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PROJECTS UNIT

LA-CHIB MINES LTD.

REPORT ON A TOTAL FIELD MAGNETIC SURVEY
MACTIER URANIUM PROSPECT
FREEMAN TOWNSHIP, DISTRICT OF MUSKOKA, ONTARIO

- by -

C. R. Bowdidge, M.A., Ph.D.

March 8th, 1978

INTRODUCTION

This report describes the results of a magnetic survey over the 10 claim property of La-Chib Mines Ltd., known as the MacTier Uranium Prospect, in Freeman Township, Ontario. It is proposed that this survey will be followed at a later date by geological mapping and a radiometric survey.

PROPERTY

The property consists of ten contiguous unpatented mining claims in Freeman Township, Regional Municipality of Muskoka, Ontario. Details are as follows:

<u>Claim no.</u>	<u>Con.</u>	<u>Lot</u>	<u>Date staked</u>	<u>Date recorded</u>	<u>Staked by</u>
EO 431433	VII	5, N½	30.8.75	9.9.75	L.A. Landrigan
EO 431436	VII	6, S½	18.8.75	17.9.75	L.A. Landrigan
EO 431437	VII	6, N½	18.8.75	17.9.75	L.A. Landrigan
EO 431438	VIII	6, S½	18.8.75	17.9.75	L.A. Landrigan
EO 431439	VIII	5, S½	8.8.75	14.8.75	L.A. Landrigan
EO 431440	VIII	5, N½	9.8.75	14.8.75	L.A. Landrigan
EO 431441	VII	5, S½	30.8.75	9.9.75	L.A. Landrigan
EO 431445	IX	6, N½	2.9.75	1.10.75	L.A. Landrigan
EO 431447	IX	6, S½	1.9.75	1.10.75	L.A. Landrigan
EO 431448	VIII	6, N½	23.8.75	17.9.75	L.A. Landrigan

Each claim is 50 acres in area, for a total area of 500 acres.

LOCATION AND ACCESS

The property is located one half-mile west of the Town of MacTier, which is 20 miles south of Parry Sound and 120 miles by road north of Toronto. Access is by a short walk from the town, along well-established trails.

TOPOGRAPHY

The topography is dominated by a series of NNW-trending ridges, 50 to 100 feet high, which are separated by swamps and occasional beaver ponds. Forest cover is light, with a second growth of scattered oak and maple, and occasional thickets of birch and poplar. Coniferous trees are rare, the original white pine having been long since cut.

GEOLOGY

The property is underlain by gneisses and migmatites of Pre-Cambrian age¹, which belong to the Grenville structural Province of the Canadian Shield. The area lies on the north-eastern flank of a very large-scale fold known as the Moon River Synform.

The strike of the gneisses as observed on air photos, is consistently NNW-SSE over most of the property, and is almost parallel to the lot lines of the township. Dips observed in the field during the course of this survey are generally low and to the WSW, although complex small-scale folding is present. Air photos show a prominent sigmoidal fold just to the north-east of the property, which swings the strike to east-west on its middle limb. Part of this fold structure is present on the property.

¹ Geology and Mineral Deposits of the Parry Sound-Huntsville Area, by D.F. Hewitt. O.D.M. Geol. Rept. 52, 1967 (includes Map 2118).

MAGNETIC SURVEY

Location of Grid: The lot line between lots 4 and 5 has been recently resurveyed, and can be followed in the bush. This line was used as a base line and the grid was commenced at an iron survey post on the line between concessions VII and VIII. Thus the locations of lot and concession lines shown on the magnetic map are believed to be accurate.

Line Cutting: Lines were turned off the base line at 400 ft. intervals and cut for 2700 feet to the west. The northernmost two claims were covered by establishing a second base line (20W), and cutting cross lines at 400 ft. intervals for 700 feet each way. A series of short lines was cut at 100 ft. intervals over the main uranium showings on claim EO 431439: these will be used later to make a detailed plan of the showings. Line cutting was carried out between Feb. 15th and March 4th, 1978. A total of 13.37 miles of line were cut.

Instrument and Operation: A Geometrics "UniMag" Model G-836 proton precession magnetometer was used for the survey. This instrument gives a 4-digit readout of total magnetic field strength to the nearest 10 gammas. The manufacturer's description and specifications for the instrument are appended. A total of 690 readings were taken, at 100 ft. intervals on all lines. The survey was carried out between Feb. 18th and March 5th, 1978.

