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### AIRBORNE MAGNETIC SURVEY

### HUDBAY MINING LIMITED

### FOLEYET, ONTARIO

PROJECT #22082

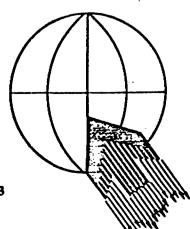
FEBRUARY, 1981

# RECEIVED

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# MINING LANDS SECTION

Korl Krisherlt M.Sc. Senior Geologist Idudling Mining Stat.



Questor Surveys Limited, 6380 Viscount Road, Mississauga, Ontario LAV 1H3

### INTRODUCTION

This report contains our interpretation of the results of an airborne magnetic survey flown in the Foleyet area of Ontario in November, 1980.

A brief description of the survey procedure is included.

The survey totalled 410 line kilometres and was performed by Questor Surveys Limited. The survey aircraft was a Britten Norman Trislander C-GNKW and the operating base was Timmins and Sudbury, Ontario.

The area outline is shown on the map at the end of this report.

### MAP COMPILATION

The base maps are uncontrolled mosaics constructed from National Air Photo Library 1:60 000 scale photograpgs. The mosaics were reproduced at a scale of 1:10 000 on stable transparent film from which white prints can be made.

Flight path recovery was accomplished by comparison of the 35 mm film with the mosaic in order to locate the fiducial points. These points are approximately 1142 metres apart.

### SURVEY PROCEDURE

Terrain clearance was maintained as close to 122 metres as possible, with the E.M. bird at approximately 50 metres above the ground. Lines were flown consecutively in opposite directions, and tight keyhole turns were used. The equipment operator logged the flight details and monitored the instruments.

A line spacing of 200 metres was used.

### GEOPHYSICAL TECHNICAL DATA

AIRBORNE SURVEY:	Questor			
TYPE OF SURVEY:	Airborne Magnetic			
INSTRUMENTS:	Sonotek P.M.H. 5010 Proton Magnetometer			
ACCURACY:	Total field, sensitivity of 1 gamma, range 20 000-100 000 gammas			
AIRCRAFT USED:	Britten Norman Trislander C-GNKW			
SENSOR ALTITUDE:	122 m			
NAVIGATION & FLIGHT RECOVERY METHOD:	Airphoto mosaics, comparison of 35 mm film with mosiac to locate fidicial point			
AIRCRAFT ALTITUDE:	<u>122 m Line Spacing</u> 200 m			
KILOMETRES FLOWN OVER TOTAL AREA:	410 ln.km			
KILOMETRES FLOWN OVER CLAIMS ONLY:	20.7 ln.km			

