

TRA-91-92

PROPOSED GEOPHYSICAL INVESTIGATIONS BY THE BUREAU OF MINERAL RESOURCES FOR 1960

by T. D. Hughes.

Following a visit with Dr. Horvath of the Bureau to the areas concerned, we have suggested the following programme:—

1. SAVAGE RIVER IRON ORE DEPOSITS

1. Survey of lines already cut and pegged to the south of the area already investigated, that is south of "A" line. There will be six traverses, 500 feet apart and averaging 1500 feet in length.

2. Survey of further traverses intermediate between existing traverses. It is proposed to put in two traverses between each two existing ones, thus making the traverses 200 feet apart.

3. An extension of the geophysical survey west on lines "A" and "B". This extension has already been cut and pegged.

4. Survey of traverses F7, F13 and F20 in the northern portion of the area. These traverses lie over an area of basalt, but it is not considered that the basalt is of any great thickness (perhaps a maximum of 30 feet) and Dr. Horvath is of the opinion that any possible magnetite deposits beneath it could be detected.

5. For the same reason, it is proposed to cut and survey two additional traverses over the basalt north of "A" line.

Geologist P. Tetlow has been instructed to prepare the following work for a Bureau Geophysicist, who should be ready to carry out a magnetometer survey late in January.

2. HEAZLEWOOD NICKEL DEPOSITS

The investigations here are to take place in two phases. The first is to consist of an area 1200 feet x 1200 feet having as its centre the entrance to the Lord Brassey adit. The base line will be on a bearing of true north and will pass through the adit mouth. Traverses will be put in every 100 feet and pegged each 50 feet. The nickel mineral, heazlewoodite is here associated intimately with magnetite and a magnetometer survey may pick up concentrations of these minerals. If definite results are obtained then the survey will be extended to cover an area one mile square.

A Commonwealth surveyor will lay out the base line, and the rest of the survey will be completed by Geologist P. Tetlow. It is thought that little thick country will be encountered in the first stage.

DUNDAS

An area to be investigated by electro-magnetic and self potential methods is at Dundas between the Razorback and Grand Prize Lines of lodes and contains the boundary between Dundas rocks and serpentine. Three base lines have been planned here. No. 1. is about 5000 feet long and at a bearing of 335°. No. 2 is about 4600 feet long and at a bearing of 300°, and No. 3 is about 4000 feet long and at a bearing of 350°. Traverses should be 200 feet apart and pegged every 25 feet.

The survey will be done by the Department of the Interior but the country is very thick in this locality and it is important that competent track cutters be employed by this Department.