Correction of Data: Corrections for diurnal variation were made in the following way. The base lines were surveyed twice in as short a space of time as possible, and values for each station on the base line were derived by averaging the two sets of data. Corrections for the cross lines were made by comparing the readings on the base line before and after each pair of lines was surveyed. The values plotted on the map

were derived by subtracting 58,000 gammas from each corrected reading, to avoid the unnecessary plotting of large numbers.

RESULTS OF SURVEY

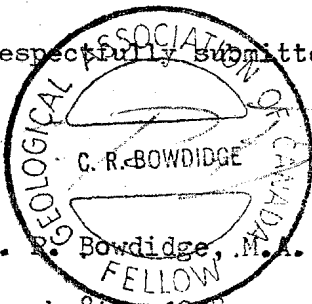
The accompanying magnetic map, at a scale of 400 ft. to the inch, shows the results of the survey. There are several discontinuous positive anomalies, up to 2000 gammas in amplitude, with associated flanking negatives. These anomalies may be provisionally ascribed to mafic and possibly magnetite-bearing bands in the gneiss complex. They clearly show the structural trends, which are in general accord with those inferred from air photos. There is no distinct anomaly associated with the main group of showings, so that the survey is not capable of helping to delimit the mineralized area.

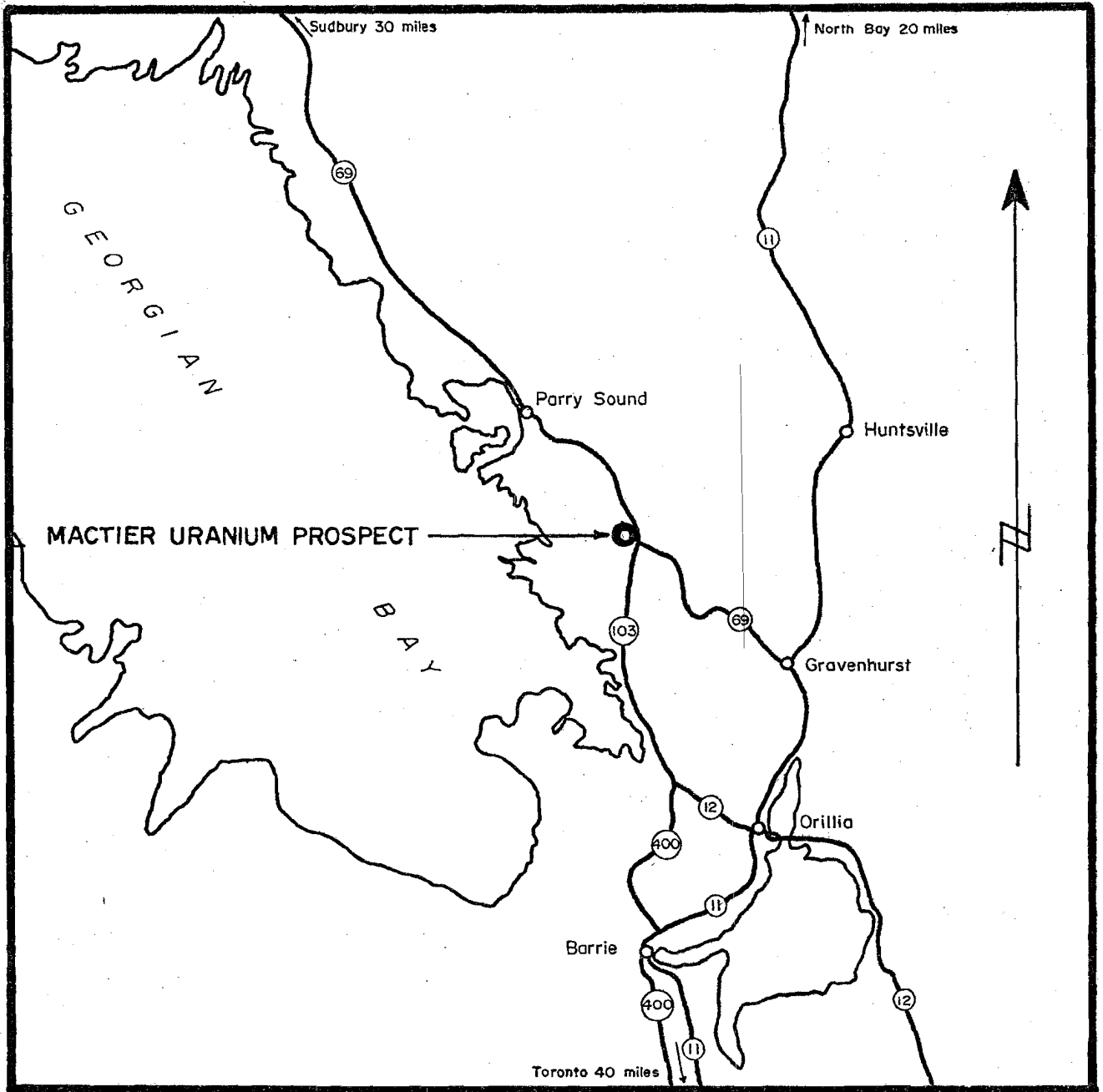
Respectfully submitted,

C. R. BOWDIDGE

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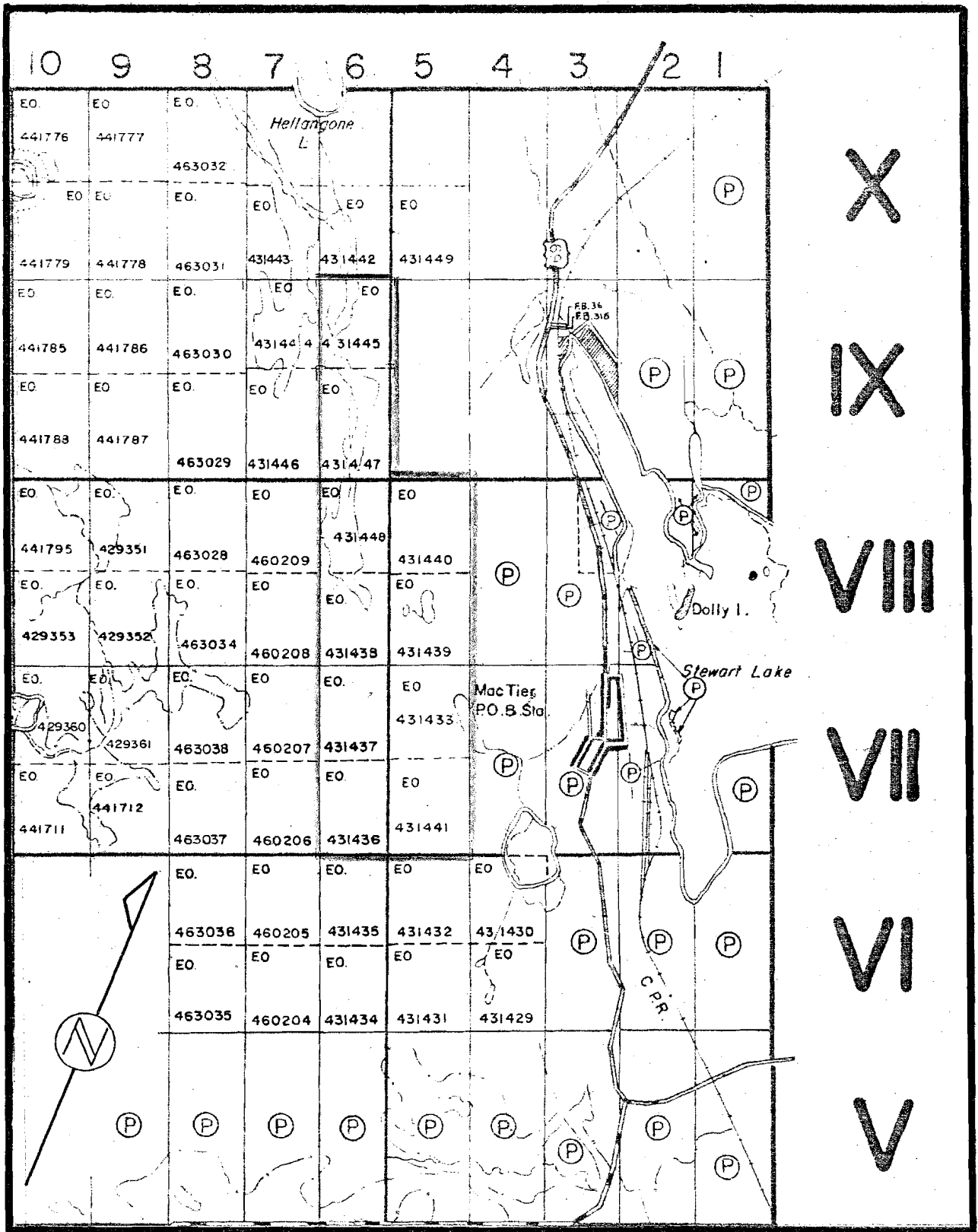
March 8th, 1978



