



32004SE0075 2.6277 MCFADDEN

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REPORT ON
GEOLOGICAL SURVEY
HEARST & MCFADDEN TOWNSHIPS
ONTARIO

Qual 2.1102 by
R.A. MacGregor, P. Eng.

January 6, 1984

RECEIVED

JAN 17 1984

MINING LANDS SECTION

REPORT ON GEOLOGICAL SURVEY

HEARST AND MCFADDEN TOWNSHIPS, ONTARIO

I. INTRODUCTION

A geological survey was carried out during July to November 1983 over lines cut in the winter of 1980. Results are shown on the enclosed plan.

II. LOCATION, ACCESS AND OWNERSHIP

The claims covered by the survey are located in the south east part of Hearst Township, and south west part of McFadden Township.

There are forty claims numbered L511686 to 511692; L523353 to 523355; L523451 to 523456; L532821 to 532827; L532831 to 532835; L548643 to 548653 all inclusive and L523194 recorded in the names of R.A. MacGregor, 134 Palace Drive, Sault Ste. Marie, Ontario and Superior Northwest Inc., Box 1110, Sault Ste. Marie, Ontario.

Access to the property is obtained by travelling south from Larder Lake, Ontario about 4 miles on Highway 624 and then following seasonal road for about 2 miles to the old Martin-Bird Mine. The claims may be reached from here by following geophysical lines and trails to the south-east.

III. PREVIOUS EXPLORATION

There was probably considerable prospecting in the past when the Martin-Bird mine to the northwest was in operation during the 1930's. Some pits were noted during the survey, but parts of the area have been logged over, and grown up to dense brush or covered by a tangle of brush and dead balsam trees since that time. Nothing is known of the previous work.

Previous Exploration (Continued)

About 3/4 of a mile to the north-east is the Martin-Bird Mine on which underground work was carried out and ore grade material reportedly developed during the 1930's. Lac Minerals Limited is currently continuing development work on this property.

Adjoining the claims to the west is a block of claims owned by Combined Larder Mines Ltd. They also own a second block of claims which adjoins to the south and also the west on which development work was carried out including the sinking of some shallow shafts before 1910. Recently some stripping and geophysical surveys have been carried out, but nothing is known of past or current results.

IV. TOPOGRAPHY

The major part of the claims are covered by swamp or Pleistocene drift. Rocky hills rising steeply out of the swamp from 10 to 50 feet above the surrounding swamp have rock exposure around the edges or on the higher parts with small cliff faces. Even in these higher areas the rock is obscured by moss or drift up to several feet thick. Swamp areas are covered by a dense growth of tag alders, small black spruce, tamarack and cedar with some balsam in the drier parts. Most of the creeks are flooded by beaver ponds. Higher ground was covered by balsam which has died allowing a dense underbrush to grow up among the fallen dead trees. Traversing and locating outcrop is very difficult in this terrain.

V. SURVEY PROCEDURE

A grid line was laid out across the property with a base line running about S 40 ° E across the property.

V. Survey Procedure (Continued)

Crosslines were cut perpendicular to the baseline at 400-foot intervals. The picket lines were marked with fluorescent red paint for easier observation. Trial lines were run east and west from the picket lines by pace and compass in search of poorly exposed outcrop. All outcrops were noted in a field book as to rock type and distance from picket lines. This information was then plotted on a 1" = 400' scale plan.

VI. GEOLOGY

The general geology of Hearst and the west part of McFadden Township have been described by J.E. Thomson ⁽¹⁾. A later survey of McFadden Township and Rattray Township to the south was carried out in 1978 by Z.L. Mandziuk ⁽²⁾.

The claims are underlain by a volcanic-sedimentary sequence of rocks cut by small to medium sized intrusions of felsic to mafic composition. Some small areas are overlain by later sedimentary rocks.

The rocks appear to have an approximate north-south trend, but are folded around the nose of a porphyry intrusion in the south-west part of the claims.

The volcanic rocks are basic fine to medium grained, green to dark green in colour. Pillow lavas are the predominate group.

(1) O.D.M. Report Vol. 56 part 8 1947

(2) O.G.S. Report 204, 1980

Geology (Continued)

In places the volcanics have been altered to chlorite schist with carbonatization. The best example of this is on claim L548644.

The sediments consist largely of fine grained greywackes with some coarser arkosic interbeds. Due to extensive drift cover, even in areas of outcrop, it is difficult to trace any individual bed. Interbedded with the greywacke is a black graphitic argillite or tuff. Geophysical surveys indicate that this same graphitic material probably underlies some of the drift areas.

Intrusives consist of feldspar porphyries, lamprophyre and associated basic syenite and some diorite and gabbro dykes. The feldspar porphyries range from coarse grained with reddish feldspar phenocrysts to 3mm in a dark green fine grained matrix to a fine grained greenish to grey rock. They may be extrusive flows. A distinctive coarse grained porphyry with white feldspar phenocrysts to 5 mm in a reddish finer grained matrix occurs on line 72 SE at 36 to 38 SW as a steep cliff face. To the north east the porphyry is silicified finer grained and mineralized with pyrite. Relationships between the fine and coarse grained phases is obscured by extensive overburden.

