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**A REPORT ON
GEOPHYSICAL SURVEYS
CONDUCTED OVER THE PROPERTY OF
NORTH D'ARCY EXPLORATIONS LTD.**

INTRODUCTION

Under contractual agreement between North D'Arcy Mines Ltd. and Earth Services International, Geophysical surveys, comprising Magnetometer and Electromagnetometer were run over the 36 claim group held by North D'Arcy Explorations in Fintry and Auden Townships. The survey was performed during September, October and November of 1970.

PROPERTY AND LOCATION

The company holds a 36 claim group in the North West corner of Auden Township and North East corner of Fintry Township. The claims straddle the Magagami river approximately 11 miles North of Highway 11 and 40 miles West of Hearst. Access is by means of a poor bush road to the property, by ATV or snow vehicle. The river is too shallow and fast for aircraft landings or for safe navigation.

The claims occupy a long irregular rectangle in an East West long axis.

The claim numbers are 213077 to 213112, inclusive.



TOPOGRAPHY AND FEATURES

The terrain is of low relief with maximum elevations of 75 feet, and with little rock exposure except on the river banks and hillsides. The soil cover is sand and clay with heavy 2nd growth conifers and softwoods. Swamp areas are frequent. The main feature is the river, which is wide, shallow and fast flowing. Small creaks are found on both East and West ends, with a large beaver pond on the West side.

Considerable rock exposure is noted near the rapids and copper mineral and staining are present.

GEOLOGY

The geology has been well covered in the Engineer's report and various O.D.M. publications and will not be reviewed here.

Rock types present comprise conglomerates, greenstones and acid volcanics.

SURVEY DATA

A picket grid of 200 foot interval was out over the claims in a North South direction with N. W. base and tie lines. Station interval was 100 feet. The survey interval was 400 x 100 feet. Readings were taken at each station using a Morhar M700 Fluxgate magnetometer and a Crone VLF Radon E.M. All readings taken were corrected for temperature, diurnal and time drifts



as required from a control grid set up on the claims.

Results are presented on the accompanying map in numerical and graphical form.

MAGNETOMETER

The magnetometer results indicated a band of magnetic anomalies running in an E.W. direction across the centre of the claims. These are indicated by alphabetical sequence in order of intensity and importance from A to Q.

ELECTROMAGNETOMETER

A series of E.M. conductors were located, again striking E.W. and in a very large part co-inciding with the magnetic anomalies.

These are numbered in numerical sequence in descending order of strength and importance from 1 to 17.

CONCLUSIONS

A number of co-incident Magnetic and E.M. anomalies were located of such a nature as to indicate the presence of massive sulfides in quantity. It will be necessary to determine by drilling the character and content of the sulfides.

The structures located should be drilled in descending order of intensity.


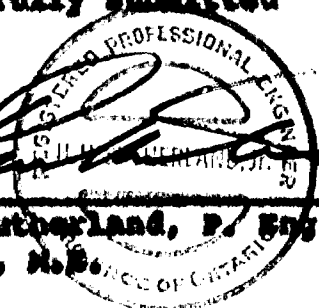


RECOMMENDATIONS

An initial programme of 2000 feet of drilling using AXF core should be implimented.

The initial 2 holes should be close to the river on the East side. Further holes should be drilled to the West and East in the anomalies indicated.