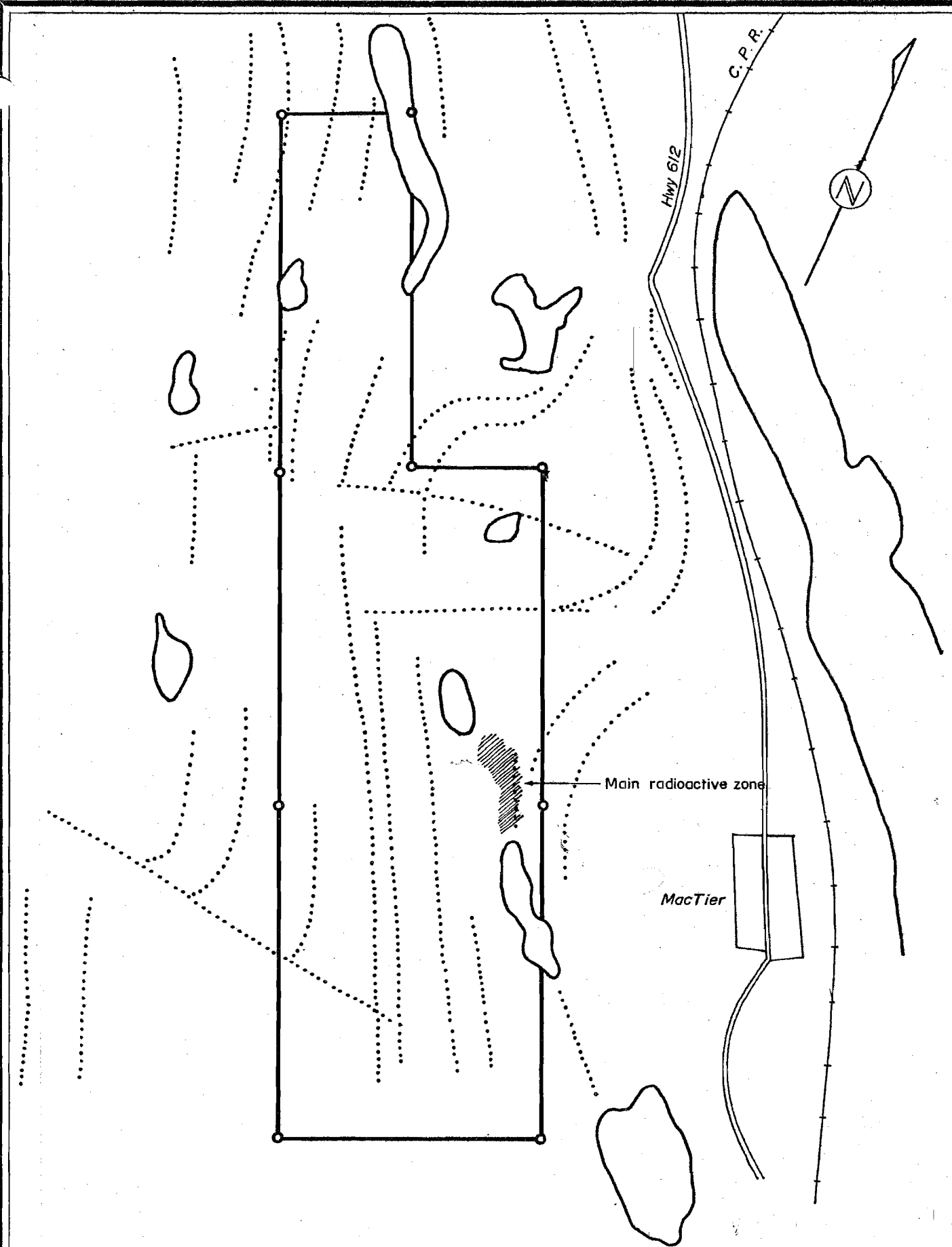


LOCATION MAP

SCALE: 1 inch to 20 miles



MACTIER URANIUM PROSPECT: CLAIM MAP
 (NORTHEAST PORTION OF FREEMAN TOWNSHIP)
 FROM ONTARIO M.N.R. CLAIM MAP M-1600
 SCALE: 1 inch equals 2640 feet



MACTIER URANIUM PROSPECT
AIR PHOTO LINEAMENTS
SCALE: 4 inches to 1 mile