



42A12NE0250 63.1729 REID

63.1729

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INTRODUCTION

During the period from October 14, 1964 to June 1, 1965, a Crone method dual frequency electromagnetic survey was conducted by Mespi Mines Limited of 1705 - 80 Richmond Street, West, Toronto, Ontario on one of their claim groups in Loveland, McDiarmid, Reid and Thorburn townships.

LOCATION OF CLAIMS

One hundred and twenty-two claims located close to and along the common boundaries of Loveland, Thorburn, Reid and McDiarmid townships, Porcupine Mining Division, Ontario, are numbered as follows:

Loveland Township

- P. 54552,53,54,55,56,57,58,59,60,61,62,63,64,65,
- P. 54566,67,68. P. 54570,71,72,73,74,75,76,77,78. P. 54588,
- P. 54589,90,91,92,93,94,95,96, P. 54601,02,03,04. P. 54624,
- P. 54625,26,27. P. 54642,43,44,45,46,47,48,49,50,51,52.
- P. 54657,58. P. 59182,83,84,85,86. P. 60209. P. 60384,
- P. 60385,86,87,88,89,90,91,92,93,94,95,96,97,98,99.
- P. 60400,01.

McDiarmid Township

- P. 54628.

Reid Township

- P. 54629,30.

Thorburn Township

- P. 54597,98,99. P. 54600. P. 54653,54,55,56.
- P. 59001,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,
- P. 59018. P. 59169,70,71,72,73,74,75,76,77,78,79,80,81.

The property lies twenty miles north west of Timmins, Ontario and approximately 8 miles north of the Kamkotia Mines Limited property.

#### ACCESS

Access to the claim group is by way of the company's Robb-Loveland access road, which turns off of highway 576 just north of Kamiscotia Lake. This is followed to its northern terminus at Footprint Lakes in northern Loveland township. A semi permanent camp was established on the property at the road's end to work the group.

#### PREVIOUS WORK

The complete area has been covered by two combined magnetic-electromagnetic airborne surveys.

Aeromagnetic Surveys flew the ground in a N - S direction with  $\frac{1}{4}$  mile flight line spacing in 1957 for Mr. B.W. Lang of Toronto.

Hunting Survey Corporation in May 1964, covered the area with  $\frac{1}{8}$  mile flight line spacing for Mespi Mines Limited in a NE - SW direction.

#### INSTRUMENTS USED AND METHOD OF SURVEY

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

on the plan are the resultant angles. There were 135 miles of line cut and 6651 stations were read with the E.M. unit.

#### ELECTROMAGNETIC RESULTS

As a good portion of the area covered is underlain by highly conductive overburden the high frequency dip angles present a quite complicated pattern. Because low frequency readings were not taken over all of the anomalous high frequency readings the areas of overburden anomalies are difficult to assess.

Bedrock conductors of undertermined quality are interpreted on the following claims:

On claims P. 54658 and P. 54624 from line 12S-8N.

On claims P. 54652 and P. 54653 from line 8N to 24N.

On claims P. 54596 and P. 54597 from Line 20N to 28N.

On claims P. 54593 and P. 54594 from line 12S to 20S.

#### CONCLUSIONS AND RECOMMENDATIONS

A number of bedrock conductors of undetermined quality were detected on east-west grid lines beneath conductive overburden.

To better assess the quality of these conductors further work is required, it is recommended that the following work be done.

1) The conductor axes be traced out using a vertical loop system.

2) Detail grids with 200' centres be laid out perpendicular to the strike of any conductor axes thus obtained.

3) Further detailed electromagnetic and magnetic surveys be done over these grids. A dual frequency vertical loop system would be best in this case.

