



41015SE0083 2.6594 SWAYZE

010

GEOLOGICAL REPORT

ON

NORMINEX PROPERTY

DENYES - SWAZE TOWNSHIP BOUNDARY

BY

J. F. Davies

RECEIVED

APR 9 1984

MINING LANDS SECTION

January, 1984

Introduction

This report describes the results of a geological survey and examination of gold-bearing quartz veins on the property of Norminex Limited at the boundary between Swayze and Denyes townships, northeastern Ontario. The work was carried out in the latter part of October, 1983.

Location

The property consists of three claims, P682272 to P682274 inclusive, straddling the boundary between Swaze and Denyes townships at approximately 47°49'N latitude and 82°44'W longitude. Chapleau is situated about 32 miles west, and Timmins about 78 miles northeast of the property.

The area is accessible by float- or ski-equipped aircraft which can land on Swaze Lake, about ¼ mile east of the claim group.

Topography

The topography of the area is typical of much of the Precambrian Shield of northeastern Ontario. Low rocky ridges are separated by a few swampy depressions. The rock ridges generally trend NNE and appear to reflect underlying bedrock structure. Most of the rock ridges are covered by a thin mantle of moss and coniferous growth or by glacial material and soil supporting birch and poplar. Very little rock is cleanly exposed making tracing of individual lithologies extremely difficult.

Geology

The claims are underlain mainly by felsic to intermediate volcanic rocks. Three main types can be recognized but because of poor exposure

and their apparent random distribution they have not been shown separately on the accompanying map. Intrusive into the felsic volcanic rocks are a few narrow diabase dykes, some of which are exposed and others which are inferred from magnetic data.

The felsic volcanic unit consists of 1) massive fine rhyolite, 2) crystal tuff or porphyritic rhyolite and 3) quartz-sericite schist. The massive rhyolite is a fine-grained light grey to buff rock consisting largely of quartz and feldspar with minor micas and chlorite. It is generally lacking in any obvious primary structures.

The crystal tuff or porphyritic rhyolite is a medium-grained "seedy" greyish green to pink-coloured rock containing small white to pink feldspar phenocrysts in a greenish grey chloritic matrix. In places where pink feldspars are abundant and the rock is essentially massive, this phase has the appearance of an intrusive rock. However, no cross-cutting relationships were observed. Apart from a weak secondary foliation in places this porphyritic phase is essentially structureless.

A third, apparently minor, phase of the felsic volcanic unit is a thinly laminated, fine-grained, light cream-coloured quartz-sericite schist. This phase may represent sheared rhyolite or, alternatively, a laminated tuff in which the primary foliation has been accentuated by shearing.

A fine- to medium-grained dark grey dense diabase cuts the volcanic rocks on claim P682274. This dyke is reflected in the strong magnetic pattern shown on the magnetic map. The trend of the dyke is NNW approximately parallel to the two main quartz veins on claims P682272 and P682273. A strong NNE-trending magnetic high crosses diagonally through claim P682272 and probably represents an unexposed diabase dyke as discussed below.

Structure and Alteration

Although the volcanic rocks display a regional easterly trending foliation in places, the structures of more economic significance trend northerly. The exposed diabase dyke and the gold-bearing quartz veins occupy the same northerly trending fracture system. In addition remnants of a sheared and altered mafic dyke occur in the same fracture as that occupied by the quartz vein on claim P682273. Clearly this northerly-trending fracture has experienced several periods of adjustment both prior to and following the emplacement of the diabase and the quartz vein.

Several distinct topographic lineaments are clearly visible on air photographs. Ground examination has revealed these to be well-defined linear depressions. The most prominent of these lineaments trends 023° through claims P632272 and P682273. Coincident with this lineament is a strong linear magnetic high similar to that over the diabase on claim P682274. The volcanic rocks exposed on either side of the depression are strongly schistose and carbonatized. The schistosity is parallel or sub-parallel to the strike of the depression. This feature is interpreted as a carbonatized schistose diabase which has weathered differentially relative to the volcanic rocks to form the linear depression. Such a structure can be considered favourable for hosting quartz veins.

A less-pronounced yet distinct, linear depression trends north through the central part of claim P682273, approximately parallel to the quartz vein about 350 feet to the east. A weak magnetic high coincides with this lineament, similar to the weak magnetic high over the quartz vein to the east, along which a small altered diabase dyke occurs.

Gold-Bearing Quartz Veins

The property is part of a group of claims originally staked by

J. F. Derrough in 1932 and on which several gold-bearing quartz veins were discovered. Work done at that time has been summarized by Rickaby (1934).

The main vein, on claim P682273, was trenched for 400 feet and a length of 220 feet of almost continuous quartz was exposed. The quartz occurs in lenses up to 5 feet wide and the footwall rocks are silicified and cut by tension cracks filled with quartz. The vein strikes northerly and dips about 75°E. A narrow highly carbonatized chloritic dyke (probably originally diabase) occurs on the footwall side of the vein zone.

Rickaby (1934) reports assay results from chip samples across a wide part of the vein:

	<u>oz. Au/ton</u>
a) 3 inches, quartz with heavy sulfide	2.22
b) 24 inches, chiefly quartz	0.15
c) 36 inches, altered wall-rock	0.03
d) 56 inches, quartz	0.24
e) 24 inches, quartz	0.32

The vein material is well-fractured and more than one generation of quartz is apparent. Sulfides occur in fractures in the quartz and consist mainly of pyrite, chalcopyrite and minor galena. Pyrite is also present in the silicified volcanic wallrock and in the carbonatized diabase.

During the present work the trenches were partly cleaned out and a series of chip and grab samples taken. The sample plan is attached.

	<u>Oz. Au/ton</u>
D-1 Carbonatized diabase, 1% finely disseminated pyrite	0.01
D-2 White quartz and chalcopyrite	1.65

	<u>oz Au/ton</u>
D-3 Silicified wall-rock, irregular ½" patches of vein quartz, minor disseminated pyrite	0.03
D-4 Sheared wallrock with 1/20" seams of fine pyrite	0.06
D-5 Light dense massive silicified wallrock, minor fine pyrite	0.02
D-6 Heavily carbonatized diabase, fine disseminated pyrite	0.09
D-7 Sheared carbonatized wallrock, no visible sulfides	0.01
D-8 White cherty silicified with small small clots of fine pyrite	0.07
D-9 Light silicified, minor disseminated pyrite and irregular ½" patches quartz	0.04
D-10 Vein quartz, fine disseminated pyrite	0.11

Rickaby (1934) reports that the property was optioned to Kirkland Hudson Bay Mines, who put down eleven short holes on this vein. No assay results were reported.