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### APPENDIX

### EQUIPMENT

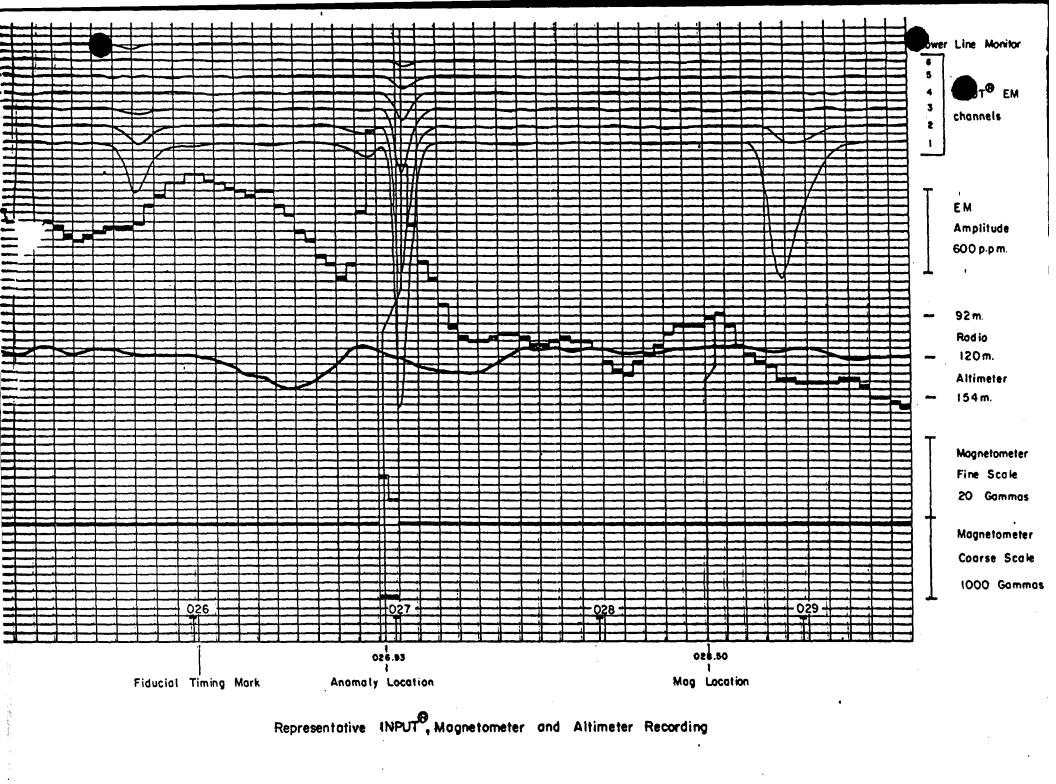
The aircraft is equipped with a Mark VI INPUT (R) airborne E.M. system and Sonotek P.M.H. 5010 Proton Magnetometer. Radar altimeters are used for vertical control. The outputs of these instruments together with fiducial timing marks are recorded by means of galvanometer type recorders using light sensitive paper. Thirty-five millimeter continuous strip cameras are used to record the actual flight path.

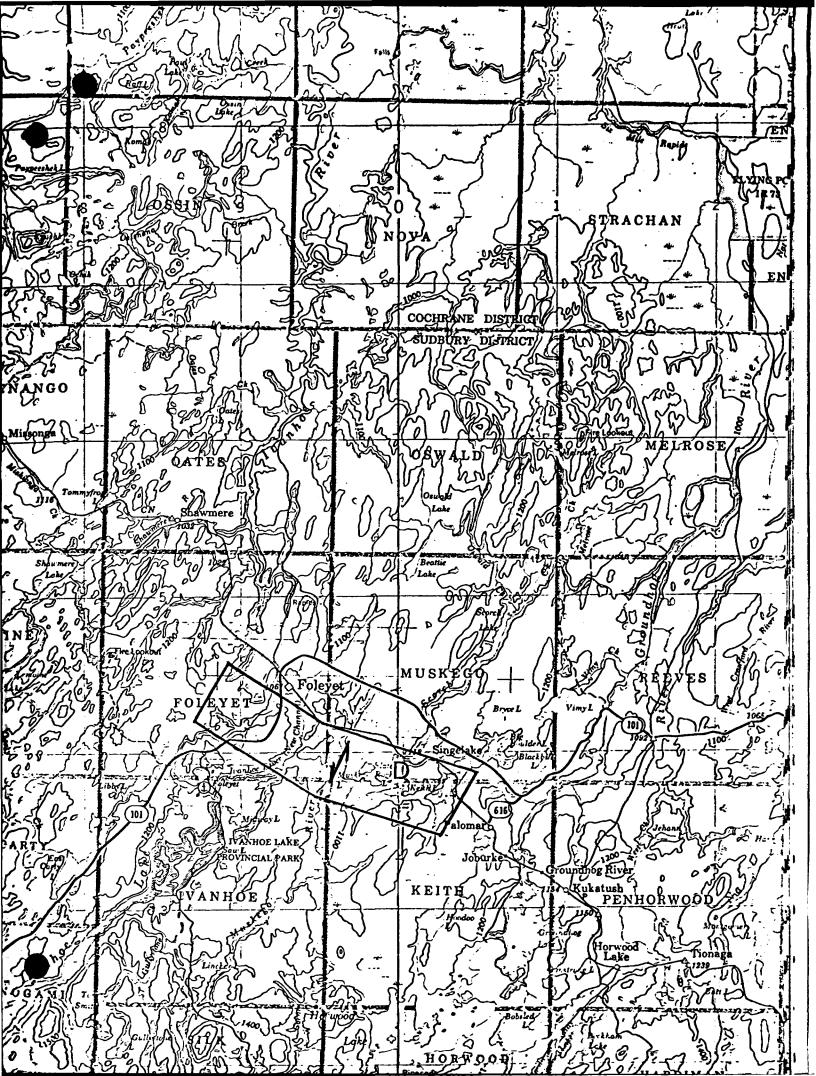
#### (II) SONOTEK P.M.H. 5010 PROTON MAGNETOMETER

