



42A06NE0377 2.4375 SHAW

010

2.4375

GEOPHYSICAL SURVEY
on the
SHAW #2 and #3 GROUPS
SHAW TOWNSHIP, Ontario

Hollinger Argus Limited

RECEIVED

DEC 9 1981

MINING LANDS SECTION

Timmins, Ontario
November 22, 1981

J.E. Mountjoy

INTRODUCTION

During the period between October 21, 1980 and October 16, 1981 a magnetic survey was carried out over the Brown-McDade Option (Shaw #3 Group) and the Max Option (Shaw #2 Group). These options are in Shaw Township, District of Cochrane, in the Porcupine Mining Division, Province of Ontario. A geological survey is also being filed for assessment credits at this time.

The property was initially optioned to examine gold occurrences associated with sulphide rich banded iron formations.

PROPERTY, LOCATION and ACCESS

The Brown-McDade Option (Shaw #3 Group) consists of fifteen contiguous unpatented mining claims, numbered P.451066-P.1068 inclusive, P.539611-P.539617 inclusive and P.539673-P.539677 inclusive. The Max Option (Shaw #2 Group) consists of 2 patented claims, numbered HR1018 and HR1040. Both groups (Shaw #2 and #3) are found in lots 9, 10, 11 and 12, Con. VI, Shaw Township, Porcupine Mining Division, Province of Ontario.

The east section of Shaw #3 Group and the Shaw # Group are easily accessible via an all weather gravel road from South Porcupine, Ontario. The west section of the Shaw #3 Group is easily accessible via Dome's gravel pit road.

PREVIOUS WORK

Numerous trenches and pits have been observed on the two groups. It is believed that some of these were worked more than fifty years ago, as there has been active exploration in the area since the early nineteen hundreds. In fact the first claims in Shaw Township were staked in 1906. A moderate amount of work done on the claims that make up the Shaw #3 Group, has been filed for assessment.

M and M Porcupine Gold Mines Ltd filed airborne magnetometer and electromagnetic surveys in 1965.

Augdome Corporation Ltd filed a ground magnetic survey and three diamond drill holes in 1966.

In 1977 ground magnetic and electromagnetic surveys were filed by J.P. Larche on the J. Helpert property in Shaw

Township.

Hollinger Argus Ltd filed the results of two drill holes on the Shaw #3 Group in February 1981.

GENERAL GEOLOGY

Shaw #2 and #3 Groups are located in the north central portion of a large elliptical feature known as the Shaw Dome. The property is believed to be underlain by intermediate flows and pyroclastics of Keewatin age. The government preliminary map¹ indicates that some pillowed flows are present in the north-west section of the Shaw #3 Group. The direction of tops is shown to be ENE. From the author's mapping the Keewatin flows strike roughly ESE and dip between 18° and 48° to the NNW. Outcrops of banded iron formation and a mafic intrusive have been mapped on the property.

A quartz diabase dyke, believed to be of Matachewan age and an olivene diabase dyke, believed to be of Keweenawan age have also been mapped. The author has interpreted five lineations which cross the Shaw #2 and #3 Groups as faults. Two of these trend NE, two trend N and one trends to the NW.

SURVEY METHOD

Using a Geometrics Proton Magnetometer G816, readings were taken at 25 meter intervals along existing grid lines which were cut at 30.48 meter intervals.

Base stations were established along the base lines at intersections with cross lines. Loops were then read between the bases and the drift applied to all the readings. The operators were G. Tremblay and D. Laforest, both 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.'s 2, 3. The scale used is 1:2400 (1 inch = 200 feet)

¹ p.343 Shaw Township. Mapped by H.D. Carlson, 1964, 1965.

With a background of 59,000 the magnetic relief varies between minus 2530 (56,470) and plus 4629 (63,629) gammas.

As a result of the magnetic survey, twenty nine anomalies have been outlined. The anomalies are numbered 1 to 29 inclusive on the accompanying plan.

Anomalies 1 and 2 are believed to be caused by a quartz diabase dyke interpreted to be of Matachewan age. This dyke has been mapped by the author and was found to be strongly magnetic in outcrop.

Anomaly number 3 is interpreted to represent a locally magnetic olivene diabase dyke which has been intersected in a nearby drill hole and mapped in the field.

Anomalies 4 and 5 both show anomalously low values. The powerline running concurrent to the Dome gravel pit road causes interference and is only recorded on XL28E (Anomaly #4). Number 5 is believed to be caused by electrical machinery inside the Tisdale Water Supply filter plant located near L24W/0+00BL.

