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REPORT

<u>ON</u>

GEOPHYSICAL SURVEYS

ON PROPERTIES

IN

MCARTHUR TOWNSHIP

ONTARIO

INTRODUCTION

Ground geophysical work, consisting of both <u>electromag</u> netic and magnetometer surveys, were completed over <u>12 claims</u> in <u>McArthur Township</u> in the Porcupine Mining Division, Ontario. The program was carried out in March and April 1972.

The following report and accompanying maps describe the results of the surveys and give a geological interpretation of the results.

CONCLUSIONS AND RECOMMENDATIONS

The Electromagnetic survey outlined <u>one definite conductor</u> and 5 possible conductors. The definite conductor (conductor "A") requires more detailed geophysical work to determine the strike.

1997年1月1日日 1月2日日日 - 1月1日 1月2日日 - 1月1日日

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However it coincides with an area where two previous drill holes are recorded and it has probably been tested by these holes.

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The 5 possible conductors are extremely weak and are probably caused by conductive overburden.

PROPERTY AND LOCATION

The property consists of <u>12 unpatented claims</u> covering approximately 480 acres. These are all registered with the Ontario Department of Mines as follows and are shown on the accompanying maps.

Claim No.		Status	Acres
P	320800	Unpatented	40
₽	320802	11	40
P	320803	11	40
₽	320804	85	40
₽	320805	61	40
₽	32 0806	"	40
P	320807	•	40
P	320808	f1	40
₽	320809	*	40
P	320810	M	40
₽	320812	84	40
P	320813	*	40

The claims are located in the southeast guarter of McArthur Township, Porcupine Mining Division, Ontario.

GEOLOGY

The northeast two-thirds of the claims are underlain by

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serpentinized dunite-peridotite and the southwest third of the property is underlain by felsic volcanics. The general strike is northwest.

SURVEY METHODS AND PRESENTATION OF RESULTS

The Electromagnetic survey employed the <u>S.E.-600 Electro-</u> magnetic instrument operated in the vertical coil configuration, using the broadside method with a transmitter-receiver separation of 400 feet. Readings of the dip angle at 1600 C.P.S. were recorded at station intervals of 100 feet.

If one thinks of the plane of the receiving coil as that of a geologic bed, then the tilt angles at the null in the proximity of a typical conductor approximate the shape of an anticline with the conductor axis under the crest of the anticline.

The Magnetic readings were taken with a <u>McPhar M700 Flux-</u> gate magnetometer measuring the variations of the vertical component of the earth's magnetic field. The magnetic responses, as plotted on the accompanying map, are corrected for diurnal variation and instrument drift.

The electromagnetic and magnetic results are plotted on separate maps on a scale of 200 feet to the inch.

Survey readings were taken along chain and compass lines at 400 foot line spacings.

INTERPRETATION OF RESULTS

The Electromagnetic survey, as plotted on the accompanying map outlines one definite conductor and five possible conductors. The definite conductor requires more detailed geophysical work in order to outline the strike. However it coincides with the location of two previously recorded drill holes and has probably been tested by these old holes. The five possible conductors are probably caused by conductive overburden.

The magnetometer readings over the northeast two-thirds of the claims are relatively high, reflecting the underlying ultrabasic rocks.

Respectfully Submitted

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E. W. Bazinet, P. Eng.



Timmins, Ontario.