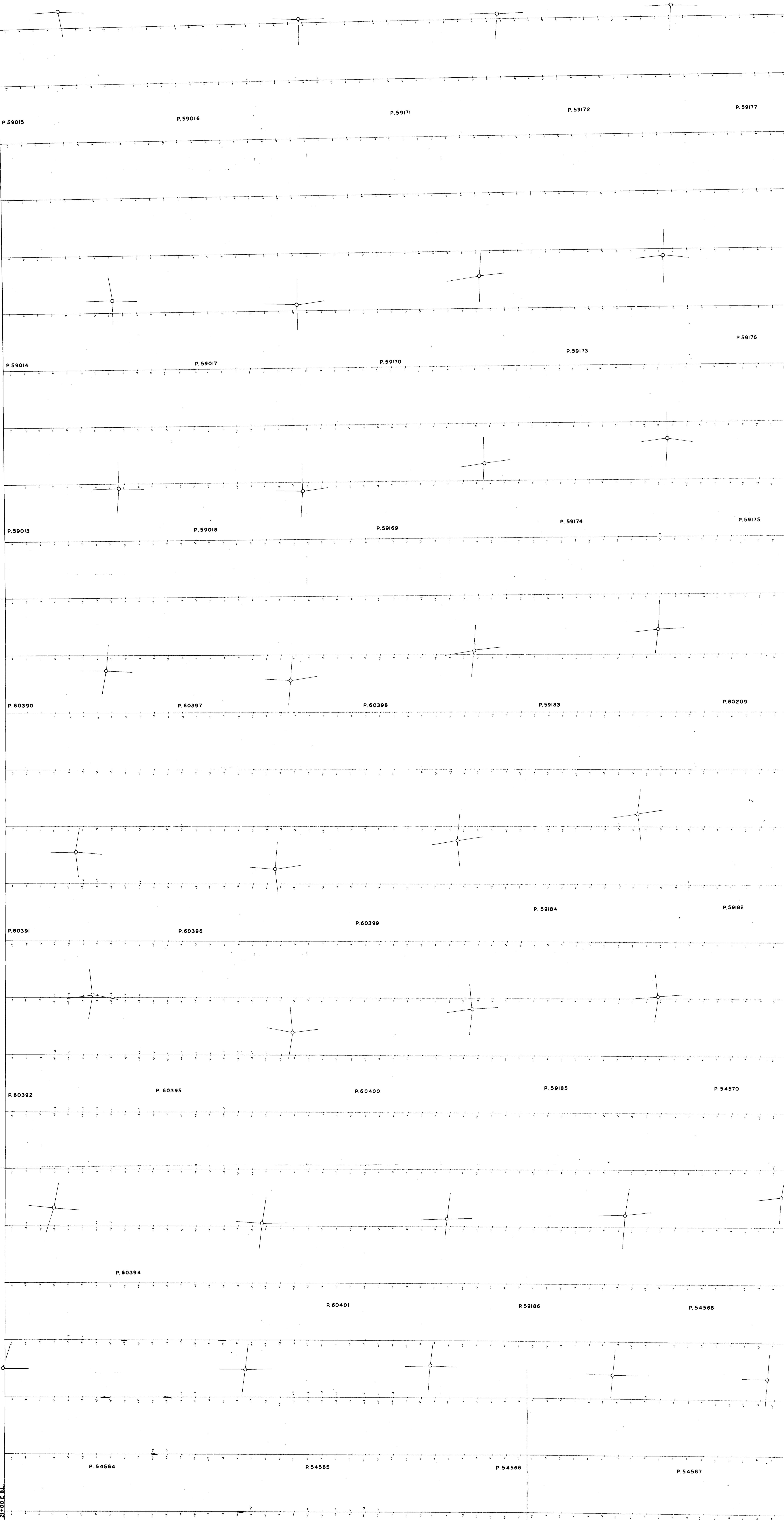
Respectfully submitted,

MESPI MINES LIMITED

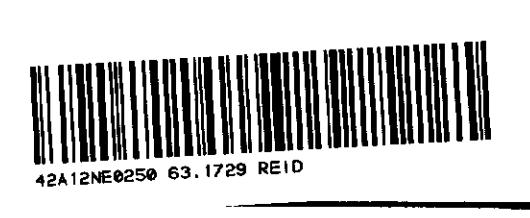


W.E. Nyman  
Exploration Manager

WEN/jf



21+00 E. BL.



80-E BASE LINE

THORBURN TWP.  
REID TWP.

