



42A06NE0380 2.4251 SHAW

010

**GEOPHYSICAL SURVEY**

on the

**SHAW #1 GROUP**

Hollinger Mines Limited  
Shaw Township, Ontario

**RECEIVED**

**OCT 30 1981**

**MINING LANDS SECTION**

Timmins, Ontario  
October 22, 1981

J.E. Mountjoy

## INTRODUCTION

Line cutting was carried out during the period May 5, 1980 to June 20, 1980 over 43 contiguous claims in Shaw Township, District of Cochrane, in the Porcupine Mining Division, Province of Ontario.

An electromagnetic survey was filed for assessment credits on October 27, 1980 by Hollinger Argus Limited.

During the period February 27 - June 19, 1981, a magnetic survey was carried out over 30 contiguous claims in Shaw Township.

## PROPERTY, LOCATION and ACCESS

The portion of Group #1, Shaw Township, consists of 30 contiguous claims covered by the survey. The claims extend west from the township line in Carman Township and lie in the surveyed portion of the township of Shaw and include lots 1, 2, and 3 in Concessions IV and V of Shaw Township.

The claims are located approximately 12 miles S.E. of the city of Timmins and can be reached by car or an all-weather road from South Porcupine.

## TOPOGRAPHY

The claims are located in a hilly outcrop area with local swamp and sand cover. Numerous logging roads extend over part of the claim group.

## GEOLOGY

The chief rock outcrop is pillowed and amygdaloidal andesite locally bleached and carbonitized. Numerous narrow iron formations are known to outcrop along the entire length of the claim group.

Local diabase dykes and intrusives such as diorite and porphyry are present on the claim group.

Most of the formations strike northwest and dip 20°-45° southeast. These rocks appear to be part of the Shaw domal structure.

## SURVEY METHOD

Using a Geometrics G-816 Proton magnetometer, readings were taken at 25 meter intervals along existing grid lines which were cut at 100 meter intervals.

Repeated base stations were established along the base line and tie lines at the intersections with the cross lines. Loops were then read between the bases and the drift applied to all the readings. The operators were H.Z. Tittley, D. Laforest, as well as the author, all of the city of Timmins in the province of Ontario.

## SURVEY RESULTS

Results of the survey are plotted and contoured on the accompanying map entitled Magnetic Survey, Shaw No. 1, on a scale of 1:2400 (1 inch = 200 feet).

With a background of 59,000 gammas, the magnetic relief varies between minus 2000 and plus 5000 gammas.

As a result of the magnetic survey, seventeen anomalies have been outlined. The anomalies are lettered A-Q.

Anomalies A and B are interpreted to be caused by sulphide-rich siliceous iron formation found in the mafic metavolcanics of the Deloro Group (Redstone Formation). Both anomalies have conductors closely associated with them.

Anomalies C,D,E,F,G,H,I,J,K,L,M and N are interpreted to represent Iron Formation.

Electromagnetic conductors are known to correspond with magnetic anomalies C to N inclusive. Anomalies C to N inclusive are interpreted to be in the intermediate meta-volcanics of the Deloro Group (Boomerang Formation).

The Goose Lake fault zone has been outlined by the magnetic survey (see Figure #1). The fault zone follows the magnetic lows roughly from west north west to east south east across the entire property. The location of the fault zone is supported or confirmed by the electromagnetic survey previously filed by Hollinger Argus Limited.

The Goose Lake fault has also been mapped by Carlson (1966). The Goose Lake fault is believed to separate the Deloro Group to the south and the younger Tisdale Group to the north.

Anomalies O, P and Q are interpreted to be the ultra-mafic metavolcanics of the Tisdale Group (Goose Lake Formation).


From previous mapping by Carlson (1966), a diabase dyke trending north north west to south south east across the entire property has been shown. From our magnetic survey this diabase dyke is not clearly defined.