As in many gold-bearing quartz veins the distribution of gold in this vein appear to be erratic. The trenches should be thoroughly cleaned out and the entire vein re-sampled.

A second large vein, on claim P682272, strikes north and dips almost vertically. It is exposed across widths of 10 to 15 feet and can be traced for approximately 400 feet. At its north end the vein swings northeasterly parallel to the schistosity in the host rhyolite and an adjacent lineament. The vein consists of quartz of two generations, one a fine sugary mixture of quartz and carbonate which occurs largely of breccia-like fragments embedded in white glassy quartz. The wallrocks are somewhat carbonatized. Sulfides, largely pyrite, chalcopyrite and galena, occur sparsely as narrow streaks occupying fractures in the quartz. Rickaby (1934) reports that

channel sampling revealed low values in gold. Time did not permit sampling of this vein during the present work. However, the vein is well exposed in a number of trenches and should be re-sampled.

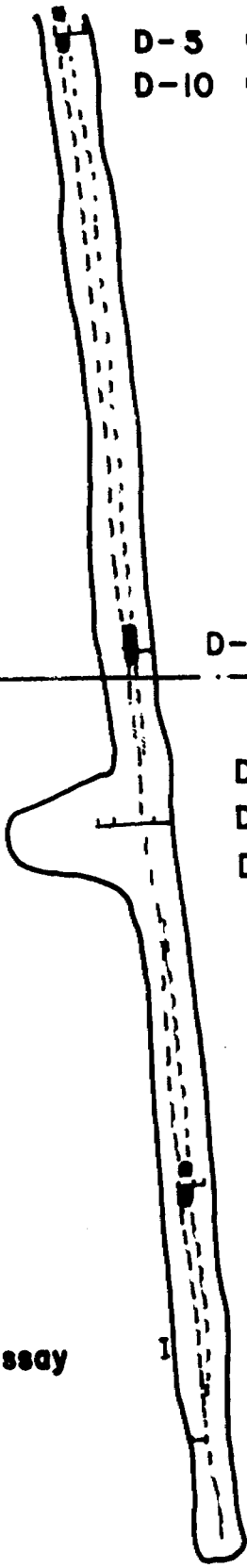
A considerable amount of trenching was done on claim P682274 in 1932 by Dome Mines Limited (Rickaby, 1934). Most of these trenches are now filled and little rock is exposed. Numerous small veins, some carrying gold, are reported. These veins strike northerly, parallel to the other veins.

Other Potential Vein-bearing Structures

The linear topographic depressions situated on claims P682272 and 682273 warrant investigation. These have been described in the section on Structure and Alteration. Rock exposed along the edges of these depressions should be sampled and assayed for trace amounts of Au, Cu and possibly As. Soil geochemistry may also be useful, if appropriate samples can be obtained.

Recommendations

1. All of the trenches should be cleaned out and the surface exposures of the veins systematically sampled.
2. Rock exposures along the edges of the lineaments should be sampled and analyzed for trace amounts of Au, Cu, and As.
3. Soil geochemical surveys should be conducted over the entire property.
4. At least two drill holes should be put down on the lineament trending 023° through claims P682272 and P682273 and a further two on the lineament trending north through claim P682273. Decisions as to where to locate these holes may depend on the results of the geochemical work.



oz./T
 D-5 Grab 0.02 East
 D-10 Grab 0.11 West

2.6544 (dup)

L 24 S

D-8 Grab 0.07 oz./T

oz./T
 D-9 Chip 0.04/24" East
 D-4 Chip 0.06/48" Center
 D-7 Chip 0.01/18" West

oz./T
 D-3 Chip 0.03/18" East
 D-2 Chip 1.65/24" West

LEGEND

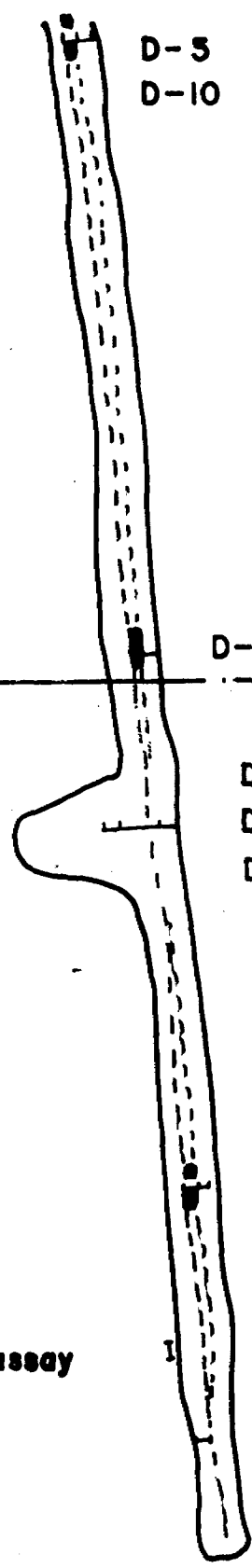
- Sample location and assay
- Vein

D-1 Grab 0.01 oz./T
 D-6 Grab 0.09 oz./T

**ASSAY RESULTS No 1 VEIN
 SWAYZE LAKE PROPERTY
 NORMINEX LTD.**

Scale 1" = 20'

JAN. 1984



oz./T
 D-5 Grab 0.02 East
 D-10 Grab 0.11 West

L 24 S D-8 Grab 0.07 oz./T

oz./T
 D-9 Chip 0.04/24" East
 D-4 Chip 0.06/48" Center
 D-7 Chip 0.01/18" West

oz./T
 D-3 Chip 0.03/18" East
 D-2 Chip 1.65/24" West

LEGEND

- Sample location and assay
- Vein

D-1 Grab 0.01 oz./T
 D-6 Grab 0.09 oz./T

**ASSAY RESULTS No 1 VEIN
 SWAYZE LAKE PROPERTY
 NORMINEX LTD.**

Scale 1" = 20'

JAN. 1984

2.6571



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020

MAGNETOMETER SURVEY
FOR
NORMINEX LIMITED
DENYES-SWAYZE TOWNSHIP CLAIMS

L.D.S. Winter
B.A.Sc., M.Sc., F.G.A.C.
December 16, 1983

1. INTRODUCTION

Norminex Limited holds three claims in Denyes and Swayze townships, Porcupine Mining Division, Ontario. The writer was requested by Dr. J. F. Davies, vice-president of Norminex Limited to lay out lines on the claim group and conduct a magnetometer survey of the property along lines spaced at 400 foot intervals.

