John K. Jaspersen	Last numerically
	100759
Survey Company Don Mills. Ont M3A 3L8 Author of Report 5. V. BURR	600759 (prefix) (number) 600760
Author of Report 3. V. DURK	600760
Address of Author 2111-140 CARLTON ST. TORON TO	
Covering Dates of Survey 3/ Au6/98/ - 28 SEPT 198/ (linecutting to office)	
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(enter days per claim)	
200 1/2 93/8/ 2000 AVB	
DATE: Nov 23/8/ SIGNATURE: Author of Report or Agent	

Res. Geol. Qualifications	
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	TOTAL CLAIMS

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December 18, 1981

V.C. Miller Mining Recorder Ministry of Natural Resources 199 Larch Street Sudbury, Ontario P3E 5P9

Dear Sir:

We have received reports and maps for a Self Potential Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims S.600759-60 in the Township of Hess.

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

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen a Park Toronto, Ontario M7A 1W5 Phone: 416/965-1380

cc: S.V. Burr Toronto, Ontario June 6, 1983

Mr. John K. Jasperson 182 Three Yalleys Dr. Don Mills, Ontario M3A 3L8

Dear Sir:

Re: Geophysical (Self-Potential)
Survey submitted on Mining Claims S 600759-60

et al in the Township of Hess

Enclosed is the plan, in duplicate, for the above mentioned survey. Please have the author of the report date and sign the plan and return it to this office.

For further information, please contact Mr. F.W. Natthews at 416/965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416-965-1380

R.Pichette:eib

encls.

cc: Mining Recorder Sudbury, Ontario 182 Three Valleys Dr. Don Mills Ont. June 9, 1983

Mr. E.F. Anderson, Director Land Management Branch MNR, Whitney Block, Rm 6450 Queen's Park, Toronto, M7A 1W3

Your File: 2.4379

As requested in your letter of June 6th, 1983, please find the map duly signed and dated by the author of the report - who in this case was Stan Burr.

Glad to be of help, yours sincerely,

John K. Jasperson

TOWNSHIP OF

HESS

DISTRICT OF SUDBURY SUDBURY MINING DIVISION

SCALE : I-INCH = 40 CHAINS

LEGEND

PATENTED LAND
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LEASES
LOCATED LAND
LICENSE OF OCCUPATION
MINING RIGHTS ONLY
SURFACE RIGHTS ONLY
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IMPROVED ROADS
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RAILWAYS
POWER LINES
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