The cause of anomalies 6 and 7 are unknown. They maybe due to a buried iron formation or a local concentration of magnetite. Mapping completed by the author has been unable to clearly explain these anomalies, although there is an outcrop of gabbro near anomaly 7.

Anomalies 8 through 28 (inclusive) are all interpreted to be caused by magnetite-rich banded iron formation found within the intermediate metavolcanics of the Deloro Group. The iron formation believed to cause anomalies 11 and 15 were intersected with the diamond drill holes completed by Augdome Corporation Ltd in 1966. The iron formations represented by anomalies 21 and 22 were intersected in a diamond drill hole contracted by Hollinger Argus Ltd in 1981. Anomalies 20 and 21 have been mapped by the author as iron formation in 1981. Anomaly 29 is believed to be caused by a local concentration of magnetite in a tuffaceous unit of andesitic composition.

From the geological survey recently completed by the author, five faults have been mapped. All except the one which trends NW across the eastern portion of the property are located

in areas of magnetic lows. The north trending fault in the west portion of the property between cross lines 16E and 12E appears to have a dextral displacement. This is based on the assumption that the three magnetic highs which make up anomaly number 11 were one continuous bed of iron formation prior to the development of the north trending fault.

CONCLUSIONS and RECOMMENDATIONS

The survey has successfully outlined the geological units, particularly the discontinuous magnetite-rich banded iron formations and their extent when covered by overburden.

Given the status of the property and the nature of the very erratic gold values obtained, primarily in the banded iron formation, further work does not appear warranted at this time.

Respectfully submitted



J.E. Mountjoy

ASSESSMENT WORK DETAILS



Type of Survey GEOPHYSICAL - MAGNETIC
Township or Area SHAW TOWNSHIP

42A06NE0377 2.4375 SHAW

900

Chief Line Cutter _____
or Contractor _____
Name _____
Address _____

Party Chief DENIS LAFOREST
Name _____
P.O. Box 320, Timmins, Ont. P4N 7E2
Address _____

Consultant _____
Name _____
Address _____

Geological field mapping by _____
Name _____
Address _____

COVERING DATES

Line Cutting _____
Field October 21, 1980 to October 16, 1981
Instrument work, geological mapping, sampling etc.
Office November 20 to December 1, 1981

INSTRUMENT DATA

Make, Model and Type Geometrics G816 Proton Mag.
Scale Constant or Sensitivity 1 gamma
Or provide copy of instrument data from Manufacturer's brochure.
Radiometric Background Count 59,000 gammas
Number of Stations Within Claim Group 698
Number of Readings Within Claim Group 1,021
Number of Miles of Line cut Within Claim Group _____
Number of Samples Collected Within Claim Group _____

CREDITS REQUESTED

	<u>20 DAYS</u> per claim	<u>40 DAYS</u> per claim	----- Includes (Line cutting)
Geological Survey	<input type="checkbox"/>	<input type="checkbox"/>	
Geophysical Survey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Show Check ✓
Geochemical Survey	<input type="checkbox"/>	<input type="checkbox"/>	

DATE Dec. 2, 1981 SIGNED [Signature]

MINING CLAIMS TRAVERSED
List numerically

P. 539611
P. 539612
P. 539613
P. 539614
P. 539615
P. 539616
P. 539617
P. 539673
P. 539674
P. 539675
P. 539676
P. 539677
TOTAL CLAIMS <u>12</u>

RECEIVED
DEC - 9 1981
MINING LANDS SECTION

If space insufficient, attach list

Send in Duplicate to:
FRED W. MATTHEWS
SUPERVISOR-PROJECTS SECTION
DEPARTMENT OF MINES &
NORTHERN AFFAIRS
WHITNEY BLOCK
QUEEN'S PARK
TORONTO, ONTARIO

SUBMISSION OF GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL SURVEYS
AS ASSESSMENT WORK

In order to simplify the filing of geological, geochemical and ground geophysical surveys for assessment work, the Minister has approved the following procedure under Section 84 (8a) of the Ontario Mining Act. This special provision does not apply to airborne geophysical surveys.

