

63.1595

42A12NE0647 63.1595 LOVELAND

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INTRODUCTION

During the period from January 22, 1965 to February 10, 1965 a Crone method electromagnetic survey was conducted by Hespil Lines Limited of 1705 Victory Building, 80 Richmond Street, West, Toronto, on one of their groups of claims in Loveland and Myers Townships.

Thirty-eight miles of line were cut and 2317 stations were read using a Crone type dual frequency G.T.

LOCATION OF CLAIMS

The claims are located on the Myers-Loveland boundary and are numbered as follows: 1. 53242-45 incl., 1. 53247-~~53251~~,^{-48, P.53252, P.53254, P.53256-57,}

- 1. 53272-74 incl., 1. 53571, 1. 53581-89 incl., 1. 53729-30 incl.,
- 1. 53734-34 incl., 1. 53910-24 incl., 1. 53938-45 incl., 1. 54569,
- 1. 54579-81 incl., 1. 54631-35 incl., 1. 54659, 1. 54825-29 incl.,

ACCESS

Basic access is by aircraft to Loveland lake. From here the rest of the property may be reached by walking the system of base lines and crosslines of the grid.

PREVIOUS WORK

Since the discovery of the nickel ore float on the ground now covered by claim 1. 53734, some years ago, considerable exploration work has been done on these claims.

Texas Gulf Sulphur after an airborne survey drilled two holes on what is now claim 1. 53250. Sulphides were cut but no values were obtained.

Nespi Mines Limited under the supervision of Mr. L.H. Lytle in the summer of 1963 carried out geological and geophysical (Magnetometer and G.P.) surveys over most of the present group.

The area has been covered by numerous airborne geophysical surveys also.

GEOLOGY

The area is underlain by early Keewatin rhyolites, andesites, tuffs and fragmentals which have been intruded by later basic Haileyburian gabbros and serpentines. After a second intrusion by Algoman granites, gneisses and porphyries, a series of Matachewan quartz-diorite dikes of general north south strike were intruded at random into all previous sequences.

Two narrow outcrops of iron formation occur in the south western portion of claim No. 53683.

ELECTROMAGNETIC SURVEY

A Crone dual frequency unit was used for the electromagnetic survey. The work was carried out using an in-line method, a coil separation of 300 feet and readings taken at 100 foot intervals. The dip angles shown on the plan are the resultant angles.

Only one new conductive response that may be caused by sulphide mineralization was detected. This was on claim No. 53654 on lines 34 N, 36 N and 38 N.

There were other slight variations in background "noise level" due to changes in overburden conductivity.

CONCLUSIONS AND RECOMMENDATIONS

As the anomaly on claim P. 53254 may represent the source of the nickel float to the south, it is recommended that a drill hole be put down at 18+50 E on line 36 N to test it.