64 N

60 N

56 N

52 N

P. 59178

P. 59179

P. 59180

P. 59181

P. 54598

P. 54599

P. 54654

P. 54655

P. 54597

P. 54600

P. 54653

P. 54656

THORBURN  
LOVELAND

REID  
MACDIAR

P. 54596

P. 54601

P. 54652

P. 54657

8 N

4 N

P. 54595

P. 54602

P. 54651

P. 54658

00 BASE LINE

00

4 S

8 S

P. 54594

P. 54603

P. 54650

P. 54624

12 S

16 S

20 S

24 S

P. 54593

P. 54604

P. 54649

P. 54625

28 S

32 S

36 S



40 S

44 S

48 S

52 S

56 S

60 S

64 S

68 S

72 S

76 S

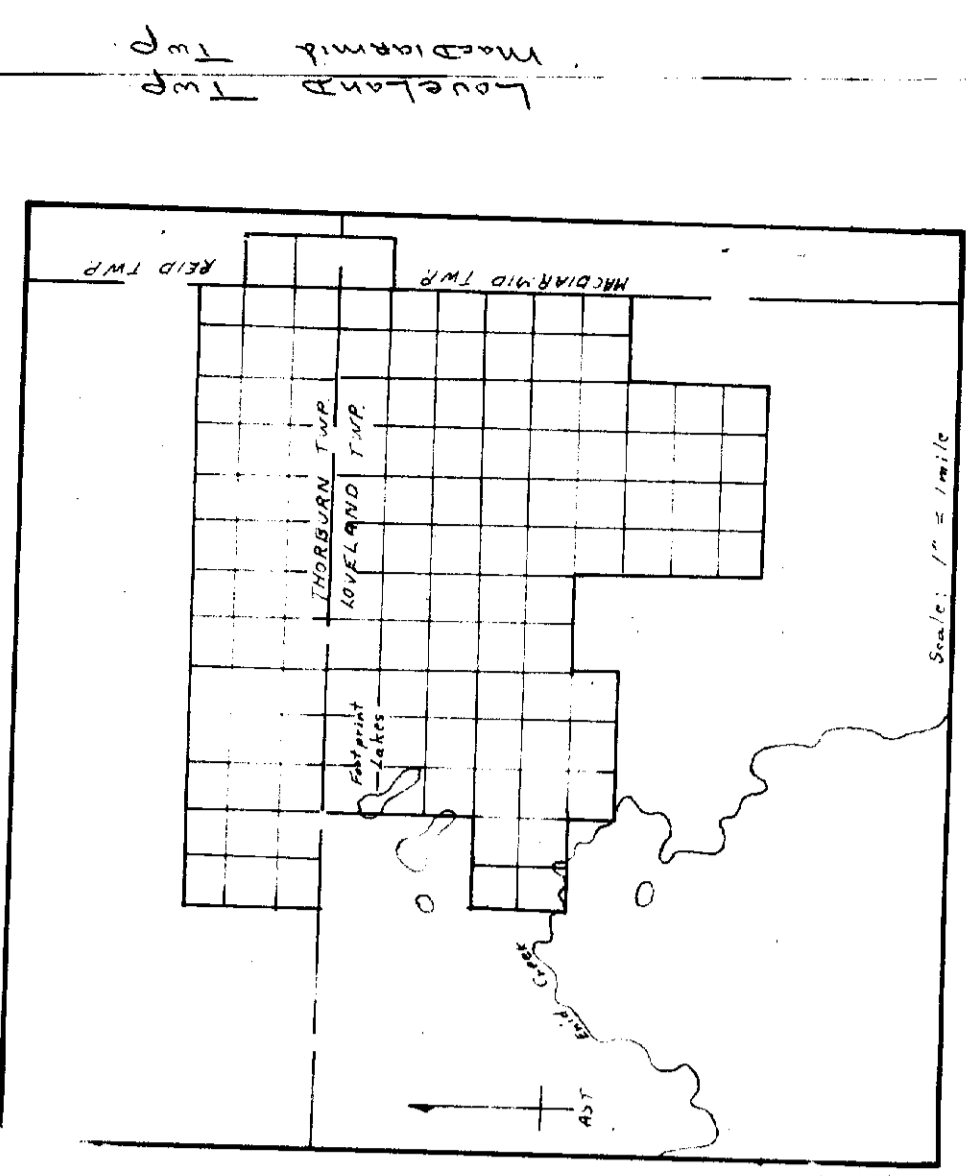
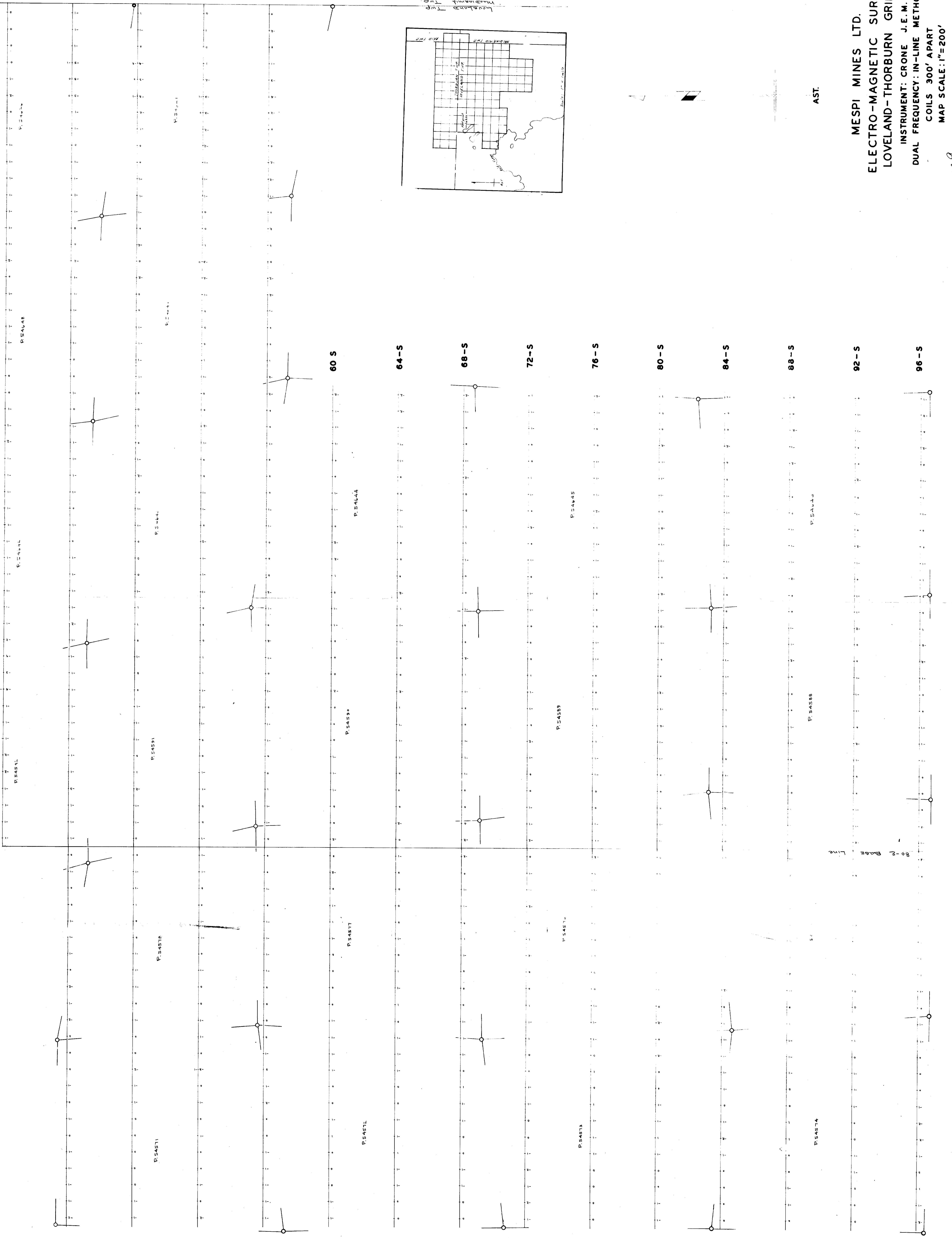
80 S

