



41016SE0019 2.5183 GENOA

010

FALCONBRIDGE LIMITED

GEOLOGICAL SURVEY REPORT

HEENAN, MARION, GENOA TOWNSHIPS

N.T.S. 41-O-16

**RECEIVED**  
NOV 12 1982  
MINING LANDS SECTION

October 26, 1982

LOCATION AND ACCESS:

As shown on the enclosed map, the property is located within Heenan, Marion and Genoa Townships. Access to the property is via commercial float aircraft landing on the Woman River either from Ivanhoe Lake some thirty air miles to the north or from Timmins some seventy air miles to the north east.

HOLDERS OF THE PROPERTY:

The 134 claims covered by this survey are held by Falconbridge Limited, which maintains a field office located at 167 Wilson Avenue, Timmins, Ontario. This report is being submitted by an agent of the company from the above address.

DATES OF SURVEY:

The geological survey was completed during May 1980 to October 1982.

PREVIOUS WORK:

Parts of the above claim group have been held at various times by numerous mining companies, the data for which can be viewed at the Regional Office of the Mining Recorder in Timmins, Ontario.

To date, Falconbridge has completed and submitted for assessment:

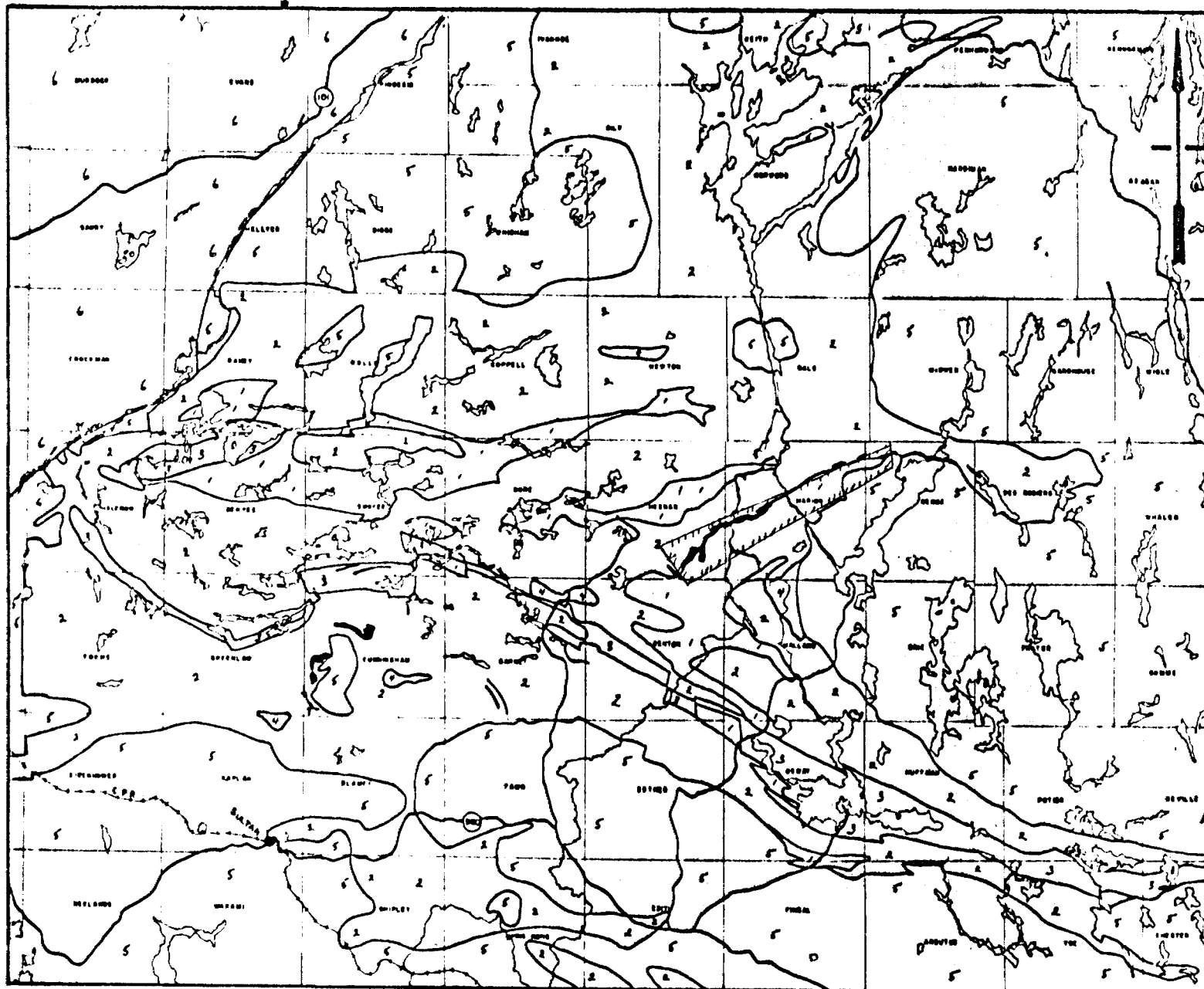
- a) V.L.F. survey
- b) Diamond drilling and assays (3 D.D.H.'s totalling 1512' of drilling)
- c) Manual Labour (involving stripping of outcrops)

Under separate cover a geophysical survey is submitted for assessment current with this report.









GENERAL GEOLOGY:

One inch = 400' maps are appended to this report in the map pocket.

The Heenan property straddles the Algoma type "Woman River" iron formation. In decreasing order of importance the dominant facies present are oxide, silicate, sulfide and minor carbonate.

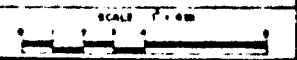


**LEGEND**

-  Kapuskasing Gravity High
-  Granite
-  Gabbro - Diorite
-  Sediments
-  Mafic Volcanics
-  Felsic Volcanics
-  Iron Formation
-  Heenan-Marion-Genoa Property

*R. Marchuk*

**SWAYZE BELT  
LOCATION MAP**



The tholeiitic hanging wall consists dominantly of pillowed flows, massive gabbroic-dioritic flows, dykes and/or sills.

The felsic volcanic footwall is observed to consist of a complex suite of rhyolite domes, thick flows/subvolcanics, flow breccias, primary pyroclastics, related epiclastics and laharic debris.

Cutting the above units is a series of mafic feeder dykes, quartz feldspar porphyry dykes, along with minor lamprophyre, syenite and diabase dykes.

A number of small dioritic-gabbroic intrusives are noted within the basal portions of the pile which probably relate to the large intermediate to felsic intrusive complex surrounding Rush Lake.

Regionally, the felsic volcanic complex forms a wedge-shaped structure about ten miles long and up to three miles thick. The whole sequence is dominantly north facing with near vertical dips. On the property, the iron formation forms an integral unit some 900' thick at the west end and is observed to thin to units 10's of feet thick and to be intercalated with tholeiites and felsic volcanics at the east end of our property.

Primary volcanic domes, with proximal and distal basins can be envisaged from the distribution and spatial relationships of lithologic units.

The metamorphic grade is observed to be lower-upper greenschist. Dynamic metamorphic effects are absent to strongly developed and consists of a planar fabric in the 120° direction. Observed faults strike generally 160°- 170°.

LITHOLOGIC UNITS:

FELSIC VOLCANICS:

The felsic volcanic rocks may be subdivided (a) compositionally into recognizable flow units on the basis of presence and abundance of quartz and feldspar phenocrysts and (b) texturally on the basis of character and degree of brecciation.