#### CONCLUSIONS and RECOMMENDATIONS

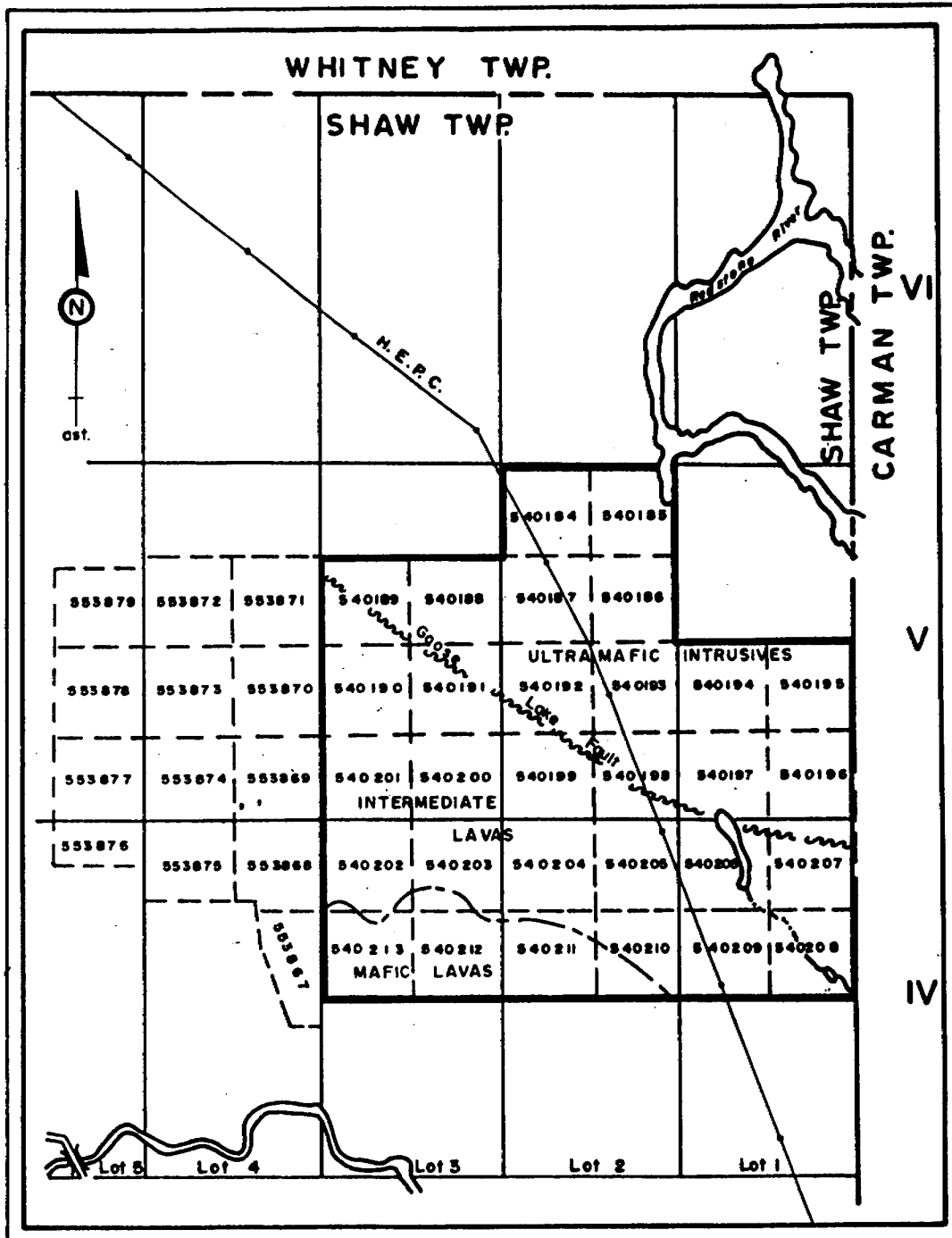
The survey successfully outlined the geological units and their extent under the overburden. However, detailed

mapping using existing grid lines is recommended.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J. E. Mountjoy".

J. E. Mountjoy.



Scale : 1 inch to 40 chains

FIG. No. 1



TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geophysical Magnetic
Township or Area Shaw Township
Claim Holder(s) Hollinger Argus Limited
Box 320, Timmins, Ontario P4N 7E2
Survey Company Hollinger Argus Limited
Author of Report J. E. Mountjoy
Address of Author c/o Box 320, Timmins, Ont.
Covering Dates of Survey Feb.27-June 19, 1981
(linecutting to office)
Total Miles of Line Cut

MINING CLAIMS TRAVERSED
List numerically
Table with columns for (prefix) and (number) containing claim numbers P.540184 through P.540203 and a total of 30 claims.

SPECIAL PROVISIONS CREDITS REQUESTED
Table with columns for Geophysical and Geological methods and DAYS per claim. Includes entries for Electromagnetic (20 days), Magnetometer, Radiometric, and Other.

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Oct. 22, 1981 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications

Previous Surveys
Table with columns: File No., Type, Date, Claim Holder

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 1797 Number of Readings 2364

Station interval 25 metres Line spacing 120 metres

Profile scale N/A

Contour interval 0-1000 gammas = 100 gammas, 1000-5000 gammas = 1000 gammas, greater than 5000 gammas = 5000 gammas, less than 0 gammas = 500 gammas.

MAGNETIC

Instrument Geometrics G-816 Proton magnetomer No. EC001

Accuracy - Scale constant ± 1 gamma

Diurnal correction method Closed Loops

Base Station check-in interval (hours) 0.5

Base Station location and value L 1440E/0+00 Base Line = 59256 gammas, L 960E/700N T.L. = 59286 gammas, L 120E/700N T.L. = 59425 gammas.

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method: [ ] Fixed transmitter [ ] Shoot back [ ] In line [ ] Parallel line

Frequency (specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

Instrument

Method [ ] Time Domain [ ] Frequency Domain

Parameters - On time Frequency

- Off time Range

- Delay time

- Integration time

Power

Electrode array

Electrode spacing

Type of electrode

INDUCED POLARIZATION RESISTIVITY





Ministry of Natural Resources

File \_\_\_\_\_

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

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MINING CLAIMS SECTION

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Survey Company Hollinger Argus Limited  
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Address of Author c/o Box 320, Timmins, Ont.  
Covering Dates of Survey Feb.27-June 19, 1981  
(linecutting to office)  
Total Miles of Line Cut \_\_\_\_\_