Lamprophyres are characterized by uneven weathering and black biotite. They occur mainly as dykes cutting both syenites and greywackes. In larger outcrops they appear to grade into basic syenites.

Geology (Continued)

In the eastern part of the property, mainly from the township boundary east there are a number of basic syenite intrusions associated with lamprophyre. Carbonatization appears to be associated with these intrusions. Relationships are obscured by the extensive overburden in the east section of the property.

There is one outcrop of Huronian greywackes of the Cobalt series in the east part of the property. These greywackes are more massive than the older greywackes, usually finer grained and weather to a lighter colour. Huronian sediments are known to outcrop further to the north of the property. The large drift covered area in the north of the east part of the property may well be underlain by Huronian sediments.

VII. CONCLUSIONS

The geological survey shows a volcanic-sedimentary sequence of rocks intruded by feldspar porphyries and basic syenites. The geological setting is similar to that of the Martin-Bird property to the north-west on which ore grade material has been reported.

Some samples taken during the survey show anomalous amounts of gold. The most favourable areas for further prospecting are the silicified porphyries, particularly along the contacts with the sediments, and areas of carbonatization.

Respectfully submitted



Robert A. MacGregor, P. Eng.

January 6, 1984

CERTIFICATE

I, Robert A. MacGregor, certify:

1. I am a Mining Engineer residing at 134 Palace Drive, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 17 years.
2. I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.
3. I attended Queen's University for two years in the Mining-Geology course.
4. I personally carried out or supervised the field work on the subject claims.

... Jan 6/07 ...
Date

...  ...
R.A. MacGregor



Lands Admin

Ministry of
Natural
Resources
Ontario

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

2.6i



320645E0075 2.6277 MCFADDEN

900

File L511684 #373

The Mining and Management Branch in the "Expend. Days Cr." columns.
Do not use shaded areas below.

Type of Survey(s) Geological	CIRCULATE COMMENTS PLEASE BY	Township or Area Hearst & McFadden
Claim Holder(s) R.A. MacGregor	Prospector's Licence No. K-15070	
Address 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5	Date of Survey (from & to) NOV 25 1983	
Survey Company Colex Explorations Inc.	Day Mo Yr 15 83	Total Miles of line Cut 30
Name and Address of Author (of Geo-Technical report) R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ont. P6B 5H5	J. C. SMITH	

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L	511686	✓	L	548649	
	511687	✓		548650	
	511688	✓		548651	
	511689			548652	
	511690			548653	
	511691				
	511692				
	523194	✓			
	523353	✓			
	523354	✓			
	523355	✓			
	523451	✓			
	523452	✓			
	523453	✓			
	523454	✓			
	523455	✓			
	523456	✓			
	548643	✓			
	548644	✓			
	548645	✓			
	548646				
	548647				
	548648				

LAKELAKE
MINING
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OCT 31 1983

RECEIVED
NOV 20 1983
MINING LA

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **28**

Date **Oct. 26/83** Recorded Holder or Agent (Signature) *MacGregor*

For Office Use Only

Total Days Cr. Recorded **NOV 14 1983** Mining Recorder *[Signature]*

Date Approved as Recorded **84.4.3** *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5

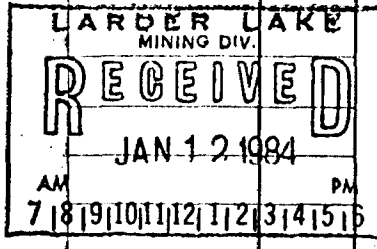
Date Certified **Oct. 26/83** Certified by (Signature) *[Signature]*

Type of Survey(s) GEOLOGICAL		Township or Area Hearst	
Claim Holder R.A. MacGregor		Prospector's Licence No. K-15070	
Address 134 Palace Dr. SAULT STE. MARIE, Ontario P6B 5H5			
Survey Company Colex Explorations Inc.		Total Miles of line Cut 2 miles	
Date of Survey (from & to)		Day Mo 83 Day Mo 84	
Name and Address of Author (of Geo-Technical report) R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5			

Credits Requested per Each Claim in Columns at right		
Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	40
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)			Mining Claim			Expend. Days Cr.		
Prefix	Number		Prefix	Number		Prefix	Number	Expend. Days Cr.
L	532831							
	532832							

JAN 23 1984
MINING LAND SECTION



Total number of mining claims covered by this report of work. **2**

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded JAN 12 1984	Mining Recorder
80	Date Approved as Recorded 84.4.3	Branch Director

Date **Jan. 9/84** Recorded Holder or Agent (Signature)

Certification Verifying Report of Work
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5

Date Certified **Jan. 9/84** Certified by (Signature)



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Instructions: - Please type or print. *Mar. 13th*
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

11/84
The Mining Act 2.6276

Type of Survey(s) **Geological** Township or Area **Greenlaw, Denyes, Halcrow and Towns Townships**

Claim Holder(s) **Collingwood Energy Inc.** Prospector's Licence No. **T-1498**

Address **403 - 595 Howe Street, Vancouver, B.C.**

Survey Company **David R. Bell Geological Services Inc.** Date of Survey (from & to) **30 Day | 9 Mo. | 83 Yr. | 29 Day | 12 Mo. | 83 Yr.** Total Miles of line Cut