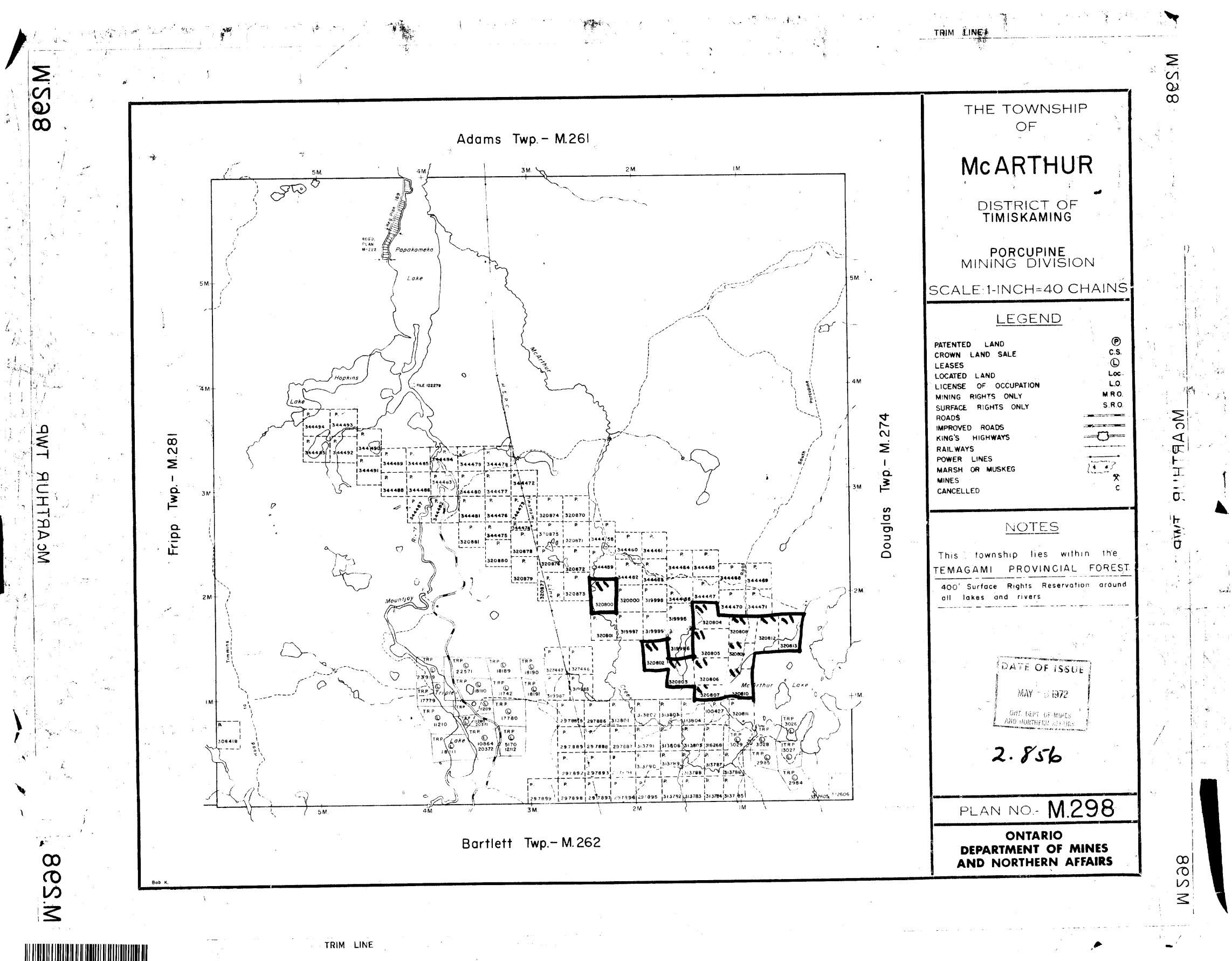
April 30, 1972.