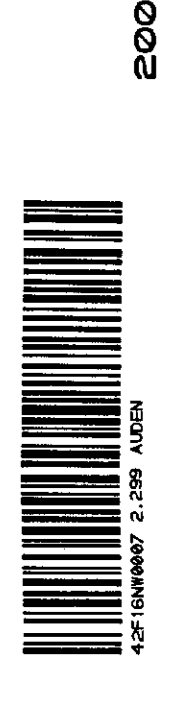
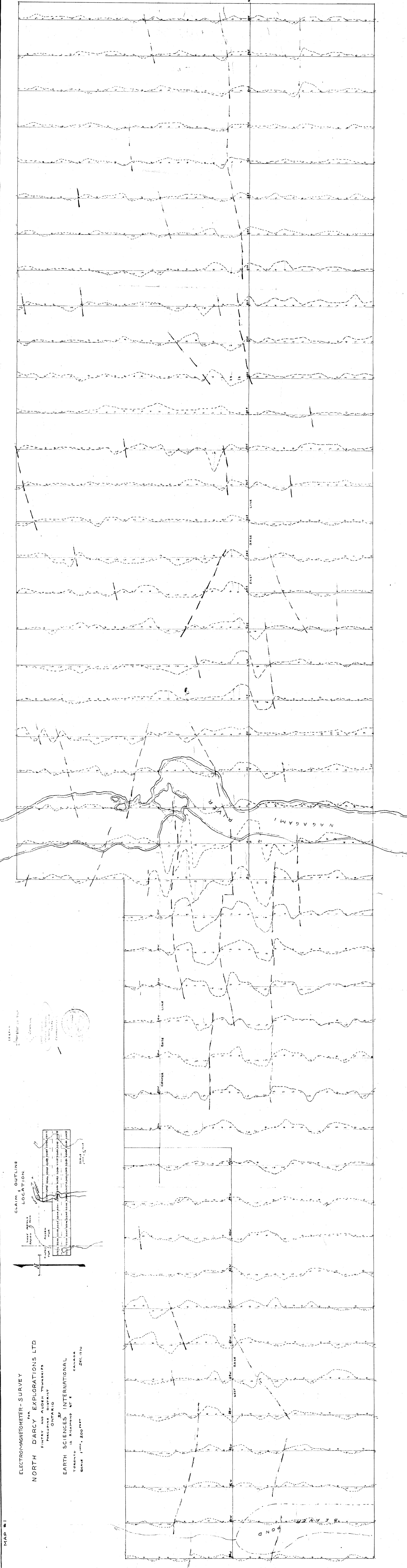
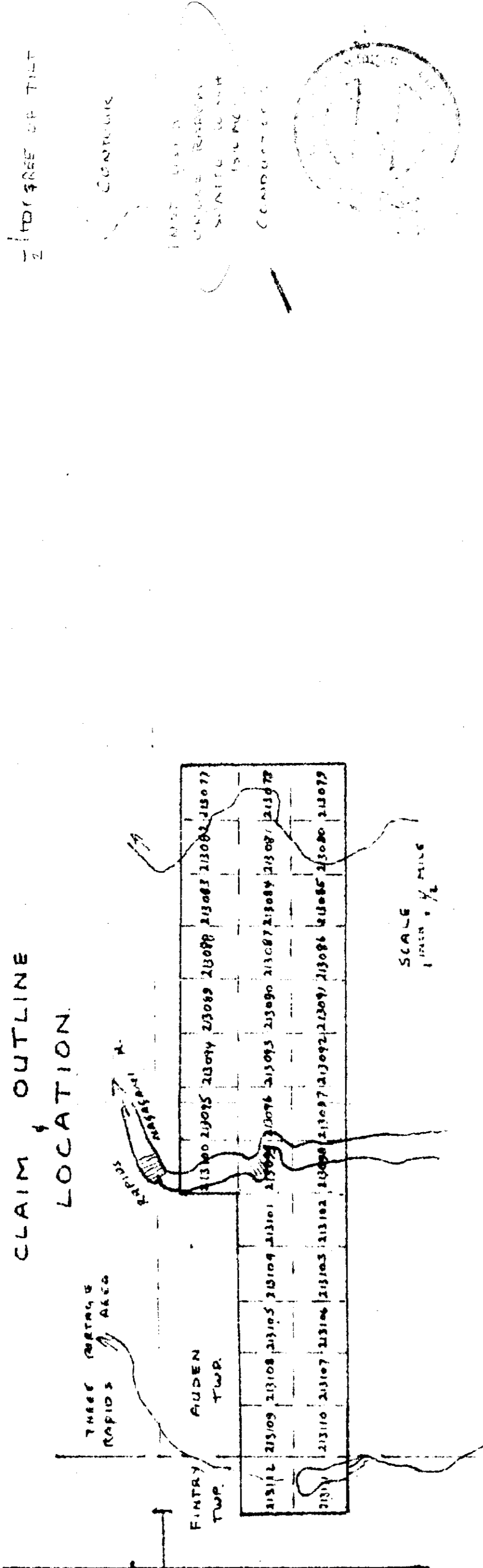
Respectfully submitted


H. A. Sutherland, P. Eng.
B.A.Sc., M.B.


Toronto, Ontario.
February 1, 1971.