84 S

88 S

92 S

96 S



AST.

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

65.1729

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

APPROVED: *[Signature]*  
 SURVEY DATE: FEB. 24 TO JUNE 1, 1965



P. 59003

P. 59004

P. 59009

P. 59010

P. 59015

P. 59002

P. 59005

P. 59008

P. 59011

P. 59014

P. 59001

P. 59006

P. 59007

P. 59012

P. 59013

THORBURN TWP  
LOVELAND TWP

P. 60384

P. 603

P. 60385

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P. 60386

P. 60

P. 54553

P. 54554

P. 54556

P. 54

P. 54552

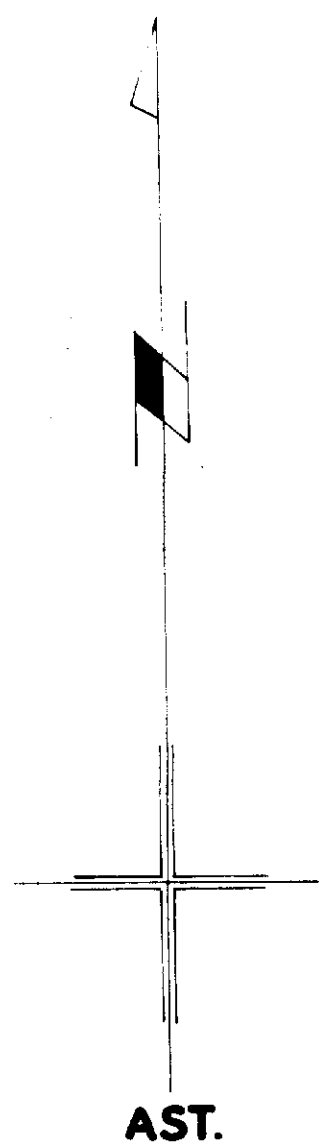
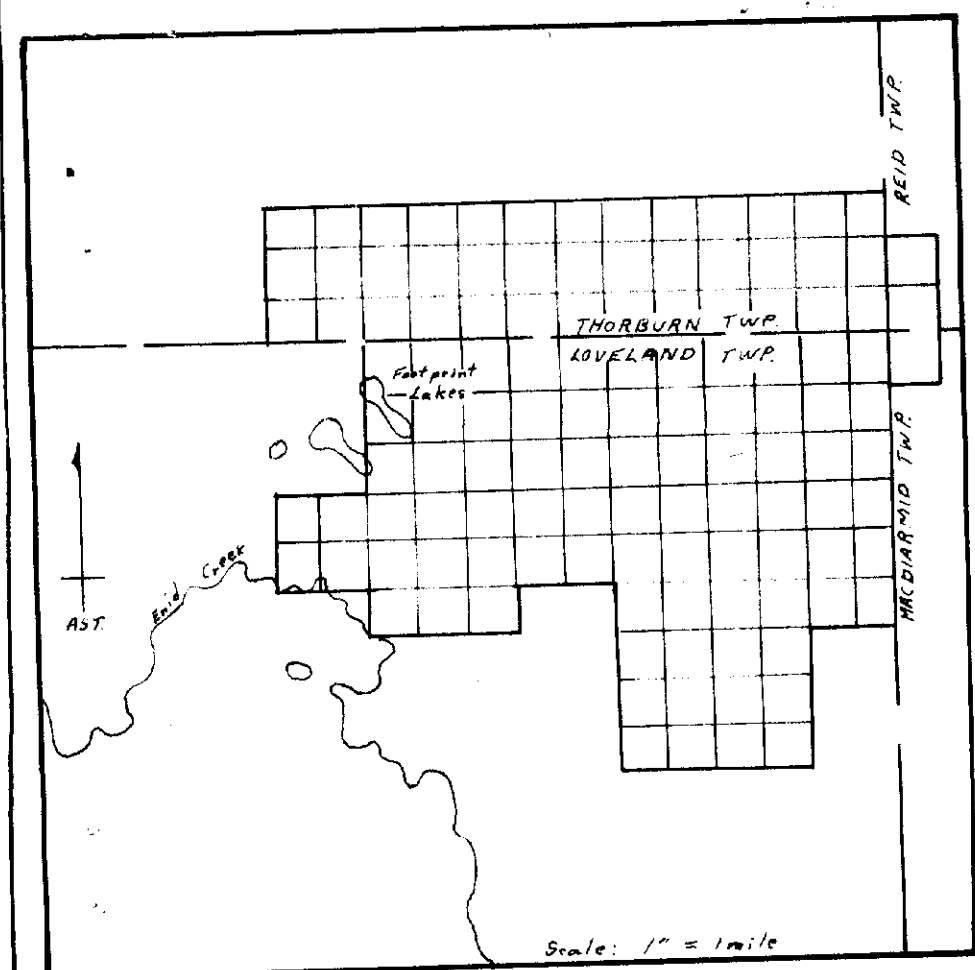
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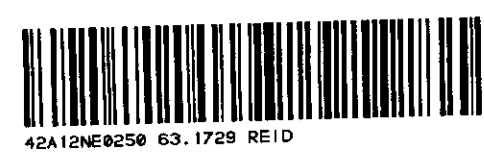