If, in the opinion of the Minister, a ground geophysical survey meets the requirements prescribed for such a survey, including:

- (a) substantial and systematic coverage of each claim
- (b) line spacing not exceeding 400 foot intervals
- (c) stations not exceeding 100 foot intervals or
- (d) the average number of readings per claim not less than 40 readings

it will qualify for a credit of 40 assessment work days for each claim so covered. It will not be necessary for the applicant to furnish any data or breakdown concerning the persons employed in the survey except for the names and addresses of those in charge of the various phases (linecutting contractor, etc.). It will be assumed that the required number of man days were spent in producing the survey to qualify for the specified credit.

Each additional ground geophysical survey using the same grid system and otherwise meeting these requirements will qualify for an assessment work credit of 20 days.

A geological survey using the same grid system, and meeting the requirements for submission of geological surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geological survey a credit of 40 days per claim will be allowed for the survey.

Similarly, a geochemical survey using the same grid system with the average number of collected samples per claim being not less than 40 samples, and meeting the requirements for the submission of geochemical surveys for maximum credits, will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geochemical survey a credit of 40 days per claim will be allowed for the survey.

Credits for partial coverage or for surveys not meeting requirements for full credit will be granted on a pro-rata basis.

If the credits are reduced for any reason, a fifteen day Notice of Intent will be issued. During this period, the applicant may apply to the Mining Commissioner for relief if his claims are jeopardized for lack of work or, if he wishes, may file with the Department, normal assessment work breakdowns listing the names of the employees and the dates of work. The survey would then be re-assessed to determine if higher credits may be allowed under the provisions of subsections 8 and 9 of section 84 of the Mining Act.

If new breakdowns are not submitted, the Performance and Coverage credits are confirmed to the Mining Recorder at the end of the fifteen days.

MINING COMMISSION

RECEIVED
DEC 10 1982

2.4375

1982 11 04

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Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Geophysical (Magnetometer) Survey on
Mining Claims P 539611 et al in the
Township of Shaw

The Geophysical (Magnetometer) Survey assessment work credits as listed with my Notice of Intent dated September 7, 1982 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:sc

cc: Hollinger Argus Limited
Timmins, Ontario

cc: Resident Geologist
Timmins, Ontario



Ministry of
Natural
Resources

Ontario

SEPT 28, 82

Your file:

Our file: 2.4375

September 7, 1982

Mr. William L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

Yours very truly,

E.F. Anderson
Director
Lands Administration Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

/em

Encl.

cc: Hollinger Argus Limited
Timmins, Ontario

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

2.4375

September 7, 1982

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Recorded Holder
HOLLINGER ARGUS LIMITED

Township or Area
Shaw Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic _____ days</p> <p>Magnetometer <u>20</u> days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Section 86 (18) _____ days</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>P 539611 to 17 inclusive P 539673 to 77 inclusive</p>

Special credits under section 86 (15a) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

P 546159

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:



Ontario

539611

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

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NOV - 3 1981

MINING LANDS SECTION

Date of recording of work: October 29, 1981

Recorded holder: Hollinger Argus Limited

Address: Box 320, Timmins, Ontario P4N 7E2

Township or Area: Shaw Township

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	P-539611 to 617 Incl. P-539673 to 677 Incl. P-546159
Electromagnetic _____ days	
Magnetometer <u>20</u> <u>2.4375</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Section <u>77 19</u> <u>85 (18)</u> days	
Geological <u>20</u> days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.

Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Raymond A. ...
Mining recorder

c.c. Hollinger Argus Limited



Ministry of
Natural
Resources

RECEIVED

1982 07 05

JUL 22 1982

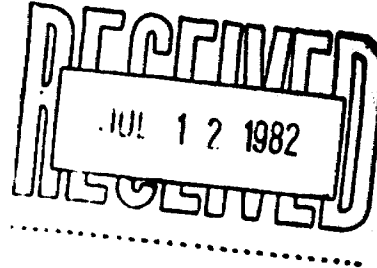
Your file:

Our file: 2.4375

MINING LANDS SECTION

Hollinger Argus Limited
P.O. Box 320
Timmins, Ontario
P4N 7E2

Attn: Mr. G.O. Wallace



Dear Sir:

**RE: Geophysical (Magnetometer) Survey submitted
on Mining Claims P 539611 et al, in the
Township of Shaw**

Enclosed is the map (in duplicate) for the above-mentioned survey. Please have Mr. J.E. Mountjoy sign these and return them to this office.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

mt A. Barr/amc

Encl.

cc: Mining Recorder
Timmins, Ontario

July 19/82

Returned as instructed

G. O. Wallace

1982 07 05

2.4375

Hollinger Argus Limited
P.O. Box 320
Timmins, Ontario
P4N 7E2

Attn: Mr. G.O. Wallace

Dear Sir:

RE: Geophysical (Magnetometer) Survey submitted
on Mining Claims P 539611 et al, in the
Township of Shaw

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For further information, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1316

A. Barr/amc

Encl.

cc: Mining Recorder
Timmins, Ontario



Mining Lands Comments

- map not signed.