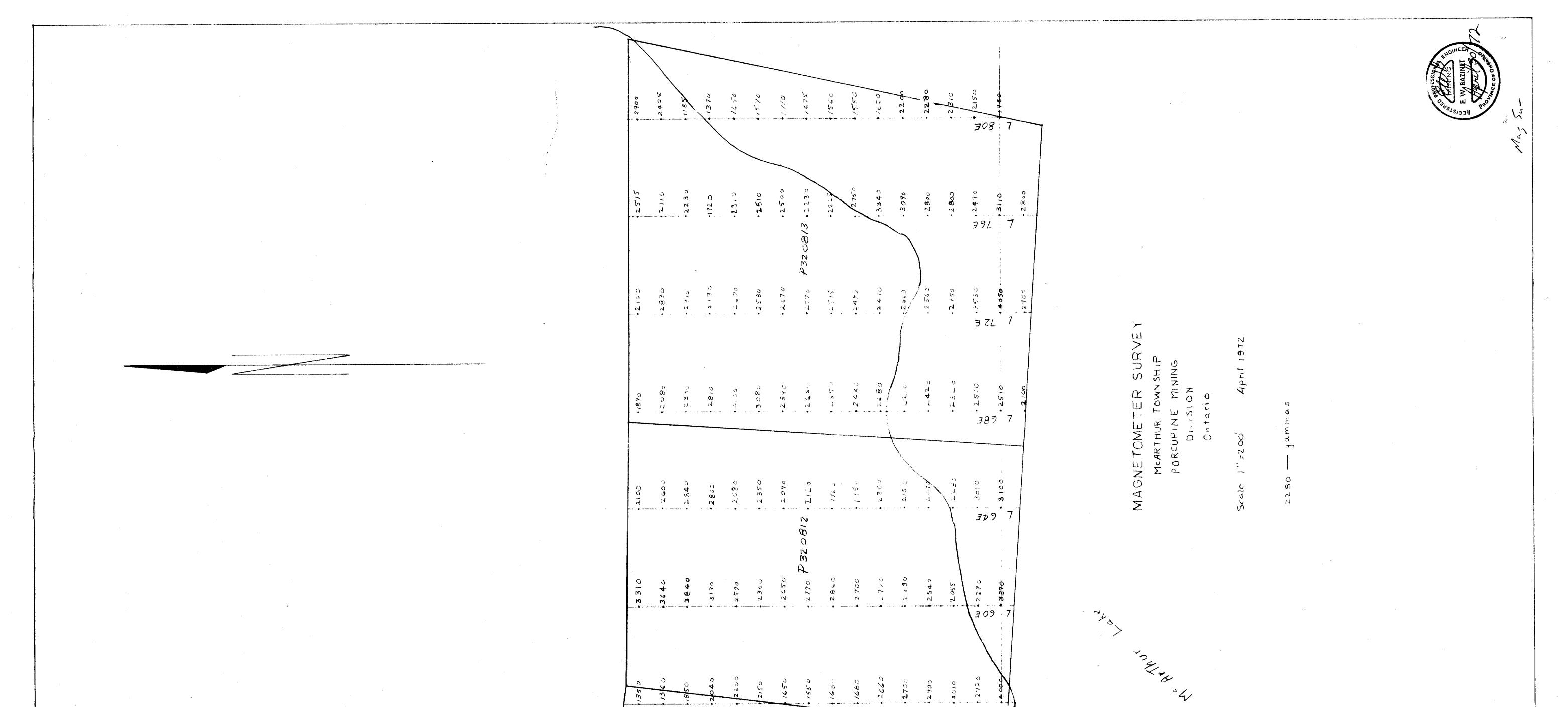
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	Author of Report <u>E</u> . Address <u>456 B</u> row Covering Dates of Survey <u>-</u> Total Miles of Line cut <u>C</u>	Arch I, March I,	And Tim 1972 to App	mins Orta ul 30, 197; 12.58 Mi	P320802	Anna Carlos
	SPECIAL PROVISIONS CREDITS REQUESTED		Geophysical Electromagnetic	DAYS per claim	P 32 0804 P 320805 P 3 20806	40 Ho
