

63-1976

SCOPE



42A13SE0095 63.1976 REID

010

REPORT
ON
GEOPHYSICAL SURVEYS
ON THE
REID-MAHAFFY OPTIONS
REID & MAHAFFY TOWNSHIPS
TIMMINS AREA
PORCUPINE MINE DIVISION
ONTARIO
FOR
CHANCE MINES LIMITED

I INTRODUCTION

A magnetic survey was carried out over a group of twenty-four (24) unpatented mining claims in the western portion of Reid and Mahaffy Townships. These results were made available to Scope Mining & Exploration Consultants Limited in order to aid in an interpretation of a

vertical-loop dip angle electromagnetic survey they had completed over the same group of claims. The overburden is very heavy and likely in excess of 100 feet. Little is known of the bedrock geology.

II PROPERTY LOCATION AND ACCESS

The property is comprised of twenty-four (24) unpatented mining claims as follows:

P-58566 to P-58589 inclusive (24 claims)

The claims are located in a strip two claims wide and twelve claims long in a north-south direction approximately paralleling Thorburn Creek in Reid and Mahaffy Townships.

Access to the property was gained from Timmins. This access route is north from Timmins fifteen miles along a road on the east side of the Mattagami River, across the river by boat, and then 3-1/2 miles westward along the Reid-Mahaffy boundary to the property.

III GEOPHYSICAL SURVEYS

The area is heavily covered with glacial clay likely to depths in excess of 100 feet. Magnetic and vertical-loop electromagnetic surveys were carried out over

the property on grid lines spaced at 400 foot intervals running in an east-west direction (with the exception of one detailed area).

Magnetic Survey

The magnetic survey was carried out by the field staff of Chance Mines Limited and presented on maps prepared by Scope Mining & Exploration Consultants Limited on the same scale as the electromagnetic survey. The station interval was extended to 200 feet because of the very heavy overburden. An Askanla torsion-wire magnetometer was employed with a scale constant of 220 gammas per degree and a readability of 5 gammas.

The results of this survey are presented in profile form plotted from a base on the traverse line with a positive direction to the north.

Electromagnetic Survey

The electromagnetic survey was carried out employing a ^{McPHAR DUAL FREQUENCY} vertical-loop dip angle survey technique. The transmitter was in a fixed location as indicated by the triangle and the traverses run with the receiver along adjacent lines recording the dip angles. These results are

for two frequencies, 1000 CPS and 5000 CPS, and are plotted in solid and broken profile lines. The conductor axes are marked according to the legend and the zones are labelled alphabetically.

Discussion of Geophysical Results

Sheet 3:

There is one prominent magnetic feature that continues on from Line 10 S through to Line 52 + 90 N and beyond to Line 16 N (north grid). From the magnitude of the readings, this magnetic feature is considered to be a large basic or ultrabasic intrusive of considerable aerial extent. The southern part of Thorburn Creek is considered to lie along the extension of the Mattagami River fault.

Zones Q and R

These two electromagnetic zones represent a poorly conductive feature on the east flank of the magnetic high. They could arise from shearing associated with the Mattagami River fault or local conductors developed by shearing within the ultrabasic body (interpreted from the magnetics). Neither of

these zones warrant diamond drilling on their own merit but geologic conditions may be such that it is desirable to test them. In this case an initial hole is recommended to cut the conductor at 13 + 00 W on Line 32 N (south grid). Any additional drilling of these zones should await the results of such a test.

Conductive Zone S

This roughly parallels Thorburn Creek as it swings westward towards the north end of the grid (south grid). It is an extremely poor conductor and occurs within the magnetic high. This very likely arises from shearing in the ultrabasic body (interpreted from the magnetics).

Sheet 4:

The only magnetic feature on this sheet is the large feature described under Sheet 3, and extending onto the lower portion of the north grid. The remainder of the north grid has unusually flat magnetic relief.

A detailed grid was placed with traverse lines in the north-south direction between Lines 8 N and 32 N because of the dip angles obtained in the

reconnaissance survey.

Zone T

Occurs striking east northeast close to the northern boundary of the ultrabasic intrusive (interpreted from the magnetics). This is an extremely poor, broad, multiple conductor zone. Sampling of this zone should only be on the basis of geology and after some of the stronger zones to the south have been tested.

Zone U and V

These two zones occur on the strike projection of those of the southern grid and strike approximately north-south. Of the two zones, Zone V is the more interesting since there is a suggestion of a conductor lying at a peculiar attitude. On the basis of geophysical results alone, it is not recommended that this zone be diamond drilled but if a drill hole is located in this general area to obtain geologic information, it is recommended that it be located on Line 48 N at 16 W and drilled in an easterly direction.

V CONCLUSIONS AND RECOMMENDATIONS

The magnetic survey located one large magnetic high that was interpreted as a large ultrabasic intrusive. Weak electromagnetic conductors paralleling the interpreted location of the Mattagami River fault suggests local shearing in the area striking approximately north-south. One conductor strikes east north-east across the north grid and suggests some local shearing around the contact of this interpreted ultrabasic.

It is recommended that diamond drilling be undertaken only on the basis of obtaining geologic information. None of the geophysical results are strong enough to warrant diamond drilling. If diamond drilling is undertaken, it would be useful to locate the hole so that it would intersect not only the interpreted ultrabasic intrusive but also Zone S which lies within its boundaries. A second hole might be located on Line 32 N to intersect Zone R which appears to lie near the contact and likely not far from the Mattagami River fault.



Respectfully submitted,

SCOPE MINING & EXPLORATION
CONSULTANTS LIMITED

A handwritten signature in cursive script that reads "Tom Gledhill".

