



42A12SE0113 2.4383 JAMIESON

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2.4383

Report on

Magnetometer Surveys

Kamiskotia Area Grids

Godfrey and Jamieson Townships

Porcupine Mining Division

NTS 42 A/5,12

Timmins, Ontario

November 26, 1981

L. A. Baldwin

Norcen Energy Resources

**RECEIVED**

NOV 27 1981

MINING LANDS SECTION

## SUMMARY AND CONCLUSIONS

A ground proton precession magnetometer survey was carried out over four properties held by Norcen Energy Resources Limited in the Kamiskotia area. These properties are located in Godfrey and Jamieson Townships and comprise a total of 100 claims.

These surveys were not particularly useful in the tracing out of units mapped in metavolcanic rocks. The numerous magnetite bearing diabase dykes that swarm through all other rocks in the area exhibited distinctive linear anomalies on all surveys.

## INTRODUCTION

This report outlines the results of magnetometer surveying on four properties held by Norcen Energy Resources in the Kamiskotia area. The Steep, Long, and Forbes grids are located in the western half of Godfrey Township and the Kam grid in the southwestern part of Jamieson Township. The surveys were undertaken to aid in delineation of geological map units.

The claims covered by the surveys are described below and listed by number on the enclosed lists and sketches:

### Kam Group - Jamieson Township, 41 claims

<u>Concession 3</u>	approximately	SW $\frac{1}{4}$ S $\frac{1}{2}$ Lot 7
(concession not surveyed)	"	S $\frac{1}{2}$ Lot 8
	"	whole of Lot 9
	"	S $\frac{1}{2}$ S $\frac{1}{2}$ Lot 10
<u>Concession 2</u>	approximately	W $\frac{1}{2}$ Lot 7
(partly surveyed)	"	whole of Lot 8
		whole of Lot 9
		NW $\frac{1}{4}$ N $\frac{1}{2}$ Lot 10
		E $\frac{1}{2}$ N $\frac{1}{2}$ Lot 10
		NE $\frac{1}{4}$ S $\frac{1}{2}$ Lot 10
		NE $\frac{1}{4}$ N $\frac{1}{2}$ Lot 11
<u>Concession 1</u>		NW $\frac{1}{4}$ N $\frac{1}{2}$ Lot 7

### Steep group - Godfrey Township, 10 claims

<u>Concession 6</u>	SW $\frac{1}{4}$ S $\frac{1}{2}$ Lot 8
	SE $\frac{1}{4}$ S $\frac{1}{2}$ Lot 9
	SE $\frac{1}{4}$ S $\frac{1}{2}$ Lot 10
<u>Concession 5</u>	W $\frac{1}{2}$ N $\frac{1}{2}$ Lot 8
	E $\frac{1}{2}$ N $\frac{1}{2}$ Lot 9
	SE $\frac{1}{4}$ N $\frac{1}{2}$ Lot 9
	E $\frac{1}{2}$ N $\frac{1}{2}$ Lot 10

Long Group - Godfrey Township, 38 claims

Concession 5

S $\frac{1}{2}$  S $\frac{1}{2}$  Lot 7

SE $\frac{1}{4}$  S $\frac{1}{2}$  Lot 8

Concession 4

whole of Lot 7

S $\frac{1}{2}$  S $\frac{1}{2}$  Lot 8

Concession 3

NW $\frac{1}{4}$  N $\frac{1}{2}$  Lot 7

E $\frac{1}{2}$  N $\frac{1}{2}$  Lot 7

S $\frac{1}{2}$  Lot 8

NE $\frac{1}{4}$  N $\frac{1}{2}$  Lot 8

W $\frac{1}{2}$  S $\frac{1}{2}$  Lot 8

Concession 2

N $\frac{1}{2}$  Lot 7

N $\frac{1}{2}$  S $\frac{1}{2}$  Lot 7

SW $\frac{1}{4}$  S $\frac{1}{2}$  Lot 7

N $\frac{1}{2}$  Lot 8

N $\frac{1}{2}$  S $\frac{1}{2}$  Lot 8

SE $\frac{1}{4}$  N $\frac{1}{2}$  Lot 9

NE $\frac{1}{4}$  S $\frac{1}{2}$  Lot 9

Forbes Group - Godfrey Township, 11 claims

Concession 3

N $\frac{1}{2}$  Lot 10

N $\frac{1}{2}$  S $\frac{1}{2}$  Lot 10

SW $\frac{1}{4}$  S $\frac{1}{2}$  Lot 10

Concession 2

N $\frac{1}{2}$  Lot 10

KAM GROUP

Jamieson Township

Claims covered by magnetometer survey

P583555	P586087
P583556	P586088
P583557	P586089
P583558	P586090
P583559	P586145
P583560	P586146
P585012	P586147
P585013	P597476
P585014	P597477
P585699	P597478
P585701	P619035
P585702	P619037
P585716	P619038
P585717	P619039
P586079	P619040
P586080	P619041
P586081	P619042
P586082	P619043
P586083	P619044
P586085	P619045
P586086	