	ENTER 40 days (include line cutting) for first survey. ENTER 20 days for each additional survey using same grid.		–Magnetometer –Radiometric –Other Geological Geochemical	2010	R 320807 P 320808 P 320809 P 320810	If space insufficient, atta
	AIRBORNE CREDITS (Sp MagnetometerElec DATE: April 30,197	tromagnetic (enter days p	e Radiomet	ric	P320812 P320813	Fo
	PROJECTS SECTION Res. Geol Previous Surveys	(Qualifications <u>63</u>	2086		
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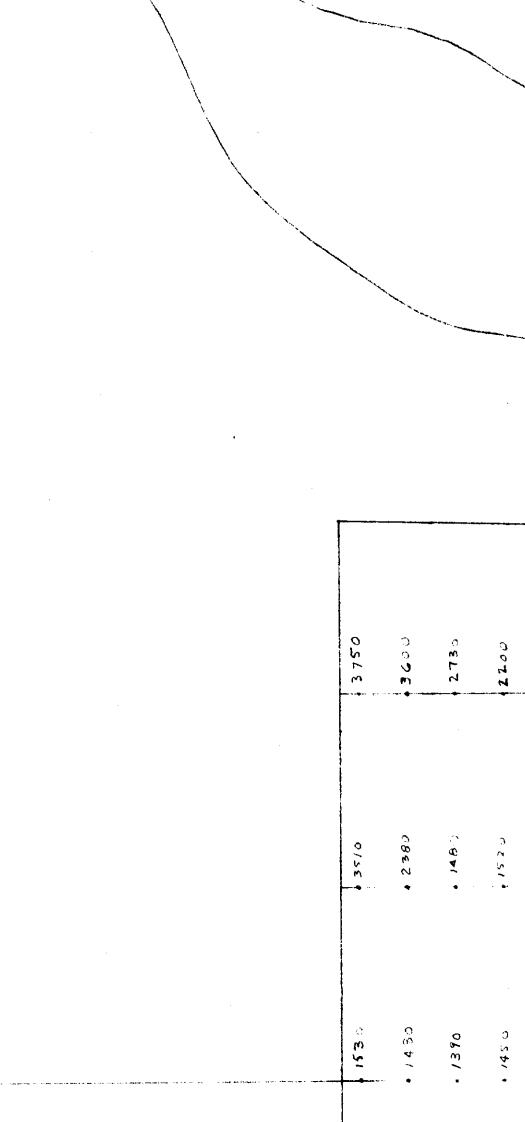
GEOPHYSICAL TECHNICAL DATA