T. R. Gledhill, P. Eng.,
Geophysicist

May 12, 1966

P	P
58582	58583
P	P
58584	58585
P	P
58586	58587
P	P
58588	58589
P	P
58581	58580
P	P
58579	58578
P	P
58577	58576
P	P
58575	58574
P	P
58573	58572
P	P
58571	58570
P	P
58569	58568
P	P
58567	58566

MAHAFFY OPTION

REID

MAHAFFY TWP

REID TWP

BRADSHAW OPTION

WEST GROUP

EAST GROUP

SHEET 2

SHEET 1

P	P
86787	86788
P	P
86786	86782
P	P
86785	86781
P	P
86784	86780
P	P
86783	86779
P	P
86778	86777
P	P
86776	86775

P	P	P	P	P	P	P	P
63613	63600	63599	63580	63598	63597	63596	63595
P	P	P	P	P	P	P	P
63594	63581	63593	63592	63591	63590	63589	63582
P	P	P	P	P	P	P	P
63588	63587	63586	63585	63584	63583	63582	63581
P	P	P	P	P	P	P	P
65828	65827	65824	65823	65820	65819	65828	65827
P	P	P	P	P	P	P	P
65829	65826	65825	65822	65821	65818	65829	65826



CLAIMS PLAN
 CONWEST EXPLORATION
 COMPANY LTD.

REID and MAHAFFY TWPS.
 PORCUPINE MINING DMSION.

Scale: 1" = 1/2 m.



Thorburn Cr.

Mattagami River

MAHAFFY TWP.

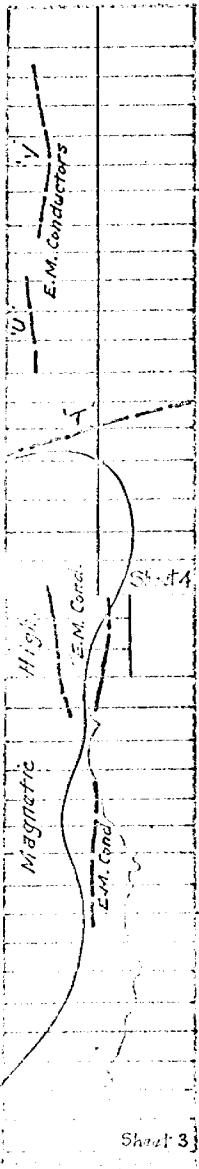
REID TWP.

REID - MAHAFFY

OPTION

North Grid

South Grid



Sheet 3



SUMMARY PLAN
CORPUS EXPLORATION
CORP. LTD.

REID and MAHAFFY TOWNS,
PORCUPINE MINING DIVISION.

Scale: 1" = 1/2 m.



*Reid Township
Bradshaw Option*

*CLAIMS ACTUALLY
COVERED*

MAHAFFY TWP

P	P
58582	58583
P	P
58584	58585
P	P
58586	58587
P	P
58588	58589
P	P
58591	58590
P	P
58579	58578
P	P
58577	58576
P	P
58575	58574
P	P
58573	58572
P	P
58571	58570
P	P
58569	58568
P	P
58567	58566

P	P	P	P
63613	63600	63599	63580
P	P	P	P
63598	63597	63596	63595
P	P	P	P
63593	63592	63591	63590
P	P	P	P
63588	63587	63586	63585
P	P	P	P
63583	63582	63581	63580
P	P	P	P
63578	63577	63576	63575
P	P	P	P
63573	63572	63571	63570
P	P	P	P
63568	63567	63566	63565
P	P	P	P
63563	63562	63561	63560

P	P
86787	86788
P	P
86786	86782
P	P
86785	86781
P	P
86784	86780
P	P
86783	86779
P	P
86778	86777
P	P
86776	86775

BRADSHAW OPTION

EAST GROUP

WEST GROUP

SHEET 2

SHEET 1

REID TWP

43 days/claim

CLAIMS PLAN
CONWEST EXPLORATION
COMPANY LTD.

REID and MAHAFFY TWPS.
PORCUPINE MINING DIVISION.

Scale: 1" = 1/2 m.

Thiburn Cr.

Mattogami River





ONTARIO
DEPARTMENT OF MINES



42A13SE0095 63.1976 REID

900

PROSPECTIVE MINING DIVISION

127 THIRD AVENUE
TIMMINS, ONTARIO

June 28th, 1966

Mr. R. V. Scott,
Director,
Mining Lands Branch,
Ontario Department of Mines,
Parliament Buildings,
Toronto 2, Ontario

Dear Sir:

Re: Mining Claims P-58566-89 incl.

An assessment work credit of 43.1 days, geophysical, was recorded on each of the above mining claims on June 24th.

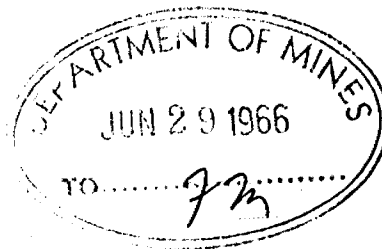
These claims are recorded in the name of Chance Mining and Exploration Company Limited, Suite 1001, 85 Richmond Street West, Toronto 1, Ontario.