The work was done by and under the supervision of the author on October 20 to 23 inclusive, 1983. The following report outlines the work done and presents the results of the survey.

2. PROPERTY

2.1 LOCATION

The claims are located between the 4 and 5 mile posts on the north-south boundary between Denyes and Swayze townships, Porcupine Mining Division, at approximately 47°-49' N. latitude, 82°-44' W. longitude. The town of Chapleau is 32 miles west of the property and Timmins is 78 miles to the northeast.

2.2 ACCESS

The property can only be reached by air. Float or ski equipped aircraft can land on Swayze Lake 1/4 mile east of the property.

2.3 TOPOGRAPHY AND VEGETATION

The area is typical of the Canadian Shield with low relief consisting of swampy areas and adjacent bedrock ridges covered by a thin layer of glacial drift. A number of northeast trending swamps and valleys are considered to be controlled by the bedrock geology.

The ridges are forested with birch, poplar, jackpine and spruce with spruce and alders common in the wet areas and swamps.

3. GEOLOGY

This area of the Canadian Shield is underlain by an approximately east-west trending, metamorphosed, folded and faulted sequence of Archean volcanic and sedimentary rocks. On the 3 claims the bedrock units consist of carbonatized and sericitized felsic metavolcanics. These felsic metavolcanics are generally well foliated to schistose and are intruded by felsite dikes. Diabase dikes are present as northerly trending intrusives. Gold mineralization, where observed, is associated with minor sulphide mineralization, carbonatization, sericitization, silicification and quartz veining.

Following an extensive period of erosion the Precambrian units were covered in part by Pleistocene deposits of glacial till as well as Recent Stream and swamp deposits.

4. SURVEY GRID

Approximately north-south trending gold-bearing quartz veins had been located on the property in the 1930's (Rickaby, 1934) and air-photo interpretation had indicated a number of north to northeast trending structures. Due to these considerations the picket lines were run east-west, to pick up these north-south trends, even though the volcanic units trend approximately east-west.

The north-south Denyes-Swayze township line was used as a base line, was brushed out, chained and picketed and lines were run east and west from the base line at 200- and 400 foot intervals. The lines were run by compass, and were chained and flagged at 100 foot intervals.

5. MAGNETOMETER SURVEY

5.1 SURVEY PROCEDURE

The magnetometer survey was carried out using a

M^CPhar M700 Fluxgate Magnetometer with readings being taken along east-west picket lines at 50 foot intervals. A base station of 1110 nT was established at the baseline and L0+00 (Map 1). The baseline was surveyed to establish secondary base stations at the intersection of each picket line and the base line. No untoward magnetic disturbances were experienced during the survey and the readings were corrected for diurnal drift by comparison with the secondary base station readings at the beginning and end of each line-loop. The results are plotted and contoured on the enclosed map.

5.2 RESULTS AND INTERPRETATION

The magnetic relief is approximately 2300 nT with the maximum values being in the eastern half of claim P682274 and along a north-northeast trending dike-like feature in the western half of claims P682272 and P682273.

The magnetics suggest there may be 3 volcanic units on the property trending approximately east-west. The most northerly one lies from the northern boundary of claim P682272 to L12S with values of about 1100 nT [±]. The second one lies between L12S and L20S and shows values of 900 to 1000 nT. A third unit giving values of +1000 nT lies south of L20S.

A series of magnetic highs, from L24S at the west claim boundary to L0+00S at 5+50W, suggests a dike-like feature, probably a diabase dike. Similar features are present at L28S:8+50W to L18S:6+00W and L28S:1+50W to the baseline at 24+00S and are interpreted to be mafic dikes.

The relatively high magnetics with associated lows in the eastern part of claim P682274 are considered to be a north-south fault structure, possibly with a mafic dike along its eastern edge.

The approximately north-south trending, ill-defined zone of irregular magnetics lying between the baseline and 6+00W may be a zone of shearing, dike intrusion and mineralization since it is within this zone that one gold-bearing quartz vein occurs.

6. SUMMARY AND CONCLUSIONS

The 3 claims in Denyes and Swayze townships were surveyed with a fluxgate magnetometer along lines 400 feet apart and 200 feet apart in some areas. The survey tentatively suggests east-west trending volcanic units cut by north to north-northeast trending diabase and/or mafic dikes as well as zones of shearing, dike intrusion and mineralization. The magnetics do not appear to specifically indicate quartz veining and known gold mineralization.

It is considered that some of the geological features could be better defined by more intermediate lines at 200 foot intervals and if further work is considered for the property it is suggested that this additional magnetic surveying be done.

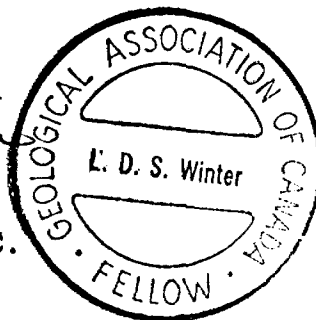
Respectfully submitted,

L.D.S. Winter

L.D.S. Winter

B.A.Sc., M.Sc., F.G.A.C.

December 16, 1983



Personnel Names, Addresses and Man Days

Field Work

L.D.S.Winter	1849 Oriole Dr. Sudbury, Ontario P3E 2W5	4 Man-days
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R.E.Whitehead	1239 Paquette St. Sudbury, Ontario P3A 3X9	
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Reports and Map

L.D.S.Winter		2½ Man-days
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PROGRAM STATISTICS

SURVEY GRID

0.5 line-miles chained and picketed
3.4 line-miles chained and flagged

MAGNETOMETER SURVEY

3.4 line-miles surveyed
368 station readings

CLAIMS SURVEYED

P682272	100%
P682273	100%
P682274	100%

REFERENCES

1. Rickaby, H.C., 1934 Geology of the Swayze Gold Area,
Ontario Dept. of Mines,
Vol. 43, Pt.3



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The Mir

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900

Type of Survey(s): Geological and Geophysical Township or Area: SW 2E and Denys Tps.