To: Geophysics

Mr Barlow.

Comments

map not signed

Approved

Wish to see again with corrections

Date

June 15/82

Signature

[Signature]

To: Geology - Expenditures

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

December 18, 1981

2.4375

Office of the Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical
(Magnetometer) Survey submitted under Special Provisions
(credit for Performance and Coverage) on Mining Claims
P.539611 et al, in the Township of Shaw.

This material will be examined and assessed and a statement
of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

J. Skura/bk

cc: Hollinger Argus Limited
Timmins, Ontario
Attention: G.W. Wallace

HOLLINGER ARGUS LIMITED

P.O. BOX 320
TIMMINS, ONTARIO P4N 7E2

TELEPHONE: (705) 264-1313

December 4, 1981

RECEIVED
DEC 9 1981
MINING LANDS SECTION

RECEIVED	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
DEC - 9 1981	
E. F. ANDERSON	
J. R. MORTON	
J. C. SMITH	
W. GOOD	
V. LEONARD	
J. M. SWALL	
RETURN TO R. 6450	

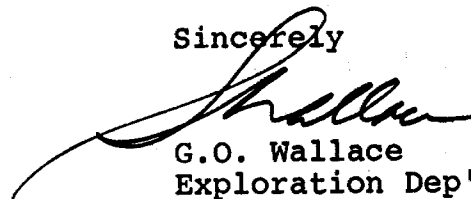
E.F. Anderson
Director, Lands Administration Branch
Ministry of Natural Resources
Whitney Block, Queen's Park
TORONTO, Ontario
M7A 1X1

Dear Sir:

Re: 12 claims Shaw Township
P.539611 et al

Please find enclosed duplicate copies of a Geological and Magnetic Survey and technical data sheets on the above 12 claims, showing the distribution of assessment days as a result of the two surveys.

Sincerely


G.O. Wallace
Exploration Dep't.

Qual. on file.

2.3975

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (above ground)
Boundary	Railroad
International	Single Track
District, Township	Double Track
Indian Reserve	Abandoned
Approach	Road
Lot, Concession	Unimproved
Approach	Highway, County
Post Boundary	Township
Bridge	Access (road of doubtful maintenance or significant driveway)
Road, Railroad	Trail, Bush Road (storage alley)
Building	Rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Double line river with multiple rapids
Cutouts	Interpreted
Interpreted	Approximate
Approximate	Depression
Control Points	Control Points
Horizontal 40-774051	Horizontal 0-500-02
Vertical 0-500-02	Vertical
Culvert	Falls
Falls	Double line river
Double line river	Fence, Hedge, Wall
Fence, Hedge, Wall	Feature Outline
Feature Outline	Construction features, etc.
Flooded Land	Lock
Lock	Marsh or Swamp
Marsh or Swamp	Moat
Moat	Mine Head Frame
Mine Head Frame	Outcrop
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

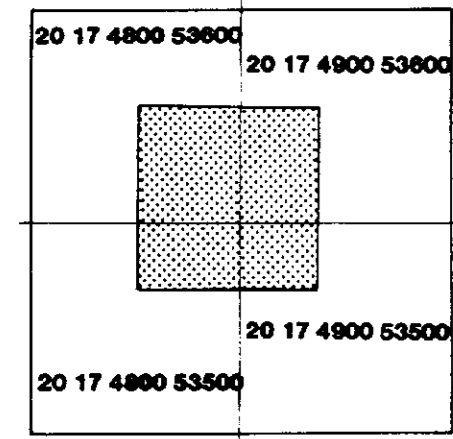
S.R. - SURFACE RIGHTS		M.R. - MINING RIGHTS	
Description	Order No.	Date	Disposition
Rec. Prop.	Sec. 3 P.L.A.	189543	
	W. 97-77	15/12/77	S.R.O. 86555