Total: 41 claims

STEEP GROUP

Godfrey Township

Claims covered by magnetometer survey

P585000

P585001

P585002

P585696

P585697

P585698

P585714

P585715

P585718

P586078

Total: 10 claims

LONG GROUP

Godfrey Township

Claims covered by magnetometer survey

P529926	P584688
P529927	P584689
P529928	P584690
P585929	P584691
P529930	P584692
P583804	P585003
P583875	P585004
P583994	P585005
P583995	P585006
P583996	P585007
P583997	P585008
P583998	P585009
P584681	P585010
P584682	P585011
P584683	P585399
P584684	P585400
P584685	P585401
P584686	P585706
P584687	P617679

Total: 38 claims

FORBES GROUP

Godfrey Township

Claims covered by magnetometer survey

P583991

P583992

P583993

P585389

P585390

P585391

P585392

P585393

P585394

P585395

P585396

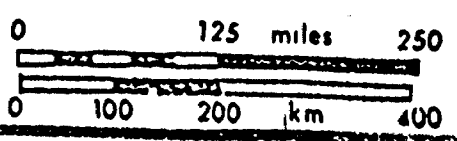
Total: 11 claims

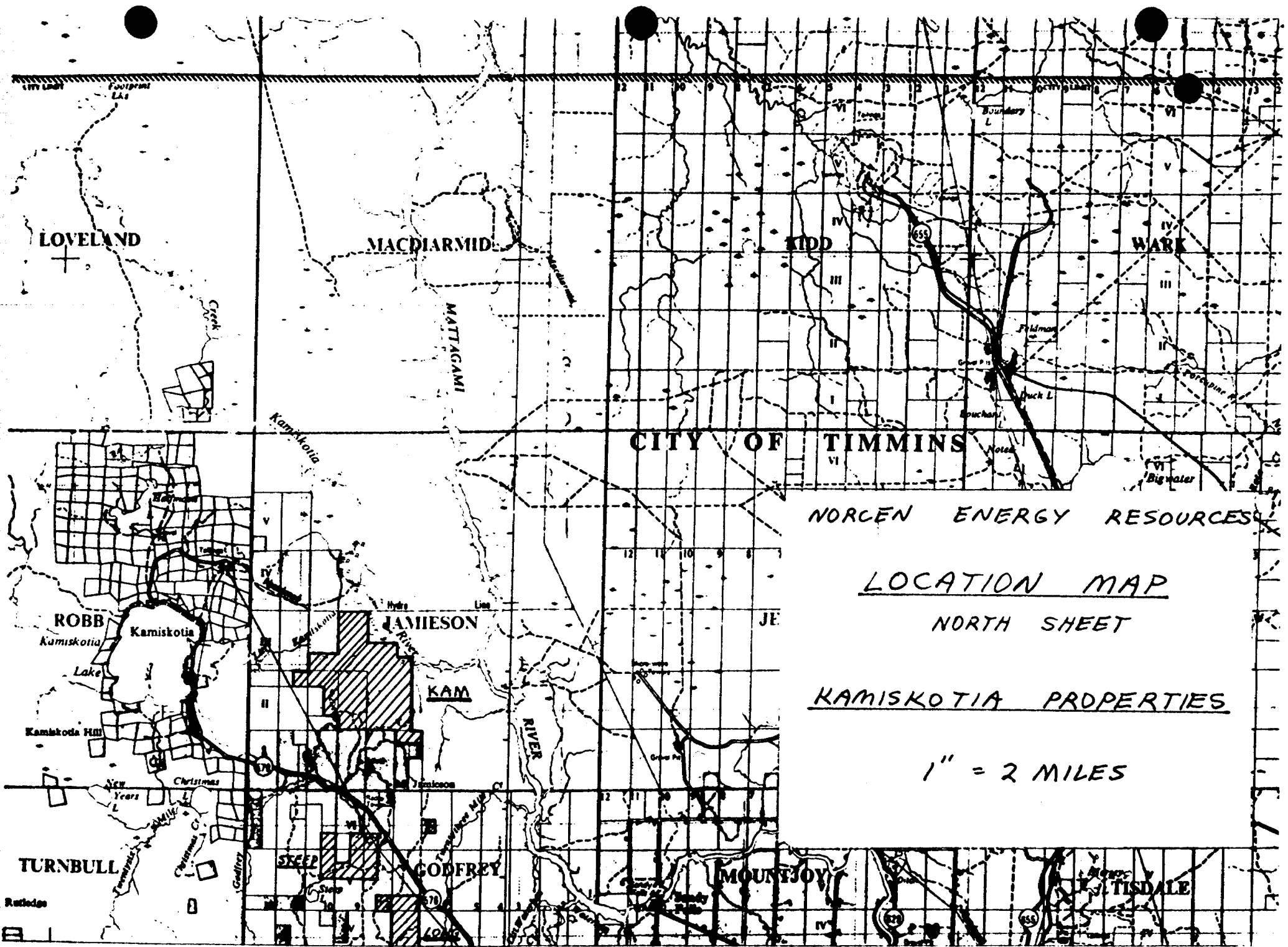




**Norcen**  
Energy Resources Limited

FIGURE 1  
**LOCATION MAP**





CITY OF TIMMINS

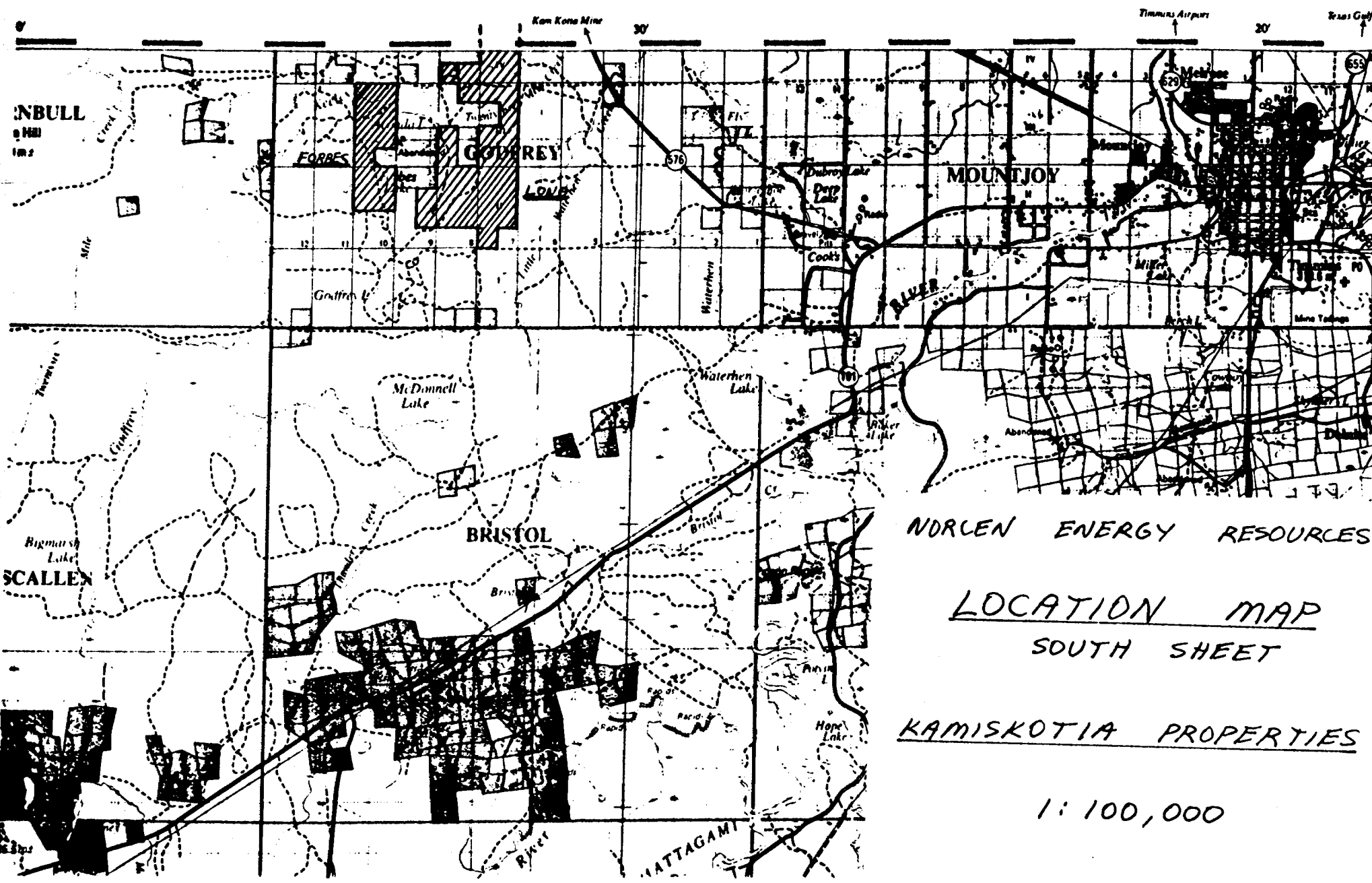
NORCEN ENERGY RESOURCES

LOCATION MAP

NORTH SHEET