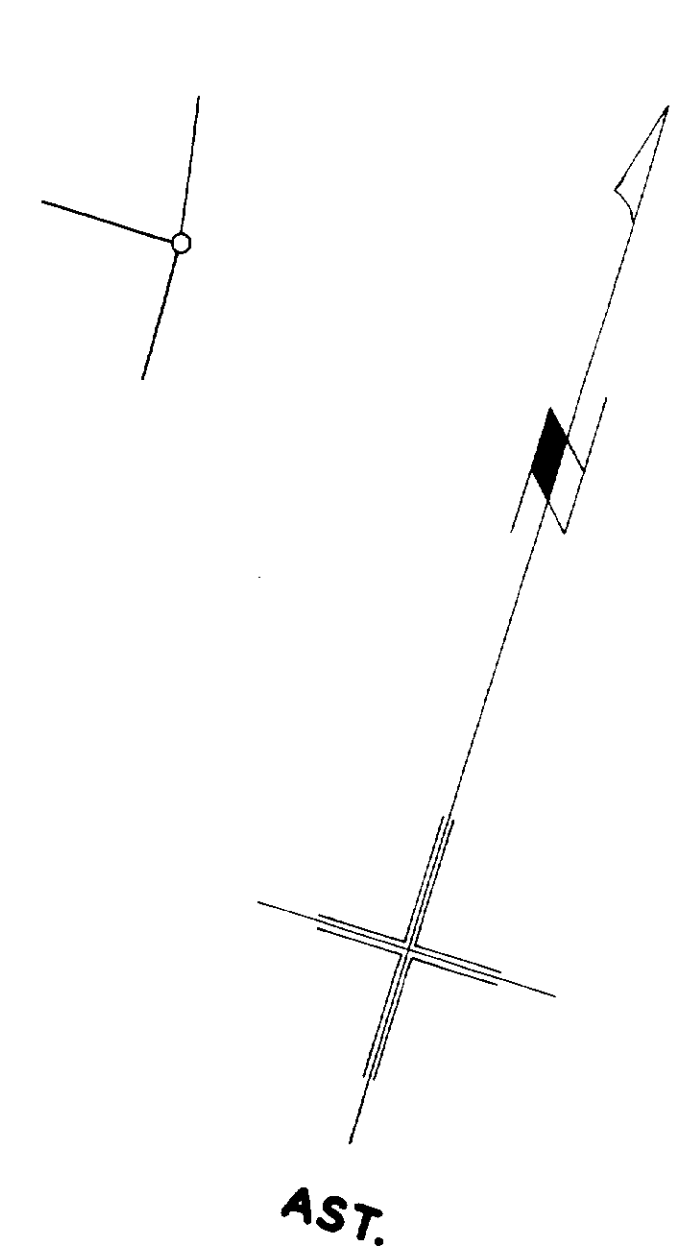
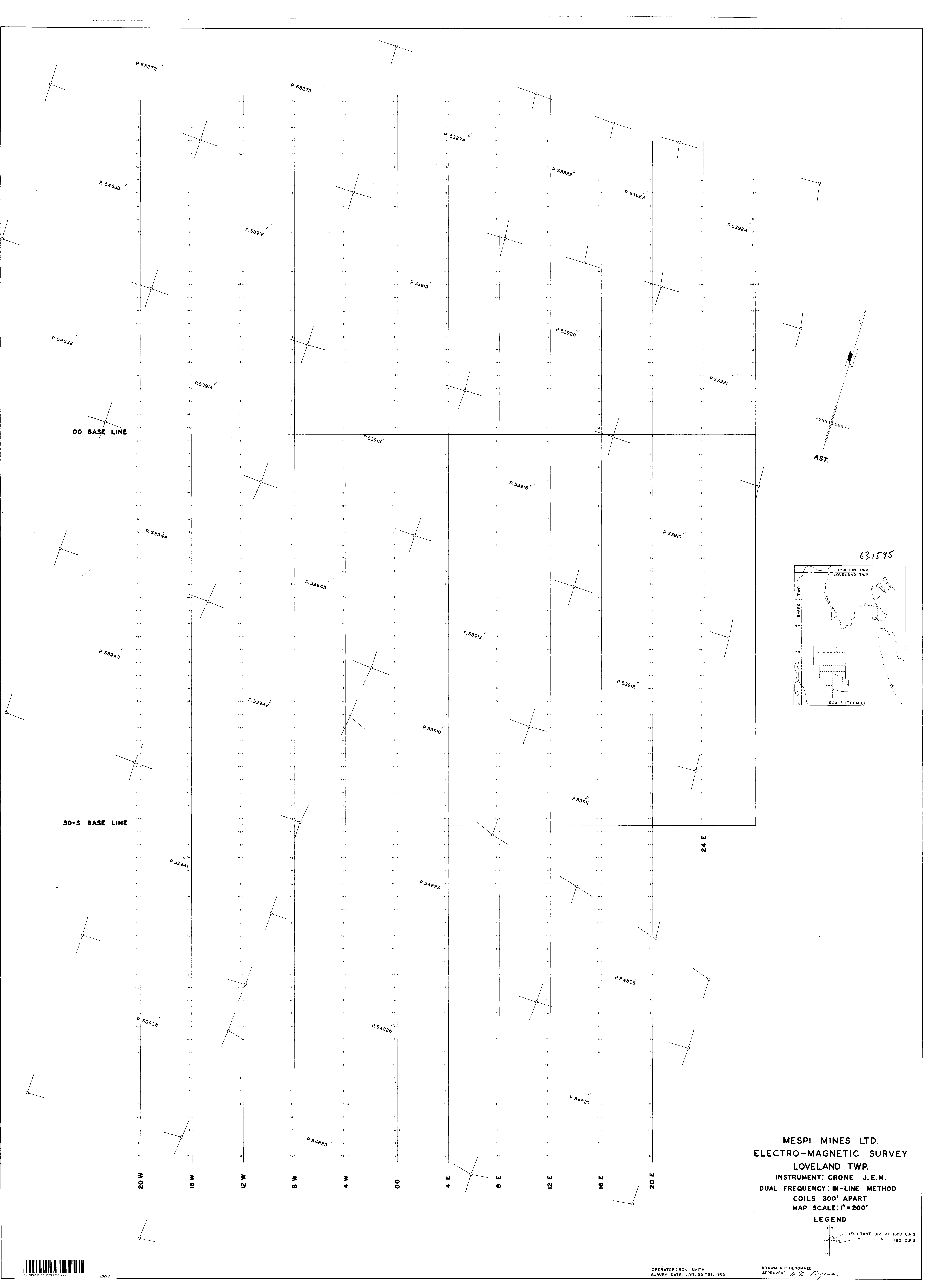
Consideration should also be given to doing an induced polarization survey in the immediate vicinity and to the north of the nickel float as portions of the float are not conductive but would respond well to induced polarization techniques.