In general, individual flows appear compositionally homogeneous, although occasionally intraflow inhomogeneities are noted such as non-uniform distribution or size of phenocrysts. A complete gradation in the degree of brecciation is observed within the various flows from massive phases through incipient brecciation, flow breccias to flow top breccias.

Massive flows are not common, the most common phase being flow breccias/pyroclastics. Typically the flow breccias have an overall massive appearance but upon close inspection show indistinct monolithic angular fragments which generally results in a crackled appearance on weathered surfaces. Fragmentation becomes more obvious on fresh saw cut surfaces. Generally monolithic, the occasional exotic fragment do occur.

Flow banding is rare and of limited extent but has been observed.

All of the felsic rocks tend to weather white to slightly buff or pink. Chloritic and sericitic alteration is pervasive and occasionally accessory pyrite becomes significant as fine grained disseminations, patches and veinlets. Milky quartz veins are also common.

The rhyolitic flow units which have been recognised in the map area on the basis of phenocrysts are summarised below in Table 1.

TABLE 1

Rhyolite:	Phenocrysts:	Remarks:
2 <sub>S</sub>	0	Volcanic; all phases of brecciation recognized; includes coarse pyroclastic units.
2 <sub>W</sub>	1-2 Quartz eyes per sq. in.	Volcanic; flow breccia dominant phase plus minor massive phases, flow top breccia.
2 <sub>L</sub>	5-10 Quartz eyes per sq. in.	Volcanic; flow breccia dominant phase plus flow top breccia.
2 <sub>B</sub>	>15 Quartz eyes per sq. in. plus feldspar phenos.	Volcanic (may be subvolcanic in part) Massive and flow breccia phases dominant.
2 <sub>G</sub>	Feldspar + quartz eyes	Distinctive lithology widely distributed as fragments in debris units but very rare massive phase.

VOLCANIC DEBRIS BRECCIAS:

The volcanic debris breccias are fragmental units which typically show highly angular, lithic volcanic fragments which are generally

unsorted and are fragment supported. Both monolithic and heterolithic varieties occur.

The monolithic varieties are interpreted as autobrecciated flows, pyroclastics, and pyroclastic debris.

The heterolithic debris are interpreted as talus or block avalanche breccias resulting from the brecciation of flow fronts or crumbling of domes. Pyroclastic fragments occur as accessories within this unit in varying proportions.

As opposed to laharic breccias described below, these debris breccias show less evidence of transport, reworking or other epigene processes. These debris units probably did act as source material for the laharic breccias and expectedly, gradation occurs between the volcanic debris breccias and the lahars.

#### LAHARIC BRECCIAS:

The term has been applied to a chaotic volcanic conglomerate which form large wedges within the felsic pile and generally are observed to become a more significant component in the upper and western portions of the pile. Laharic breccias are formed by water saturated mudflows carrying, dispersing and redepositing coarse and fine grained volcanic fragments which were initially deposited on the flanks of volcanic domes. The debris flows or lahars may be either contemporaneous with and triggered by local volcanic eruptions or are the product of gravity slides. Texturally, it is very difficult to distinguish between these two modes of formation.

On an outcrop scale, the laharic breccias which occur on the property are typically matrix supported, unstratified, crudely sorted and occasionally exhibit crude layering or pebble alignment. Locally, these units may be hundreds of feet thick. Distinguishing between individual debris flows is hampered by lack of outcrop continuity.

Fragments vary in size from single mineral grains up to an average maximum diameter of 12 inches although boulders up to six feet in diameter have been noted. The fragments are subangular to subrounded in shape and usually variable in composition, although monolithic laharic breccias also

occur. Occasionally, exotic fragments are observed but generally most have been derived from the various felsic volcanics underlying the map area.

The unit has a significant fine-grained component which is highly chloritic and it is assumed that the original matrix had a high mud and sand content. In addition to chlorite the fine-grained component is magnetite-rich and in some areas contains significant disseminated pyrite.

The monolithic laharic units are believed to have had local source areas.

On freshly peeled surfaces the lahars weather brown.

#### WOMAN RIVER IRON FORMATION:

Overlying the felsic volcanics and volcanic breccias is the Woman River Iron Formation. Previously mapped by Goodwin (1965), the unit is a near vertically dipping, banded Algoma-type sequence of iron-rich chemical sediments composed of varying proportions of chert, jasper, magnetite, hematite, iron carbonate and sulphide. The unit extends almost continuously over a strike length of fourteen miles. It averages less than 100' thick to the east but thickens westward, reaching a maximum of 1400' in Heenan Township.

The iron formation generally lies between the underlying felsic volcanics and the upper tholeiites. Mapping has indicated the presence of several discontinuous iron formation horizons parallel to the main unit interlayered with both the felsic and tholeiitic volcanics. These observations indicate that chemical sedimentation was intimately associated with the waning stages of felsic volcanism.

The composition and internal structure of the iron formation on map and outcrop scale is complicated laterally and vertically by rapid facies changes, soft sediment deformation, intraformational folding, slumping and faulting along with brecciation.

A crude vertical zonation of the iron formation is recognized. The basal sections consist of predominantly chert-magnetite-pyrite assemblages. Where pyrite is significant within the underlying felsic volcanics, massive pyrite lenses characterizes the lowermost facies of iron formation. Grading upwards through the section, the assemblage changes to dominantly

chert-magnetite (+ silicate, pyrite, jasper, hematite) and finally terminates with a predominantly cherty cap with up to 10% pyrite occurring as disseminations and veinlets.

Jasper occurs locally within the chert-rich facies of the main iron formation as a discordant feature within the grey chert beds, the transition between grey chert and jasper occurring over several feet.

#### THOLEIITIC VOLCANICS:

The hanging wall tholeiites are dominantly pillow lavas with both bun and mattress type observed. Hyaloclastites and flow top breccias are rarely observed. Typically these rocks are medium to dark green-grey, fine grained with little alteration. Massive dykes, sills and flows of dioritic-gabbroic compositions are also noted, some phases being porphyritic. In one instance a massive gabbroic phase was traced continuously through a finer grained phase, incipient pillows and finally into well developed pillows.

#### THOLEIITE DYKES:

Cross-cutting the iron formation and the underlying felsic volcanics and volcanic breccias are a series of mafic dykes which are believed to be feeders to the overlying tholeiitic flows. Generally the dykes trend in a direction parallel to the regional foliation ( $110^{\circ}$ - $120^{\circ}$ ) and vary in texture from fine grained almost aphanitic to medium and coarse grained massive gabbroic to rarely, feldspar porphyritic. They weather dark green to brown and usually show linear "sutures" or partings parallel to the dyke trend. Being passive intrusives, there is little disruption or alteration of the wallrock. At times the dykes show high carbonate alteration.

#### INTERMEDIATE TO FELSIC DYKES:

Numerous quartz feldspar porphyry (8a) dykes occur within the map area and appear to post date all volcanic and sedimentary units. Typically these rocks are buff to pinkish weathering and show strong blocky jointing. Occasionally they contain minor pyrite (<2%) and may be sausseritized or



carbonatized. Within the iron formation these dykes are generally concordant and elsewhere show cross cutting relationships.