MESPI MINES LTD.  
ELECTRO-MAGNETIC SURVEY  
LOVELAND-THORBURN GRID  
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MAP SCALE: 1"=200'  
LEGEND

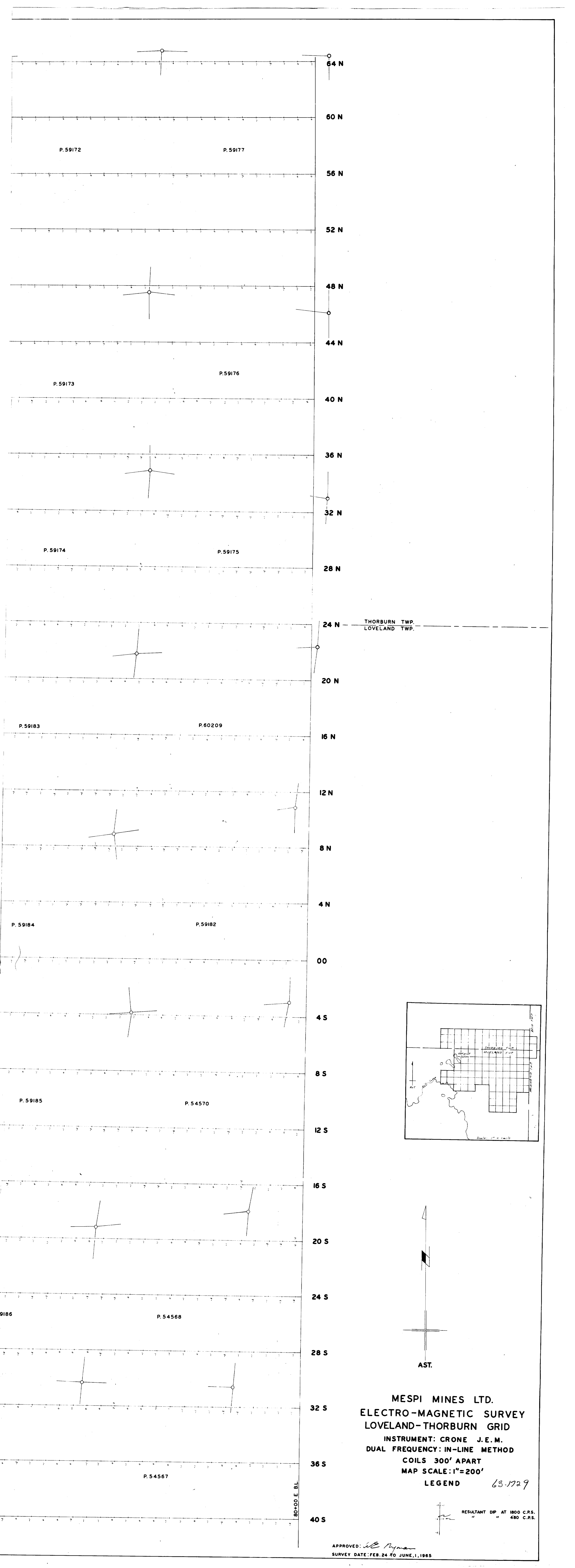
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RESULTANT DIP AT 1800 C.R.S.  
" 480 C.R.S.