Respectfully submitted

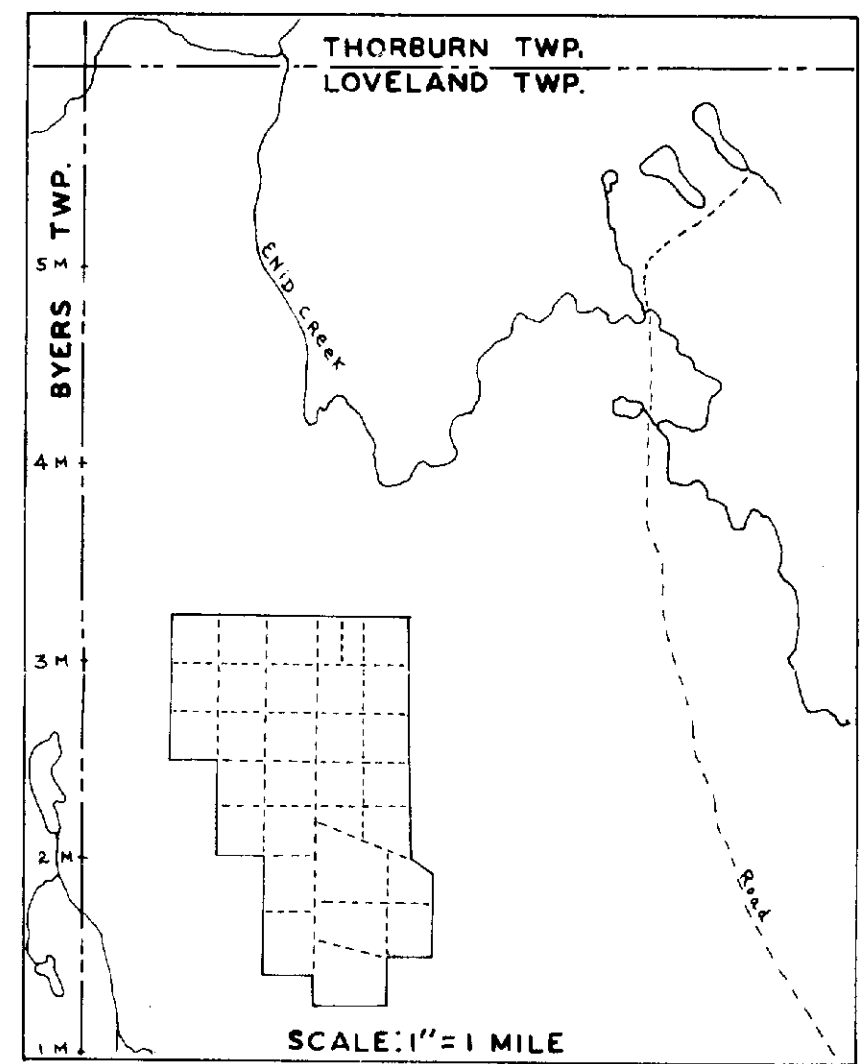


W.E. Nyman

WEN/jf



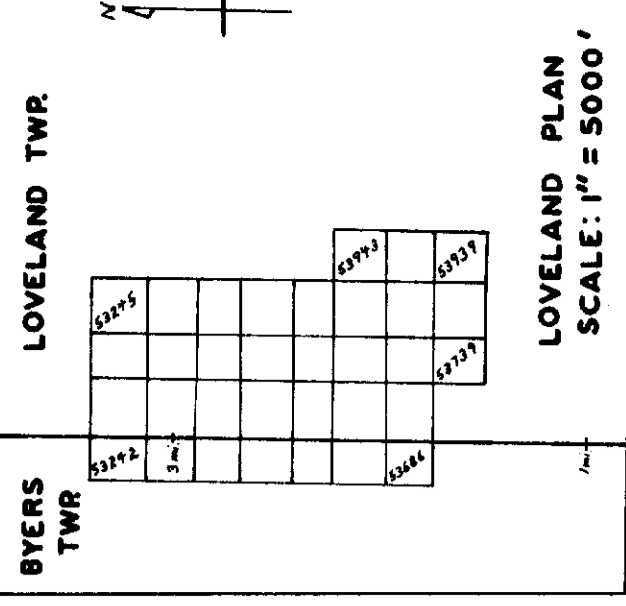
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