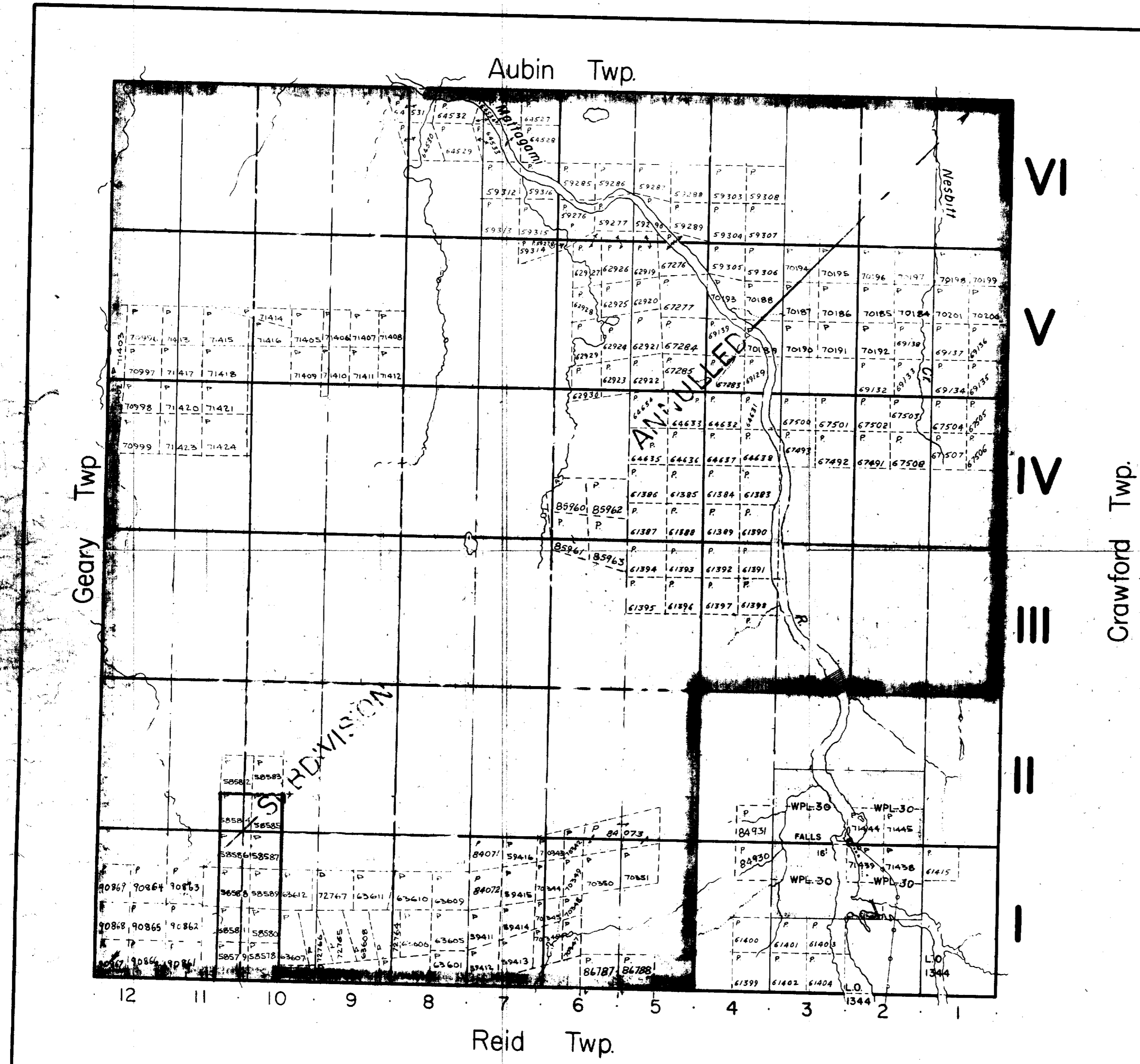
The reports and maps are forwarded direct to the Department.

Yours very truly,

R. J. Simick,
Acting Mining Recorder.

/jt





63.1976

THE TOWNSHIP
OF
MAHAFFY
DISTRICT OF
COCHRANE
PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	Ⓢ
LEASES	Ⓛ
LOCATED LAND	Ⓛ
LICENSE OF OCCUPATION	Loc.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAY	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	—

NOTES

WPL 92 H.E.P.C. of Ont. 7 Mar. 1945.

L.O. 981 H.E.P.C. of Ont. 7 Mar. 1945.

L.O. 1344 H.E.P.C. of Ont. 7 Mar. 1945
covers flooding in lots 1, 2 & 3 in con. 1

400' Surface Rights Reservation around
all Lakes and Rivers.

DATE OF ISSUE

NOV 17 1966

ONTARIO DEPT. OF MINES

ONT. DEPT. OF MINES
MINING LANDS BR.
THIS MAP FOR CHECKING
PURPOSES ONLY - MUST
NOT BE SOLD.