MINING CLAIMS TRAVERSED  
List numerically

(prefix)	(number)
P.540184 ✓	P.540204 ✓
P.540185 ✓	P.540205 ✓
P.540186 ✓	P.540206 ✓
P.540187 ✓	P.540207 ✓
P.540188 ✓	P.540208 ✓
P.540189 ✓	P.540209 ✓
P.540190 ✓	P.540210 ✓
P.540191 ✓	P.540211 ✓
P.540192 ✓	P.540212 ✓
P.540193 ✓	P.540213 ✓
P.540194 ✓	
P.540195 ✓	
P.540196 ✓	
P.540197 ✓	
P.540198 ✓	
P.540199 ✓	
P.540200 ✓	
P.540201 ✓	
P.540202 ✓	
P.540203 ✓	

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic _____ -Magnetometer <u>20</u> -Radiometric _____
ENTER 20 days for each additional survey using same grid.	-Other _____ Geological _____ Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Oct. 22, 1981 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.3975

File No.	Type	Date	Claim Holder
			<u>L.O.</u>

TOTAL CLAIMS 30

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations 1797 Number of Readings 2364

Station interval 25 metres Line spacing 120 metres

Profile scale N/A

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MAGNETIC

Instrument Geometrics G-816 Proton magnetomer No. EC001

Accuracy - Scale constant ± 1 gamma

Diurnal correction method Closed Loops

Base Station check-in interval (hours) 0.5

Base Station location and value L 1440E/0+00 Base Line = 59256 gammas, L 960E/700N T.L. = 59286 gammas, L 120E/700N T.L. = 59425 gammas.

ELECTROMAGNETIC

Instrument

Coil configuration

Coil separation

Accuracy

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency (specify V.L.F. station)

Parameters measured

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION

RESISTIVITY

Instrument

Method  Time Domain  Frequency Domain

Parameters - On time Frequency

- Off time Range

- Delay time

- Integration time

Power

Electrode array

Electrode spacing

Type of electrode

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
District, Township	Double Track
Indian Reserve	Abandoned
Accruals	Turbine
Lot, Concession	Road
Approximate	Highway, County
Park Boundary	Township
Bridge	Access (road of doubtful
Road, Railroad	significance)
Building	Trail, Bush Road
Chimney	(overgrown alley)
Cliff, Pit, Pile	Rapids
Contours	Double line river
Interpreted	with multiple rapids
Approximate	Double line river
Depression	with multiple rapids
Control Points	Reservoir
Horizontal	River, Stream, Canal
Vertical	Approximate
Culvert	crossing
Falls	Location of flow
Double line river	Mark
Fence, Hedge, Wall	significant
Feature Outline	road
(Construction Features, etc.)	Spot Elevation
Flooded Land	(true elevations) 300.0
Lock	Tower
Marsh or Swamp	Transmission Line
Mast	Poles
Mine Head Frame	Pylons
Outcrop	Tunnel
	Utility Poles
	Wharf, Dock, Pier
	Wooded Area

AREAS WITHDRAWN FROM DISPOSITION

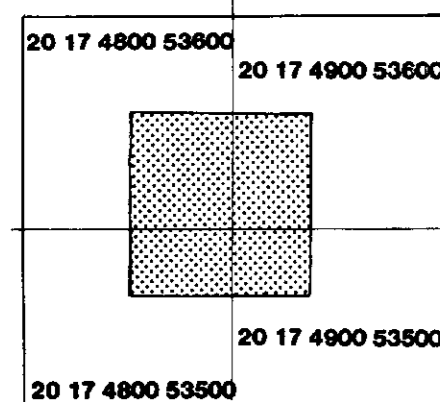
S.R. - SURFACE RIGHTS M.R. - MINING RIGHTS

Description	Order No.	Date	Disposition	File
Rec. Prop.	Sec 3, PLA			188543
	W 97/77	15/12/77	S.R.O.	86555