SAND AND GRAVEL

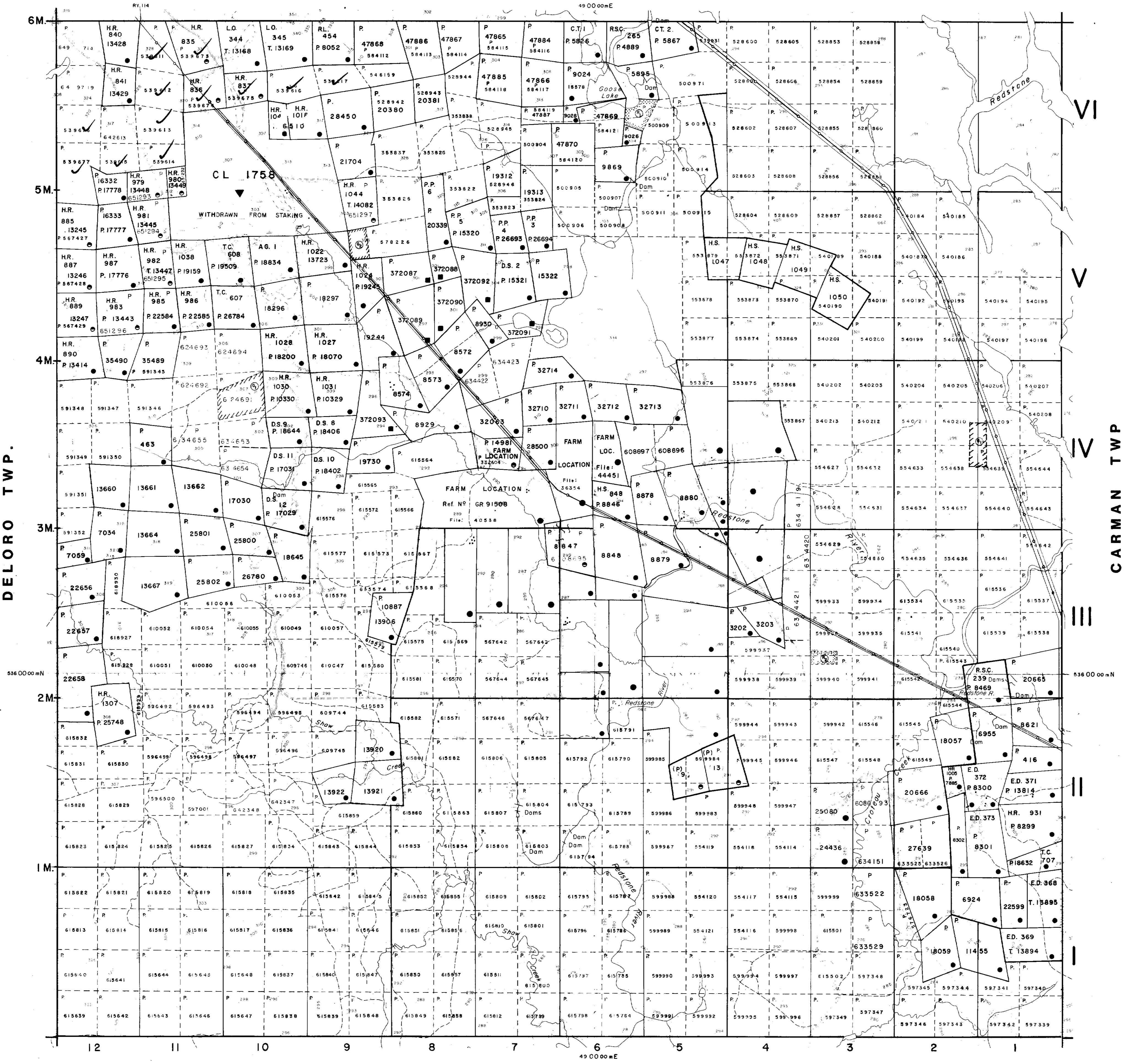
GRAVEL	55666
GRAVEL	68760

KEY PLAN

For O.B.M. Map



WHITNEY TWP.



ELDORADO TWP.