The quartz porphyry (8b) is a distinctive intrusive rock which features large (average  $\frac{1}{4}$ " diameter), abundant, often euhedral greyish quartz phenocrysts constituting up to 20% of the rock.

One small dyke of mafic syenite (8c) was mapped which outcrops on the Woman River. The unit is hornblende porphyritic and has a prominent red alteration colour. The dyke appears to intrude a shear zone.

Lamporphyry dykes (8d) occur in several areas, particularly east of the Woman River. The dykes typically weather a golden brown and generally are less than 12" wide.

#### DIORITE INTRUSIVE:

Satellites of a large diorite/granitic intrusive complex related to the Rush Lake batholith underlies portions of the property. Where mapped, the rock appears as a zoned hornblende-quartz diorite, medium to coarse-grained equigranular, and in places pegmatitic with hornblende crystals up to 1 inch in length. The feldspars are sausseritized and accessory pyrite is present.

#### STRUCTURE AND METAMORPHISM:

The rocks underlying the claim group at present conform to a near vertical north facing homoclinal sequence. The general strike in the area is  $040^{\circ}$ - $060^{\circ}$ . The rocks being very well preserved, are only weakly foliated in the  $120^{\circ}$  direction in the west portion of the map sheet. Occasionally slight clast stretching in this direction is observed. On the eastern portion of the block the rocks are strongly foliated producing paper or pencil schists.

Faults, where recognized either form conspicuous lineaments or displace stratigraphy with lesser to intensive shearing.

Other than the main deformational event which produce the steeply folded sequence now observed, folding is restricted to minor drag folds within the iron formation. Lineations were observed plunge steeply (approximately  $75^{\circ}$ E).

The structural data is synthesised on stereo plots on the 1"=400' maps.

The metamorphic grade observed within the volcanic pile in lower to upper greenschist. Regional metamorphic assemblages consists of the development of widespread chlorite, sausserite, and sericite. Epidote and quartz occur as veinlets. Contact metamorphic effects locally observed near the Rush Lake batholith consists of the development of hornfels and garnets.

CONCLUSIONS AND RECOMMENDATIONS:

The dominant geological elements of the claim group are the "Algoma-type" iron formation, the basaltic hangingwall and the felsic footwall. Mapping has demonstrated that the felsic footwall complex consists of clastic domes, primary pyroclastics, subvolcanic intrusives/thick flows, lesser flow banded rhyolites, proximal debris and possible talus deposits. Polymict laharic debris units probably define volcanic paleobasins. All of these features are an intergral part of volcanic complexes which host precious and base metal deposits within Archean terrane. Prospecting for such type occurrences is recommended within the claim group.



Barry Manchuk

CERTIFICATION

I, Barry Manchuk, residing at 1349 Chenier Avenue, Timmins, Ontario, an agent of Falconbridge, submitting this geophysical report dated October 26, 1982, do hereby affirm that:

- 1) I am a graduate of the University of Manitoba having received an M.Sc. (Geological Sciences) in 1971
- 2) I have been professionally practicing since 1971
- 3) I did personally set forth the facts in this report and did monitor the work contained herein
- 4) I do not have any interest in this claim group

*Barry Manchuk*



Report of Work #314  
(Geophysical, Geological,  
Geochemical and Expenditures)



41016SE0019 2.5183 GENOA

900

536791

The Mining Act

Do not use shaded areas below.

Type of Survey(s) <b>MAGNETOMETER &amp; GEOLOGICAL</b>	Township or Area <b>HEENAN, MARION, GENOA, TWP.</b>
Claim Holder(s) <b>Falconbridge Ltd.</b>	Prospector's License No. <b>A-21647</b>
Address <b>167 Wilson Ave TIMMINS ONT</b>	<b>2.5183</b>
Survey Company <b>Falconbridge Ltd</b>	Date of Survey (from & to) 20 May 82 6 June 82 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author (of Geo-Technical report) <b>SCOTT BRUCE 167 Wilson Ave TIMMINS</b>	

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	20
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	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 Claims Traversed (List in numerical sequence)		
Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	SEE FILE 2.5182	
	GEOLOGICAL CREDITS ONLY APPROVED	
	SEE ATTACHED SCHEDULE	

**RECEIVED**

SEP 27 1982

**MINING LANDS SECTION**

**RECORDED**

SEP 10 1982

Receipt No. ....

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s) **PORCUPINE MINING DIVISION**

Calculation of Expenditure Days Credits

Total Expenditures AM	Total DBM Credits
\$ 7809	123456

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. **134**

Date **Aug 31 / 82** Recorded Holder or Agent (Signature) *Scott Bruce*

For Office Use Only

Total Days Recorded **5360** Date Recorded **Sept 10 1982**

Minings Recorder *[Signature]*

Checked Approved as Recorded **88:05:27**

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 **Scott Bruce 167 Wilson Ave Timmins ONT P4N 2T2**

Date Certified **Aug 2 1982** Certified by (Signature) *[Signature]*

Name	Number
Marion Twp.	P553231
"	P553232
"	P553233
"	P553234
"	P553235
"	P553236
"	P553237
"	P553238
"	P553239 ↑
"	P555037
"	P555038
"	P555039
"	P555040 ↑
"	P549240
"	P549241
"	P549242
"	P536791 ↓
"	P536792
"	P536793 ↑
"	P536851 ↓
"	P536852 ↑
"	P536782 ↓

Name	Number
Marion Twp.	P536916 ↓
Marion	P536917
Marion	P536918
Marion	P536919
Marion	P536920
Marion	P536921
Marion	P536922 ↑
Marion	P554500 ↓
Marion	P554501
Marion	P554502
Marion	P554503
Marion	P554504
Marion	P554505
Marion	P554506
Marion	P554507
Marion	P554508
Marion	P554509
Marion	P554510
Marion	P554511
Marion	P554512
Marion	P554513
Marion	P554514
Marion	P554515
Marion	P554516
Marion	P554517
Marion	P554518
Marion	P554519 ↑
Marion	P554011 ↓
Marion	P554012
Marion	P554013
Marion	P554014
Marion	P554015
Marion	P554016 ↓
Heenan	P554685 ↓
Heenan	P554686
Heenan	P554687
Heenan	P554688
Heenan	P554689
Heenan	P554690
Heenan	P554691
Heenan	P544692
Heenan	P554693
Heenan	P554694 ↓

Name	Number
Heenan	P554695
"	P554696
"	P554697
"	P554698
"	P554699
"	P554700
"	P554701
"	P554702
"	P554703
"	P554704 ↑
"	P549613 ↓
"	P549614
"	P549615 ↑
"	P554017 ↓
"	P554018
"	P554019
"	P554020
"	P554021
"	P554022 ↓
"	P554665 ↓
"	P554666
"	P554667
"	P554668
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"	P554670
"	P554671
"	P554672
"	P554673
"	P554674
"	P554675
"	P554676
"	P554677
"	P554678
"	P554679 ↑
Marion Twp.	P553222 ↓
"	P553223
"	P553224 ↓
"	P553225
"	P553226 ↓
"	P553227
"	P553228
"	P553229
"	P553230

# SCHEDULE "A"

Name	Number
Marion	P568516
Marion	P568517
Marion	P568518

*Green*

Name	Number
Marion Twp.	583862
"	583863
"	583864
"	583865
"	583866
"	583867
"	583868
"	583869
"	583870
"	583871
"	583872
"	583873

Name	Number
Genoa	583876
"	583877
"	583878
"	583879
"	583880
"	583881
"	583882
"	583883
"	583884
"	583885
"	583886

23

104  
 23  
 3  
 134



Jan 27/83

Mining Lands Comments


To: Geophysics

Comments


Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

*W. Kustra*

Comments


Approved

Wish to see again with corrections

Date

March 21 / 83

Signature

*W. Kustra*

To: Geochemistry

Comments


*L.D.*

Approved

Wish to see again with corrections

Date

Signature

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

(Tel: 5-1380)

Falconbridge Ltd  
167 Wilson Ave  
Timmins, Ont.