SAND AND GRAVEL

GRAVEL	53666
GRAVEL	68760

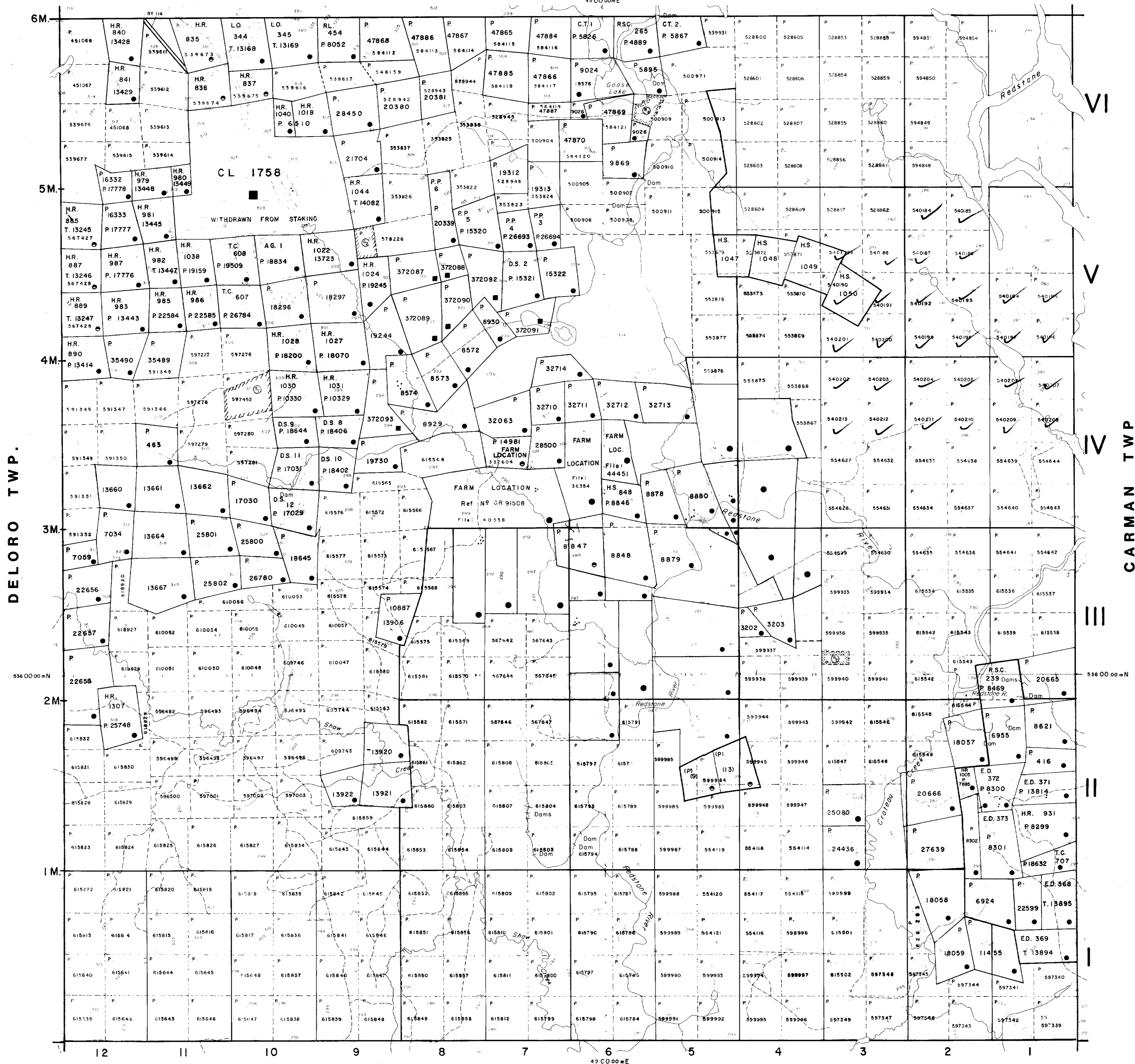
KEY PLAN For O.B.M. Map



200

not to scale

WHITNEY TWP.



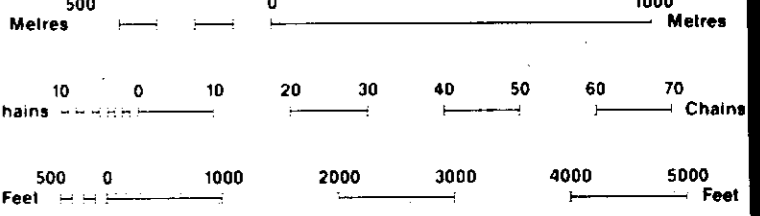
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKIEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 380, SEC. 63, SUBSEC. 1.



SCALE 1:20 000

DATE OF ISSUE  
DEC - 3 1981  
Ministry of Natural Resources  
TORONTO

24251.

TOWNSHIP  
**SHAW**  
M.N.R. ADMINISTRATIVE DISTRICT  
**TIMMINS**  
MINING DIVISION  
**PORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**COCHRANE**