Name and Address of Author (of Geo-Technical report) **Stephen Conquer 251 Third Ave., Suite 4, Timmins, Ontario P4N 7J5**

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric - Other	
	Geological	20
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic - Magnetometer - Radiometric - Other	Days per Claim
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic - Magnetometer - Radiometric - Other	Days per Claim
	Geological	
	Geochemical	
Expenditures (excludes power stripping)		
Type of Work Performed		
Performed on Claim(s)		
Calculation of Expenditure Days Credits		
Total Expenditures \$	+	15 = Total Days Credits

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P.	626 707		P	663 107	✓
	626 708			663 108	✓
	642 187			663 109	✓
	642 188			663 110	✓
	642 189			663 111	
	642 190			663 118	
	642 867			663 119	
	642 868			663 126	
	661 596			663 127	
	661 597			663 128	
	661 598			663 129	
	661 599			663 130	
	661 600			663 131	
	661 601			663 132	
	663 098			663 133	
	663 099	✓		663 134	
	663 100	✓		663 135	
	663 101			688 581	✓
	663 102	✓		688 582	✓
	663 103	✓		688 583	✓
	663 104	✓		688 584	✓
	663 105	✓		688 591	✓
	663 106	✓		688 592	✓

Total number of mining claims covered by this report of work. **48**

Date **Dec 28, 1983** Recorded Holder or Agent (Signature) *Stephen Conquer*

For Office Use Only

Total Days Cr. Recorded **960** Date Recorded **Jan 13/84** Mining Reporter *[Signature]*

Date Approved as Recorded **84.4.3** Inspector *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying **Stephen Conquer c/o David R. Bell Geological Services Inc. 251 Third Ave. Suite 4 Timmins, Ontario P4N 7J5**

Date Certified **Dec 28 1983** Certified by (Signature) *Stephen Conquer*



Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act

Type of Survey(s) Geological	Township or Area Greenlaw, Denny's, Halcyon and James Townships
Claim Holder(s) Collingwood Energy Inc.	Prospector's Licence No. T-1498
Address 403-595 Howe Street, Vancouver, B.C.	
Survey Company David R. Bell Geological Services Inc.	Date of Survey (from & to) 30 Day 9 Mo. 23 Yr. 29 Day 12 Mo. 23 Yr.
Name and Address of Author (of Geo-Technical report) Stephen Conquer, 251 Third Ave., Suite 4, Timmins, Ontario	

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	20
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.		
	Magnetometer	

RECEIVED
 REGISTRATION DIVISION
 JAN 13 1984 P.M.
 A.M. 7, 8, 9, 10, 11, 12, 1, 2, 8, 4, 5, 6

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	688593				
	688594				

Total number of mining claims covered by this report of work. **48**

Expenditures (excludes power tripping)	RECEIVED
Type of Work Performed	
Performed on Claim(s)	
Calculation of Expenditure Days Credits Total Expenditures \$ <input type="text"/> + <input type="text" value="15"/> = <input type="text"/> Total Days Credits	
Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	Mining Recorder
Date Approved as Recorded	Branch Director	

Date **Dec 28, 1983** Recorded Holder or Agent (Signature) *Stephen Conquer*

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying Stephen Conquer c/o David R. Bell Geological Services Inc. 251 Third Ave. Suite 4, Timmins Ontario P4N 7J5		
Date Certified Dec 29, 1983	Certified by (Signature) <i>Stephen Conquer</i>	

File 2532821

man. 24th

#25

Type of Survey(s): **GEOLOGICAL** 2.6277 Township or Area: **HEARST & MCFADDEN**

Claim Holder: **SUPERIOR NORTHWEST INC.** Prospector's Licence No.: **T-626**

Address: **P.O. Box 1110, SAULT STE. MARIE, Ontario**

Survey Company: **Colex Explorations Inc.** Date of Survey (from & to): Day **7** Mo. **83** Day **1** Mo. **84** Total Miles of line Cut: **8.5**

Name and Address of Author (of Geo-Technical report): **R.A. MacGregor, P. Eng., 134 Palace Dr., Sault Ste. Marie, Ontario**

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	532821				
	532822				
	532823				
	532824				
	532825				
	532826				
	532827				
	532833				
	532834				
	523835				

LARDER LAKE MINING DIV.
RECEIVED
 JAN 2 1984
 AM 7 18 19 10 11 12 12 3 14 15 16 PM

Expenditures (excludes power stripping): **RECEIVED**

Type of Work Performed: **MINING LANDS SECTION**

Performed on Claim(s): **FEB 3 1984**

Calculation of Expenditure Days Credits

Total Expenditures: \$ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: **10**

For Office Use Only

Total Days Cr. Recorded: **400** Date Recorded: **JAN 24 1984** Mining Recorder: *[Signature]*

Date Approved or Recorded: **84.4.6** Director: *[Signature]*

Jan. 19/84 Recorded Holder or Agency (Signature): *R.A. MacGregor*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **R.A. MacGregor 134 Palace Dr., Sault Ste. Marie, Ont.**

