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GEOPHYSICAL ENGINEERING LIMITED

NORTH BAY, ONTARIO

REPORT ON THE

GEOPHYSICAL SURVEY

OF

CLAIMS L357905 and L357906

SAVARD OPTION

STRATHCONA TOWNSHIP, ONTARIO

FOR

COPPERFIELDS MINING CORPORATION LIMITED

N. T. S. 31 M/4/54

January 17, 1974

H. D. Mg D. McLEOD POLINCE OF ONTAR

REPORT NO. 503 N.B.

SUMMARY & RECOMMENDATIONS

Geophysical surveys of the claims failed to locate any conductors of interest. A small conductor lying a short distance to the south of the #3 post of claim L357905 may suggest an area of interest to the southwest.

The geophysical results suggest that the Huronian sedimentary series is thick.

No further work on the claims is warranted.

INTRODUCTION

Claims L357905 and L357906 Strathcona Township were acquired from L. Savard of North Bay, Ontario in June, 1973 as part of a larger group. Exploration work carried out during 1973 did not extend to this area but tested copper showings to the north. The prime purpose of these surveys was assessment work since the area is underlain by Huronian sediments, however the probable existence of an east west fault, the belief that the Huronian cover is thin and the existence of copper and copper-zinc mineralization in the nearby Archean warranted a geophysical test.

The claims presently are registered in the name <u>R. J. Wright, P.O. Box 49. Suite 4900. Toronto Dominion Center.</u> Toronto, Ontario.

The surveys and line cutting were done by A. McClemens, 19 McDonnell St., Noranda, Quebec, under contract to Geophysical Engineering Limited, 2189 Algonquin Ave., North Bay, Ontario. The writer planned and directly supervised the work which was carried out during the period <u>December 23 to 28, 1973</u>.

LOCATION & ACCESS

The claims are located in the central part of Strathcona Township, a distance of approximately 3 1/2 miles south of Temagami, Ontario.

An access road from Highway 11 to a nearby tourist camp lies a short distance to the west of the west boundary of the claims.

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TOPOGRAPHY

The greater part of the claims area <u>lies under Lowell</u> Lake. The land portion on the south shore of the lake consists of a high steep-sided hill. This combined with several feet of snow <u>prevented surveys over small sections of the area</u>. <u>GEOPHYSICAL SURVEYS</u>

A grid of north-south picket lines from an <u>east-west</u> base line was set out on the lake. Some lines extend inland where topography permitted.

V.L.F. electromagnetic and <u>magnetometer surveys</u> were done along the lines, readings being taken at <u>100- foot</u> intervals. The survey methods are described in the appendix and the results shown on the accompanying maps.

GEOPHYSICAL RESULTS

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The <u>magnetometer survey</u> shows only a gentle increase in intensity from the center of the group to the northwest corner. The change in values is only <u>300 gammas</u> and probably reflects only thinning of the Huronian cover.

The <u>electromagnetic survey</u> outlined a weak anomalous trend extending completely across the claims in an east-west direction. In general the conductivity is weak, likely caused by overburden or topographic effects. At the west end however, and slightly to the south of the claims, a moderate conductor appears to have a legitimate bedrock source.

<u>GEOLOGY</u>

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The shoreline of the lake is entirely Huronian greywackes and conglomerates. The results of the magnetometer survey suggest a basin of sediments with the deepest part near the #2 - #3 post of the two claims.