Claim Holder(s): Norminx Limited Prospector's Licence No.:

Address: 1239 Paquette Street, Sudbury, Ontario P3A 2X9

Survey Company: Norminx Limited Date of Survey (from & to): 20 10 83 to 23 10 83 Total Miles of line Cut: 4

Name and Address of Author (of Geo-Technical report): J.F. DAVIES and L.D.S. Winter (address as above)

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	40
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	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	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	682272				
	682273				
	682274				

RECEIVED
MAY 11 1984
LANDS SECTION

RECEIVED
MAR 5 1984

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. **3**

Date: March 3, 1984 Recorded Holder or Agent (Signature): [Signature]

For Office Use Only

Total Days Cr. Recorded: 180 Date Recorded: March 5/84 Mining Recorder: [Signature]

Date Approved as Recorded: 5.6.84 Station Recorder: [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: J.F. DAVIES, 1239 Paquette Street, Sudbury, Ontario P3A 2X9

Date Certified: March 3, 1984 Certifying (Signature): [Signature]

Type of Survey(s) <i>Geological and Geophysical</i>		Township or Area <i>Swage and Danyas Trgs.</i>
Claim Holder(s) <i>Norminex Limited</i>		Prospector's Licence No. <i>T 1279</i>
Address <i>1239 Paquette Street, Sudbury, Ontario, P3A 3X9</i>		
Survey Company <i>Norminex Limited</i>	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. <i>20 10 83 23 10 83</i>	Total Miles of line Cut <i>4</i>
Name and Address of Author (of Geo-Technical report) <i>J.F. DAVIES and L.D.S. Winter, Norminex Limited as above</i>		

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
<i>P</i>	<i>682272</i>				
	<i>682273</i>				
	<i>682274</i>				
<i>Registered mined made 3/84</i>					
<i>Copy only</i>					

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.

RECEIVED
Total number of mining claims covered by this report of work. 3

Date *Feb. Mar 3/84* Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded	Date Recorded <i>APR - 9 1984</i>	Mining Recorder
	Date <i>MINING LANDS</i> Recorded	Branch Director

SECTION

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
J.F. DAVIES, 1239 Paquette Street Sudbury, Ontario P3A, 2X9

Date Certified *Mar 3/84* Certified by (Signature) *[Signature]*



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 Sauge ind Danges Twp
Claim Holder(s) Norminex Limited

Survey Company Norminex Limited
Author of Report J.F. Davies
Address of Author 1239 Laquette Street Sudbury
Covering Dates of Survey Oct 22 - 23, 1983
(linecutting to office)
Total Miles of Line Cut 3.9

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)
P 682272
P 682273
P 682274

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical
-Electromagnetic _____
-Magnetometer _____
-Radiometric _____
-Other _____
Geological 20
Geochemical _____

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

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

DATE: March 30, 1984 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 25452

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ 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 _____

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 _____

Ministry of Natural Resources

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) MAGNETOMETER
Township or Area DENYES & SWAYZE TWPS.
Claim Holder(s) NORMINEX LIMITED

Survey Company L.D.S. WINTER, GEOLOGICAL CONSULTANT
Author of Report L.D.S. WINTER
Address of Author 1849 ORIOLE DR., SUDBURY, P3E 2W6
Covering Dates of Survey OCTOBER 20 - 23, 1983 INCLUSIVE
(linecutting to office)
Total Miles of Line Cut - 0.5
- CHAINED & FLAGGED - 3.4.

MINING CLAIMS TRAVERSED
List numerically

P 68 22 72
(prefix) (number)
P 68 22 73
P 68 22 74

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

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

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

DATE: Dec. 16/83 SIGNATURE: L.D.S. Winter
Author of Report or Agent

Res. Geol. _____ Qualifications 2 1503

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 368 Number of Readings 368
Station interval 50 feet Line spacing 200 ft & 400 ft.
Profile scale
Contour interval 100nT. and 50nT.

MAGNETIC

Instrument McPHAR M 700
Accuracy - Scale constant 20nT. PER SCALE DIVISION: ESTIMATE TO 5 nT.
Diurnal correction method THEN ALL LINES TIED TO SECONDARY STATIONS
BASE LINE SURVEYED TO ESTABLISH SECONDARY BASE STATIONS
Base Station check-in interval (hours) 0.5 to 0.75 HOURS.
Base Station location and value BASE LINE & L0+00
VALUE: 1110 nT.

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 _____

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 _____

1984 04 27

Your File:
Our File: 2.6594

Mr. Bruce Hanley
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) and Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 682272 et al in the Townships of Swaze and Denyes.

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

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-6918

A. Barr:sc

cc: Norminex Limited
1239 Paquette Street
Sudbury, Ontario
P3A 3X9

Mining Lands Section

File No 2.6594

Control Sheet

TYPE OF SURVEY GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 _____ EXPENDITURE

MINING LANDS COMMENTS:

_____ L.S. Log.

P. Hurst

Signature of Assessor

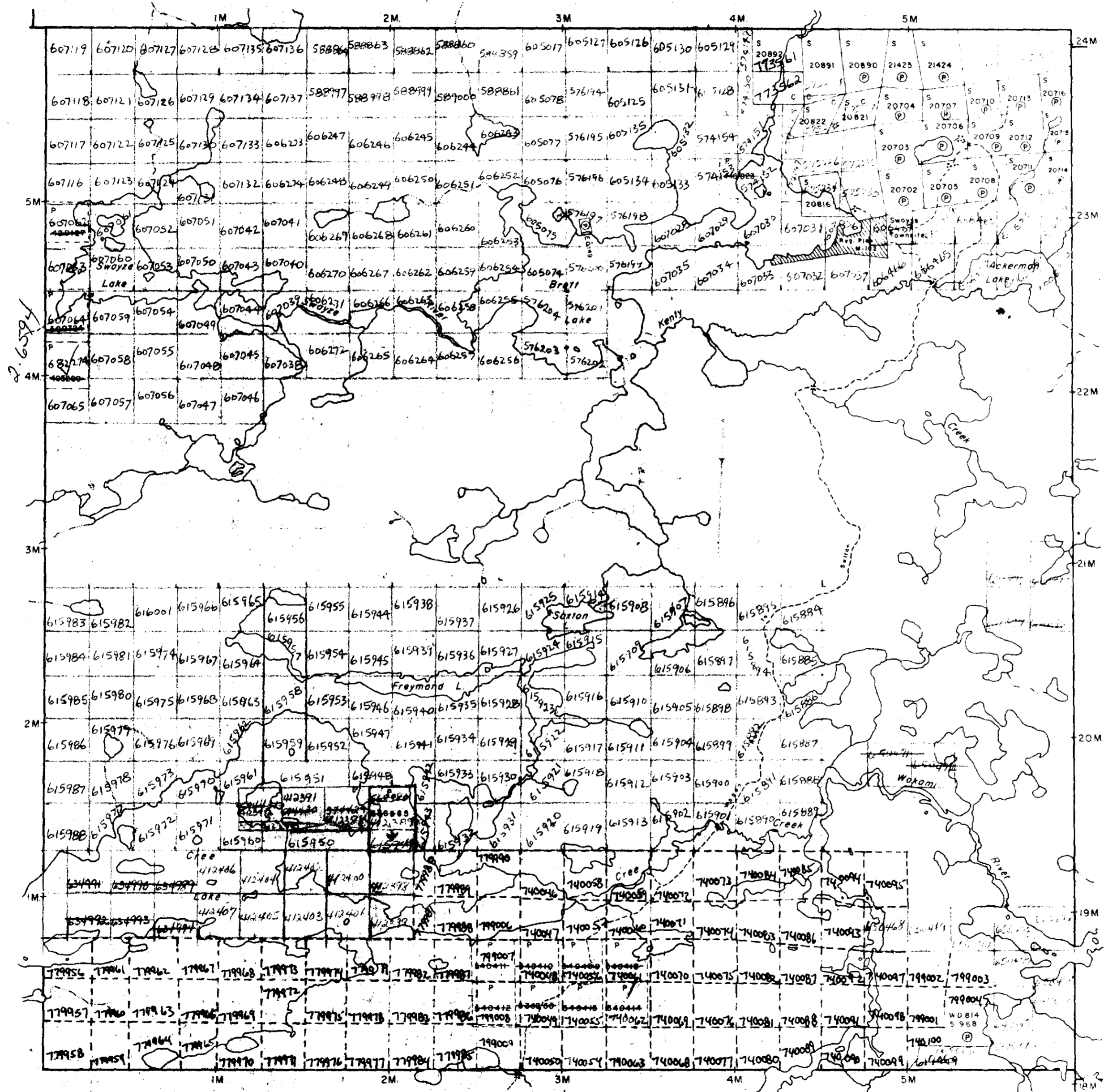
June 22/84

Date

M1120

M1120

Rollo Twp.-M.1082



Denyes Twp.-M.758

Dore Twp.-M.763

Cunningham Twp.-M.744

THE TOWNSHIP OF

SWAYZE

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

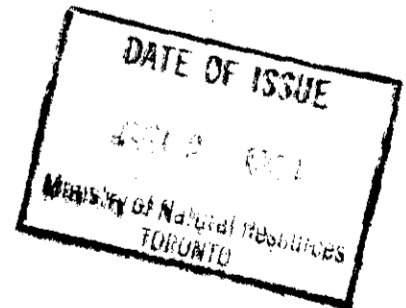
SCALE: 1-INCH=40 CHAINS

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	X
CANCELLED	C.