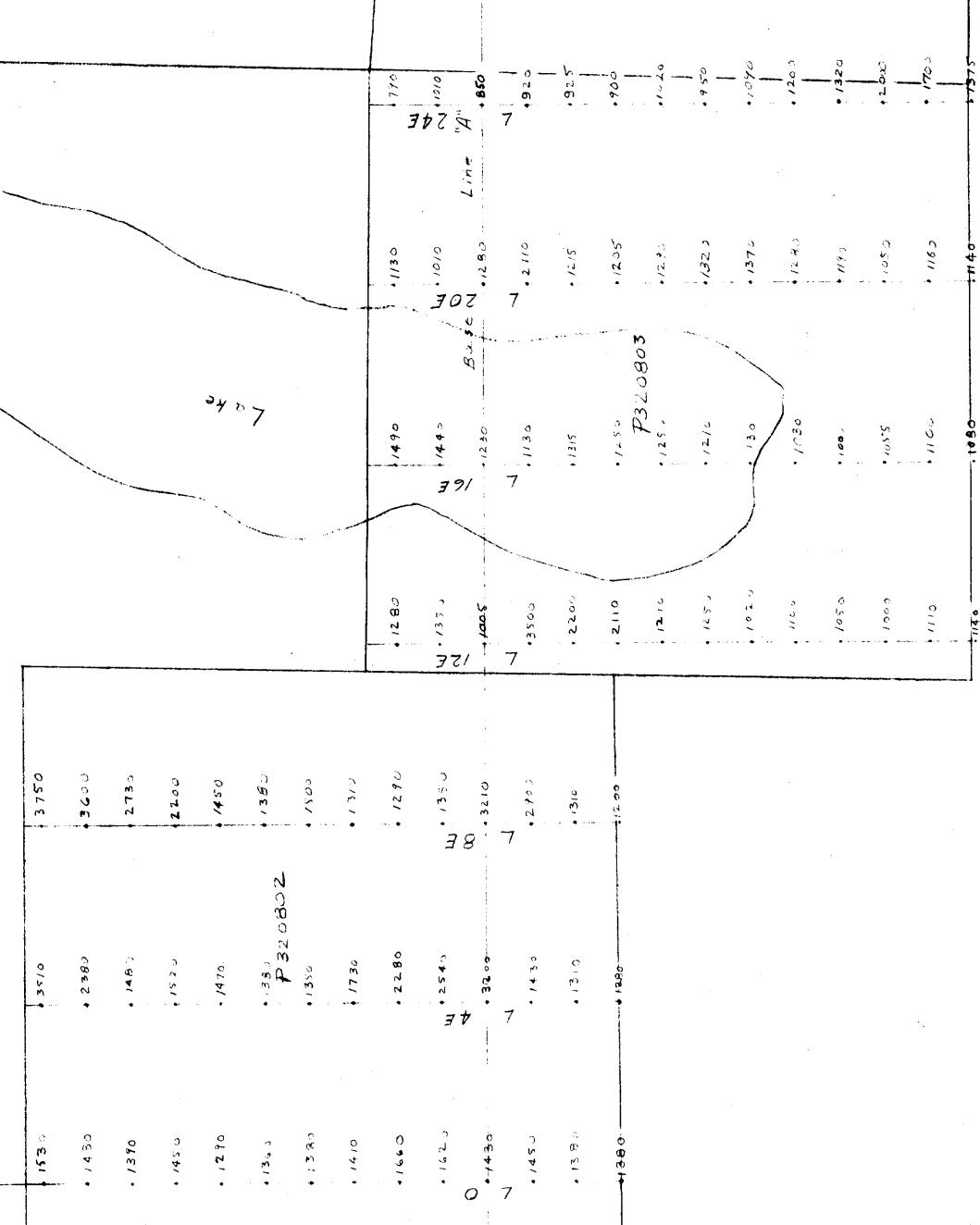
GROUND SURVEYS Number of Stations540Number of Readings540
Station interval 100 fut
Line spacing
Profile scale or Contour intervals
(specify for each type of survey)
MAGNETIC M 700 Mc Phar Instrument Malimum Sensitivity of 20 gammas per scale division on 1000 gamma ra- Corrected base stations established along base lines - check in at least every for Base station location Base line at line 0
ELECTROMAGNETIC InstrumentS.E600
Coil configuration - Broadside Method
Coil separation 400 fut
Accuracy Plus or Minus one degree
Method:
Frequency 1600 C.P.S.
Parameters measured Tilt angle in degrees.
GRAVITY Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy
INDUCED POLARIZATION RESISTIVITY Instrument
Time domain Frequency domain
Frequency Range
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Electrode spacing
Type of electrode