Date Certified: **Jan. 19/84** Certified by (Signature): *R.A. MacGregor*



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

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) GEOLOGICAL
Township or Area Hearst & McFadden Twps
Claim Holder(s) R.A. MacGregor
Superior Northwest Inc.
Survey Company Colex Explorations Inc.
Author of Report R.A. MacGregor
Address of Author 134 Palace Dr., S.S. Marie, Ont.
Covering Dates of Survey Feb. 1980 - Jan. 6, 1984
(linecutting to office)
Total Miles of Line Cut 32.29

MINING CLAIMS TRAVERSED
List numerically

L511686	L532827
(prefix)	(number)
L511687	L532831
L511688	L532832
L511689	L532833
L511690	L532834
L511691	L532835
L511692	L548643
L523353	L548644
L523354	L548645
L523355	L548646
L523451	L548647
L523452	L548648
L523453	L548649
L523454	L548650
L523455	L548651
L523456	L548652
L532821	L548653
L532822	L623194
L532823	
L532824	
L532825	
L532826	

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic	
-Magnetometer	
-Radiometric	
-Other	
Geological	40
Geochemical	

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Jan. 6/84 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 21102

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 40

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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



Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

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 _____



Mining Lands Comments

-okay-

To: Geophysics

Comments

Approved Wish to see again with corrections Date Signature

To: Geology - Expenditures *Mr. C. Kustra*

Comments

Approved Wish to see again with corrections Date *Feb. 1 84* Signature *C. Kustra*

To: Geochemistry

L.D.

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

Notice (date)

M. Andersen Jan 26, 84

Assessed

Approved Reports of Work
sent out

Notice of Intent filed

Approval after Notice of Intent
sent out

Duplicate sent to Resident
Geologist

Duplicate sent to A.F.R.O.

1984 01 19

Your File: 373

Our File: 2.6277

Mr. George J. Koleszar
Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geological survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 511686 et al in the Townships of Hearst and MacFadden.

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

Yours very truly,

J.R. Morton
Acting Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: R.A. MacGregor
134 Palace Drive
Sault Ste. Marie, Ontario
P6B 5H5

FROM THE DESK OF

Robert A. MacGregor

Jan. 12/84

Dear sirs -

Please find enclosed

2 copies each of Report on
Geological Survey Hearst &
Mc Ladden Traps.

& Magnetometer & VLF-EM
Survey - Mc Elroy Trap.

RECEIVED

JAN 17 1984

MINNESOTA LANDS DEPT.

Type of Survey(s) GEOLOGICAL		Township or Area Hearst	
Claim Holder(s) R.A. MacGregor		Prospector's Licence No. K-15070	
Address 134 Palace Dr. SAULT STE. MARIE, Ontario P6B 5H5			
Survey Company Colex Explorations Inc.		Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 7 83 1 84	Total Miles of line Cut 2 miles
Name and Address of Author (of Geo-Technical report) R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5			

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
L	532831				
	532832				

RECEIVED
JAN 17 1984
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed _____

Performed on Claim(s) _____

Calculation of Expenditure Days Credits

Total Expenditures	+	15	=	Total Days Credits
--------------------	---	----	---	--------------------

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **2**

For Office Use Only	
Total Days Cr. Recorded	Date Recorded
Date Approved as Recorded	Mining Recorder
	Branch Director

Date Jan. 9/84	Recorded Holder or Agent (Signature) <i>R.A. MacGregor</i>
--------------------------	---

Certification Verifying Report of Work
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
R.A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5