The magnetometers which measure the total magnetic field have a sensitivity of 1 gamma and a range from 20 000 gammas to 100 000 gammas.

Because of the high intensity field produced by the INPUT transmitter, the magnetometer results are recorded on a time-sharing basis. The magnetometer head is energized while the transmitter is on, but the read-out is obtained during a short period when the transmitter is off. Using this technique, the frequency is being recorded and converted to gammas. Thus a magnetic reading is taken every 1.13 second.

For this survey, a lag factor has been applied to the data. Magnetic data recorded on the analogue records at fiducial 10.00 for example would be plotted at fifucial 9.95 on the mosaics.





## HUDBAY MINING LTD

### CLAIM SUMMARY SHEET

CLAIM GROUP NAME	TWP.	NO. OF CLAIMS	CLAIM NOS.	RECORDING DATE
NAME				
Road Group	Foleyet	7	603811-817·	81-09-15
Muskego Lake Group	Ivanhoe Keith	4	626279-281 · • <b>V</b> g	81-08-10
Boundary Group	Keith	6	626289-294 •	81-08-10
Mag Group	Foleyet Ivanhoe	8	626295-300· 626282-283·	81-08-10

81-10-30

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### SPECIAL NOTE

TO: Mr. Mathews:

The reports and maps which I am submitting for an Airborne Geophysical Certificate covering certain claims near Foleyet, Ontario, come from a larger Questor Report covering other areas and including EM data. Retyping of Questors original report was necessary.

As geologist in charge of this Project I take responsibility for the contents of this report and plans and have signed them. I trust this will be acceptable.