APPROVED: *W.E. Payne*  
SURVEY DATE: FEB. 24 TO JUNE 1, 1965







P.59172

P.59177

P.59173

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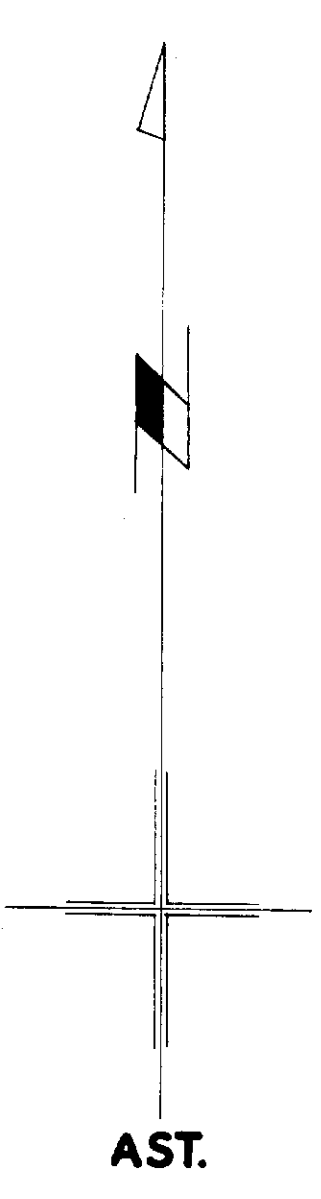
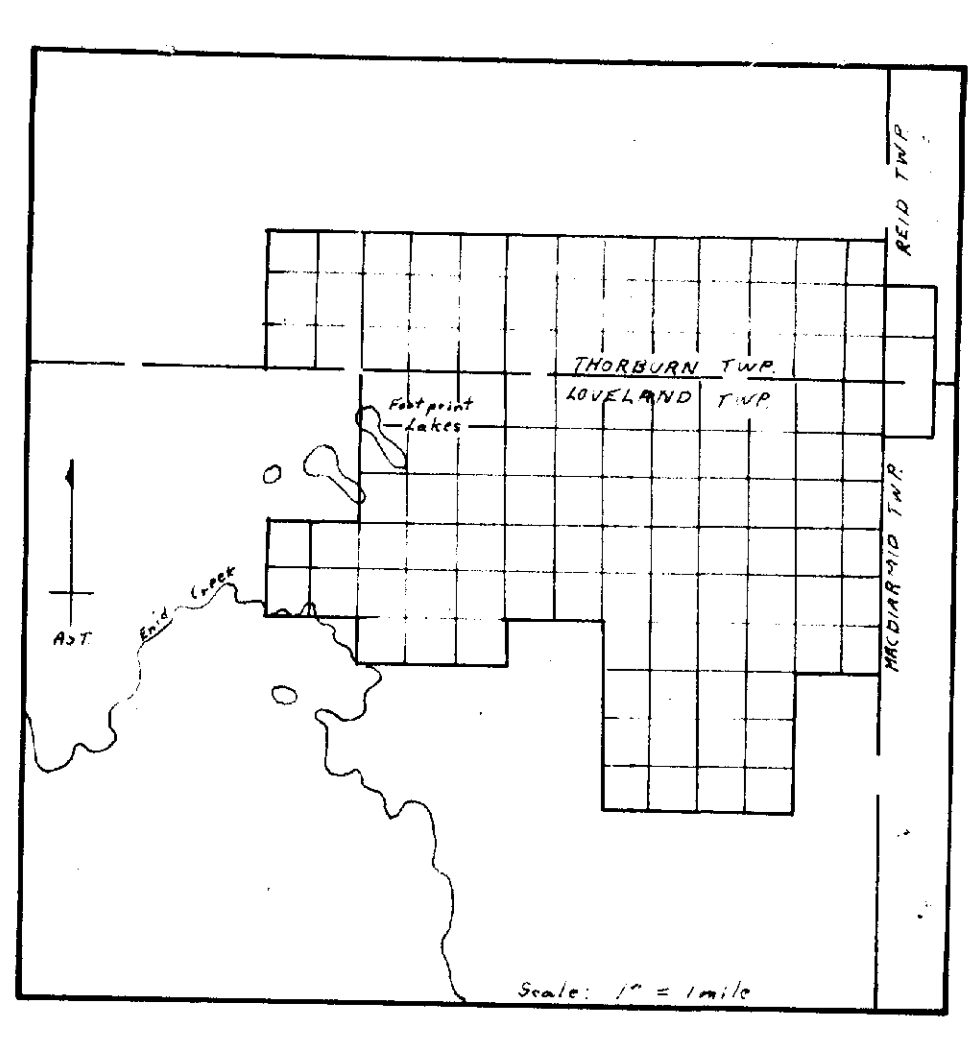
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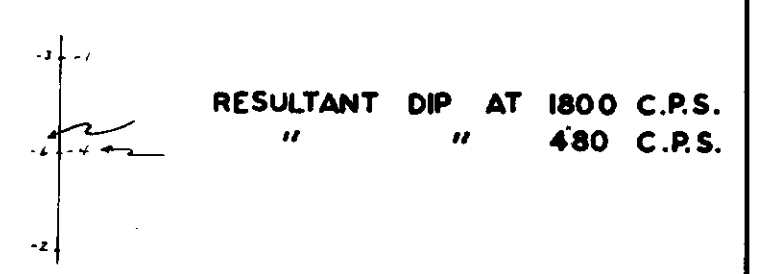
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THORBURN TWP.  
LOVELAND TWP.