Ministry of Natural Resources  
Land Management Branch  
Ontario

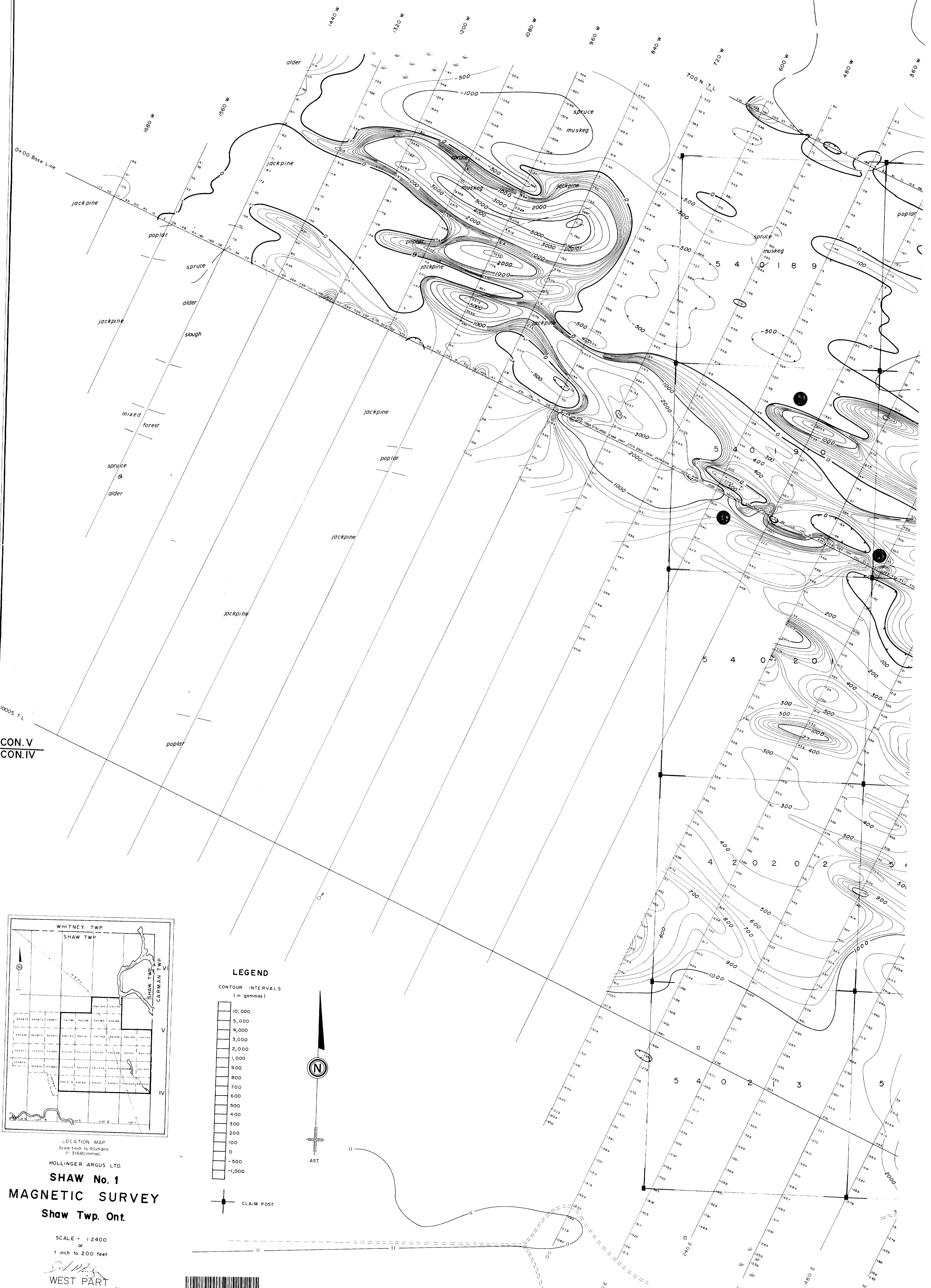
Date SEPT. 1981 Number **G-3999**



