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GEOPHYSICAL REPORT
ON
PROPERTY OF
NORTH BORDULAC MINES LIMITED

JAMIESON TOWNSHIP
PORCUPINE MINING DIVISION
PROVINCE OF ONTARIO

Introduction

An electromagnetic survey was carried out on an established grid system on claims 61636, 61637, 61642, 61643, 61648, 61649, 61652, and 61653, in Jamieson Township.

The property is, in general, cut in half by an existing power line which traverses the property. Because of the presence of this power line, geophysical work could not be carried out in its vicinity.

Geophysical Survey

North Bordulac Mines Limited established a baseline in a general E-W direction through claims 61649 and 61648. From this baseline grid lines were cut at 200 foot intervals in a N-S direction. The entire area with the exception of that ground in the vicinity of the power line was covered by a vertical loop electromagnetic survey

employing a single frequency unit. Detailed check work was carried out where required on any conductive areas indicated by the coverage survey.

Results of Survey

A single conductive area of weak intensity was in evidence from the reconnaissance and detailed survey work. The conductor would appear to be some 1,000 feet in length and is in general located on claim 61653. The conductor is of very weak intensity with no appreciable dip either north or south being indicated. It would appear that this conductor would be caused by a shear or some ground effect, and although the possibility exists that sulphide under some considerable depth of overburden may be the cause, it is felt that this is unlikely.

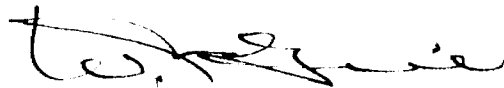
No magnetic information is available to the writer in the area of the conductor or on the claim group generally. Magnetic work would have been of assistance in the further interpretation of this zone.

Conclusions & Recommendations

A single conductor of some 1,000 feet in length of weak intensity has been located on the property. Because

of the intense activity in the Timmins area at the present time and the lack of any concrete evidence giving rise to support the conclusion that this conductor is in all probability caused by some surface effect or a shear zone, it is suggested that the conductor be tested by one bore hole to definitely establish the reason for the phenomena. A suggested location for this bore hole would be on line 40, approximately 138, and drilling grid south at an angle of 45°.