RECEIVED

NOV 25 1982

MINING LANDS SECTION

To: Mr. Bear / Ardenson.

Bear Sir.

Recently Falconbridge, from Timmins has  
filed assessment geological & geophysical on  
claims in Heenan, Marion & Deron Tings;  
your file nos 2.5182 and 2.5183. Could  
you please send any correspondence regarding  
these claims to the below.

① Mr. R. Tays  
Falconbridge Ltd  
P.O. Box 40  
Commerce Court West  
Toronto, Ont  
MSLIB4  
Thank you.

② Mr. J. Boissonnault  
Falconbridge Ltd.  
979 Ave de Bourgogne  
St. Foy Quebec  
G1W 2L4

③ Mr. B. Marchuk  
Falconbridge Ltd.  
167 Wilson Ave  
Timmins Ont.  
~~7119272~~  
P4N2T2

Berry Marchuk



314

1982 11 22

2.5183

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

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 553231 et al in the Townships of Heenan, Marion and Genoa.

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: 416/965-1316

DW:sc

cc: Falconbridge Limited  
Toronto, Ontario

cc: Barry Manchuk  
167 Wilson Avenue  
Timmins, Ontario



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 Heenan, Marion, Genoa Townships  
Claim Holder(s) Falconbridge Limited  
  
Survey Company Falconbridge Limited  
Author of Report Barry Manchuk  
Address of Author 167 Wilson Aven., Timmins, Ontario  
Covering Dates of Survey May (1980) - Oct. 1982  
(linecutting to office)  
Total Miles of Line Cut 122.14

MINING CLAIMS TRAVERSED  
List numerically

See Schedule A and B  
(prefix) (number)

Table with 2 columns: (prefix), (number). Contains 20 rows of dotted lines for data entry.

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED table with columns: Description, Geophysical, Geological, Geochemical, DAYS per claim.

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

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

DATE: Oct 26/82 SIGNATURE: Barry Manchuk  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.1363

Table with 4 columns: File No., Type, Date, Claim Holder. Contains 6 rows of dotted lines for data entry.

TOTAL CLAIMS 134

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 \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
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ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
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SCHEDULE B:

P553231  
P553232  
P553233  
P553234  
P553235  
P553236  
P553237  
P553238  
P553239  
P555037  
P555038  
P555039  
P555040  
P549240  
P549241  
P549242  
P536791  
P536792  
P536793  
P536851  
P536852  
P536782  
P536916  
P536917  
P536918  
P536919  
P536920  
P536921  
P536922  
P554500  
P554501  
P554502  
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P554509  
P554510  
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P554512  
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P554517  
P554518  
P554519  
P554011  
P554012  
P554013  
P554014  
P554015  
P554016

SCHEDULE A:

P568516  
P568517  
P568518  
P583862  
P583863  
P583864  
P583865  
P583866  
P583867  
P583868  
P583869  
P583870  
P583871  
P583872  
P583873  
P583876  
P583877  
P583878  
P583879  
P583880  
P583881  
P583882  
P583883  
P583884  
P583885  
P583886

McOWEN TWP.

THE TOWNSHIP  
OF  
**GENOA**

DISTRICT OF  
SUDBURY

PORCUPINE  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.D.
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	Ⓞ

NOTES

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

DATE OF ISSUE

APR 29 1983

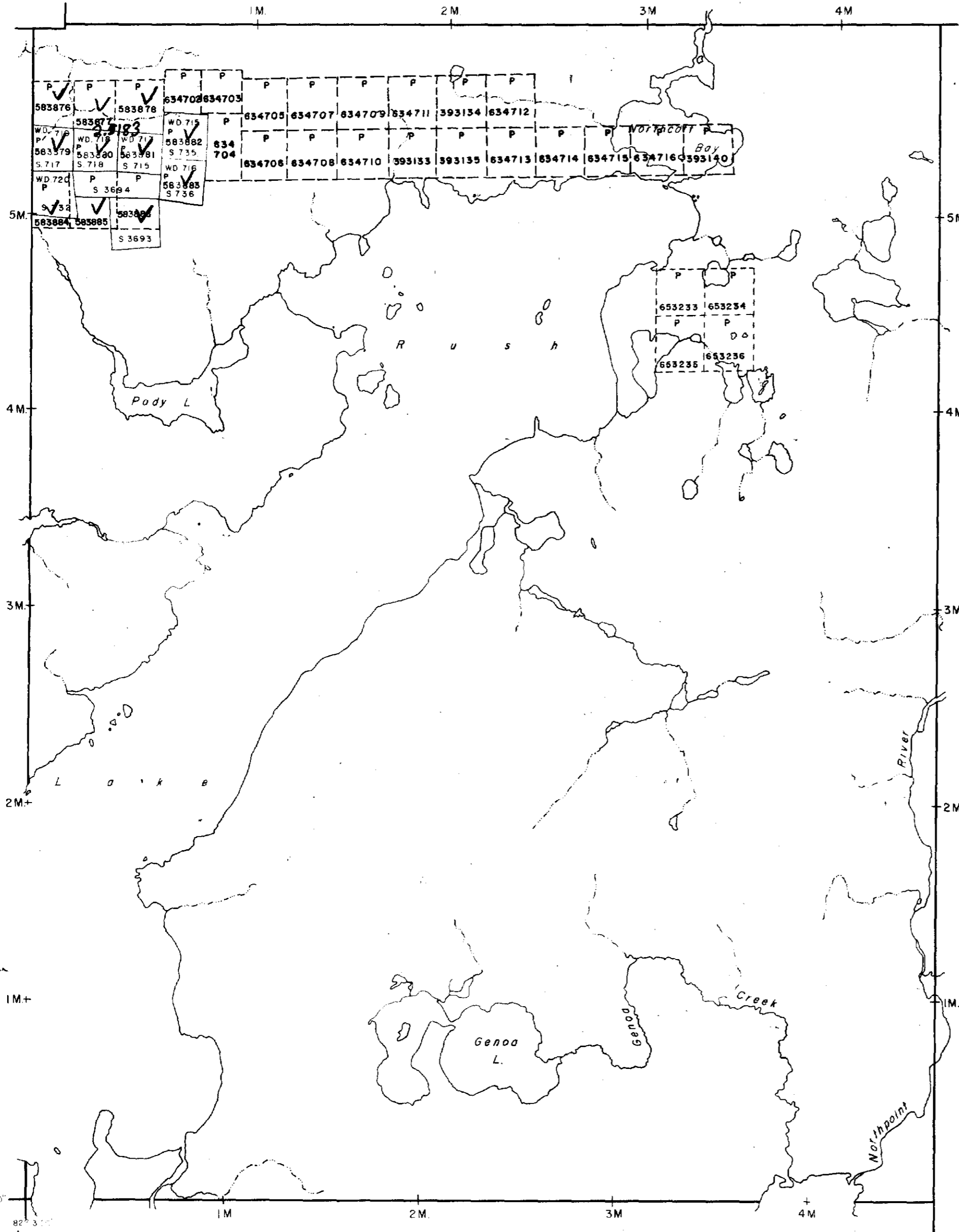
Ministry of Natural Resources  
TORONTO

PLAN NO. **M.833**

ONTARIO  
**MINISTRY OF NATURAL RESOURCES**  
SURVEYS AND MAPPING BRANCH

MARION TWP. (M.853)

DESROSIERS TWP. (M.759)



ERIC TWP. (M.789)



410165E0019 2.5183 GENOA

NEWTON TWP.

