



AIRBORNE MAGNETIC AND ~~ALSO~~
ELECTROMAGNETIC SURVEYS.
T. CLEMENT PROPERTY GREENLAW AND CUNNINGHAM TWP., ONTARIO

BY

GEOPHYSICAL ENGINEERING & SURVEYS LIMITEDPROPERTY

The T. Clement Property consists of 49 mining claims, S92262 to S92274, S90447, S92276, S93656 to S93660, S93647, S93648, S93651 to S93655, S94587 to S94604, S93643 to S93646 located in Greenlaw and Cunningham townships, Ontario.

GEOPHYSICAL SURVEY

The claims were traversed in the course of a regional airborne survey using a Gulf-type airborne magnetometer and an airborne electromagnetic unit. The out of phase components of the secondary fields induced by primary fields, caused by 400 and 2300 cycle currents passed through a coil mounted on the aircraft, were measured with the electromagnetic unit.

The area flown comprises approximately 600 square miles and was covered by north-south traverse lines spaced $\frac{1}{4}$ mile apart. The mean terrain clearance was 500 feet. Any diurnal variation was corrected by flying cross lines to tie in the north-south traverse lines.

Intercepts were taken at 100 gamma intervals along the profiles and at 25 gamma intervals in areas of low magnetic gradient.

The values taken from the corrected profiles were combined to form a contour map.

DISCUSSION OF GEOPHYSICAL RESULTS

Electromagnetic Survey - No anomalous readings were indicated by the electromagnetic survey indicating that no large massive sulphide deposits can be expected near the traverse lines. The

are spaced $\frac{1}{4}$ mile apart, so sulphide deposits up to 700 feet long or larger might occur between the traverse lines.

Magnetic Survey - The contoured map shows the values in gammas of the total magnetic field relative to an arbitrary base level. The average base level for the area flown is about 2400 gammas.

The anomaly near the eastern end of the eastern claim block is believed to be the end effect from an iron formation band to the east of the claims. The anomaly near the western end of the central block is believed to be the expression of an iron formation band. The linear anomaly on the northern claims of the western block is believed to be the expression of a basic volcanic horizon or a sill-like basic intrusive.

DATA FOR ASSESSMENT WORK

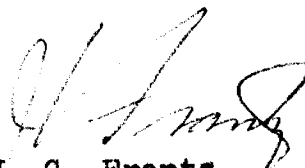
The area was flown in July and August 1956 by Aeromagnetic Surveys Limited, Toronto.

Approximately 600 square miles were surveyed along lines $\frac{1}{4}$ mile apart. Thirteen miles of traverse line were flown over the Clement claims and continuous recording made of magnetic and electromagnetic results.

13X20 = 260 days for assessment work from magnetics
130 days for assessment work from electromagnetic
TOTAL 390 days to be applied equally over 49 claims or

7.9 days per claim.

Respectfully submitted,



J. C. Frantz

GEOPHYSICAL ENGINEERING & SURVEYS LTD.

May 27, 1957

AEROMAGNETIC SURVEY
T. CLEMENT
 OF
 CUNNINGHAM and GREENLAW TOWNSHIPS, ONT.
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SCALE: 1 inch = 1320 feet