PLAN NO. - M-540

DEPARTMENT OF MINES
- ONTARIO -

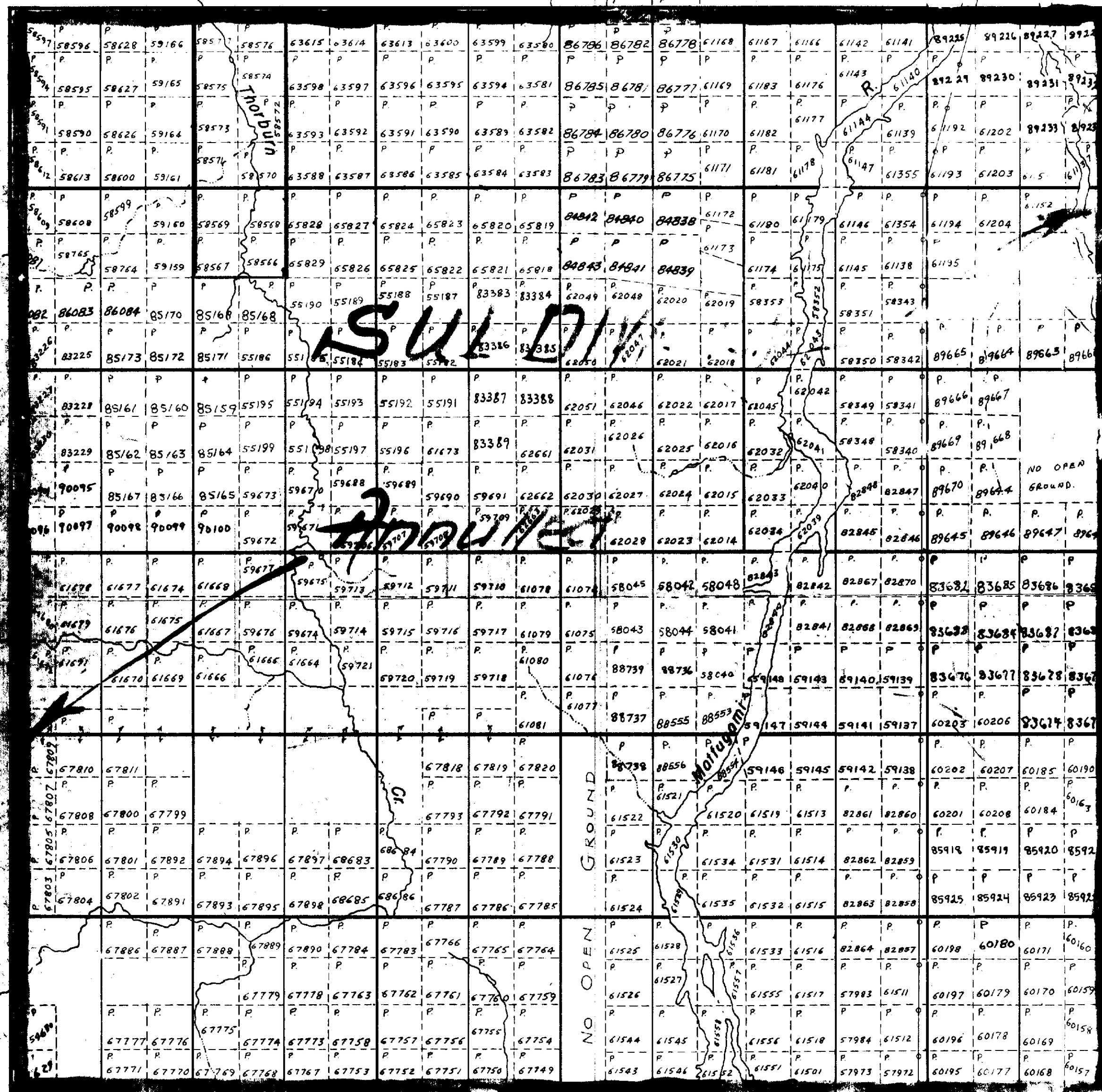
G.E.M.



Mahaffy Twp.

63, 1976
THE TOWNSHIP
OF
REID
DISTRICT OF
COCHRANE
PORCUPINE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS



VI
V
IV
III
II
I

Carnegie Twp.

Macdiarmid Twp.

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE Ⓢ
- LEASES Ⓛ
- LOCATED LAND Ⓛoc.
- LICENSE OF OCCUPATION L.O.
- ROADS
- IMPROVED ROADS ⎓
- KING'S HIGHWAY ⎓
- RAILWAYS ⎓
- POWER LINES ⎓
- MARSH OR MUSKEG ⎓
- MINES
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- CANCELLED C.

NOTES

L.O. 1344 to H.E.P.C. of Ont. covers flooding along shores of Mattagami River.

To be staked as in unsurveyed territory - Subsection (1) of Section 52a

400' Surface Rights Reservation around all Lakes and Rivers.

DATE OF ISSUE

NOV 17 1966
ONTARIO DEPT. OF MINES

ONT. DEPT. OF MINES
MINING LANDS BR.
THIS MAP FOR CHECKING
PURPOSES ONLY - MUST
NOT BE SOLD.

PLAN NO. - M-575

DEPARTMENT OF MINES
- ONTARIO -

GEM.





CONWEST EXPLORATION COMPANY LIMITED
REID & MAHAFFY TWPS. ONTARIO

MAGNETOMETER SURVEY

SCALE: 1" to 200'