KAMISKOTIA PROPERTIES

1" = 2 MILES



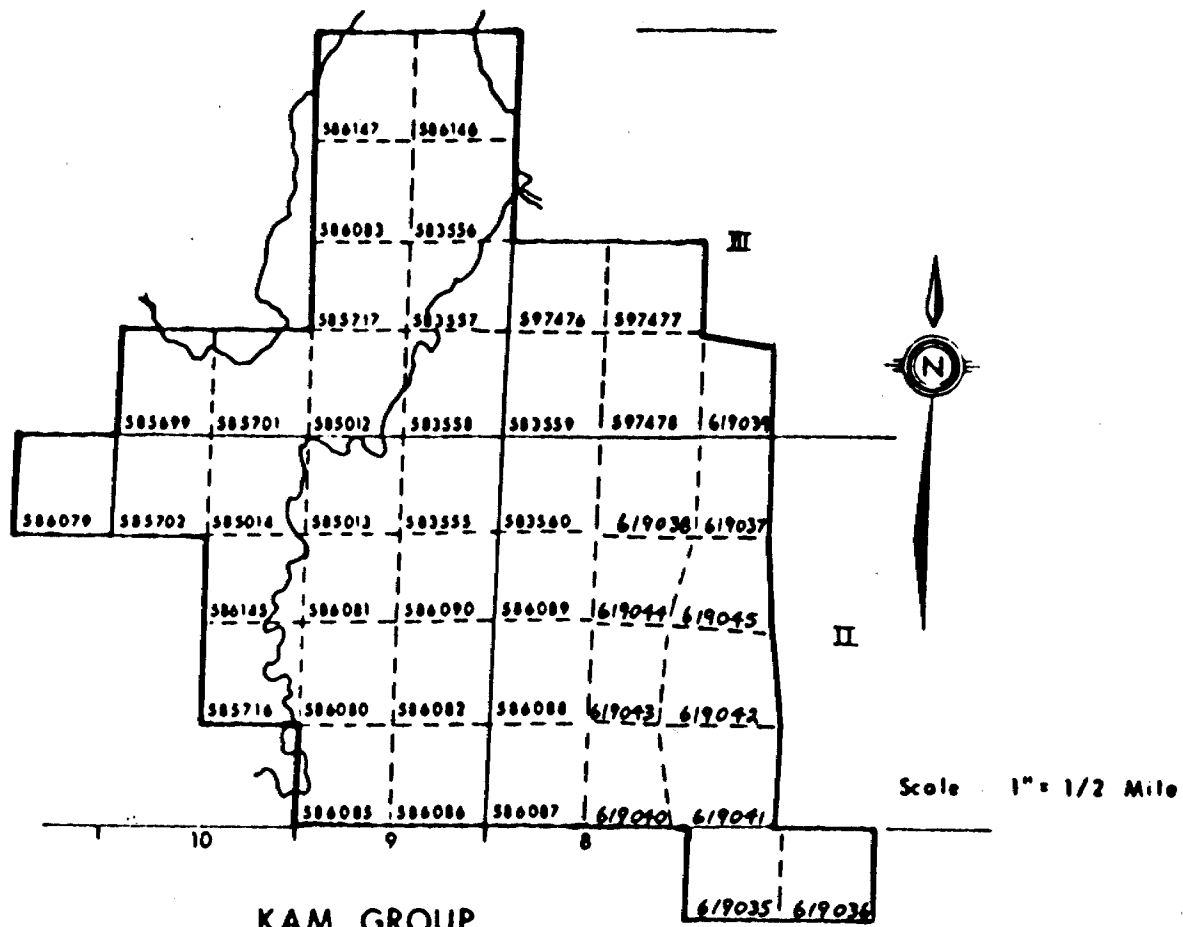
NORLEN ENERGY RESOURCES

LOCATION MAP

SOUTH SHEET

KAMISKOTIA PROPERTIES

1:100,000



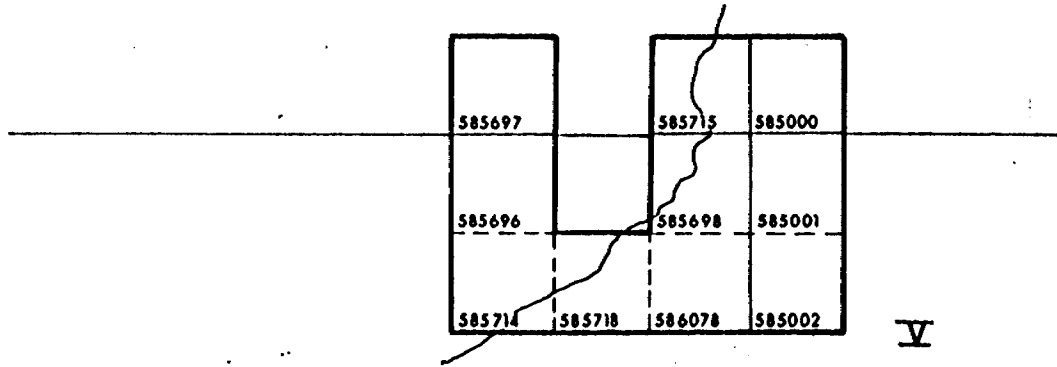
KAM GROUP

Jamieson Township

Scale 1" = 1/2 Mile



VI

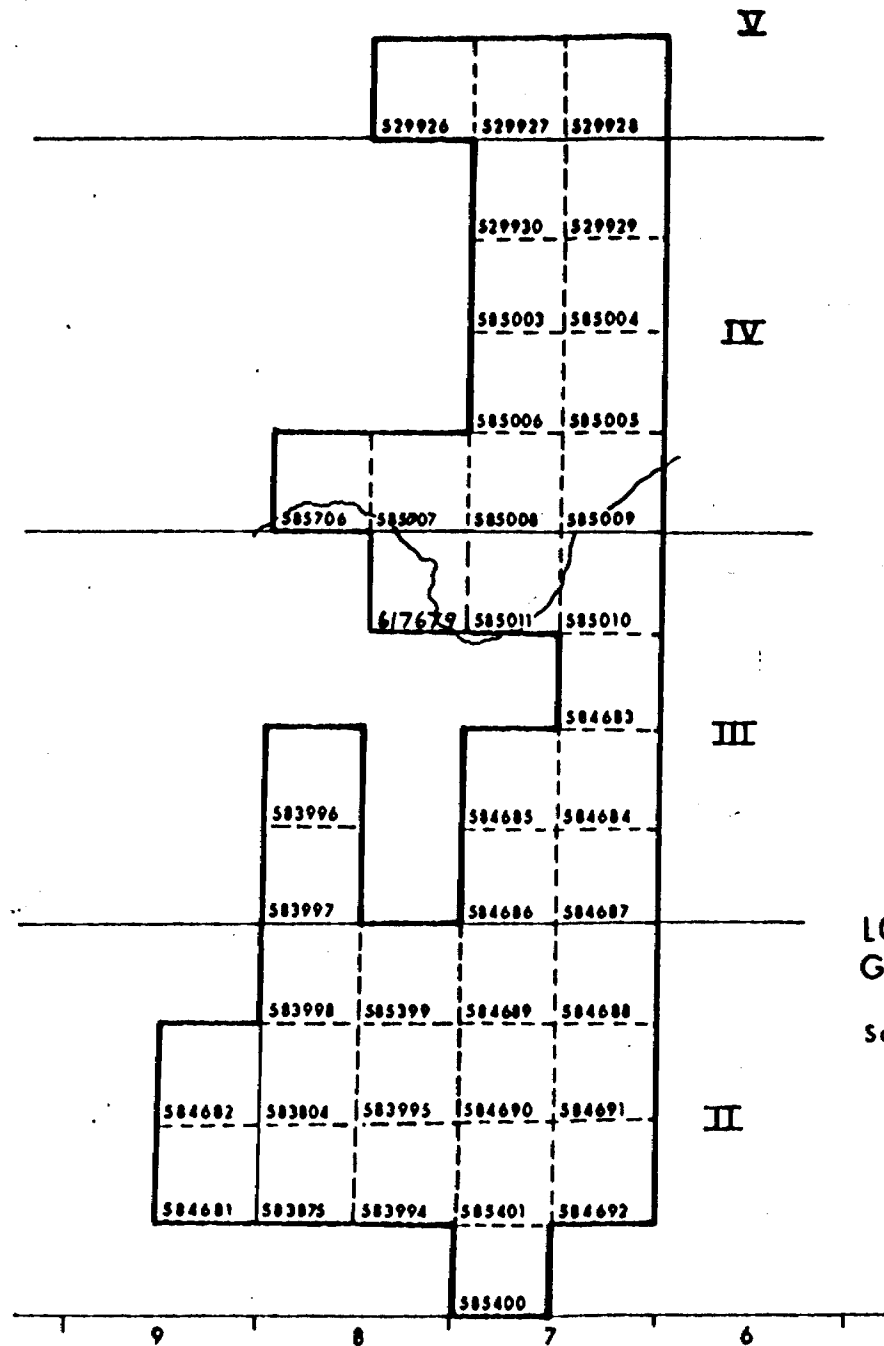


V



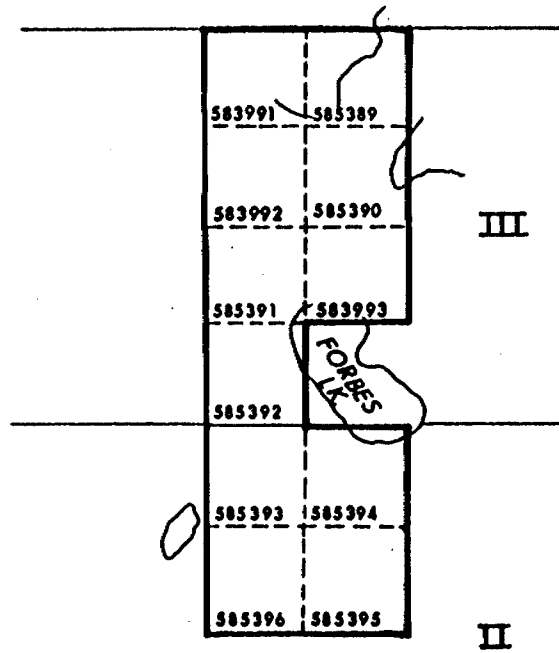
STEEP GROUP  
Godfrey Township

Scale : 1" = 1/2 Mile



LONG GROUP  
Godfrey Township

Scale : 1" = 1/2 Mile



FORBES GROUP  
Godfrey Township

Scale: 1" = 1/2 Mile



## LOCATION AND ACCESS

The properties are distributed to the north and south of Mount Jamieson which straddles the Godfrey-Jamieson Township line just north of Highway 576 approximately 16 kilometres WNW of Timmins.

Entry into the Kam grid is possible via a network of gravel roads that commences on Highway 576 about three kilometres west of the turnoff to the Kamiskotia ski hill. These roads lead to a gravel pit at the southeast end of the grid and traverse the central part of the claims to near the mouth of Godfrey Creek.