THE TOWNSHIP  
OF  
**HEENAN**

DISTRICT OF  
SUDBURY

PORCUPINE  
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
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	C

NOTES

400' Surface rights reservation around the shores of all lakes and rivers.

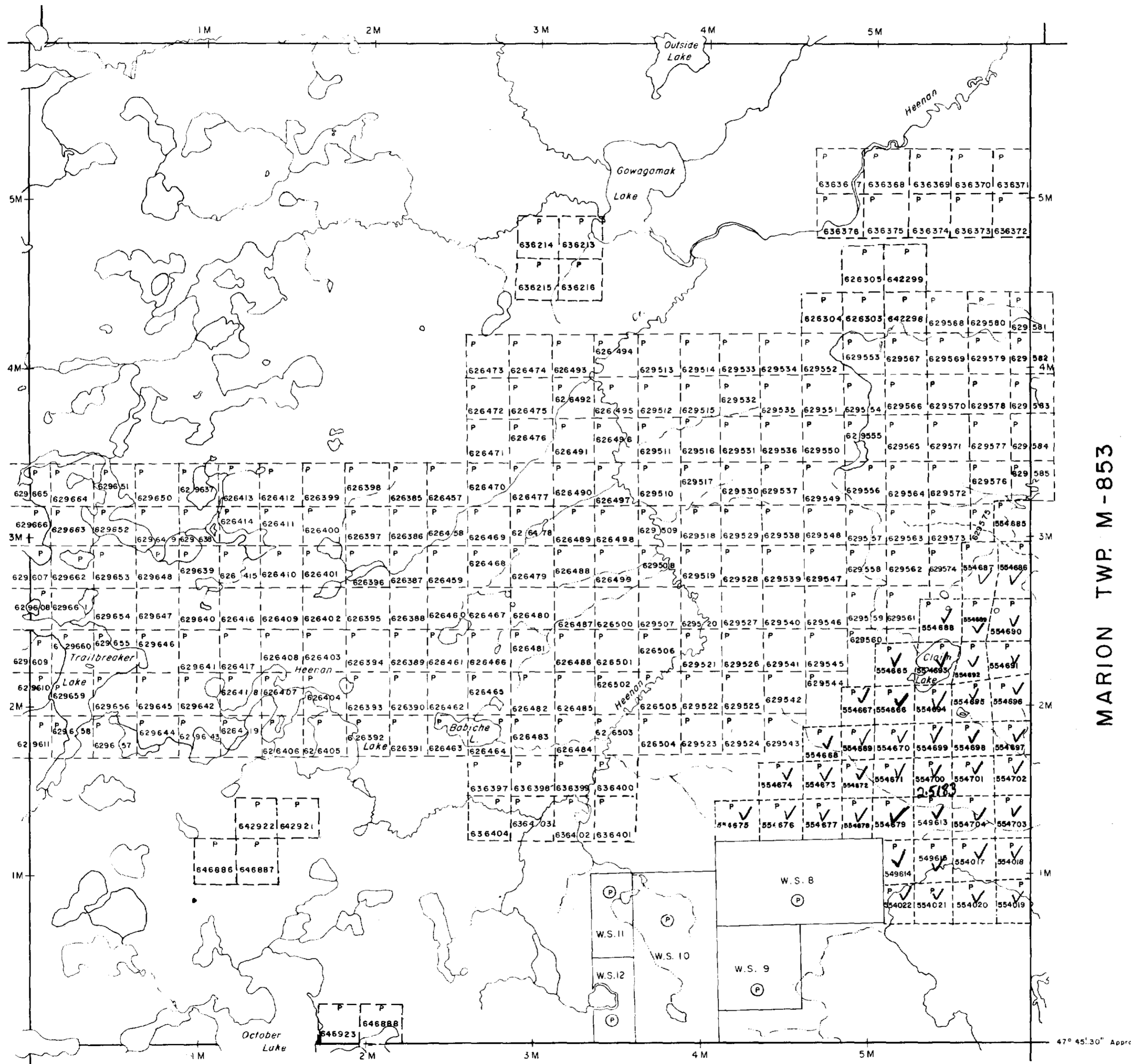
DATE OF ISSUE  
**APR 27 1983**  
Ministry of Natural Resources  
TORONTO

PLAN NO. **M-925**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

DORE TWP. M-763

MARION TWP. M-853



BENTON TWP. M-659



410165E0019 2.5183 GENOA



DALE TWP.

THE TOWNSHIP OF  
OF  
**MARION**

DISTRICT OF  
SUDBURY

PORCUPINE  
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSING 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. Ⓞ