Date Certified Jan. 9/84	Certified by (Signature) <i>R.A. MacGregor</i>
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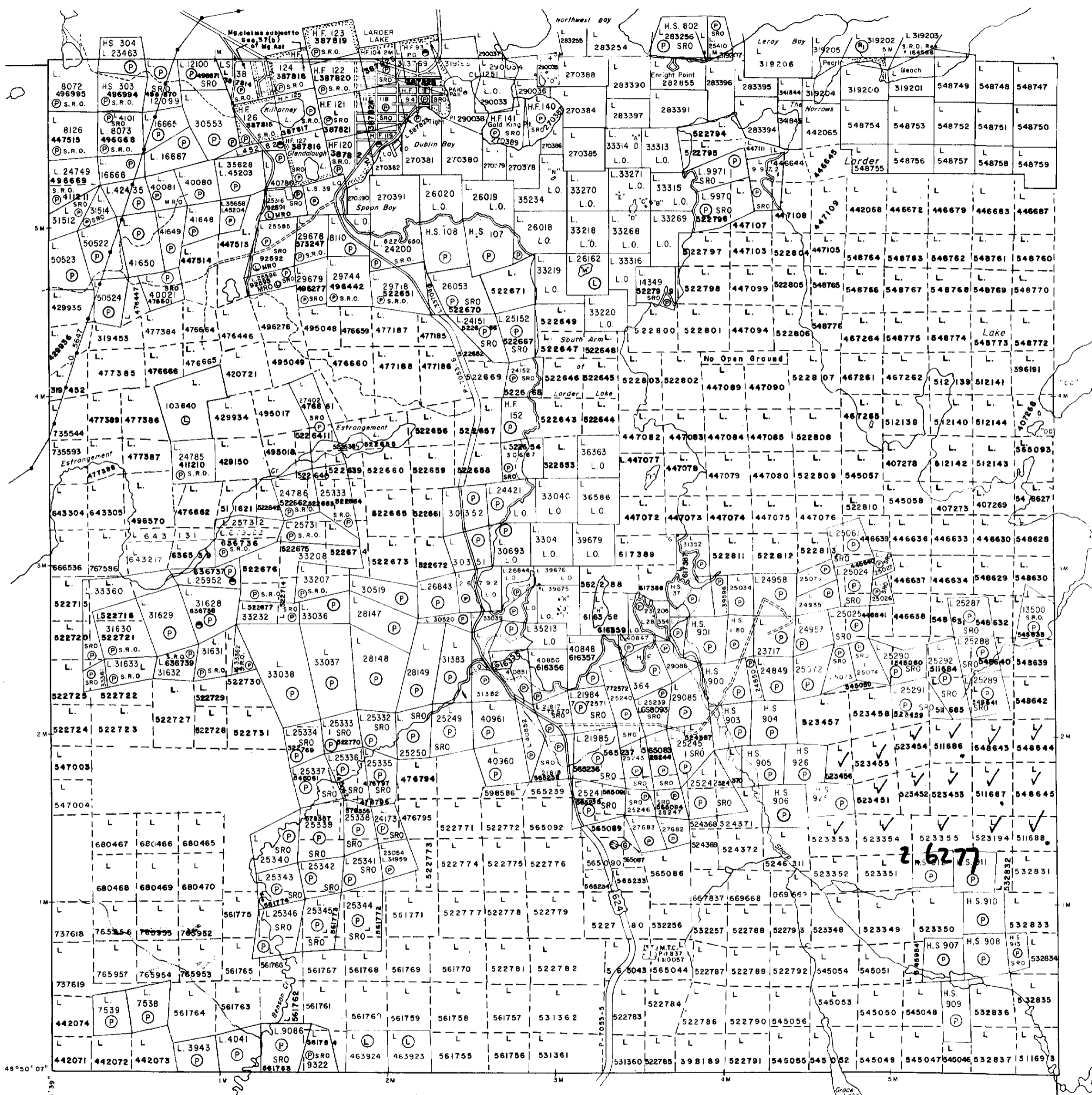
Geol

Geol

2.6277

LS11686	✓		L 532821	✓			
87	✓		22	✓			
88	✓		23	✓			
89	✓		24	✓			
90	✓		25	✓			
91	✓		26	✓			
92	✓		27	✓			
523194	✓		532833	✓			
523353	✓		34	✓			
54	✓		35	✓			
55	✓						
523451	✓						
52	✓						
53	✓						
54	✓						
55	✓						
56	✓						
532831	✓						
32	✓						
548643	✓						
49	✓						
45	✓						
46	✓						
47	✓						
48	✓						
49	✓						
50	✓						
51	✓						
52	✓						
53	✓						

McVITTIE TWP. M-370



SKEAD TWP. M-387

THE TOWNSHIP
OF
HEARST

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND ● or (P)
- CROWN LAND SALE C.S
- LEASES (L)
- LOCATED LAND Loc
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES —
- CANCELLED —
- PATENTED S.R.O. —

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers

Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP of LARDER LAKE File # 4282

Staking of mining claims within the Town of Larder Lake shown thus subject to Sec. 37(b) of the Mining Act (R.S.O. 1970).

SAND AND GRAVEL

- (Q) QUARRY PERMIT

Areas withdrawn from staking under Section 43 of the Mining Act (RSO1970)

OrderNo.	File	Date	Disposition
(N) W14/80NR.	164586	26/11/80	S.R.O.

DATE OF ISSUE

MAR 23 1984

Ministry of Natural Resources
TORONTO

PLAN NO. **M-354**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



NOTES

400' surface rights reservation along the shores of all lakes and rivers.

All unpatented mining claims accepted subject to survey, Section 118 of the Mining Act (R.S.O. 1970).