All Godfrey Township grids are accessible by the gravel road that leads to the former Genex Mine in Lot 9, Concession 3. This road starts opposite the ski hill turnoff and heads south for about five kilometers roughly following the line between Lots 8 and 9. Several trails and old roads branch off the Genex road on to the Forbes and Long properties.



## TOPOGRAPHY

All properties exhibit local to large elongate ridges of outcrop separated by areas covered with variably swampy lacustrine clay deposits or drier sand and gravel esker and outwash deposits.

On the Kam grid, outcrops and cover of sand and gravel predominate in the central and eastern portions of the claims. Generally swampier terrain with fewer outcrops occurs in the western part of the property along Godfrey Creek and the Little Kamiskotia River. Several large cliffs occur along the northeast side of the long outcrop ridge that traverses the northeast part of the claims.

Outcrop areas with sandy outwash and local swamp cover most of the Steep Grid. Swampy terrain occurs near Godfrey Creek in the central part of the claims.

Similar rocky terrain occurs close to Steep in the extreme northwest and in local areas in the central portions of the Long grid. Most of the remainder is swamp with little outcrop, especially to the south and east and along Twenty-three Mile Creek.

The Forbes Group is dominated by outcrop ridges to the north, east and southeast. Swamp occurs to the southwest and west of Forbes Lake.

## PREVIOUS WORK

Most earlier work has concentrated on development on and exploration near the former Canadian Jamieson Mine north of the Steep claims and the former Genex Mine between the Forbes and southern Long Groups.

Relatively little diamond drilling has been undertaken on the Norcen claims themselves. However, numerous old trenches occur in outcrop areas, especially in the central part of the Kam property and on most outcrop areas of the Steep and Long claims. Little work is reported on Forbes. The Steep claims and several of the Kam claims had been patents that were staked by Norcen upon their cancellation in 1980.

The formerly producing Jameland and Kam Kotia Mines occur to the northwest of the Kam Group in rocks that are probably in part stratigraphic equivalents to those underlying the Kam property.

## GENERAL GEOLOGY

All properties are underlain predominantly by meta-volcanic rocks that wrap around the large Kamiskotia Intrusive Complex that is centred in Robb Township to the west. Geological strikes generally maintain this arcuate distribution from northwesterly in Jamieson to northerly in Godfrey. Dips are mostly steep though moderate dips have been inferred by some workers in the vicinity of the Steep Group and the northern part of the Long Group. Stratigraphic tops are variable in Jamieson Township indicating fairly complex isoclinal folding; tops on Godfrey properties appear to be easterly.

The metavolcanics comprise both mafic and felsic rocks. The mafics are mostly pillowed to massive basalts that are locally exposed on all grids. They occur as relatively narrow units intercalated with the rhyolites that form most of the outcrop ridges on the claims. These comprise predominantly massive to locally fragmental and variably quartz and feldspar porphyritic flows. The general homogeneity of the felsic rocks often precludes the breakout of stratigraphic units.

Apophyses of the Kamiskotia Intrusive occur on the Forbes claims and in the western part of the Steep property. These comprise mostly massive intermediate rocks that approximate diorite in composition. Diabase dykes cut all rocks and form a swarm trending north-northwesterly.

All rocks except the diabases are characterized by pervasive carbonate alteration which often obscures volcanic textures. As well, strong silicification, sericitization, and chloritization are locally abundant. Some may be related to base and precious mineralization as has been developed at the Canadian Jamieson and Genex mines.

## SURVEY METHOD

Topographic control for the surveys was provided by grids which were cut over all claims and tied into the surveys of the townships (ie., lot and concession lines). For the Godfrey grids all picket lines were cut east-west and tied into baselines and tielines that followed the north-south lot lines. Nominal line spacing was 125 metres with stations at thirty metre intervals. The Kam picket lines were turned off a baseline that runs at an azimuth of  $320^0$  from the number 2 post (at the south-east corner) of claim P586087. Line spacing was 125 metres with stations at 25 and 30 metre intervals (this grid was rechainned at the shorter interval about halfway through the survey).

Readings of the magnetic field in gammas were taken at and in between pickets on all lines except for small portions on lakes and near some creeks where the winter cut grids were lost due to breakup and flooding. An Exploranium Geometrics G-816 proton precession magnetometer was used throughout the surveys. Corrections for diurnal variations in the magnetic field were made by reference to a base station using a Geometrics G-826A recording base station that operated during the periods of field surveying. The base station was located in Lot 11, Concession 2 in Mountjoy Township, a site en route between Timmins and the field area.

The survey was carried out by Exsics Exploration Limited under the supervision of the author, project geologist with Norcen Energy Resources.

## RESULTS AND DISCUSSION

Contoured results of the surveys are presented on six maps which are appended in map pockets at the end of this report. The Kam and Long surveys are presented on two maps each. Contour intervals used vary with the gradient of the magnetic field from 100 to 500 gammas.

The results of each grid are discussed below:

### Kam Grid

This survey primarily outlines several elongate to discontinuous linear anomalies that trend north-northwest. Several of these have been correlated to variably magnetic diabase dykes mapped in the field and it is reasonable to infer others under overburden cover. These dykes occur singly or in anastomosing groups. Some have abrupt terminations or minor offsets that suggest east-northeast trending faults.