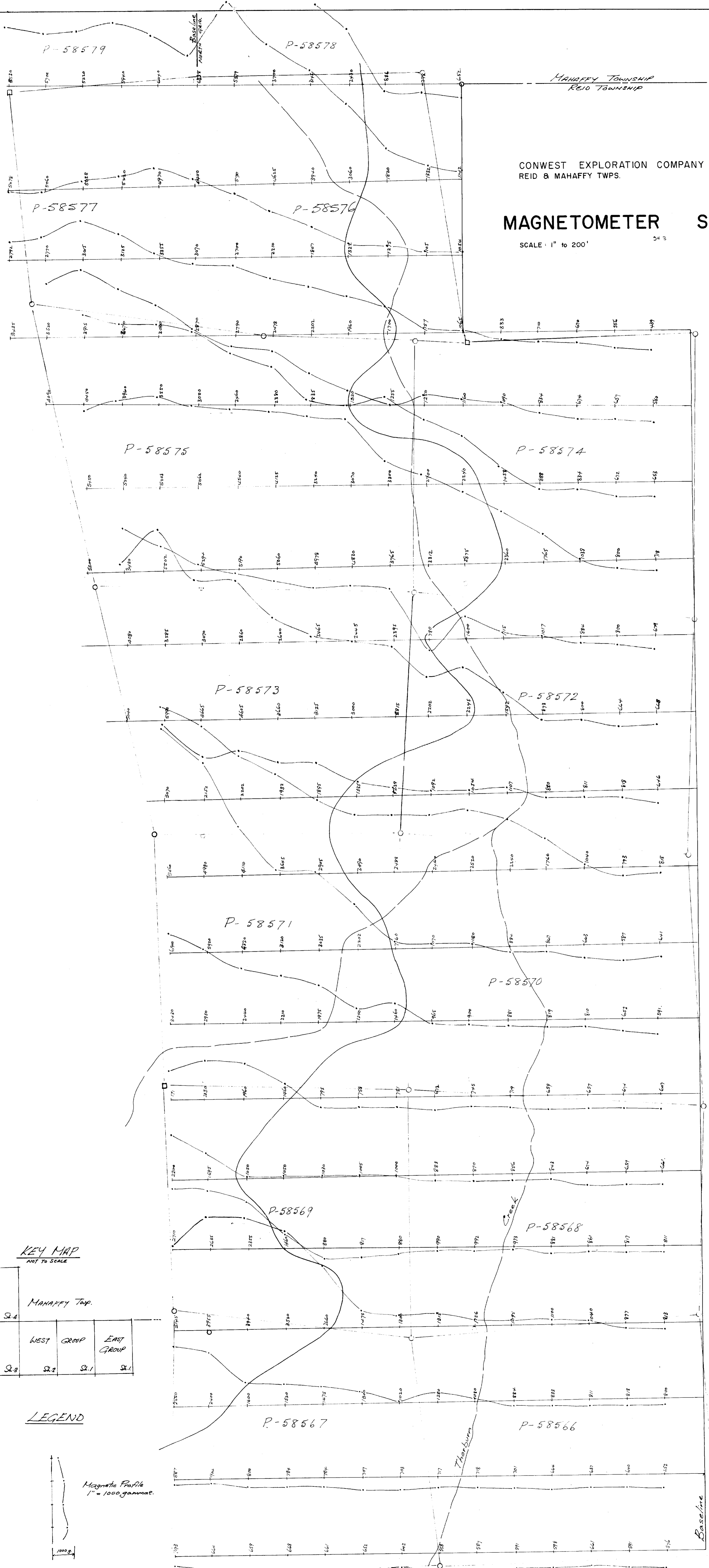
May 1966



63.1976

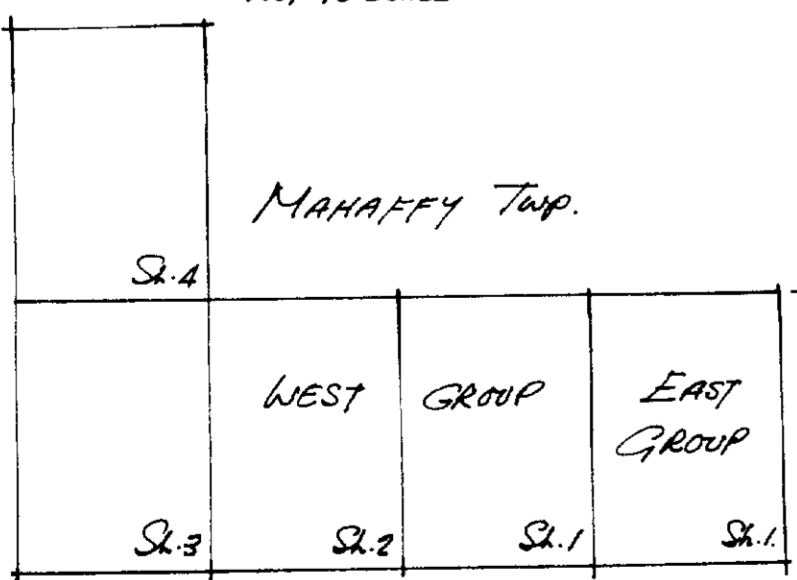
52+90
48N
44N
40N
36N
32N
28N
24N
20N
16N
12N
8N
4N
0+00
4S
8S
12S
16S
20S
24S