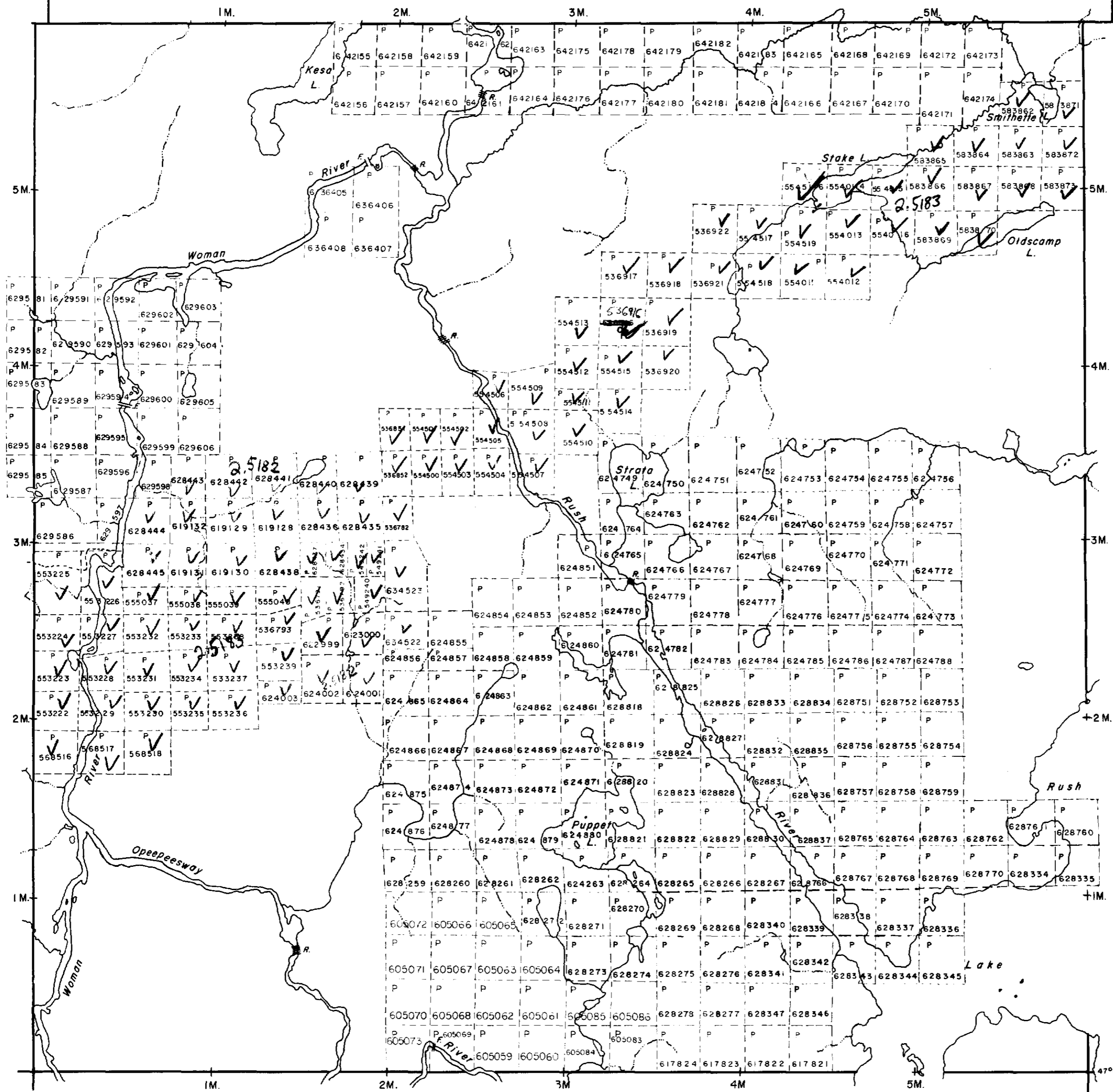
NOTES

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

DATE OF ISSUE  
**APR 27 1983**  
Ministry of Natural Resources  
TORONTO

PLAN NO. **M. 853**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



HEENAN TWP. (M.925)

GENOA TWP. (M.833)

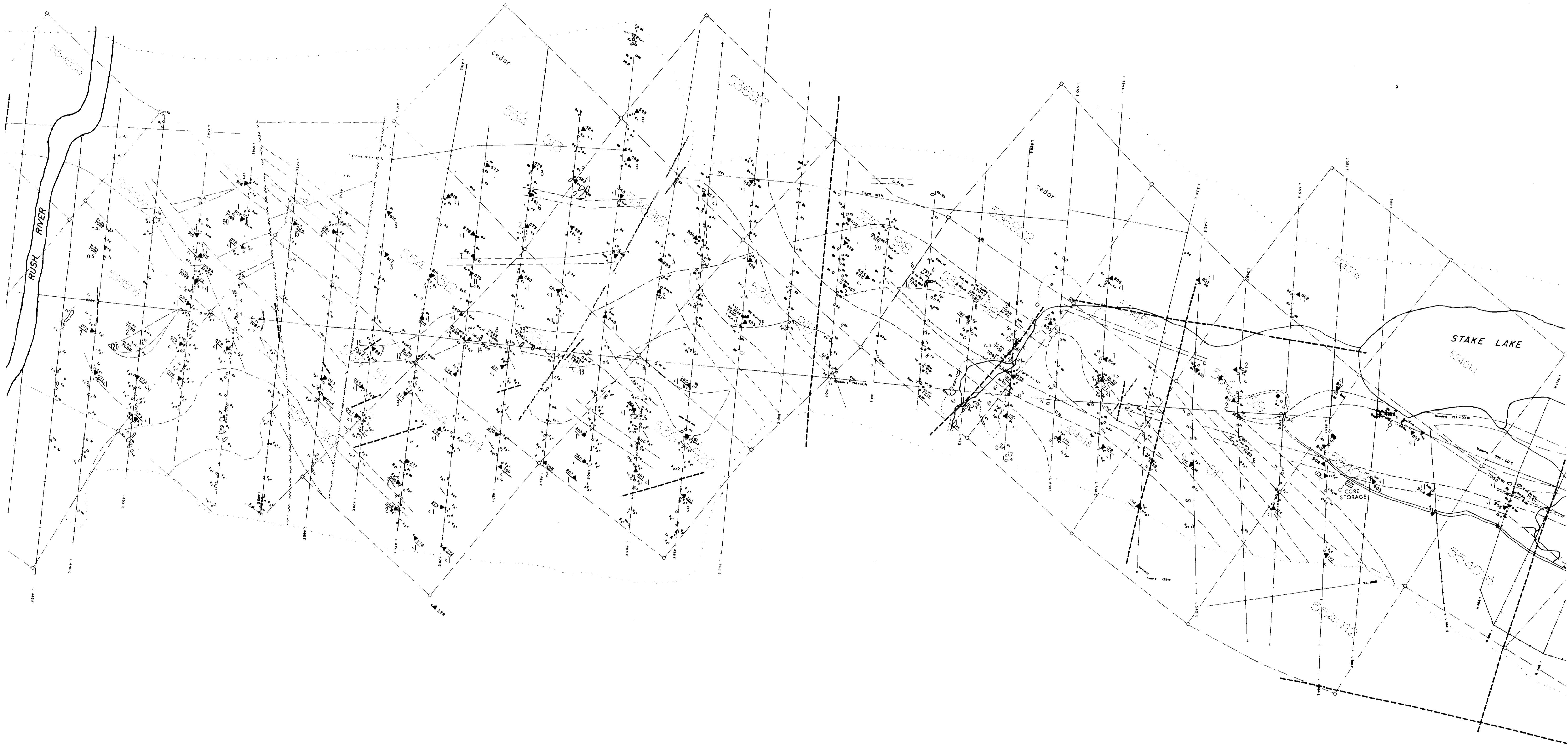
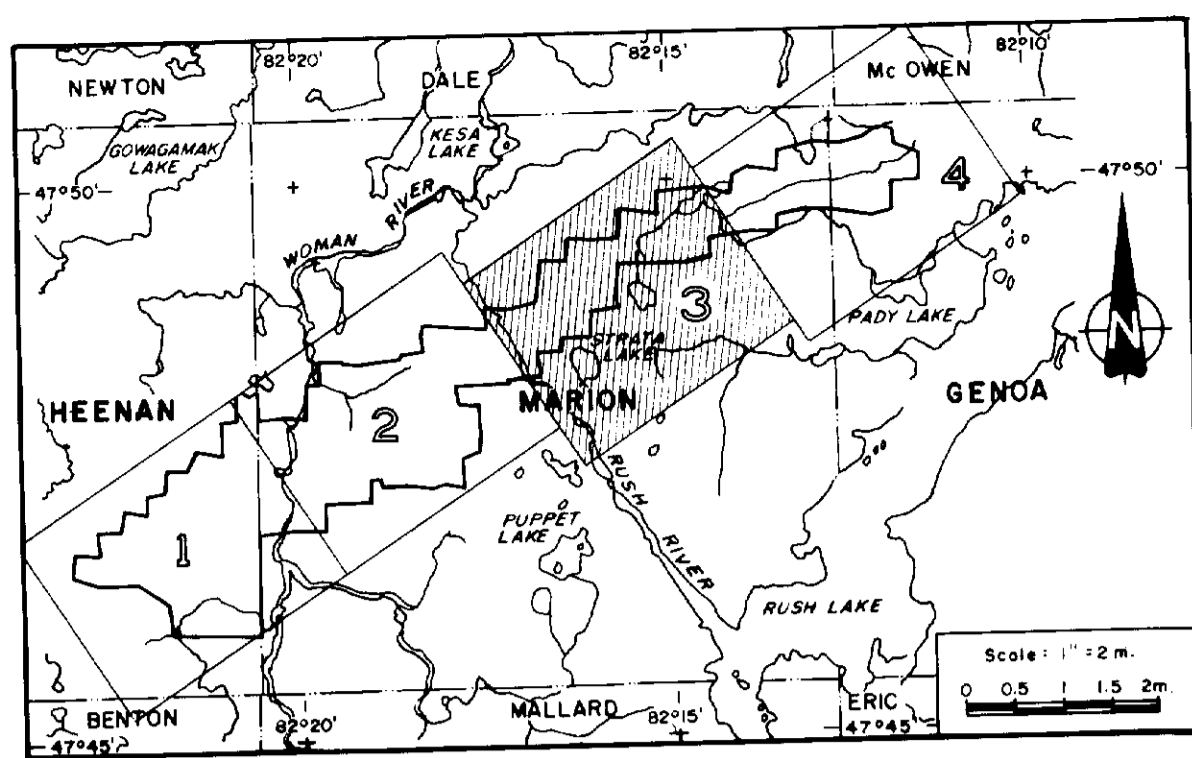
MALLARD TWP. (M.849)