Sincerely,

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Karl O. Giesbrecht

KOG/nb

1982-07-22

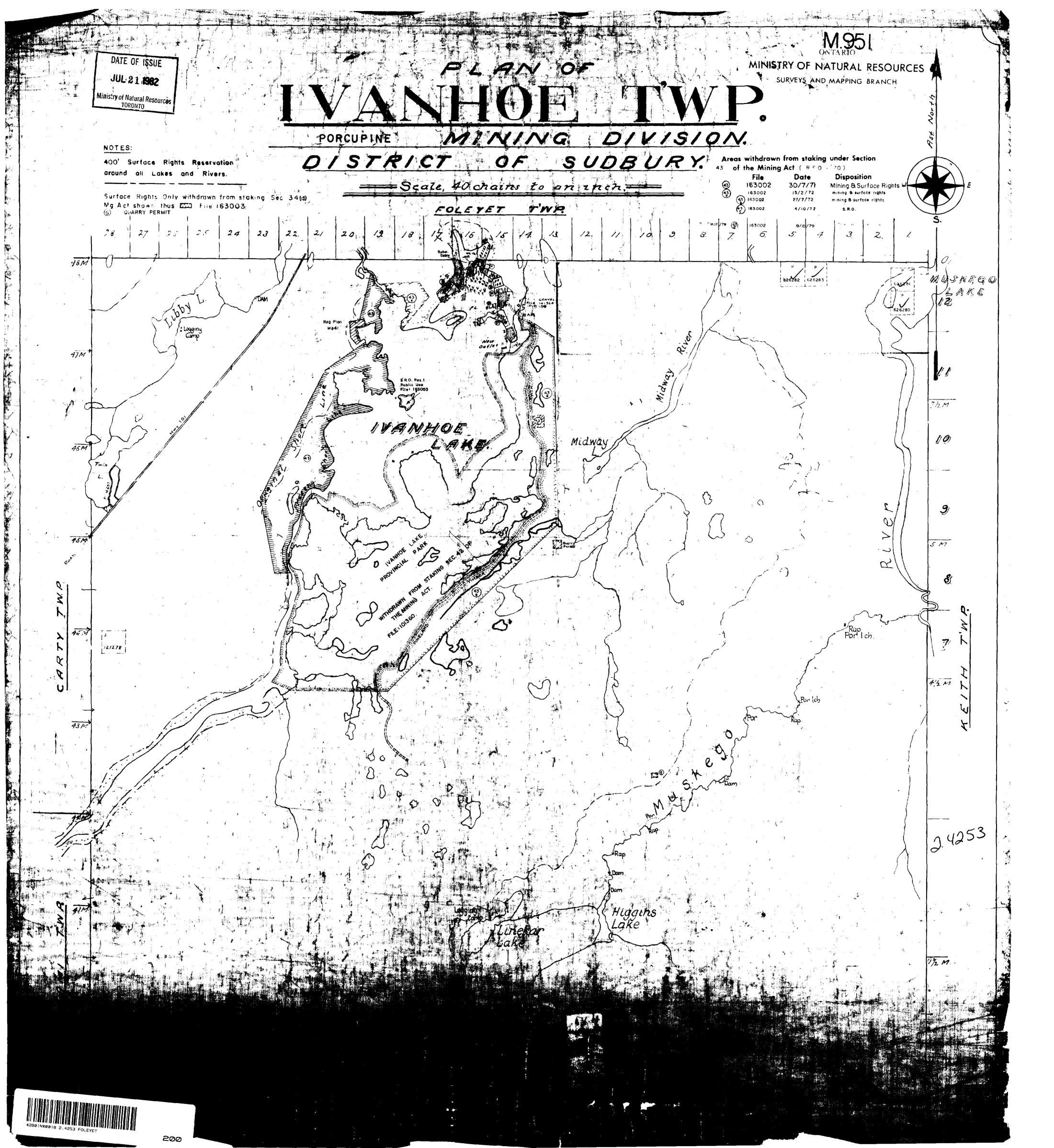
### INTERPRETATION OF AIRBORNE MAG PROJECT 22082