S O U T H
G R I D

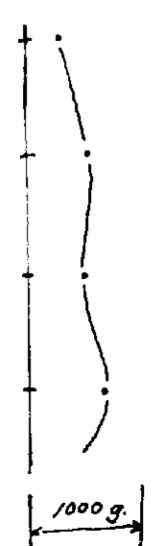


KEY MAP

NOT TO SCALE

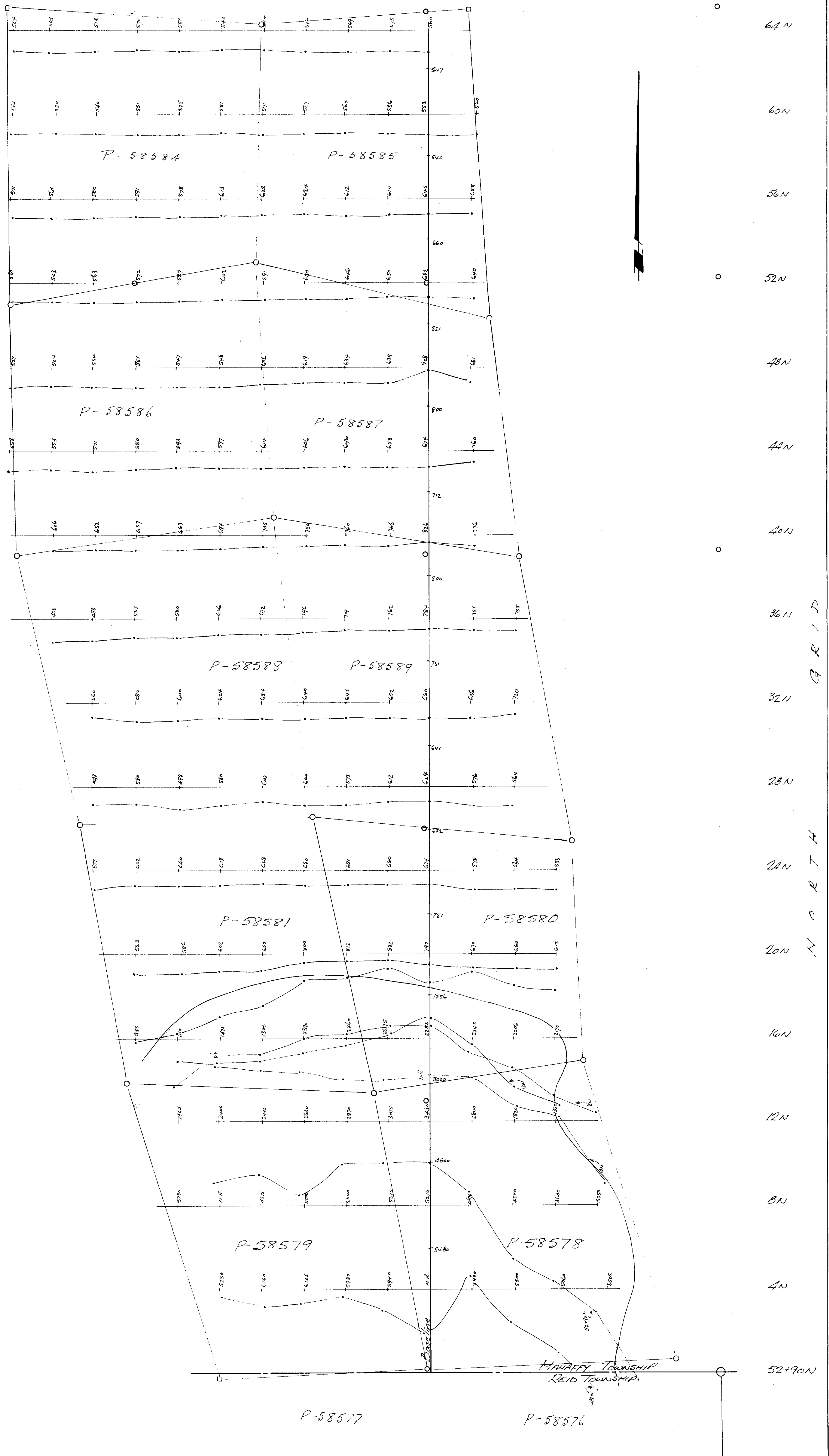


LEGEND

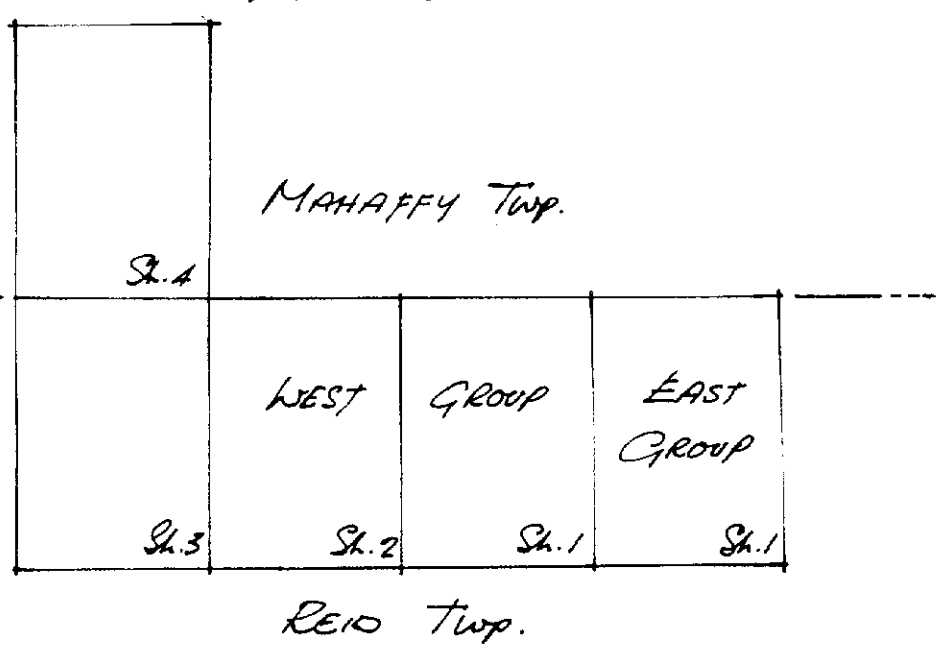


Magnetic Profile
1" = 1000 gammae.

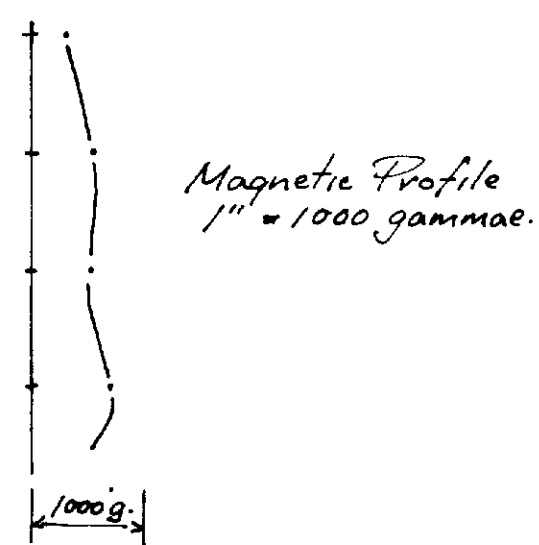




KEY MAP
NOT TO SCALE



LEGEND



CONWEST EXPLORATION COMPANY LIMITED
REID & MAHAFFY TWPS. ONTARIO

MAGNETOMETER SURVEY

SCALE: 1" = 200'