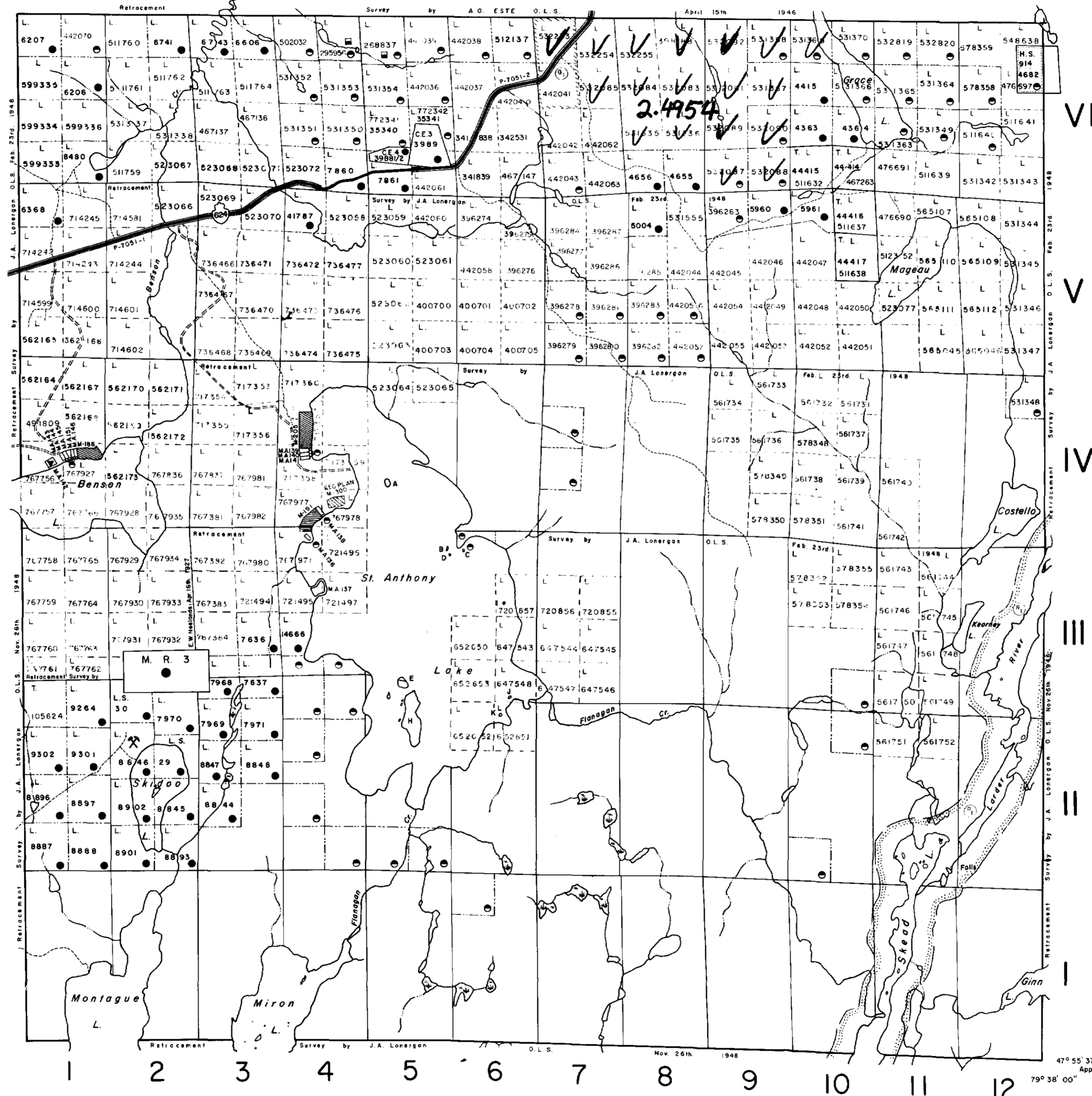
SAND and GRAVEL

⑨ M.T.C. PIT No. 1230

Areas withdrawn from staking under Sec 43 of the Mining Act

Order No	File	Date	Disposition
⑩ W11/79	188522	June 19 '79	surface & mining rights

HEARST TP. M.354



CATHARINE TP. M.336

RATRAY TP. M.384

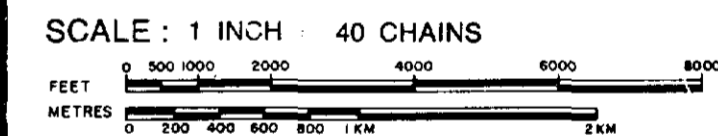
BAYLY TP. M.323

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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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	▼
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	①
CANCELLED	②
SAND & GRAVEL	③



ACRES	HECTARES
40	16

TOWNSHIP

SKEAD

DATE OF ISSUE

NOV 10 1988

DISTRICT

TIMISKAMING

Ministry of Natural Resources
TORONTO

MINING DIVISION

LARDER LAKE

Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date 10/4/74

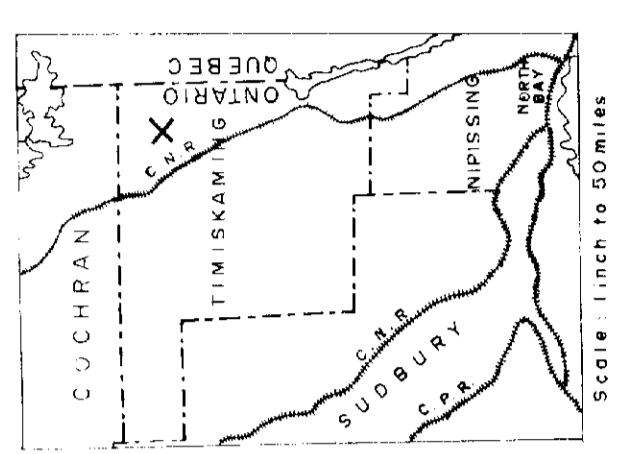
Plan No.