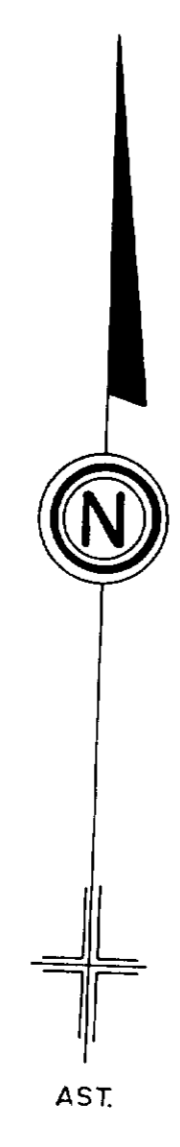
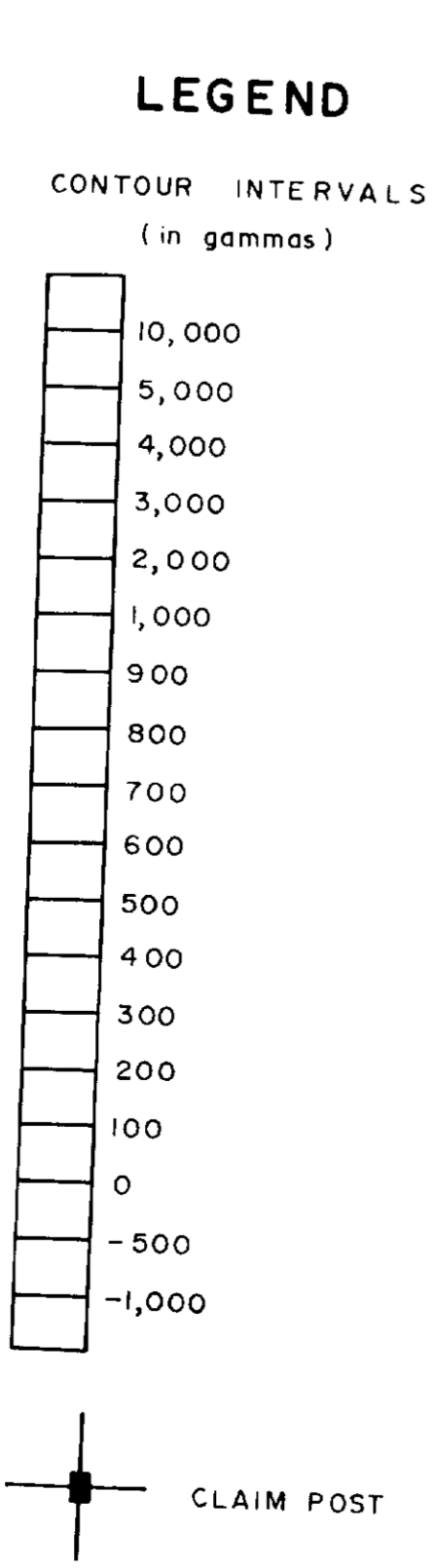
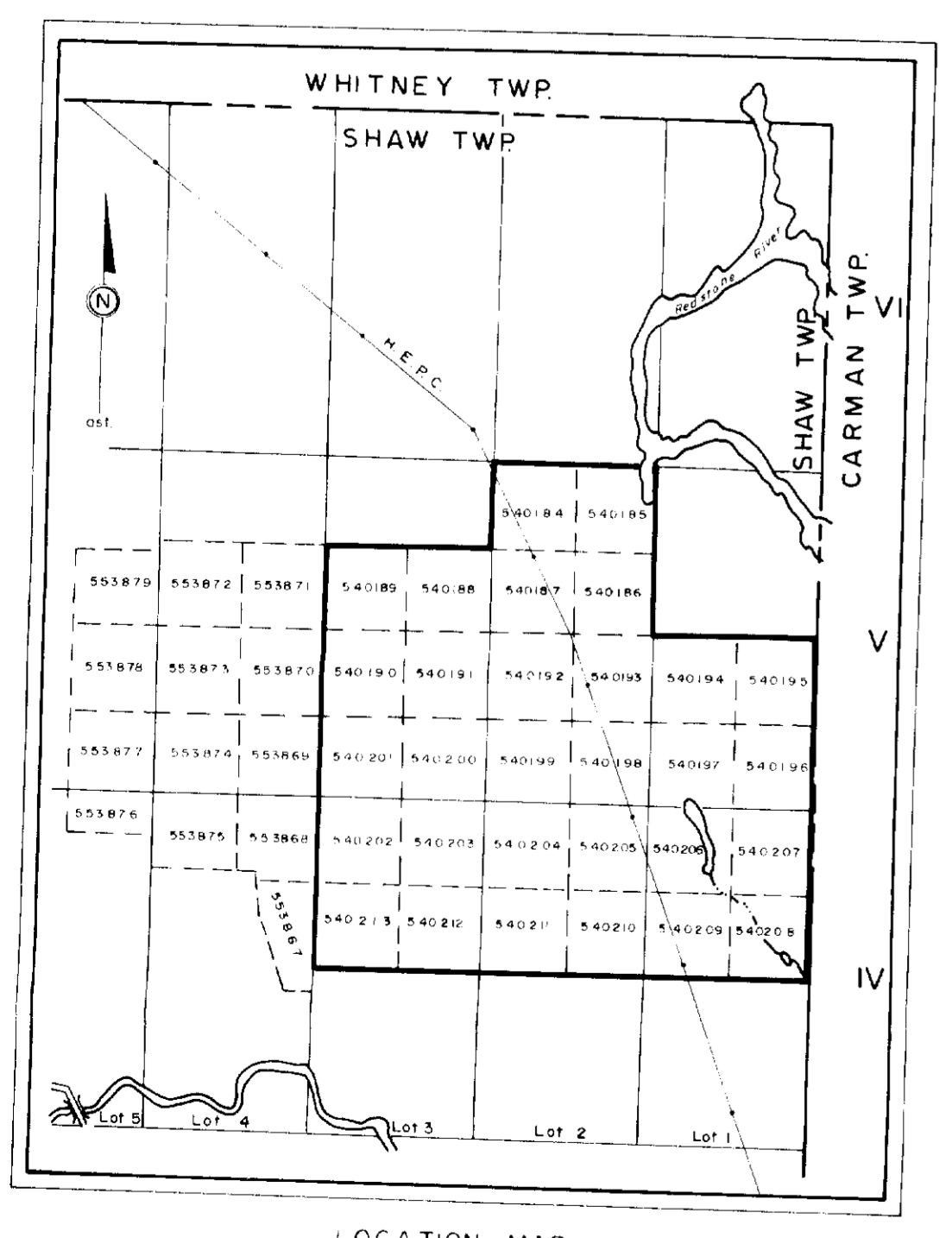
LOT 5 | LOT 4