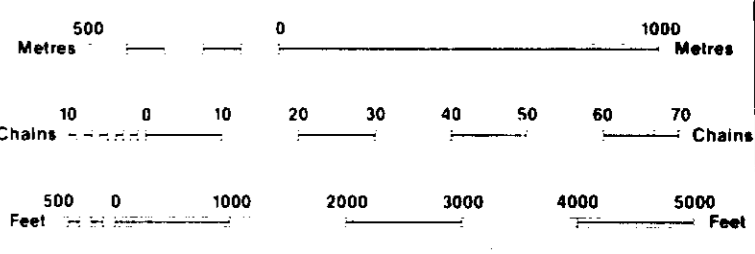
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
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 MUSKEG	
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 PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



SCALE 1:20 000

DATE OF ISSUE
JUL 29 1982
Ministry of Natural Resources
TORONTO

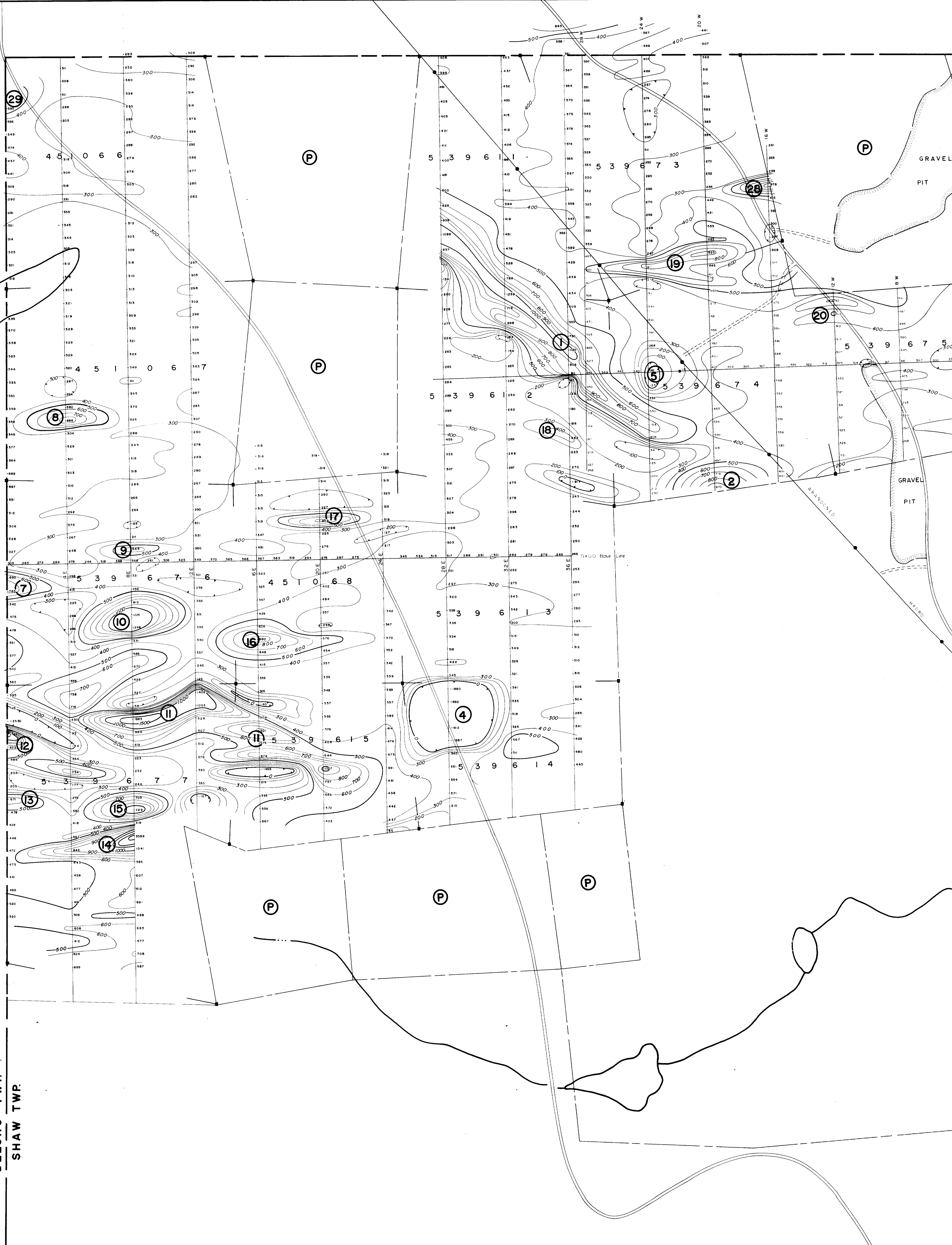
TOWNSHIP
SHAW
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
Land Management Branch
Ontario