Respectfully submitted,
SULMAC EXPLORATION SERVICES LIMITED

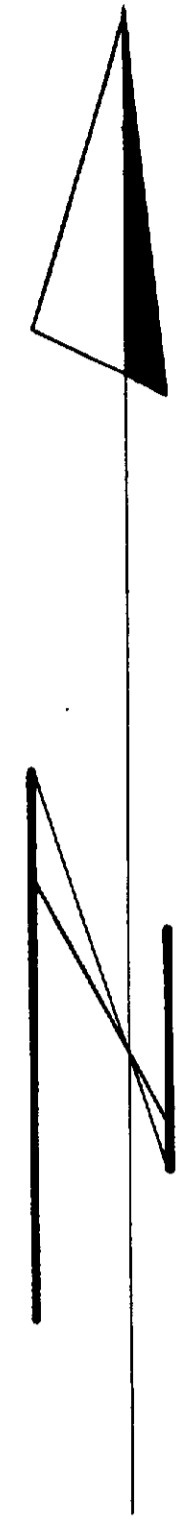
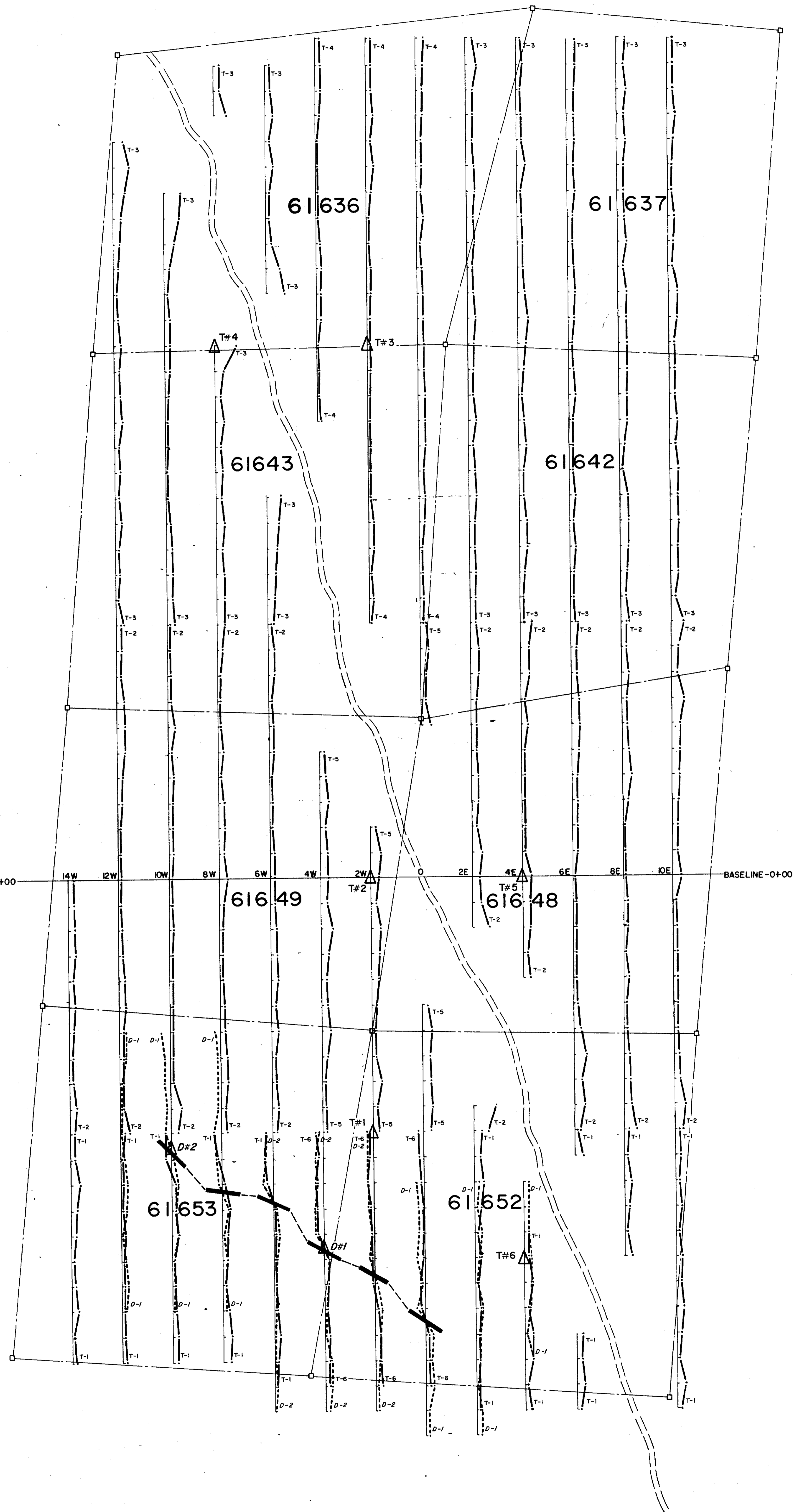


W. P. McGill, M.A., P.Eng.



July 16, 1964

32N
30N
28N
26N
24N
22N
20N
18N
16N
14N
12N
10N
8N
6N
4N
2N
BASELINE-0+00
2S
4S
6S
8S
10S
12S
14S
16S
18S
20S
22S



LEGEND

E.M. SURVEY-RECONNAISSANCE

E.M. SURVEY-DETAIL

- Profile of Electromagnetic Readings (a).
I^a = 20° of Dip Angle.
- Electromagnetic Transmitter Location.
- Transmitter Location Reference.
- Conductor Axis.
- Claim Post and Claim Boundary.
- Road with Powerline.

63-1401

NORTH BORDULAC MINES LIMITED

JAMIESON TOWNSHIP, ONTARIO

ELECTROMAGNETIC SURVEY

SULMAC EXPLORATION SERVICES LIMITED

SCALE: 1"=200'

JULY, 1964