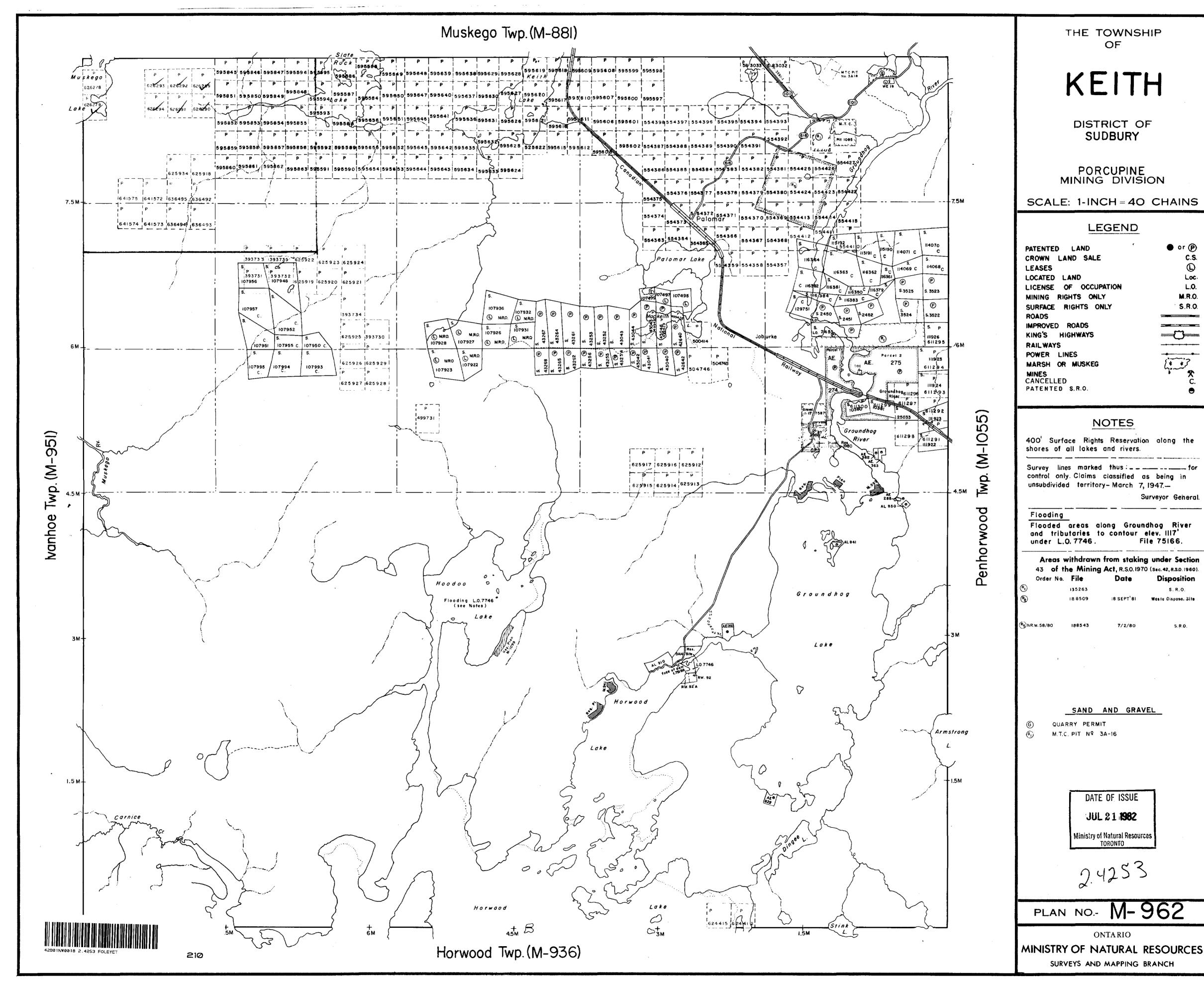
The airborne mag survey has been utilized to roughly outline 4 broad geological environments. The sketchy existing geological information has been incorporated into this interpretation: The following divisions have been made: (see map attached).

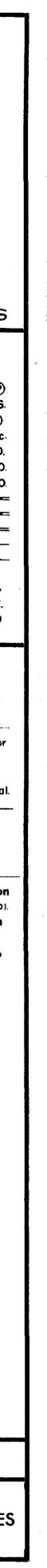
- A) basic & ultra basic intrusives
- B) felsic to basic volcanics with minor sediements and tuffs
- C) basic sediments, tuffs & schists
- D) iron formation