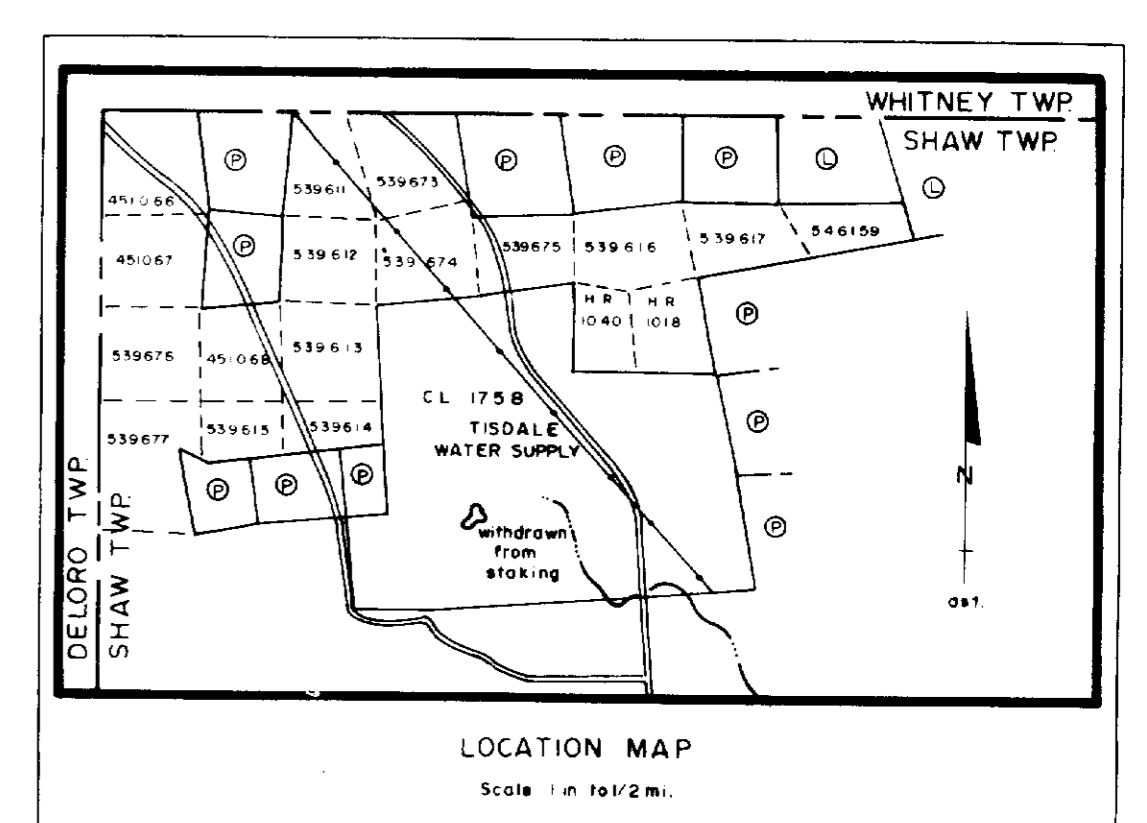
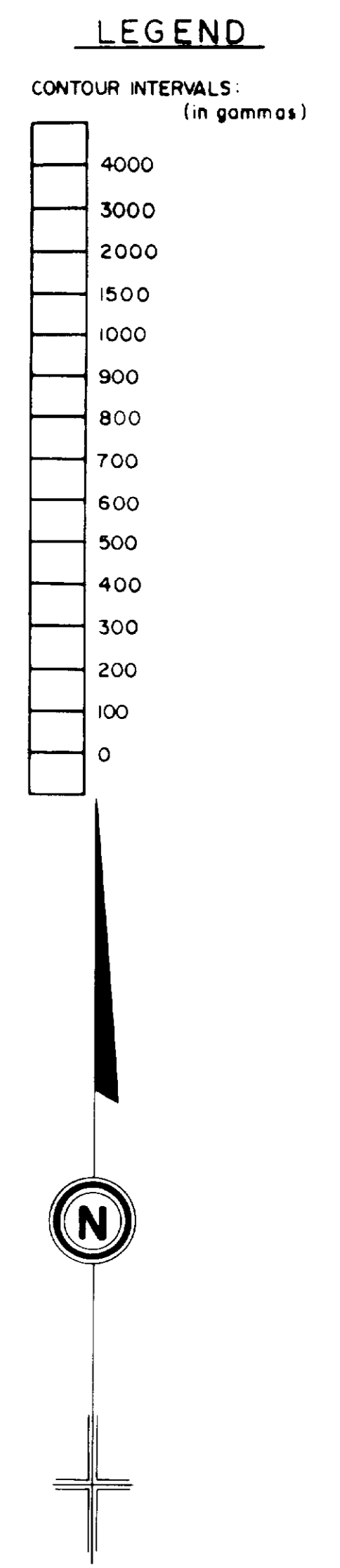
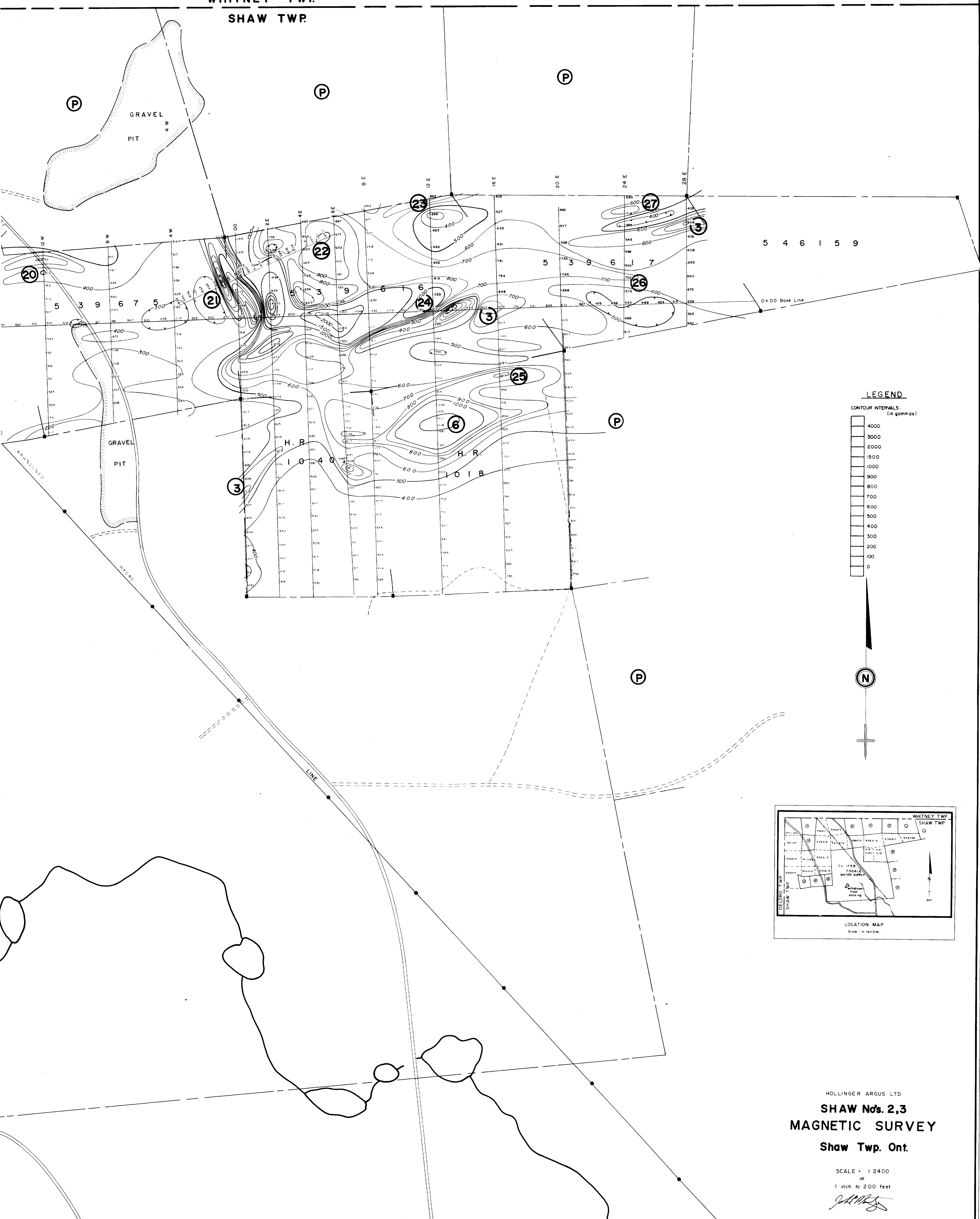
Date 1981
Number
G-3999

24375

DE LORO TWP.
SHAW TWP.



WHITNEY TWP
SHAW TWP



HOLLINGER ARGUS LTD
SHAW Nos. 2,3
MAGNETIC SURVEY
Shaw Twp. Ont.

SCALE = 1:2400
or
1 inch to 200 feet

[Signature]

DRAWN BY: W. B. Coughlin