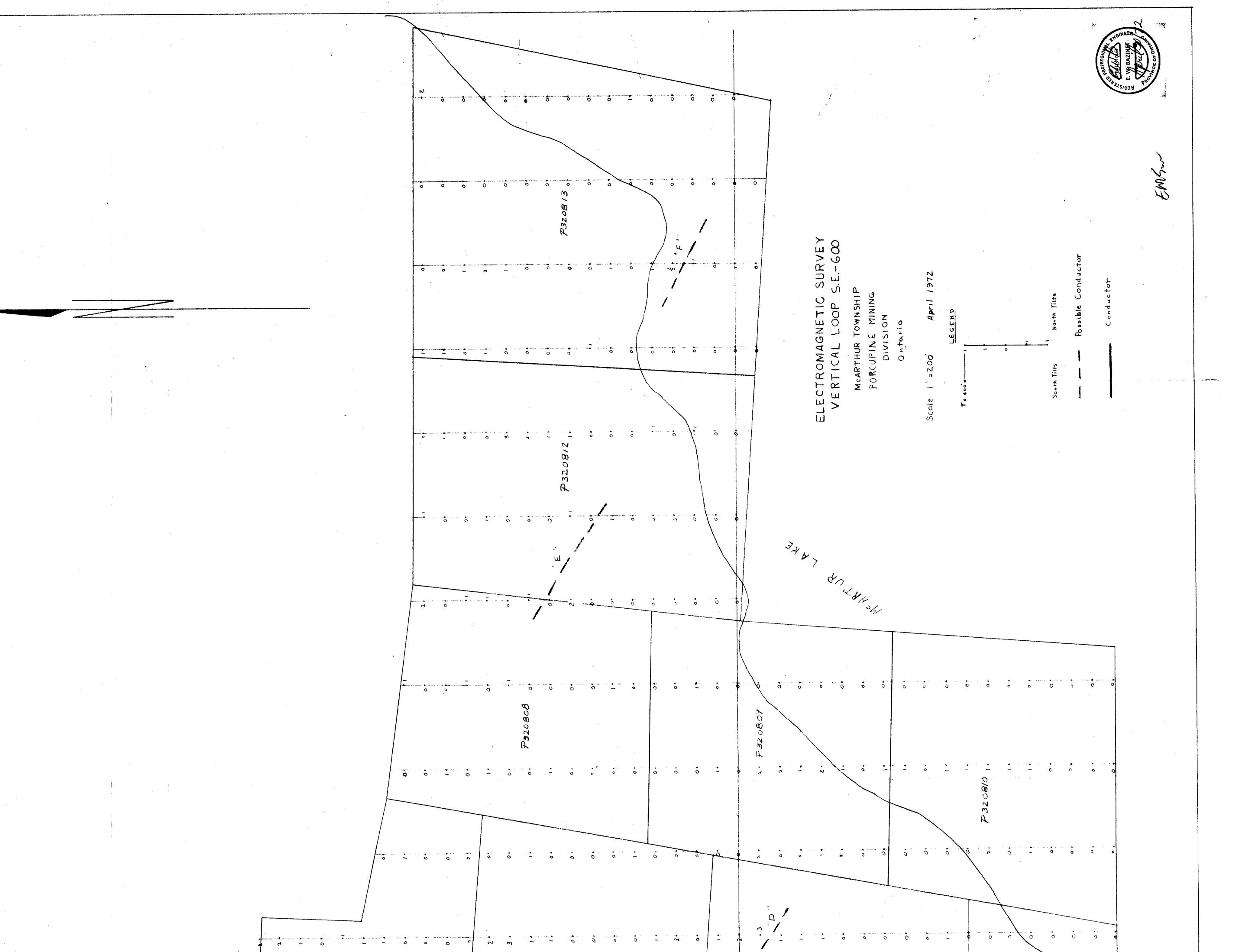


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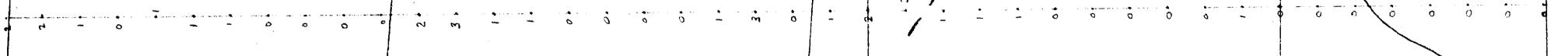