NOTES

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



PLAN NO. M.1150

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

PWT 3ZYAWS

CARVALHO

OC11.M1

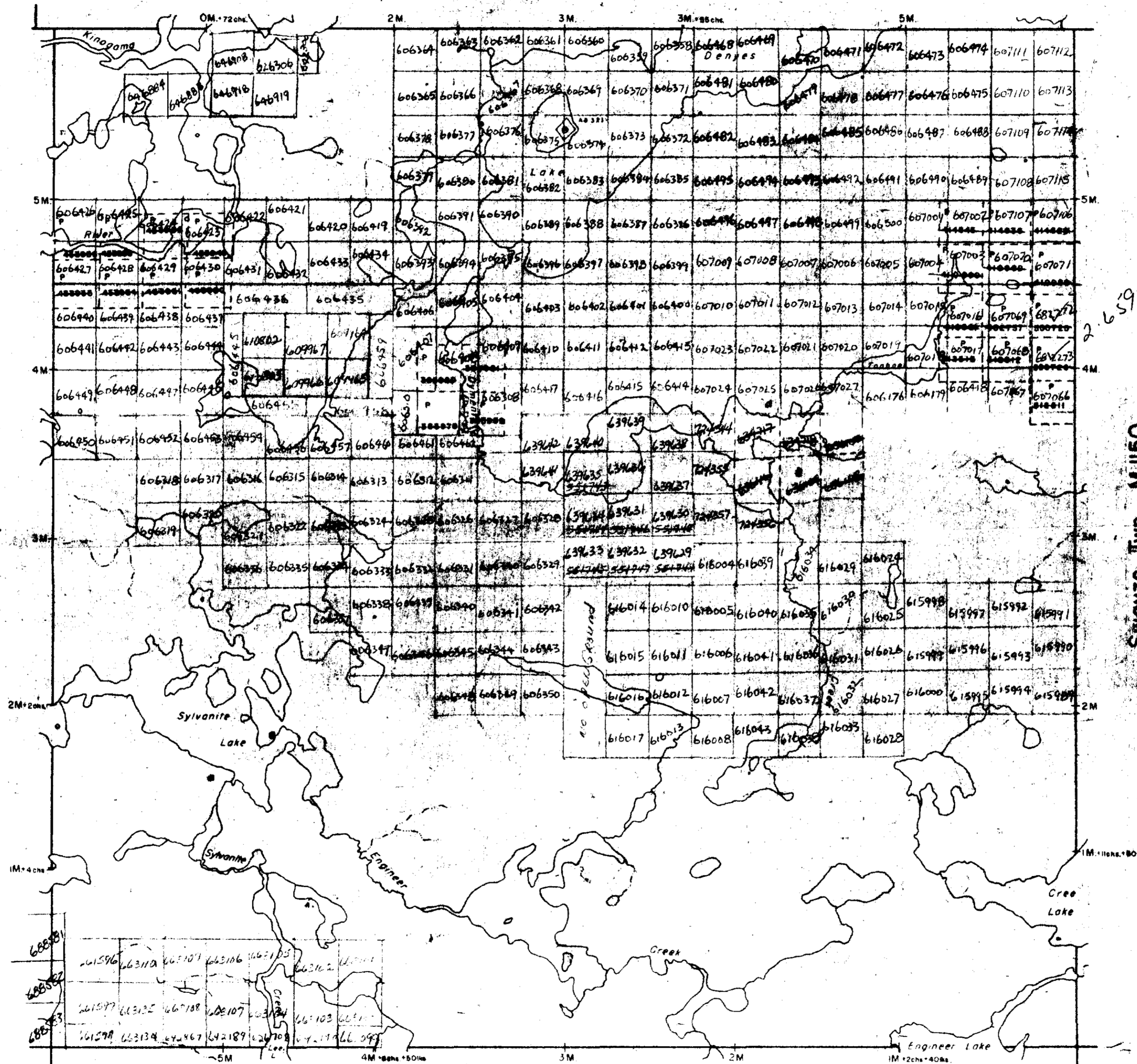


827M

DEWES TWP

827M

Raney Twp. - M.1069



THE TOWNSHIP OF

DENYES

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	⊙
CROWN LAND SALE	⊙
LEASES	⊙
LOCATED LAND	⊙
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 MURKES	—
MINES	—
CANCELLED	⊙
PATENTED FOR S.R.O.	⊙

NOTES

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

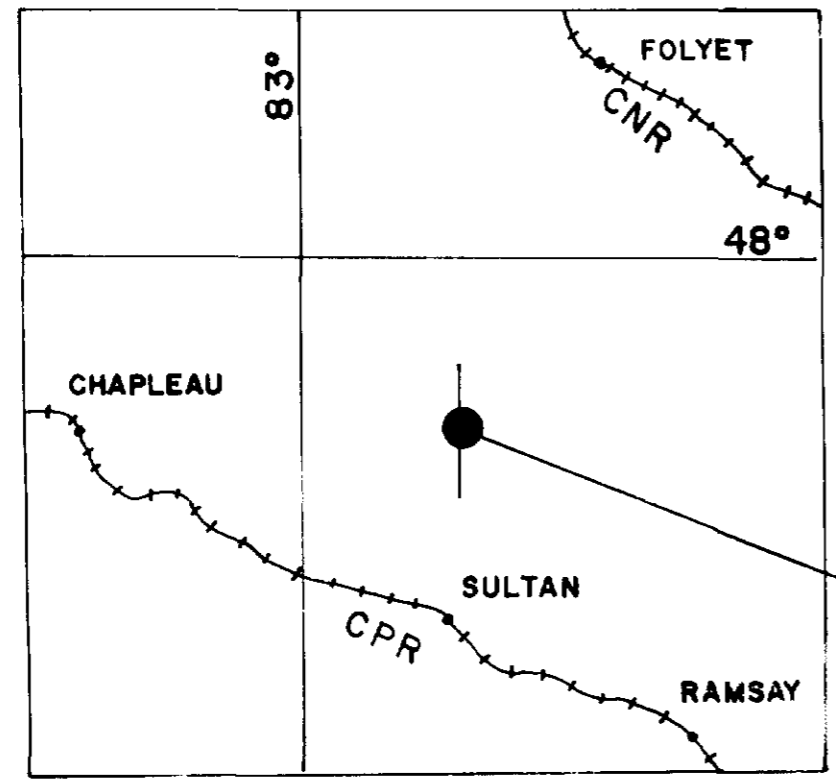
DATE OF ISSUE
 JUL 25 1994
 Ministry of Natural Resources
 TORONTO