Whitney Block
Queen's Park, Toronto

M.387

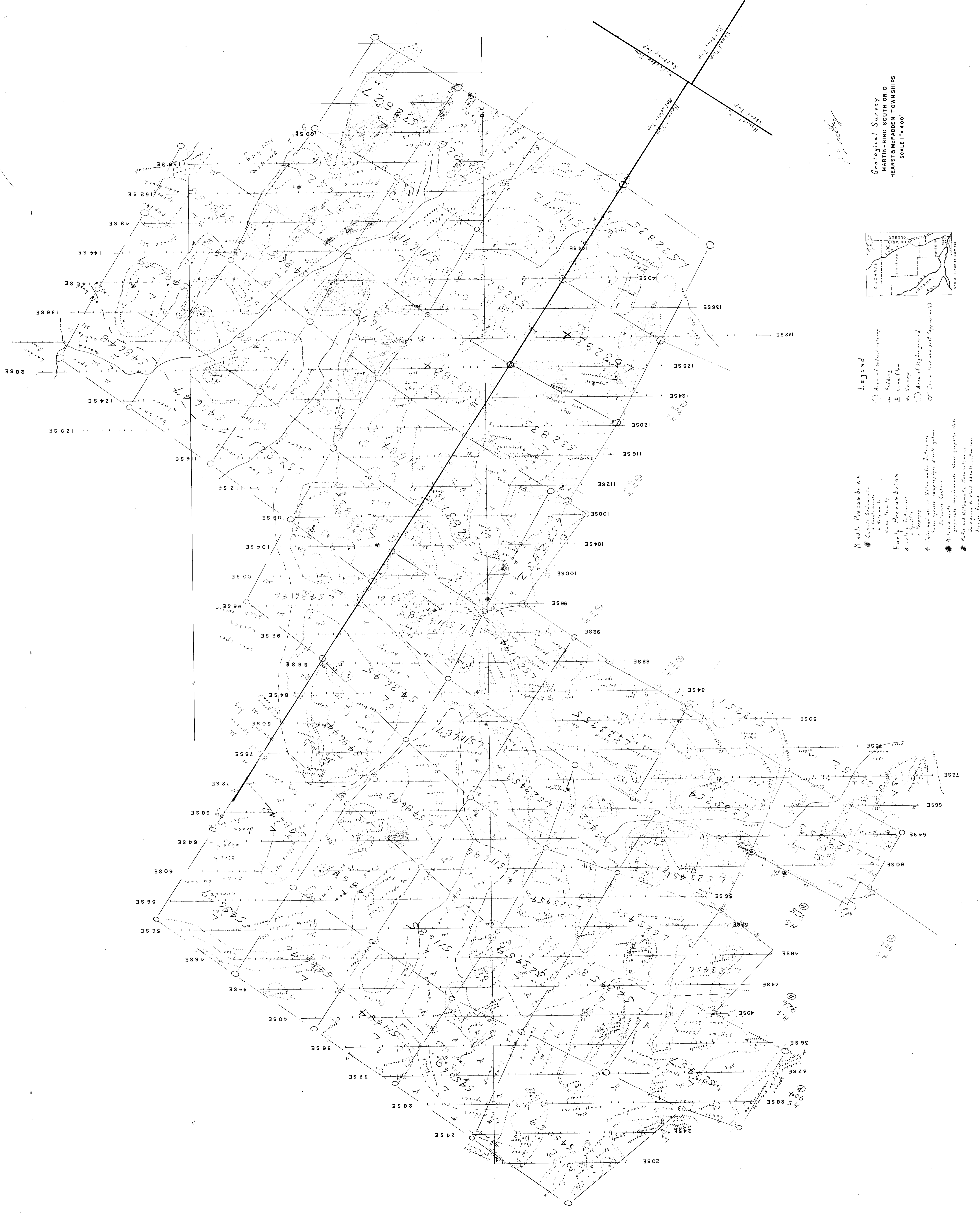


Geological Survey
 MARTIN-BIRD SOUTH GRID
 HEARST-BIRD TOWNSHIPS
 SCALE 1" = 400'

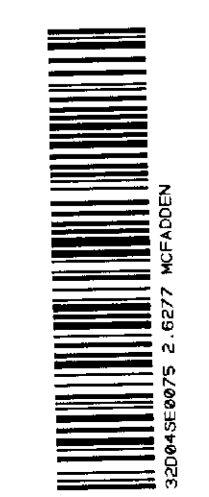


Legend

- Middle Precambrian**
- ④ Cobalt Sediments
 - ④ Gypsum
 - ④ Basalt
- Early Precambrian**
- ④ Ferruginous Shales
 - ④ Magnetite
 - ④ Iron-nickel sulfides
 - ④ Iron-nickel and gold (approx.)
- Geological Features**
- Area of red soil
 - Bldg
 - Low flow
 - Swamp
 - Area of high ground
 - In a line and post (approx.)
- Geological Formations**
- ④ Metasediments
 - ④ Metasandstone
 - ④ Metagraywacke
 - ④ Metagranite
 - ④ Metadiabase
 - ④ Metagabbro
 - ④ Metagabbro-diorite
 - ④ Metagabbro-plagioclase
 - ④ Metagabbro-plagioclase-diorite
 - ④ Metagabbro-plagioclase-gabbro
 - ④ Metagabbro-plagioclase-gabbro-diorite
 - ④ Metagabbro-plagioclase-gabbro-diorite-gabbro
 - ④ Metagabbro-plagioclase-gabbro-diorite-gabbro-diorite
 - ④ Metagabbro-plagioclase-gabbro-diorite-gabbro-diorite-gabbro
 - ④ Metagabbro-plagioclase-gabbro-diorite-gabbro-diorite-gabbro-diorite-gabbro