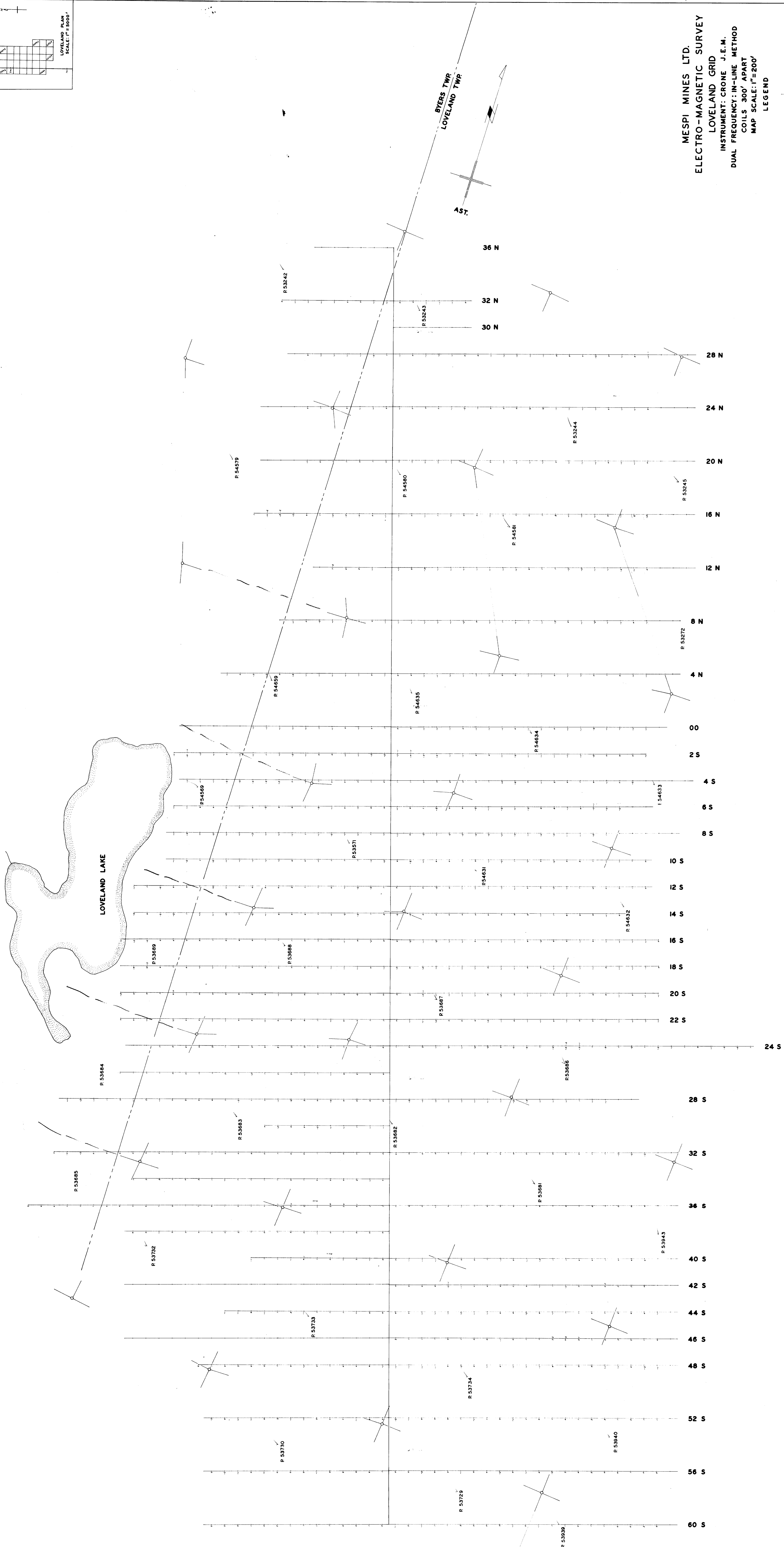
MESPI MINES LTD.
 ELECTRO-MAGNETIC SURVEY
 LOVELAND TWP.
 INSTRUMENT: CRONE J.E.M.
 DUAL FREQUENCY: IN-LINE METHOD
 COILS 300' APART
 MAP SCALE: 1" = 200'