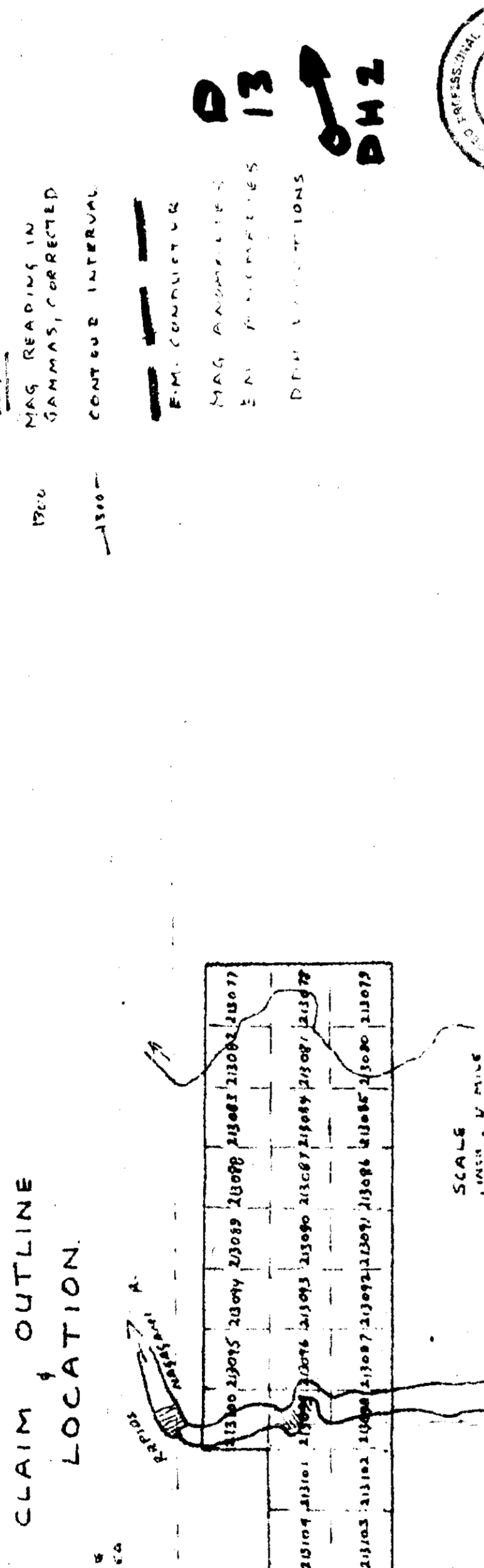
MAP #1

ELECTROMAGNETIC SURVEY
FOR
NORTH DARCY EXPLORATIONS LTD
FINLAY AND AUDEN TOWNSHIPS
PREQUELIN DISTRICT
ONTARIO
EARTH SCIENCES INTERNATIONAL
TORONTO 13 RICHMOND ST E CANADA
SCALE 1" = 200 MET
DEC 1970



MAGNETOMETER SURVEY
 FOR
NORTH DARCY EXPLORATIONS LTD
 FINLAY AND AUDEN TOWNSHIPS
 PARISH DISTRICT
 ONTARIO

EARTH SCIENCES INTERNATIONAL
 TORONTO 12 RICHMOND ST E CANADA
 DEC. 1970
 SCALE 1:200,000



LEGEND
 MAGNETOMETER SURVEY
 CLAIM OUTLINE
 LOCATION
 1:200,000