PLAN NO. - M.758

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



410155E0083 2.6594 SWAYZE

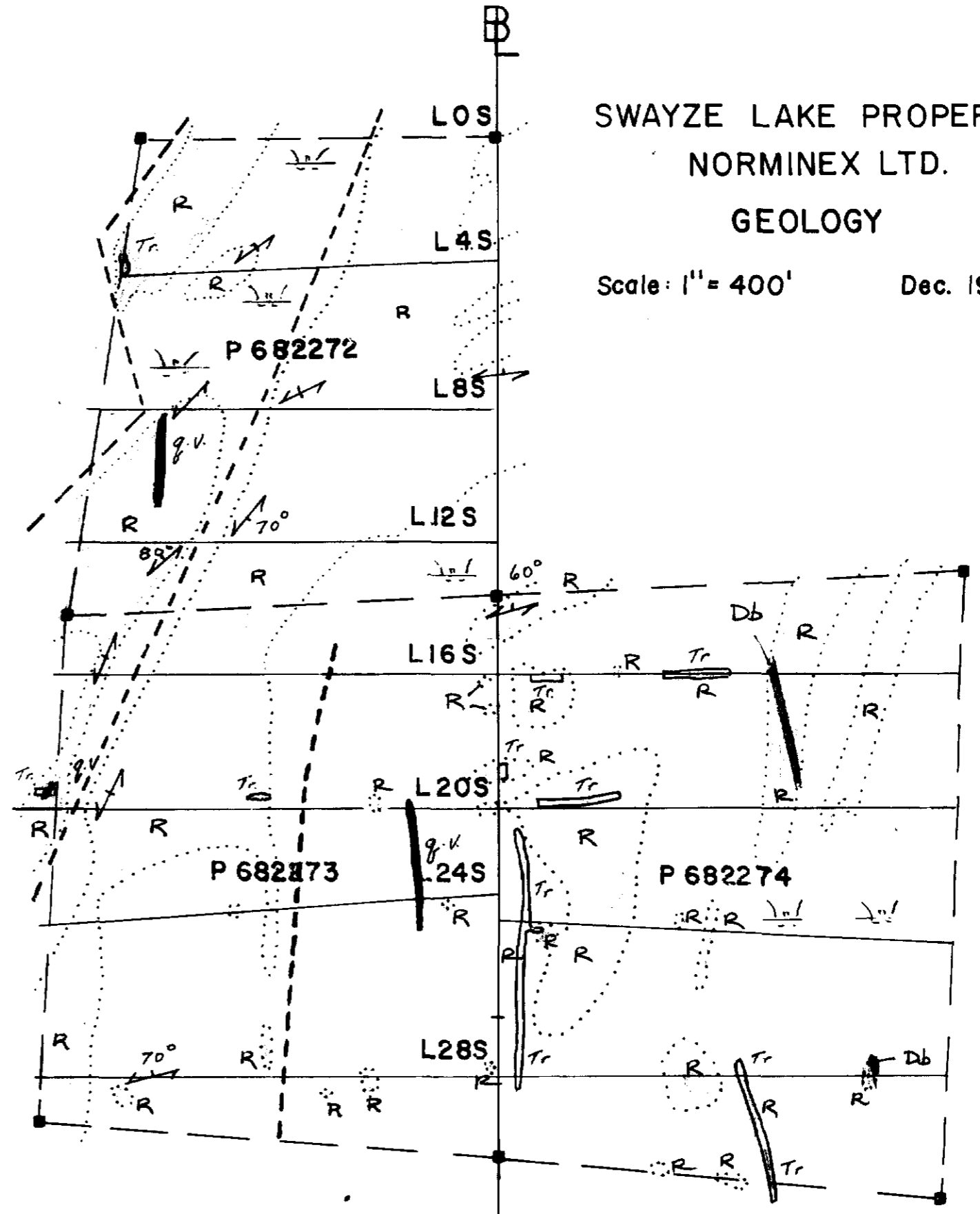


INDEX MAP 1" = 16 Mi.

- Diabase
- Rhyolite, crystal tuff, quartz sericite schist
- Schistosity
- Quartz vein
- Linear topographic depression
- Trench
- Outcrop area
- Swamp
- Claim post and lines
- Survey lines

SWAYZE LAKE PROPERTY
NORMINEX LTD.
GEOLOGY

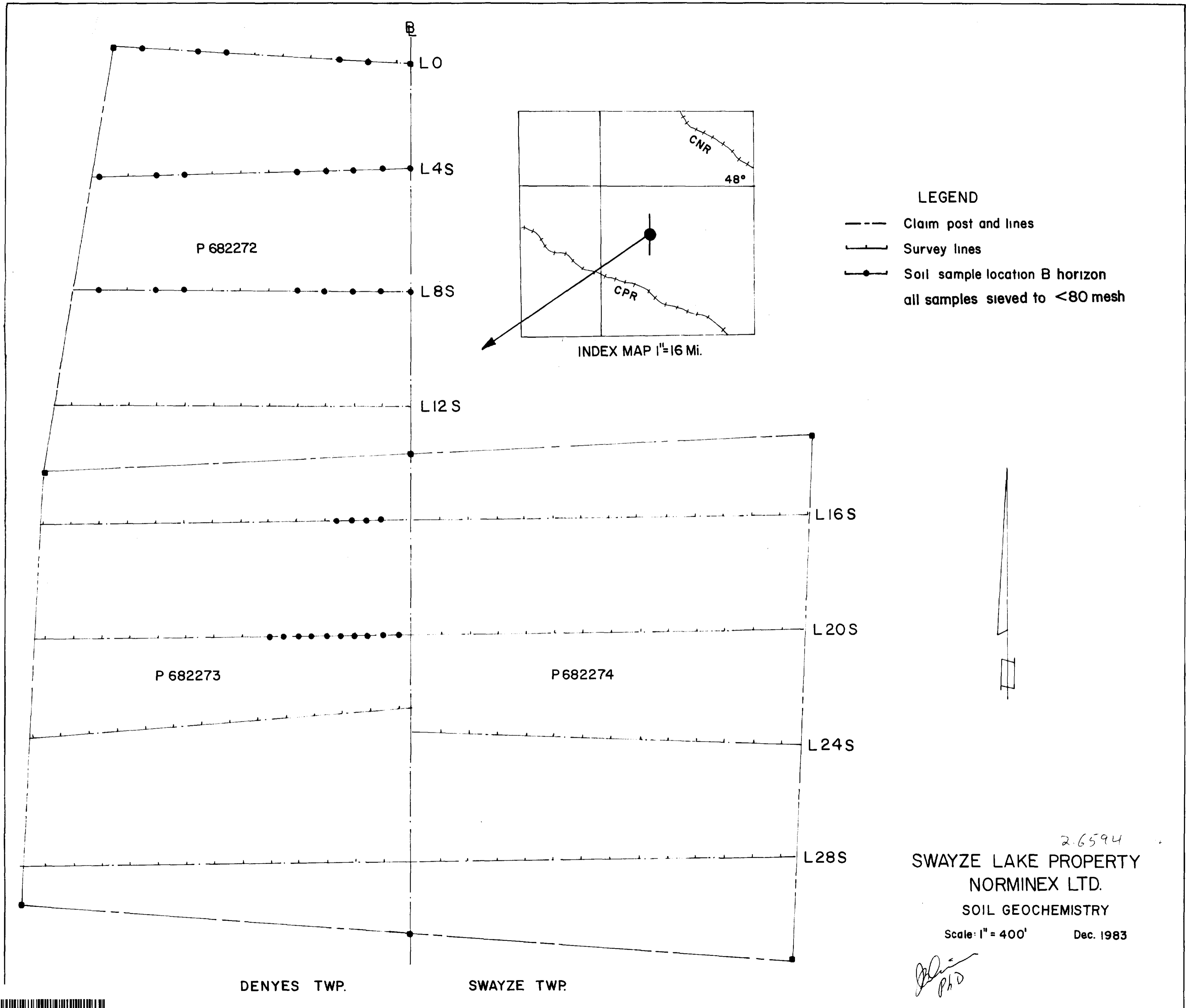
Scale: 1" = 400' Dec. 1983



DENYES TWP. SWAYZE TWP.

[Handwritten signature] Ph.D.





LEGEND

- Claim post and lines
 - Survey lines
 - Soil sample location B horizon
- all samples sieved to <80 mesh

INDEX MAP 1"=16 Mi.