LEGEND
 RESULTANT DIP AT 1800 C.P.S.
 " " " 480 C.P.S.



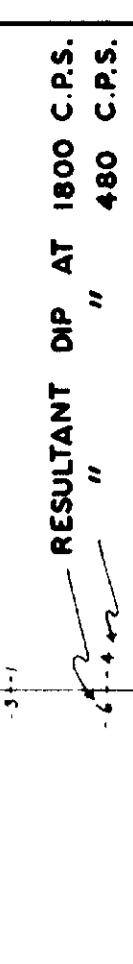


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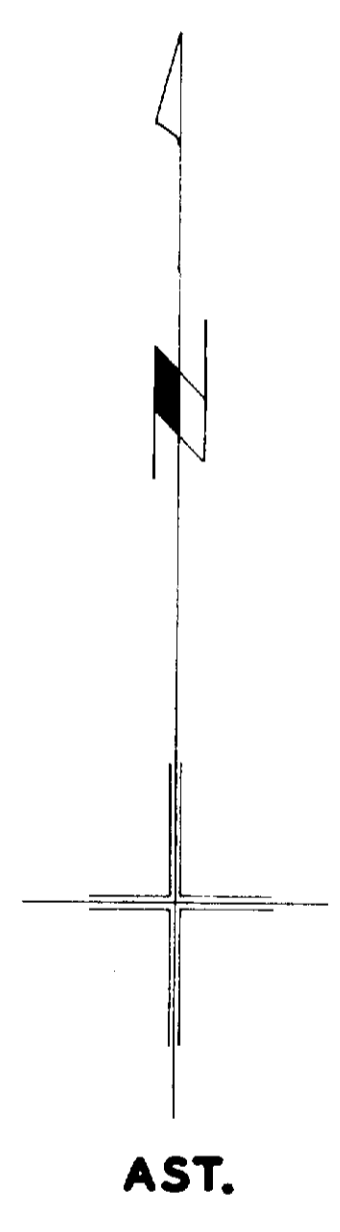
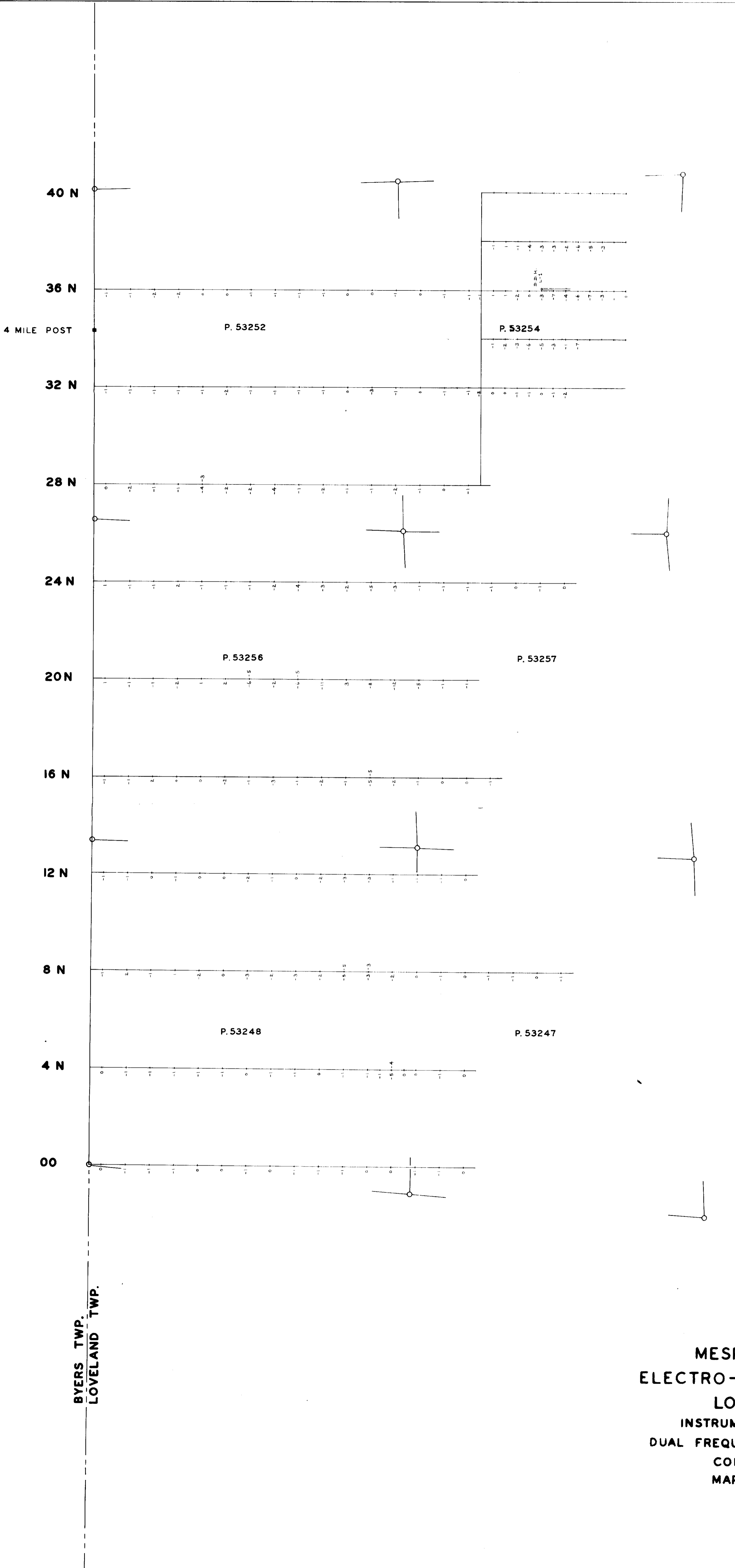
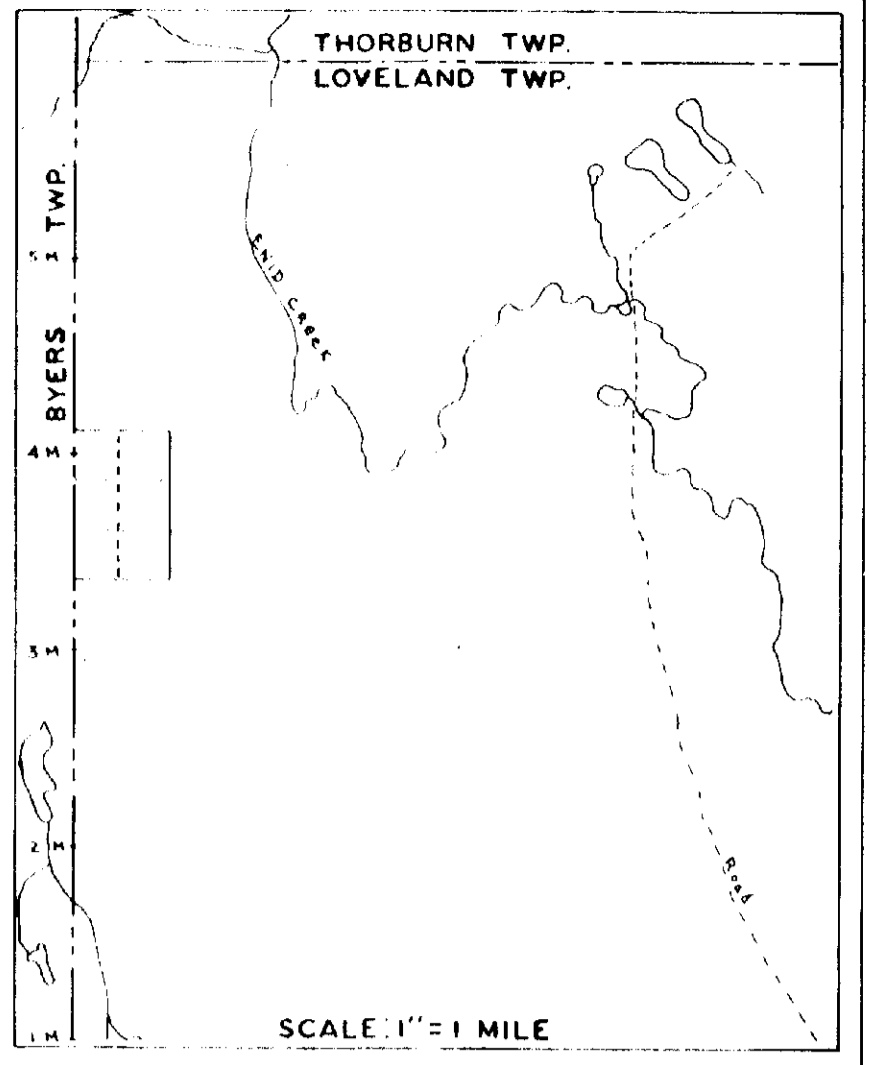


MESPI MINES LTD.
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APPROVED: [Signature]
 DRAWN BY: W. CAUGHILL
 SURVEY DATE: FEB. 1 TO FEB. 8, 1985



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RESULTANT DIP AT 1800 C.P.S.
 " " " 480 C.P.S.



DR: RON SMITH
 DATE: FEB. 9 & 10, 1965

DRAWN BY: R.C. DENOMMEE
 APPROVED BY: *R.C. Denomme*