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REPORT ON MAGNETOMETER SURVEY

OF

CAVENDISH URANIUM & MINING COMPANY LIMITED PROPERTY

CAVENDISH TOWNSHIP, PETERBOROUGH COUNTY, ONTARIO

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INTRODUCTION

The property surveyed consists of nineteem claims in two groups, all located in Cavendish Township, Peterborough County, Ontario. The northern group comprises claims E07318 - E07321 inclusive. The southern group comprises claims E07316, E07317, E07432, E07433, E07489 - E07497 inclusive, E07466, and E07608.

The claims may be reached by means of a gravel road which crosses the property.

GENERAL GEOLOGY

The area in the vicinity of the property is underlain by limestones, with minor amounts of amphibolite and paragneiss, which have been intruded by granite gneiss and a pink granite, which is often pegmatitic. This pink granite and pegmatitic rock is generally radioactive, the intensity of the radioactivity reportedly increasing as the amount of magnetite present increases.

Three radioactive zones have been reported on the property with assays on the main zone reported as 0.05% - 0.19% UgOg.

GEOPHYSICAL SURVEY

Readings of the vertical component of the earth's magnetic field were taken at intervals of 100 feet along lines spaced 400 feet apart. An Askania-type magnetometer with a sensitivity of 29.7 gammas per scale division was used.

RESULTS OF GEOPHYSICAL SURVEY

2.

A number of roughly north-south trending linear magnetic highs are shown on the map accompanying this report. These highs appear to be caused by relatively narrow bodies. In view of the reported association on the property of the radioactive minerals with magnetite, these magnetic highs are considered to be of some importance.

RECOMMENDATIONS

It is recommended that the magnetic highs shown on the coloured contour map accompanying this report be investigated by surface exploration. This work should include detailed geiger or scintillometer work combined with trenching and stripping. Work should be concentrated on those somes which have the largest areal extent, and appear to offer some hope of developing substantial tonnages.

Respectfully submitted, MINING GEOPHYSICS CORPORATION LIMITED

N. B. Keevil

Toronto, Ont., July 30, 1954.

APPENDIX TO MINING GEOPHYSICS CORPORATION LIMITED REPORT NO. 372

Surveying, Mine-cutting, picketing, chaining June 10/54 - July 10/54 1 (178 man-days Geophysical readings June 12/54 - July 12/54 (48 man-days Calculating, plotting, drafting, report July 12/54 - July 28/54 1 19 man-days (intermittently) 240 man-days

240 x 4 - 960 man-days

PERSONNEL

19 Jam

FIELD:

M. A.	Edwards	-	Fredericton, N. B.	June	10/54 -	July	12/54
D. D.	Cowan	-	Toronto, Ont.	June	10/54 -	July	12/54
D. J.	Salt	-	Toronto, Ont.	June	10/54 -	June	12/54
Harve	y Green & (orew	(line-cutters) Lakefield, Ont.	June	10/54 •	July	10/54

OFFICE:

D. J. Salt	- Toronto, Ont.	July 10/54 - July 12/54
J. C. Frantz	- Toronto, Ont.	July 15/54 0 July 28/54 (intermittently)
R. B. Evis	- Toronto, Ont.	tt tt . tt
N. B. Keevil	- Toronto, Ont.	89 XX . 78
M. Frantz	- Toronto, Ont.	July 30/54

Miles of Line - 25.5 No. of Stations - 2160

Instrument:

Watt vertical magnetometer, Scale constant 29.6 gammas per scale division



INDEX MAP

STATES

200

Flight line

Flight altitude : 1,000 feet above ground level

- th

Scale: One Inch to One Mile = $\frac{1}{63,360}$ 1 3/4 1/2 1/4

No correction has been made for regional variation; this increases at the rate of 3.5 gammas per mile from east to west and 3.0 gammas per mile from south to north

By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced by the geologist into, or across, areas of few or no outcrops. In many instances, however, no present interpretation of particular anomalies may be possible.





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