2.6594
 SWAYZE LAKE PROPERTY
 NORMINEX LTD.

SOIL GEOCHEMISTRY

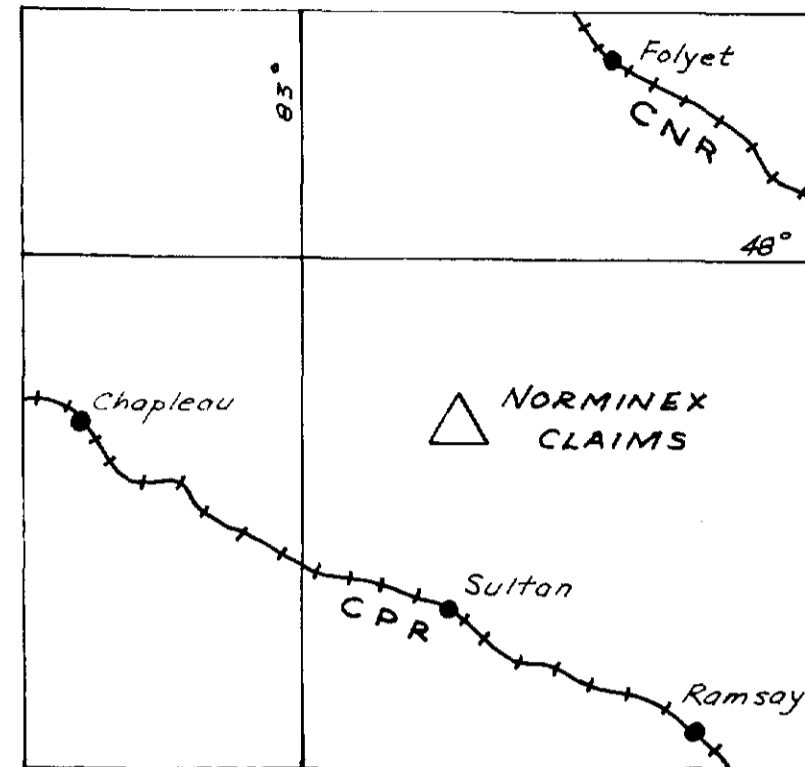
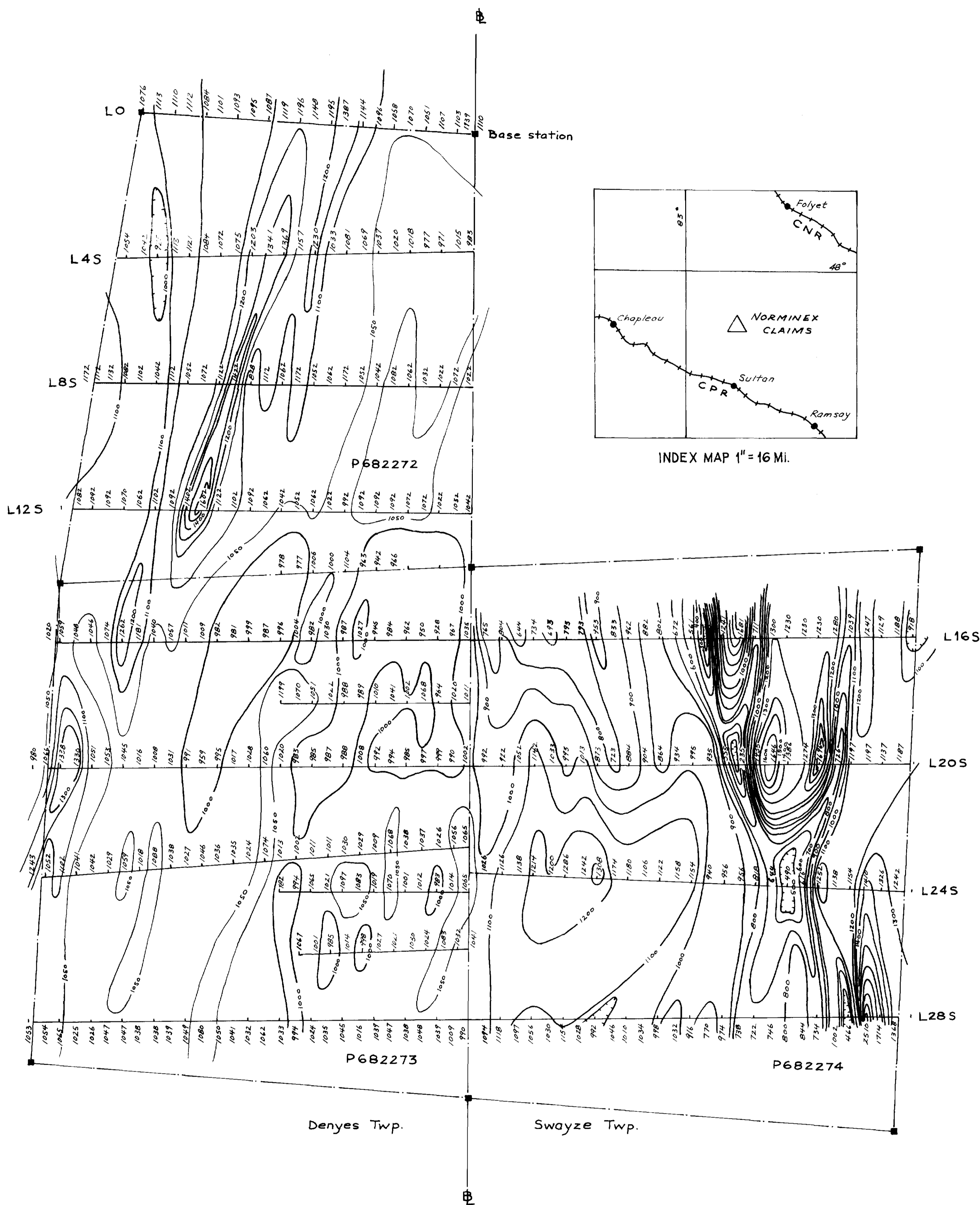
Scale: 1" = 400'

Dec. 1983

[Handwritten signature]
 PhD



410155E0003 2.6594 SWAYZE



INDEX MAP 1" = 16 Mi.

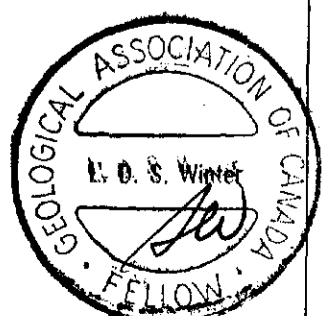
LEGEND

- Claim post & claim line ————■———
- Flagged survey line ————|———
- Isomagnetic lines ————|———
 - interval 100nT.
 - 50nT. between 1000nT. & 1100nT.
- Magnetic low- ○
- Base station- BL: L0+00: 1110 nT.
- Instrument- McPHAR M700

**NORMINEX CLAIM GROUP
 DENYES & SWAYZE TWP
 MAGNETOMETER SURVEY**

Scale 1" = 200'

December '83
 L.D.S. Winter



26594