- LEGEND**
- 10 Dunes
  - 11 Sand, silt & gravel
  - 12 Intermediate - fine, lenticular
  - 13 Intermediate - fine, lenticular
  - 14 Intermediate - fine, lenticular
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  - 99 Intermediate - fine, lenticular
  - 100 Intermediate - fine, lenticular

- SYMBOLS**
- 1. Elevation
  - 2. Contour
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  - 100. Contour

- ROCK GEOCHEMISTRY**
- 1. Sample location
  - 2. Sample number
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  - 98. Sample number
  - 99. Sample number
  - 100. Sample number

- MINERALIZATION SYMBOLS**
- 1. Au
  - 2. Ag
  - 3. Cu
  - 4. Pb
  - 5. Zn
  - 6. Fe
  - 7. Mn
  - 8. Ni
  - 9. Co
  - 10. Ni
  - 11. Ni
  - 12. Ni
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**FALCONBRIDGE LIMITED**

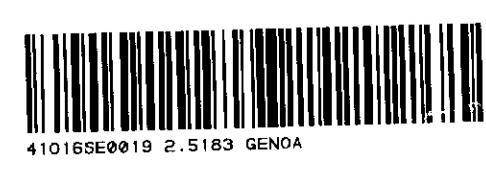
**HEENAN TWP PROJECT, PN-668**  
**HEENAN, MARION, GENOA TWP'S**  
**ONTARIO**  
**SHEET 3**  
**COMPILATION MAP**

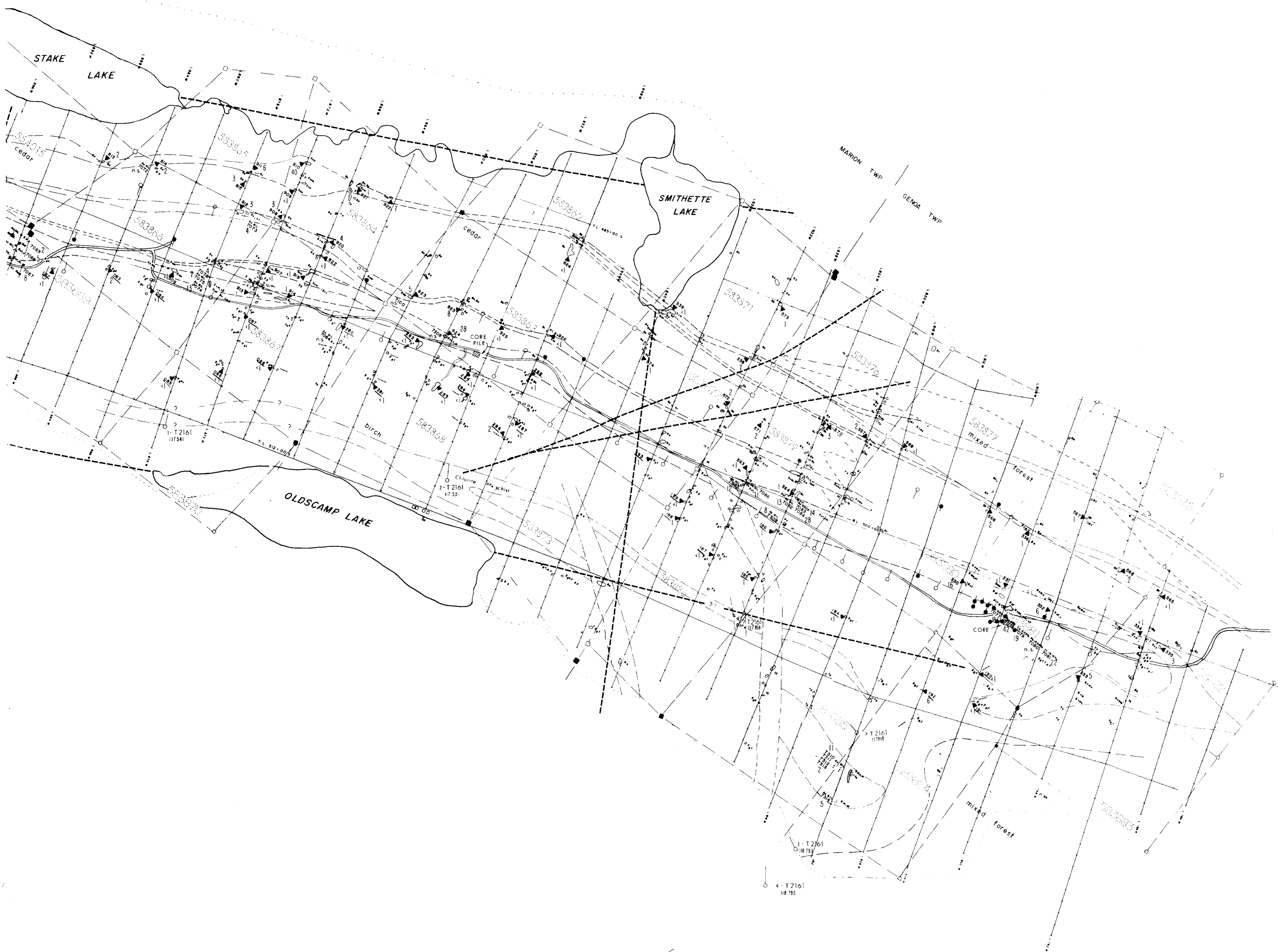
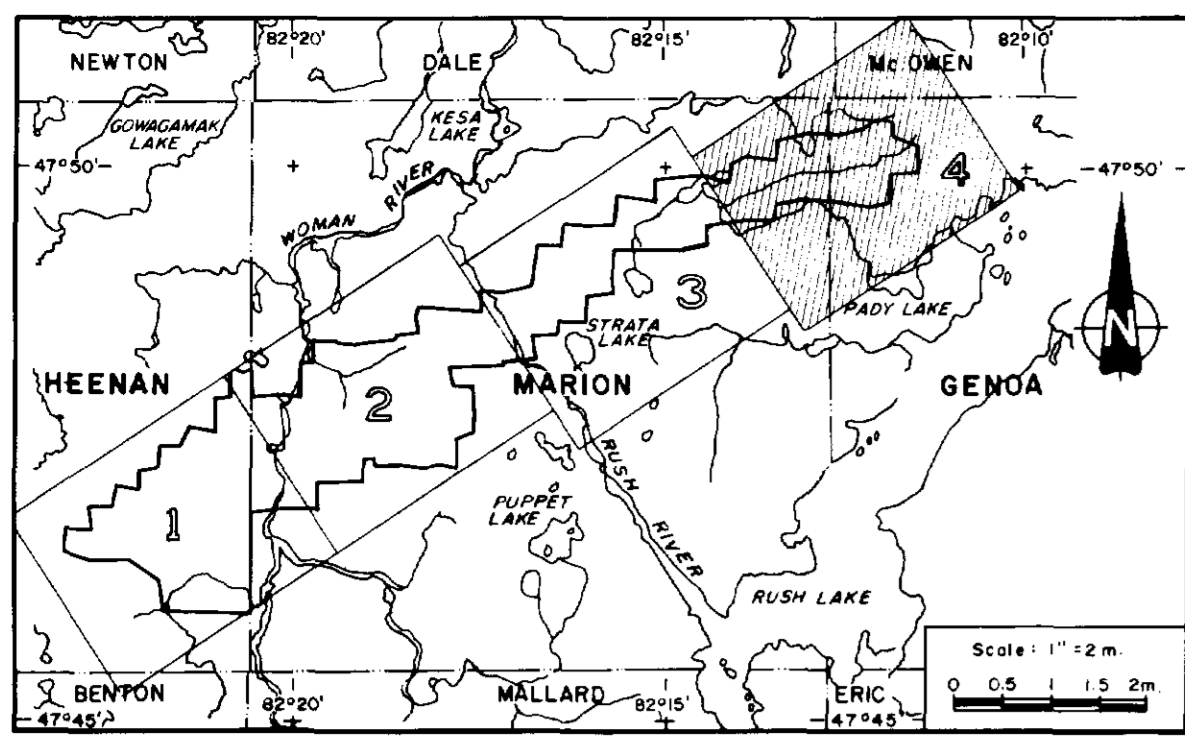
Scale: 1" = 400'