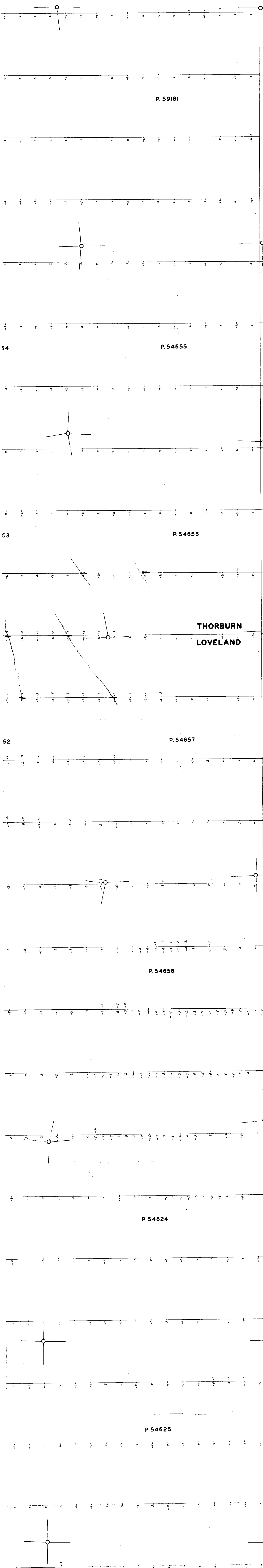
MESPI MINES LTD.  
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LOVELAND-THORBURN GRID  
INSTRUMENT: CRONE J.E.M.  
DUAL FREQUENCY: IN-LINE METHOD  
COILS 300' APART  
MAP SCALE: 1"=200'  
LEGEND

63-1729



APPROVED: *J.E. Ryan*  
SURVEY DATE: FEB. 24 TO JUNE, 1, 1965

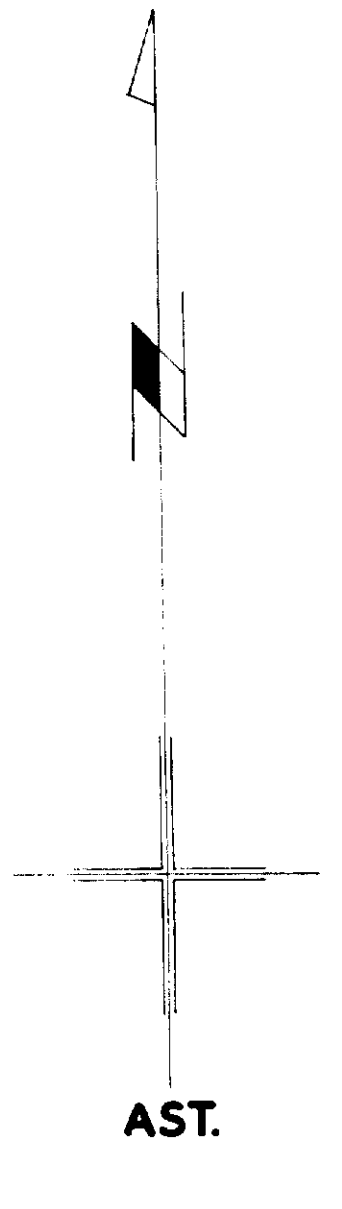
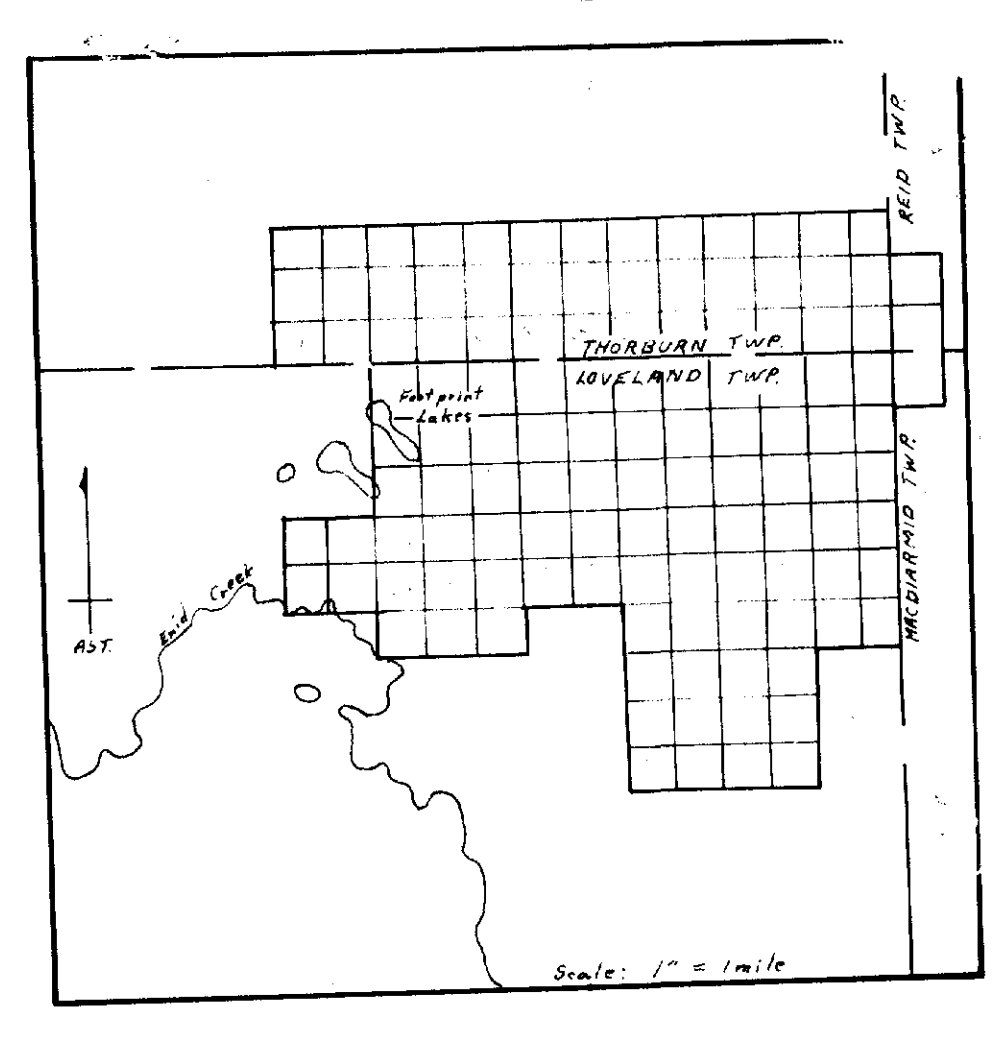
THORBURN TWP.  
REID TWP.