26277



McVITTIE TWP. M-370

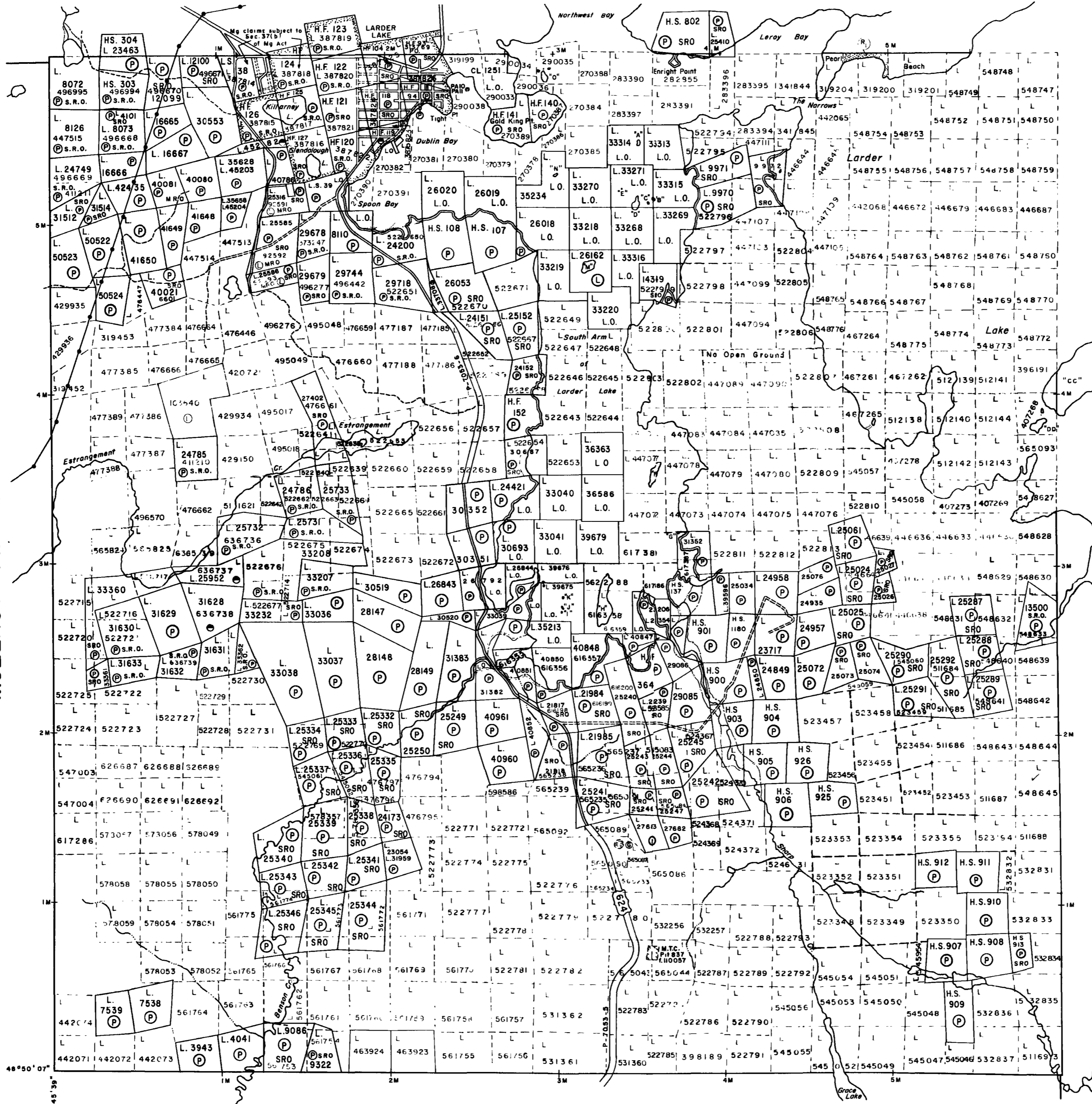
THE TOWNSHIP OF HEARST

HEARST

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS



LEGEND

- PATENTED LAND ● or P
- CROWN LAND SALE C.S.
- LEASES L
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
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- MINES
- CANCELLED
- PATENTED S.R.O.

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP OF LARDER LAKE. File: 129282.

Staking of mining claims within the Town of Larder Lake shown thus subject to Sec 37(b) of the Mining Act (R.S.O. 1970).

SAND AND GRAVEL

- Q QUARRY PERMIT

Areas withdrawn from staking under Section 3 of the Mining Act (R.S.O. 1970)

File	Date	Disposition
W 14/80 NR 164586	26/11/80	SRO

DATE OF ISSUE
JAN 29 1982
Ministry of Natural Resources
TORONTO

PLAN NO. M-354

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

SKOAD TWP. M-387