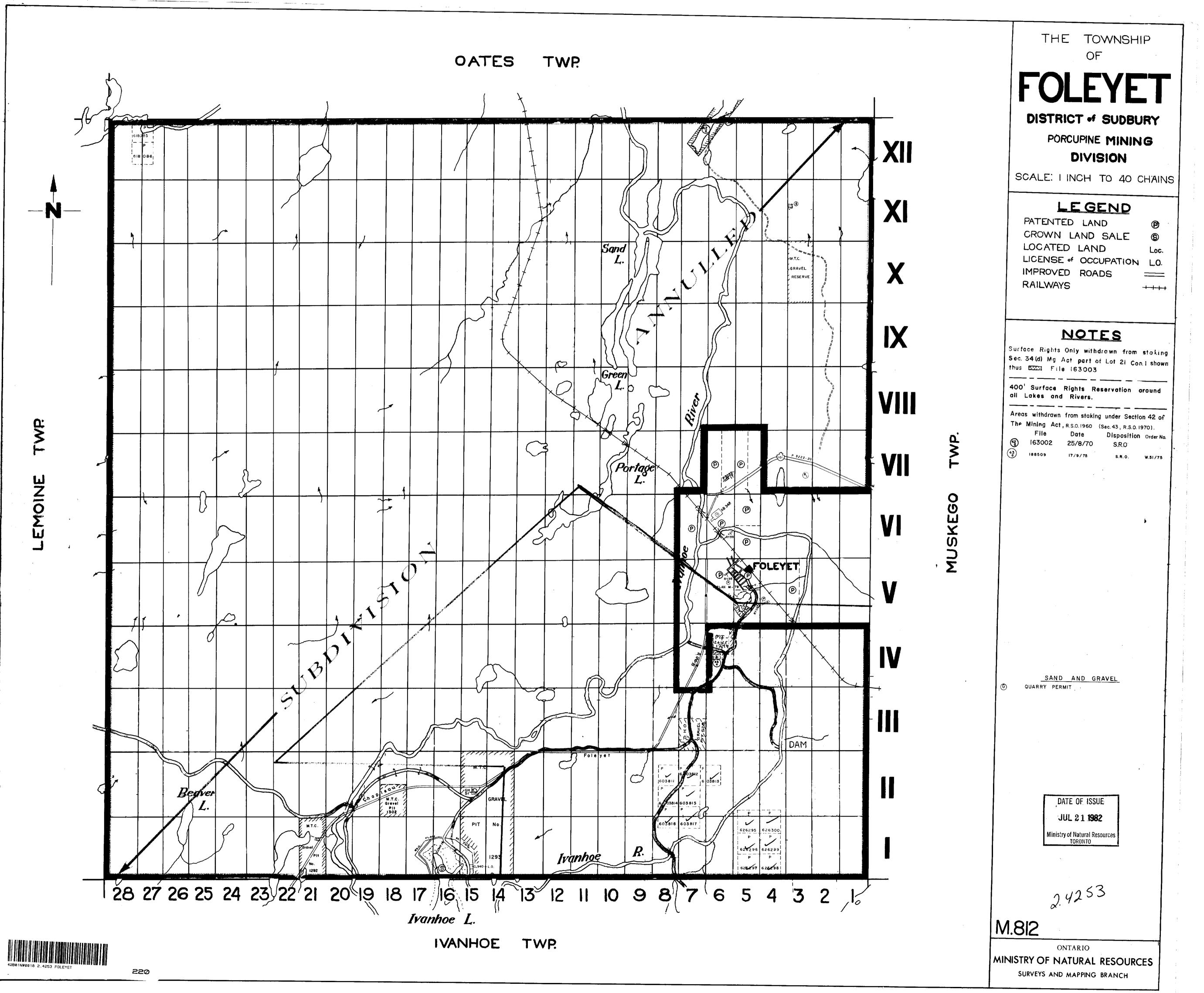
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NOTE: The 1982 exploration program on our claim blocks will include ground EM, ground mag and diamond drilling.