The metavolcanics are characterized by a swirly background magnetic response of mostly between 59400 and 59600 gammas with little variation in susceptibility between geological units as mapped in the field.

### Steep Grid

The results from this grid were contoured on a fairly fine scale, mostly at 100 gamma intervals. Once again, the elongate northerly trending anomalies are correlatable to exposed and inferred diabase dykes.

Areas underlain by felsic metavolcanics are characterized by a generally moderate field of between mostly 59400 and 59600 gammas. These felsics are observed and inferred to underlie the easternmost tier of claims (Lot 8) and a band trending NNW across the western half of Lot 9 and into adjacent Lot 10.

The two relatively noisily anomalous zones occurring in the eastern half of Lot 9 and most of Lot 10 are correlatable to massive and pillowed mafic metavolcanics.

These rocks sometimes are observed to carry a few percent of magnetite. Several of the individual anomalies within these zones in fact correlate with outcrops; others removed from obvious outcrop may indicate relatively thin overburden cover. There is no apparent relation to the apophyses of the Kamiskotia intrusive in Lot 10.

#### Long Grid

The majority of this grid is characterized by a low amplitude background magnetic field indicative of felsic metavolcanics (possibly including non-magnetic mafic metavolcanics as observed on the Kam grid). Mafic metavolcanics mapped near the Genex property adjacent on the west to the south part of this grid are not particularly discernible by their magnetic response.

The numerous linear magnetic trends are again correlative to a diabase dyke swarm.

#### Forbes Grid

Portions of this grid that are underlain mostly by phases of the Kamiskotia Intrusive are characterized by clusters of noisy, short, single station anomalies. These suggest an erratic distribution of magnetic minerals (magnetite ?) in these rocks or, more likely, variations in data quality. This is especially evident on lines 1080 N and 2640 N. Otherwise, most of the grid exhibits low magnetic relief over all rocks including metavolcanics. Exceptions are a broad anomaly to about 700 gammas above background southwest of Forbes Lake that is partly underlain by Kamiskotia intrusive and a roughly linear trend of highs near the eastern baseline that likely correlates with a diabase dyke (as yet unobserved in outcrop).

## CONCLUSIONS AND RECOMMENDATIONS

The magnetic surveys of Norcen properties in the Kamiskotia area have served mostly to delineate magnetite bearing diabase dykes that swarm through all rocks in a northerly direction. At the present level of data handling, most of the surveys have not been able to differentiate and map out extensive units in the metavolcanic rocks. In the Steep Group only, the mafic metavolcanics appear to have a higher susceptibility than the felsics.

The paucity of magnetite and sulphides observed in most outcrops on these claims suggests that geophysical surveys may not provide the tool for detailed mapping of these rocks away from outcrops. Inference of units will likely depend on detailed field mapping and lithochemistry and extrapolation thereof on other samples obtained from diamond or overburden drilling.



Lawrence A. Baldwin  
Senior Project Geologist  
Norcen Energy Resources Ltd.  
November 26, 1981.

CERTIFICATE

I, Lawrence A. Baldwin, of Timmins, Ontario hereby certify that:

- a) I hold a BAsC degree in Geological Engineering obtained at the University of Toronto in 1970,
- b) I have worked in mining exploration continuously since graduation,
- c) I supervised the work described in the report herewith.



Lawrence A. Baldwin

November 26, 1981





Ministry of  
Natural  
Resources  
Ontario

LONG

recorded



42A12SE0113 2.4383 JAMIESON

900

THE MINING ACT REP

To the Recorder of PORCUPINE Mining Division

I, NORCEN ENERGY RESOURCES LIMITED T-789

name of Recorded Holder Prospector's Licence

715-5th. Ave. S.W., Calgary, Alberta, T2P 2X7 and P.O. Box 1940,  
Post Office Address Timmins, Ontario, P4N 7X1

do hereby report the performance of 760 days of ELECTROMAGNETIC SURVEY  
type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
<u>SEE ATTACHED LIST</u>					
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....

All the work was performed on Mining Claim (s) AS LISTED  
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.

For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.

For Compressed Air or Other Power Driven or Mechanical Equipment  
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.

For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.

With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.

For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.

For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

LINECUTTING: PREVIOUSLY REPORTED, 69.8 KILOMETRES, 120 METRE LINES, 30 METRE STATIONS

SURVEY: EXSICS EXPLORATION LIMITED; APRIL - JUNE AND SEPTEMBER, 1981; 54.7 KILOMETRES FOR #A102.150

INSTRUMENT: APEX PARAMETRICS, MAXMIN II, 150 METRE CABLE, 444 AND 1777 HZ.

REPORT: JOHN GRANT, EXSICS EXPLORATION

Date SEPTEMBER 28/81

Lawrence A. Baldwin  
Signature of Recorded Holder or Agent

The Mining Act  
Certificate Verifying Report of Work

I, LAWRENCE A. BALDWIN

P.O. Box 1940, Timmins, Ontario P4N 7X1

(Post Office Address)

hereby certify:

1. 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 some during and/or after its completion.