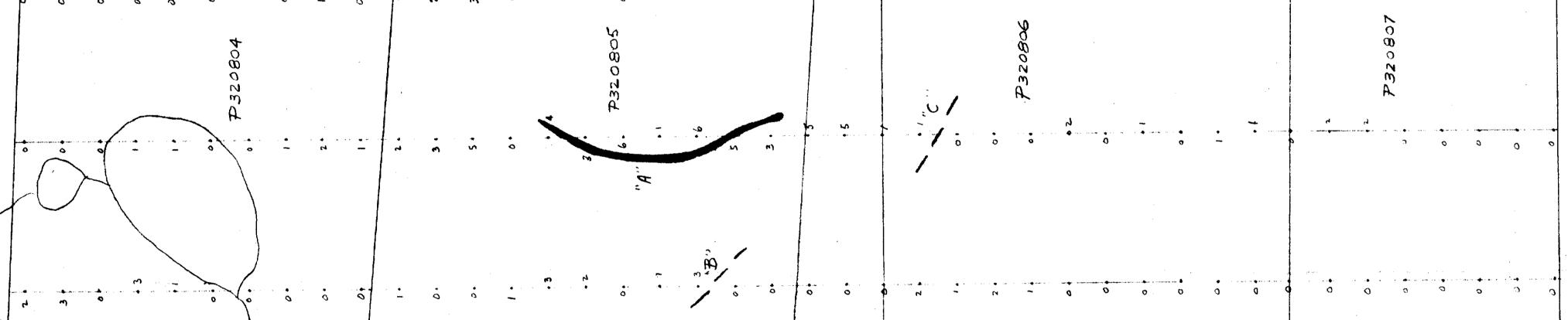
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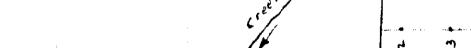


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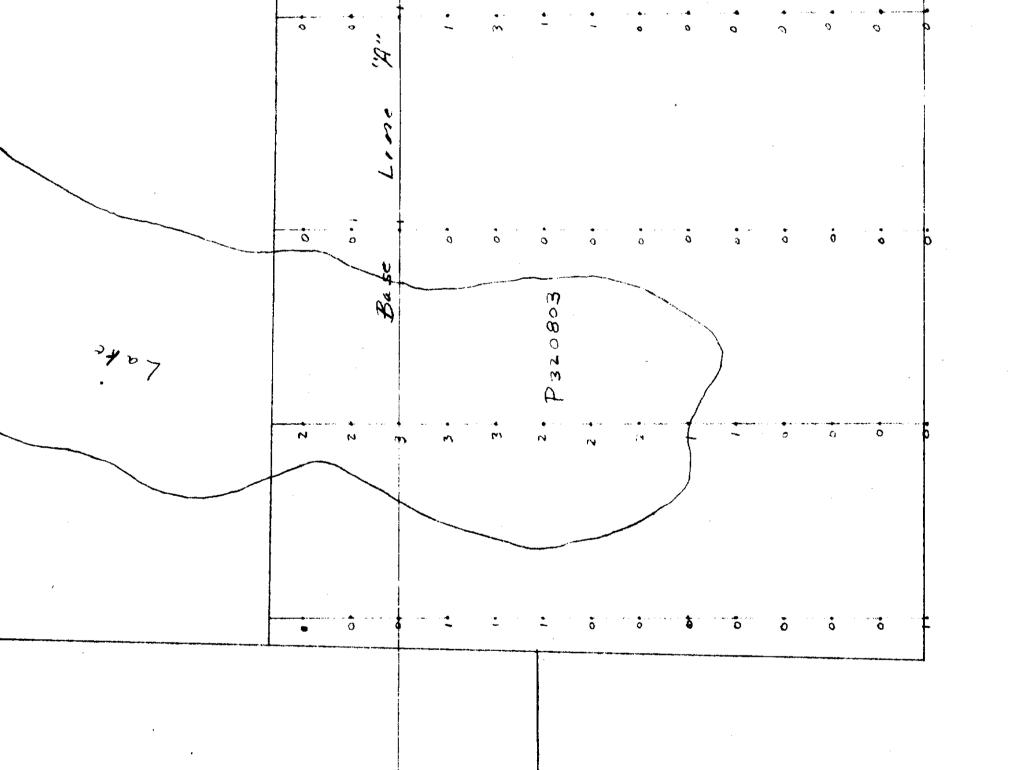
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