64 N  
60 N  
56 N  
52 N  
48 N  
44 N  
40 N  
36 N  
32 N  
28 N  
24 N  
20 N  
16 N  
12 N  
8 N  
4 N  
00  
4 S  
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32 S  
36 S

THORBURN  
LOVELAND

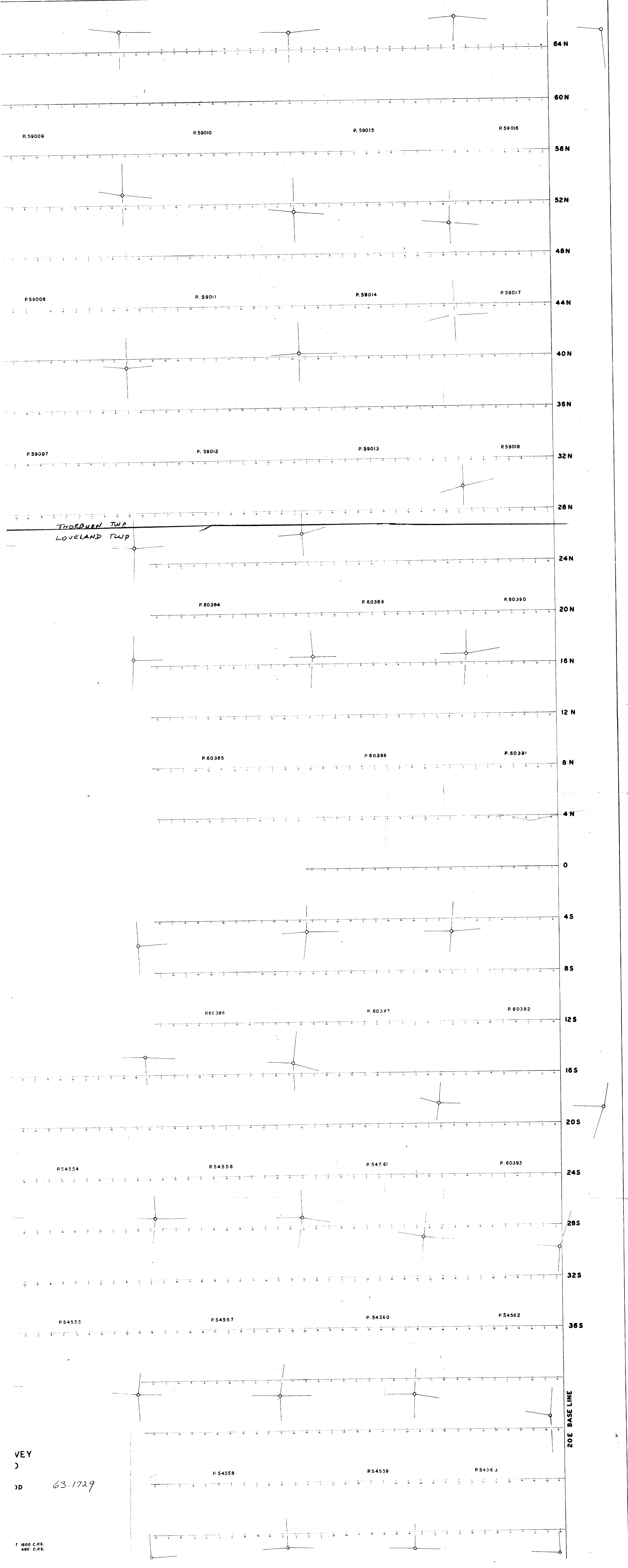
REID  
MACDIARMID



MESPI MINES LTD.  
ELECTRO-MAGNETIC SURVEY  
LOVELAND-THORBURN GRID  
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RESULTANT DIP AT 1800 C.P.S.  
" " 480 C.P.S.

63.1729



THORPURN TWP  
LOVELAND TWP

20E BASE LINE

VEY  
D  
D 63.1729