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

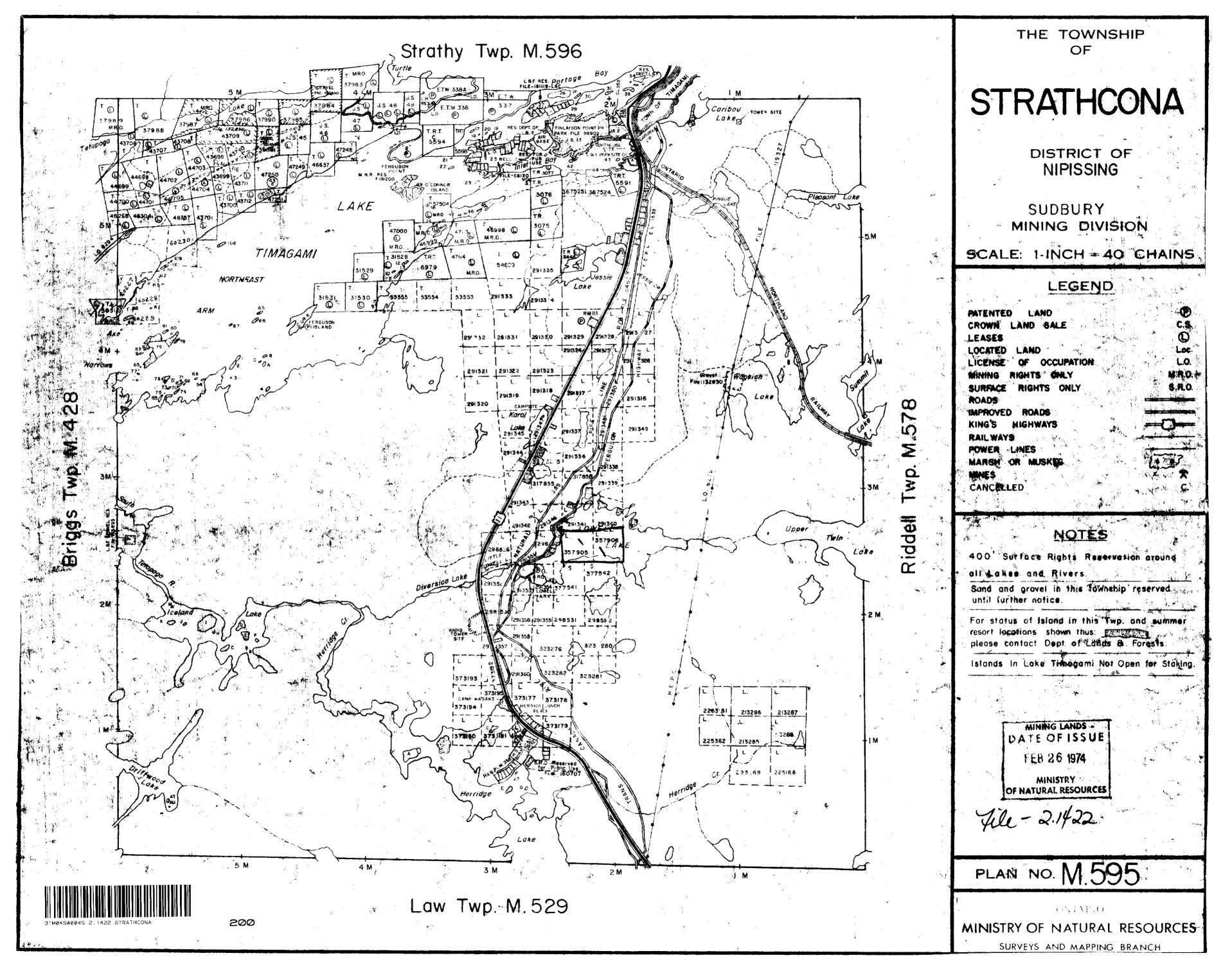
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| Claim holder(s) R. J. Writ | ht 9, Toronto Dominion Center. | MI | NING CLAIMS T List numeri | |
| Author of Report H. D. M | | - | 857905 | |
| Address 673 Norman Ave. | , North Bay, Ontario | - | (prefix) 357906 | (number) |
| Covering Dates of Survey | ember 23 - 28, 1973 | L | 357906 | |
| | (linecutting to office) . 55 | - | | |
| MagnetometerElectron | DAYS per claim Electromagnetic Magnetometer Radiometric Cother Geological Geochemical orovision credits do not apply to airborne surveys) magneticRadiometric | | | |
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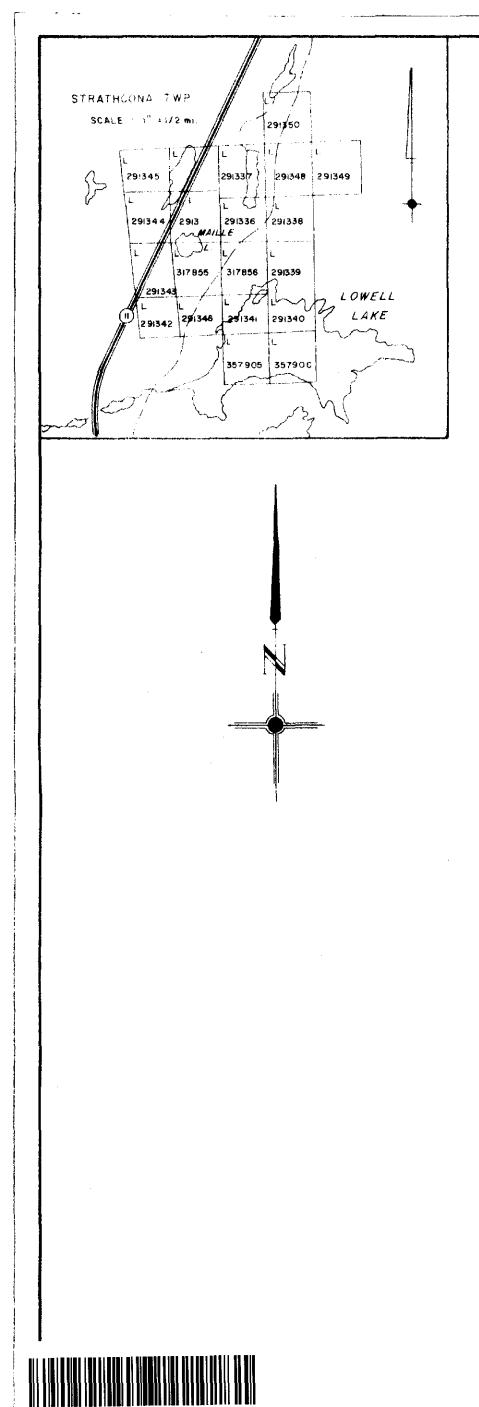
Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