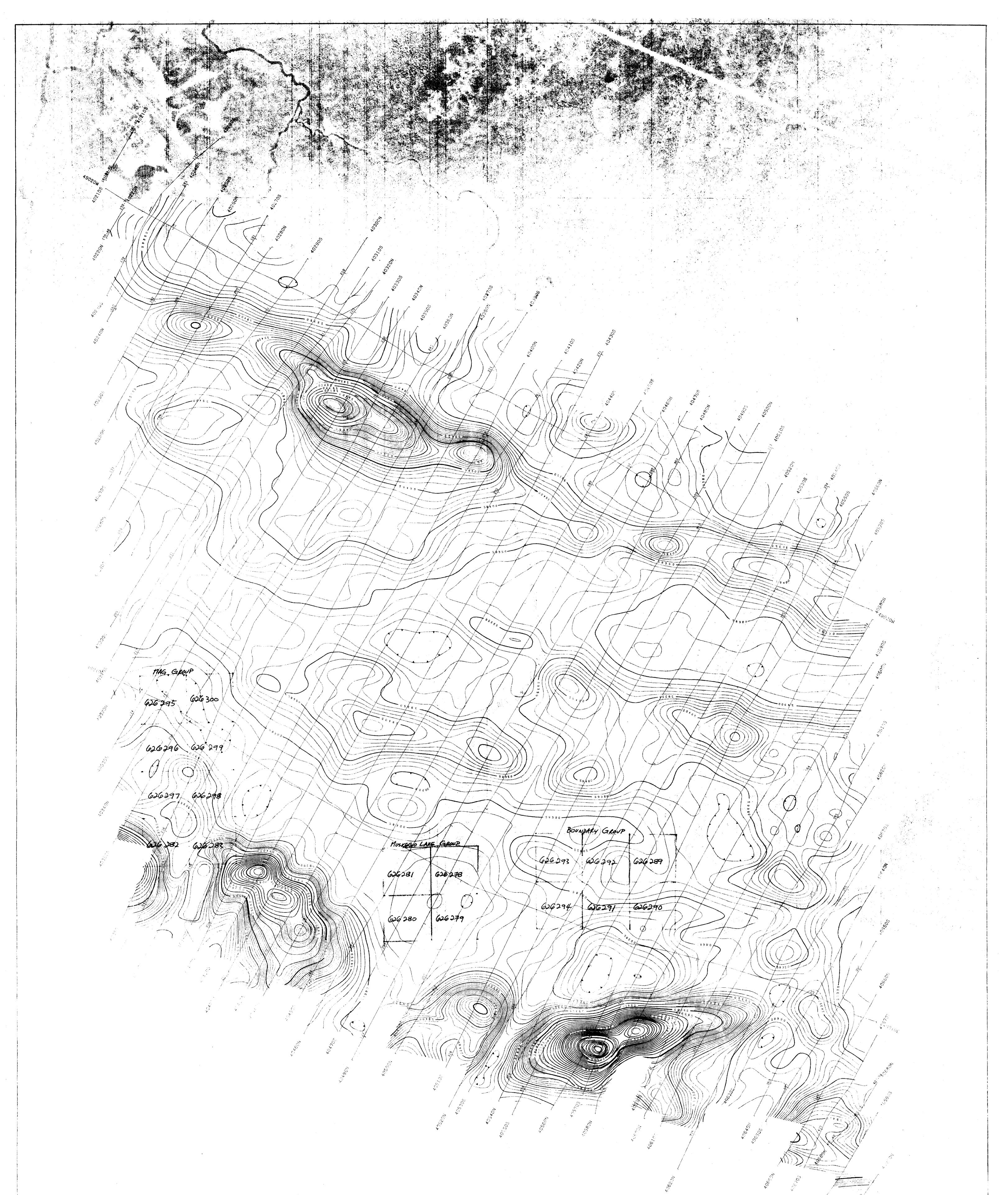








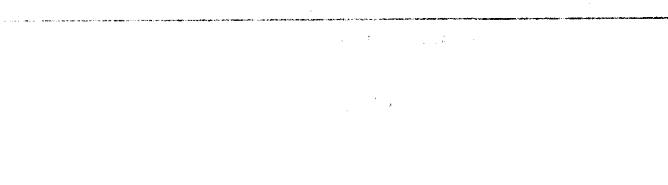




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