May 1966



P-58579

P-58578

MAHAFFY TOWNSHIP
REID TOWNSHIP



CONWEST EXPLORATION COMPANY LIMITED
REID & MAHAFFY TWPS. ONTARIO

ELECTROMAGNETIC SURVEY

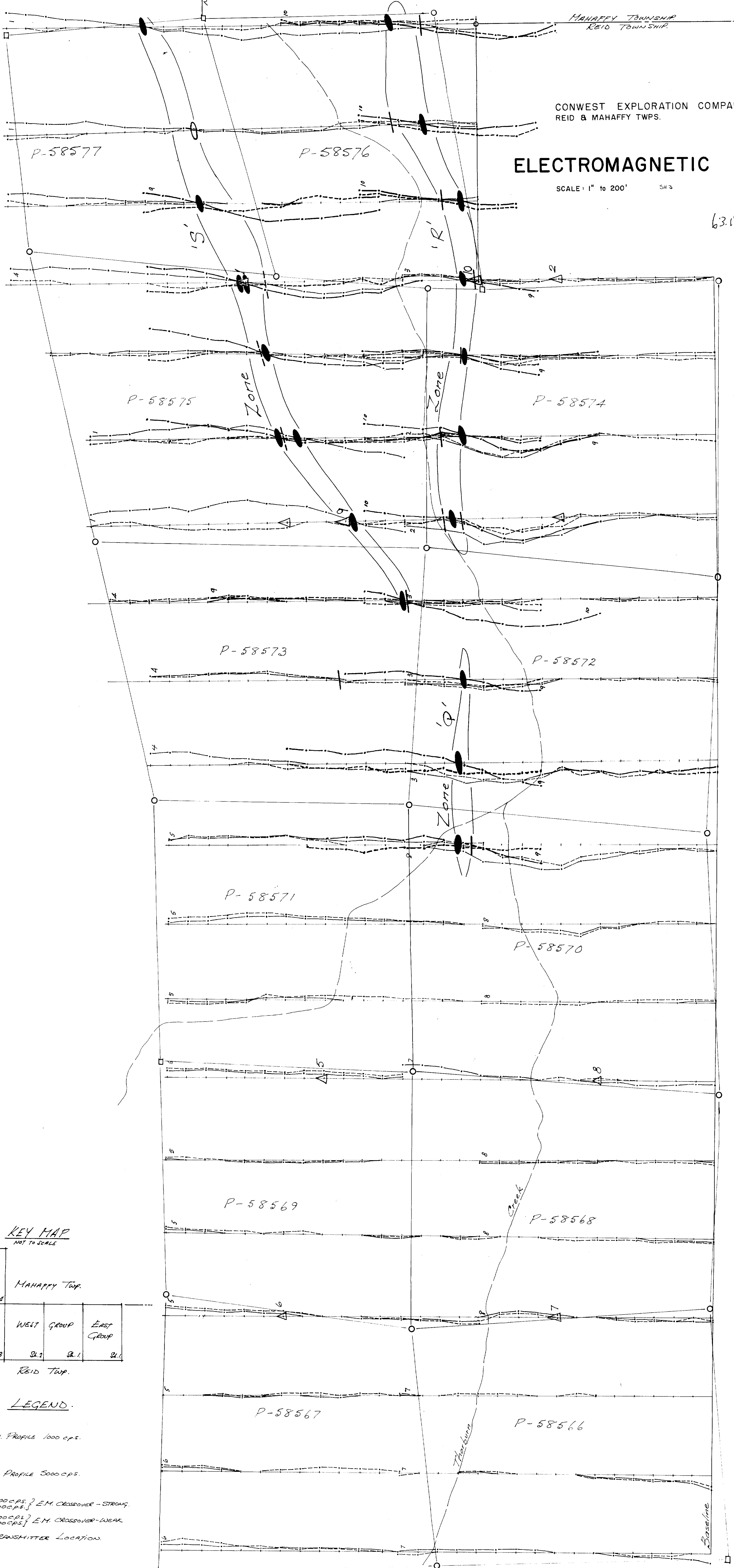
SCALE: 1" to 200' SH 3

May 1966

63.1976

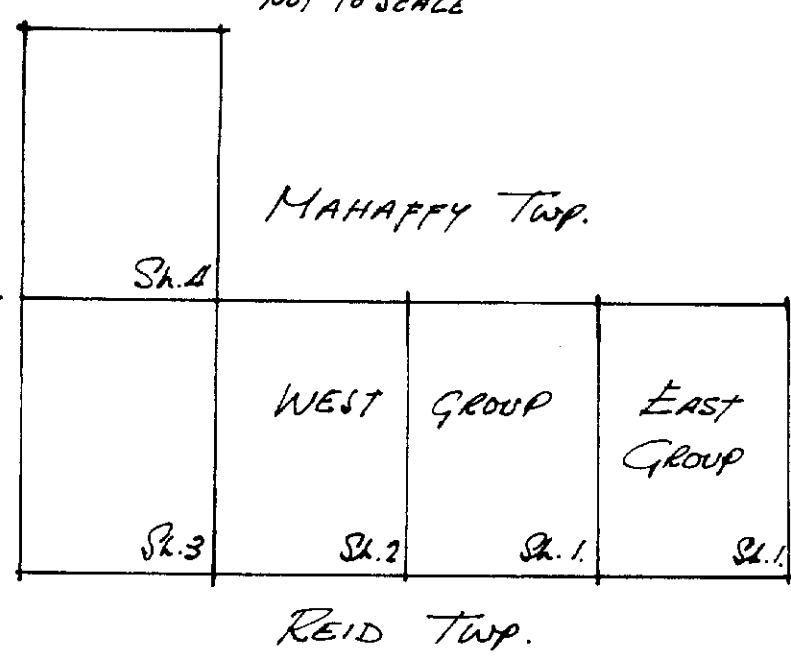
TRG

59.90
48N
44N
40N
36N
32N
28N
24N
20N
16N
12N
8N
4N
0+00
4S
8S
12S
16S
20S
24S



KEY MAP

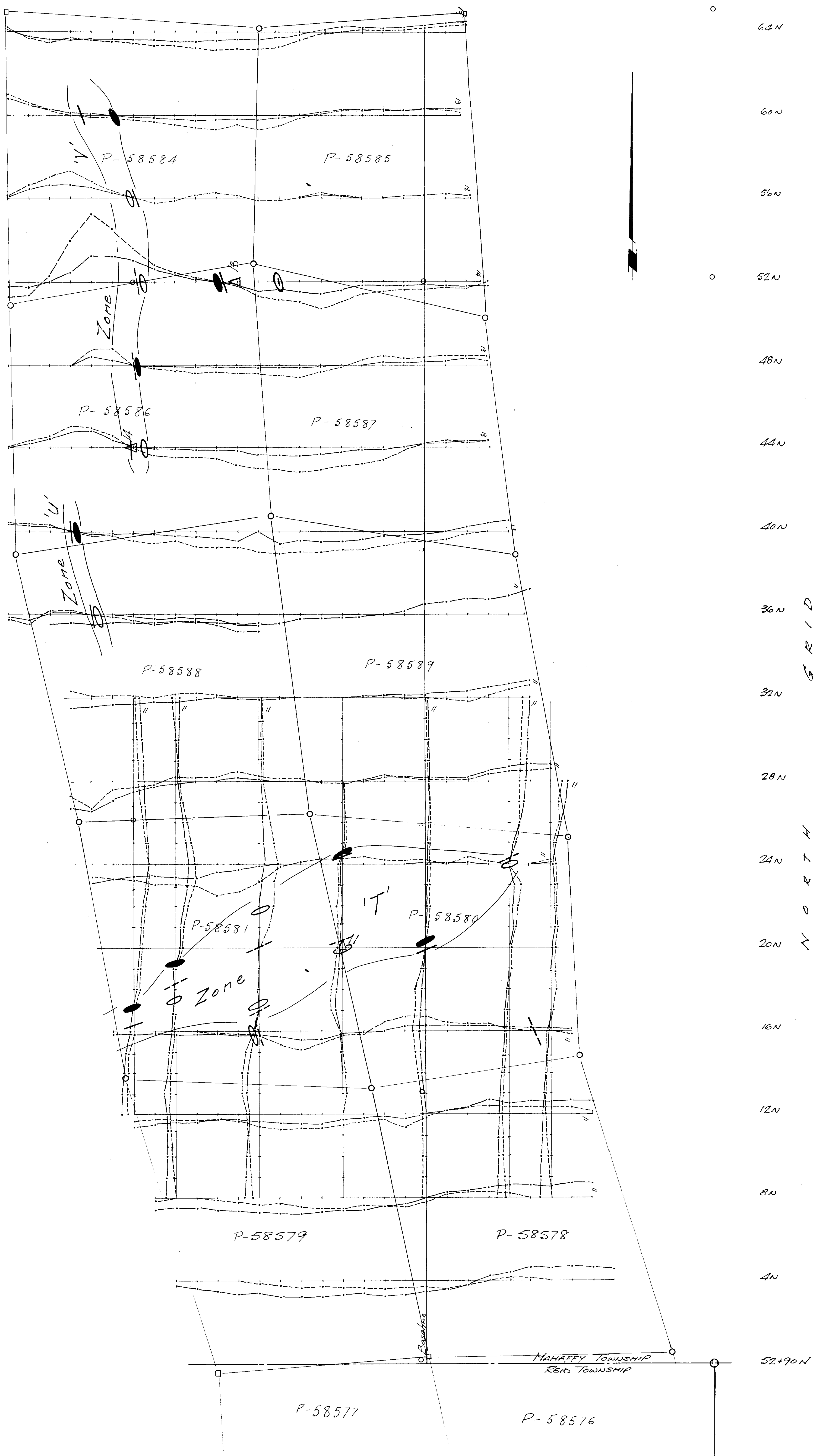
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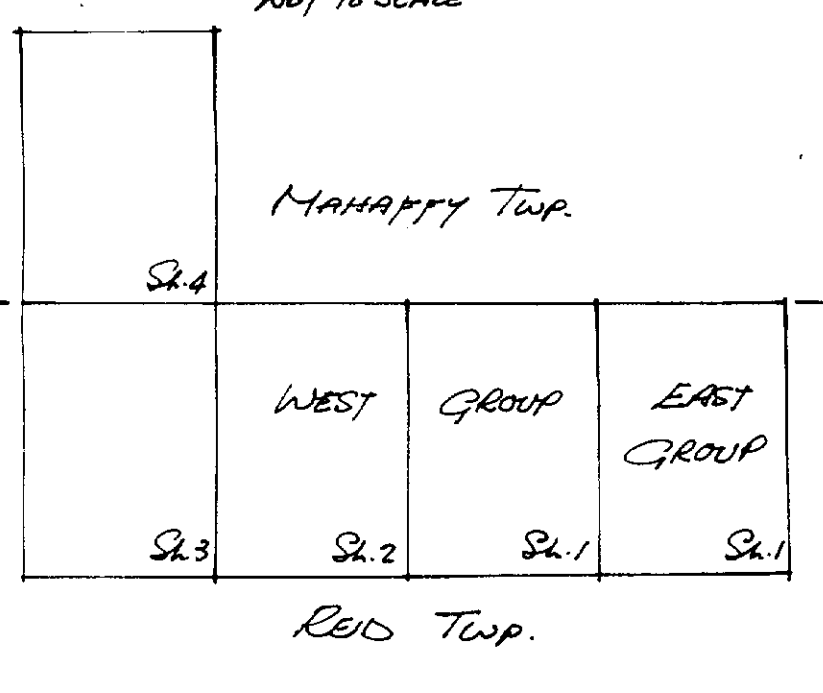
LEGEND

- E.M. PROFILE 1000 c.p.s.
- E.M. PROFILE 5000 c.p.s.
- 1000 c.p.s. } E.M. CROSSOVER - STRONG
- 5000 c.p.s. }
- 1000 c.p.s. } E.M. CROSSOVER - WEAK
- 5000 c.p.s. }
- TRANSMITTER LOCATION





KEY MAP
NOT TO SCALE



LEGEND

- - - E.M. Profile 1000 c.p.s.
- - - E.M. Profile 5000 c.p.s.
- 1000 c.p.s. } E.M. CROSSOVER - STRONG.
- 5000 c.p.s. } E.M. CROSSOVER - WEAK.
- △ TRANSMITTER LOCATION.

CONWEST EXPLORATION COMPANY LIMITED
REID & MAHAFFY TWPS. ONTARIO



ELECTROMAGNETIC SURVEY

SCALE: 1" to 200'

May 1966

63, 1976
SHEET 4