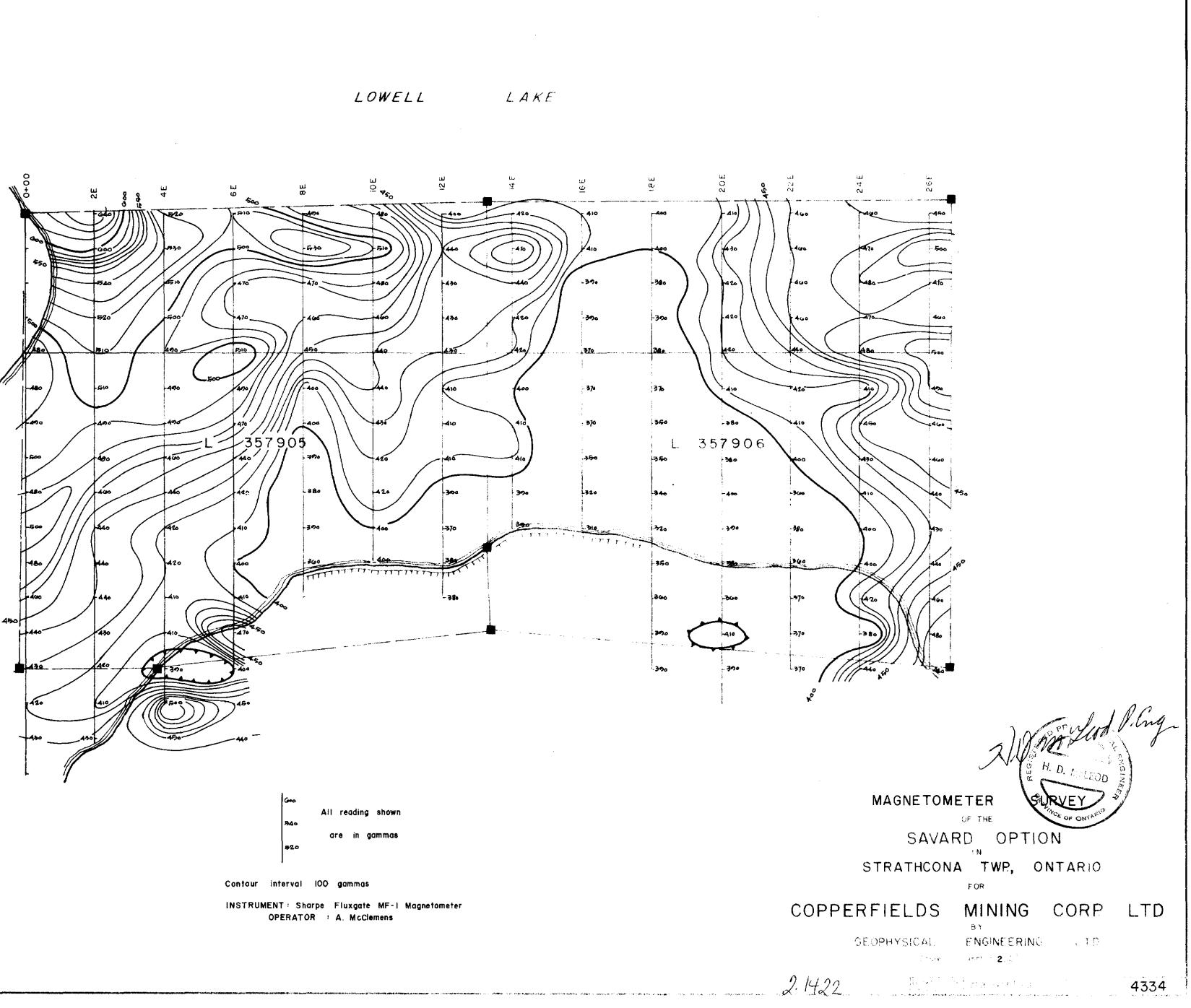
GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

| Instrument Sharpe Fluxgate Model MF-1 Magnetometer Accuracy - Scale constant | Number of Stations | of StationsNumber of Readings | | | | | |
|--|------------------------------------|---|----------------|-------------------------|--|--|--|
| Profile scale or Contour intervals | Station interval | | | | | | |
| (specify for each type of survey) MAGNETIC: Instrument | Line spacing | | | | | | |
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| Diumal correction method Hourly Base station location See map. ELECTROMAGNETIC Instrument Crone Radem V. L. F. unit Coil configuration Vertical Coil configuration Vertical Coil separation Not applicable Accuracy | MAGNETIC | | | | | | |
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| Instrument Vertical Coil configuration Not applicable Accuracy | | | | | | | |
| Controlling Not applicable Coil separation Not applicable Accuracy | Instrument | • | | | | | |
| Accuracy | | | | | | | |
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| Power Electrode array Electrode spacing | Time domain | Frequency domain | | | | | |
| Power Electrode array Electrode spacing | Frequency | Range | | | | | |
| Electrode spacing | | | | | | | |
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