Titled: \_\_\_\_\_ Date: \_\_\_\_\_ Revised: \_\_\_\_\_ Date: \_\_\_\_\_

Drawn: \_\_\_\_\_ Date: \_\_\_\_\_ NTS-41-D-16

2-5783





**LEGEND**

- 10 Database
- 11 Road Layer
- 12 3-D.P.P. or 3-D.P. of granite, of sample
- 13 3-D.P.P. or 3-D.P. of granite, of sample
- 14 3-D.P.P. or 3-D.P. of granite, of sample
- 15 3-D.P.P. or 3-D.P. of granite, of sample
- 16 3-D.P.P. or 3-D.P. of granite, of sample
- 17 3-D.P.P. or 3-D.P. of granite, of sample
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- 82 3-D.P.P. or 3-D.P. of granite, of sample
- 83 3-D.P.P. or 3-D.P. of granite, of sample
- 84 3-D.P.P. or 3-D.P. of granite, of sample
- 85 3-D.P.P. or 3-D.P. of granite, of sample
- 86 3-D.P.P. or 3-D.P. of granite, of sample
- 87 3-D.P.P. or 3-D.P. of granite, of sample
- 88 3-D.P.P. or 3-D.P. of granite, of sample
- 89 3-D.P.P. or 3-D.P. of granite, of sample
- 90 3-D.P.P. or 3-D.P. of granite, of sample
- 91 3-D.P.P. or 3-D.P. of granite, of sample
- 92 3-D.P.P. or 3-D.P. of granite, of sample
- 93 3-D.P.P. or 3-D.P. of granite, of sample
- 94 3-D.P.P. or 3-D.P. of granite, of sample
- 95 3-D.P.P. or 3-D.P. of granite, of sample
- 96 3-D.P.P. or 3-D.P. of granite, of sample
- 97 3-D.P.P. or 3-D.P. of granite, of sample
- 98 3-D.P.P. or 3-D.P. of granite, of sample
- 99 3-D.P.P. or 3-D.P. of granite, of sample
- 100 3-D.P.P. or 3-D.P. of granite, of sample

**SYMBOLS**

- 1 Small bedrock outcrop
- 2 Area of bedrock outcrop
- 3 Bedrock outcrop
- 4 Bedrock outcrop
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- 100 Bedrock outcrop

**ROCK GEOCHEMISTRY**

- 1 Sample location
- 2 103—Sample number
- 3 206—Au in pag

**MINERALIZATION SYMBOLS**

- 1 Au
- 2 Ag
- 3 Cu
- 4 Pb
- 5 Zn
- 6 Ni
- 7 Co
- 8 Mn
- 9 Fe
- 10 Ca
- 11 Mg
- 12 Na
- 13 K
- 14 Rb
- 15 Cs
- 16 Sr
- 17 Ba
- 18 Br
- 19 I
- 20 S
- 21 Se
- 22 Te
- 23 As
- 24 Sb
- 25 Bi
- 26 Sn
- 27 W
- 28 Mo
- 29 Cr
- 30 V
- 31 Nb
- 32 Ta
- 33 Ti
- 34 Zr
- 35 Hf
- 36 Y
- 37 La
- 38 Ce
- 39 Pr
- 40 Nd
- 41 Sm
- 42 Eu
- 43 Gd
- 44 Tb
- 45 Dy
- 46 Ho
- 47 Er
- 48 Tm
- 49 Yb
- 50 Lu
- 51 Sc
- 52 Yt
- 53 In
- 54 Sn
- 55 Pb
- 56 Bi
- 57 Po
- 58 At
- 59 Rn
- 60 Fr
- 61 Ra
- 62 Ac
- 63 Th
- 64 Pa
- 65 U
- 66 Np
- 67 Pu
- 68 Am
- 69 Cm
- 70 Bk
- 71 Cf
- 72 Es
- 73 Fm
- 74 Md
- 75 No
- 76 Lr
- 77 Rf
- 78 Db
- 79 Sg
- 80 Bh
- 81 Hs
- 82 Mt
- 83 Ds
- 84 Rg
- 85 Cn
- 86 Nh
- 87 Fl
- 88 Mc
- 89 Lv
- 90 Ts
- 91 Og
- 92 Un
- 93 Uu
- 94 Uub
- 95 Uuq
- 96 Uuq
- 97 Uuq
- 98 Uuq
- 99 Uuq
- 100 Uuq

**FALCONBRIDGE LIMITED**

**HEENAN TWP PROJECT, PN-668**  
HEENAN, MARION, GENOA TWP'S  
ONTARIO  
**SHEET 4**  
**COMPILATION MAP**

Scale: 1" = 400'

Traced: \_\_\_\_\_ Date: \_\_\_\_\_ Revised: \_\_\_\_\_ Date: \_\_\_\_\_

Drawn: \_\_\_\_\_ Date: \_\_\_\_\_ N.T.S. 4/10/16