LOT 4 | LOT 3

CON. VI  
CON. V



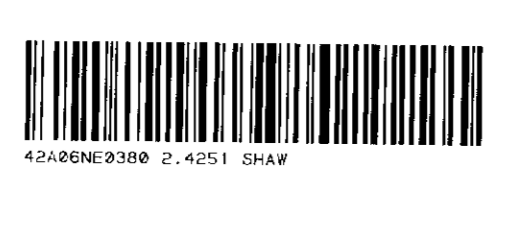
CON. V  
CON. IV



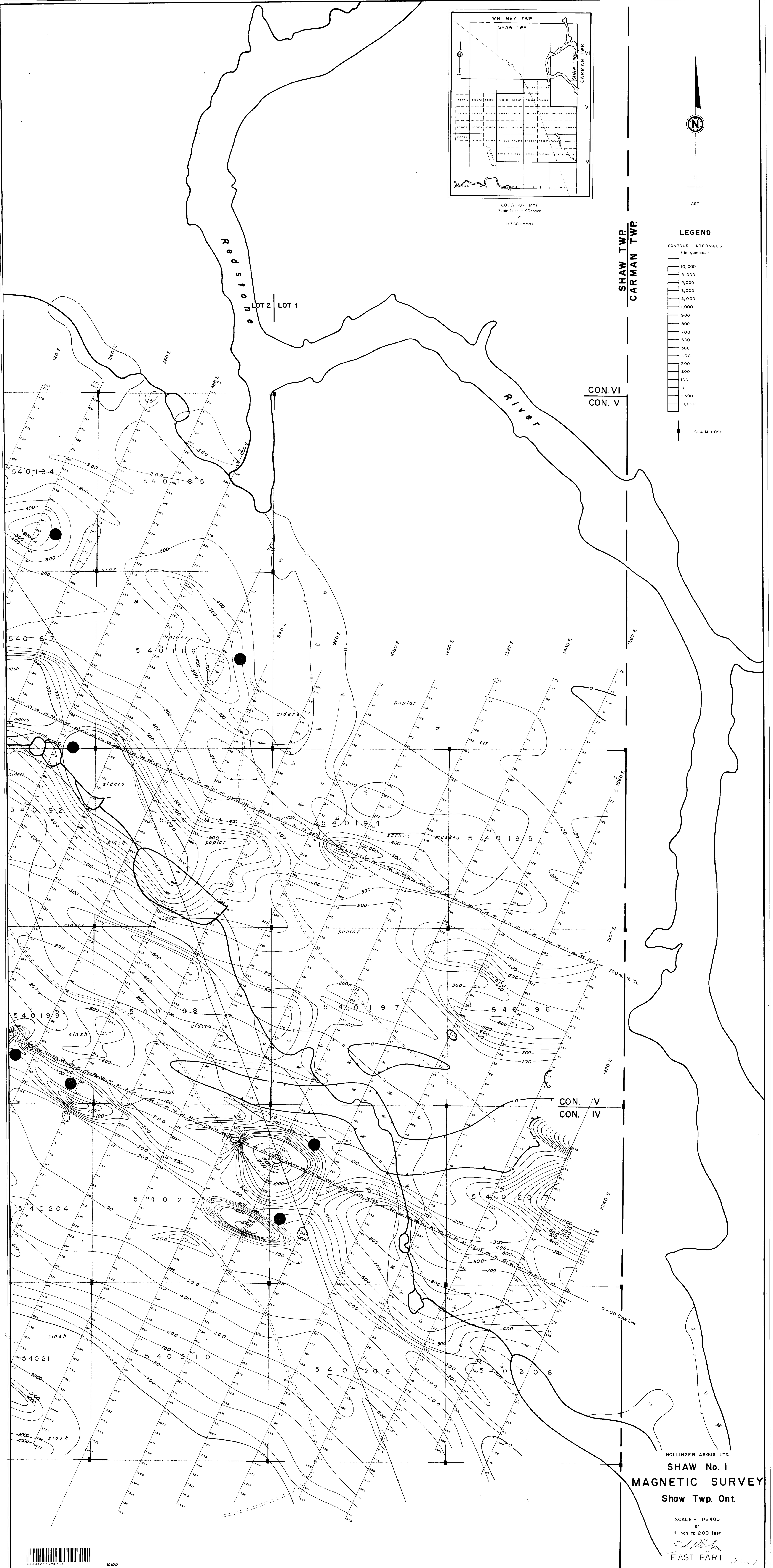
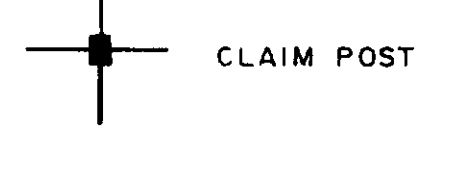
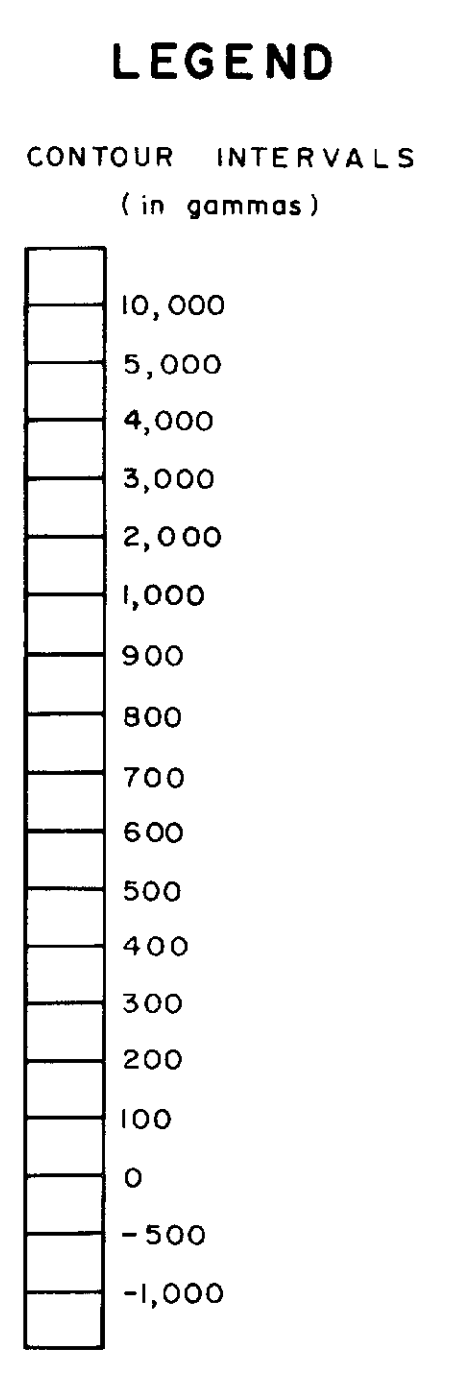
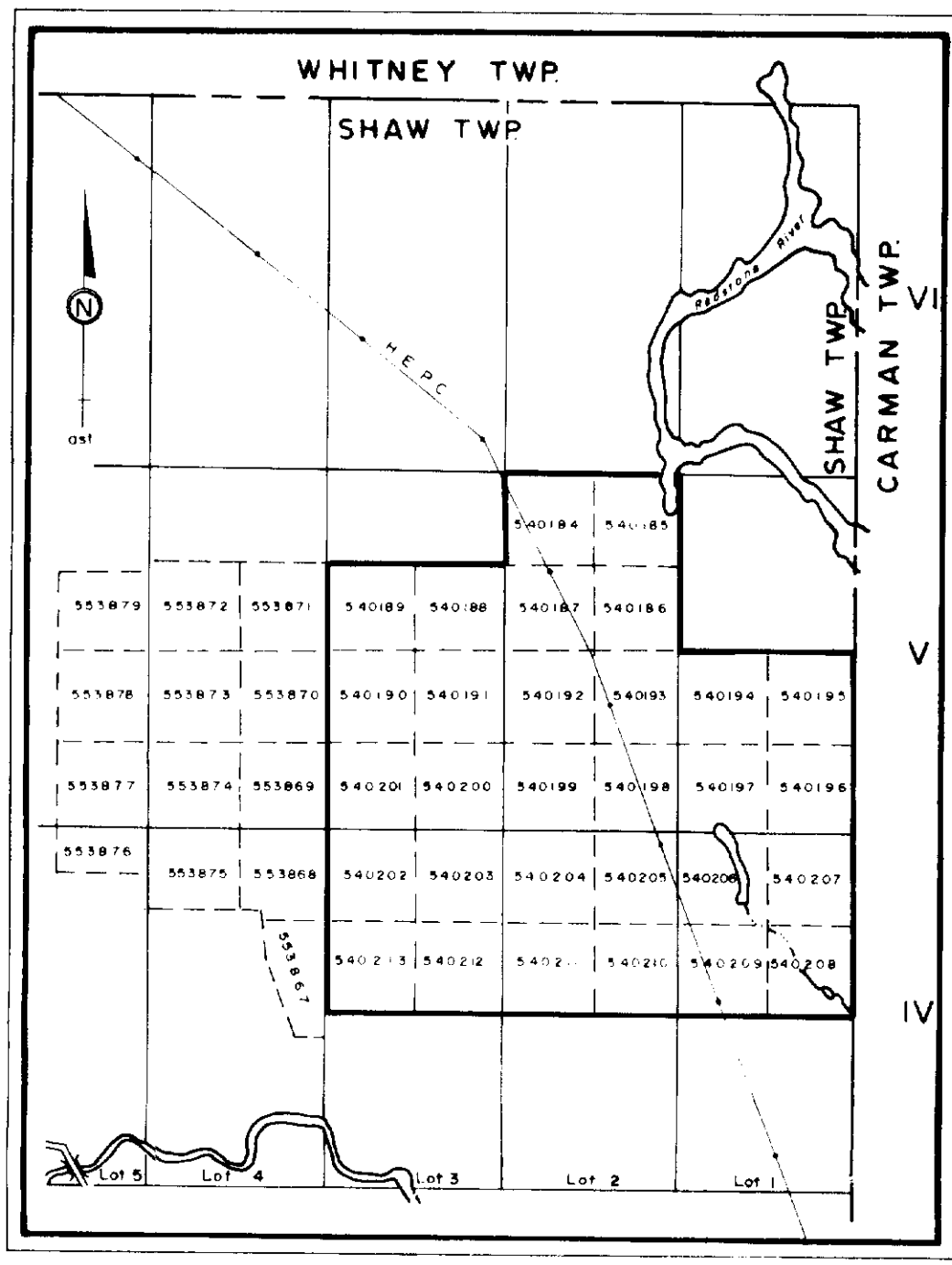
HOLLINGER ARGUS LTD.  
**SHAW No. 1**  
**MAGNETIC SURVEY**  
Shaw Twp. Ont.

SCALE = 1:2400  
or  
1 inch to 200 feet

WEST PART







SHAW TWP.  
CARMAN TWP.

CON. VI  
CON. V

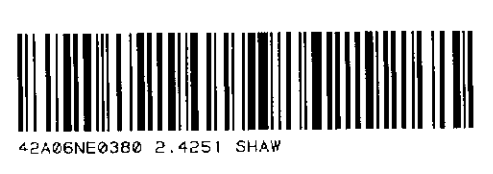
CON. V  
CON. IV

0 + 00 Base Line

HOLLINGER ARGUS LTD.  
**SHAW No. 1**  
**MAGNETIC SURVEY**  
Shaw Twp. Ont.

SCALE - 1:2400  
or  
1 inch to 200 feet

*[Signature]*  
EAST PART





LOT 4 | LOT 3

LOT 3 | LOT 2