2. That the annexed report is true.

Dated SEPT. 28 19 81

Lawrence A. Baldwin  
Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
LONG GRID, GODFREY TOWNSHIP  
ELECTROMAGNETIC SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P 529926	20	P 585003	20
P 529927	20	P 585004	20
P 529928	20	P 585005	20
P 529929	20	P 585006	20
P 529930	20	P 585007	20
P 583804	20	P 585008	20
P 583875	20	P 585009	20
P 583994	20	P 585010	20
P 583995	20	P 585011	20
P 583996	20	P 585399	20
P 583997	20	P 585400	20
P 583998	20	P 585401	20
P 584681	20	P 585706	20
P 584682	20	P 617679	20
P 584683	20		
P 584684	20		
P 584685	20		
P 584686	20		
P 584687	20		
P 584688	20		
P 584689	02		
P 584690	20		
P 584691	20		
P 584692	20		

Total: 38 claims  
 760 days



Ministry of  
Natural  
Resources

Ontario

STEEI  
recorded

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of POPLUPINE Mining Division

I, NORLEN ENERGY RESOURCES LTD T-789  
name of Recorded Holder Prospector's Licence

715-5TH AVE. SW., CALGARY, ALTA. T2P 2X7  
P.O. BOX 1940, TIMMINS, ONTARIO, P4N 7X1  
do hereby report the performance of 200 days of GROUND ELECTROMAGNETIC  
type of work SURVEYING

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
<u>P585000</u>	<u>20</u>	<u>P585719</u>	<u>20</u>	.....	.....
<u>P585001</u>	<u>20</u>	<u>P585715</u>	<u>20</u>	.....	.....
<u>P585002</u>	<u>20</u>	<u>P585718</u>	<u>20</u>	.....	.....
<u>P585696</u>	<u>20</u>	<u>P586078</u>	<u>20</u>	.....	.....
<u>P585697</u>	<u>20</u>	.....	.....	.....	.....
<u>P585698</u>	<u>20</u>	.....	.....	.....	.....

All the work was performed on Mining Claim (s) AS LISTED  
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.

For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.

For Compressed Air or Other Power Driven or Mechanical Equipment

Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.

For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.

With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.

For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.

For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

LINECUTTING: PREVIOUSLY REPORTED, 16.3 KM,  
125 METRE LINES, 30 METRE STATIONS

SURVEY: EXSICS EXPLORATION, LIMITED, MAY-JUNE, 1981,  
16.3 KILOMETRES FOR \$1222.50

INSTRUMENT: APEX PARAMETRICS, MAXMIN II, 150 METRE  
CABLE, 444 AND 1777 HZ.

REPORT: JOHN GRANT, EXSICS EXPLORATION

Date SEPTEMBER 28/81

Lawrence A. Baldwin  
Signature of Recorded Holder or Agent

The Mining Act  
Certificate Verifying Report of Work

I, LAWRENCE A. BALDWIN  
P.O. BOX 1940, TIMMINS, ONTARIO P4N 7X1  
(Post Office Address)

hereby certify:

1. 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 some during and/or after its completion.

2. That the annexed report is true.

Dated SEPT. 28 1981

Lawrence A. Baldwin  
Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH



Ministry of Natural Resources Ontario

FORGES recorded

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of..... PORCUPINE ..... Mining Division

I, NORCEN ENERGY RESOURCES LIMITED T-789 name of Recorded Holder Prospector's Licence

715-5th. Ave. S.W., Calgary, Alberta, T2P 2X7 and P.O.Box 1940, Post Office Address Timmins, Ontario, P4N 7X1

do hereby report the performance of ..... 220 ..... days of ELECTROMAGNETIC SURVEY type of work

not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Contains handwritten entries for claims P583991 through P585391, all with 20 days.

All the work was performed on Mining Claim (s) ..... (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment. For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate. For Compressed Air or Other Power Driven or Mechanical Equipment Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment. For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording. With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate. For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording. For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

LINECUTTING: PREVIOUSLY REPORTED, 21.1 KILOMETRES, 120 METRE LINES, 30 METRE STATIONS SURVEY: EXSICS EXPLORATION LIMITED, APRIL-JUNE AND SEPTEMBER, 1981; 15.8 KILOMETRES FOR '1185. INSTRUMENT: APEX PARAMETRICS MAXMIN II, 150 METRE CABLE, 444 AND 1777 Hz REPORT: JOHN GRANT, EXSICS EXPLORATION.

Date..... SEPTEMBER 28/81

Lawrence A. Baldwin Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, LAWRENCE A. BALDWIN P.O.Box 1940, Timmins, Ontario P4N 7X1 (Post Office Address)

hereby certify:

- 1. 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. 2. That the annexed report is true.

Dated..... SEPT. 28 19 81

Lawrence A. Baldwin Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH



Ministry of Natural Resources

KAM recorded

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of... PORCUPINE Mining Division
I, NORCEN ENERGY RESOURCES LIMITED name of Recorded Holder
715-5th. Ave. S.W., Calgary, Alberta, T2P 2X7 and P.O. Box 1940, Timmins, Ontario, P4N 7X1
do hereby report the performance of 1640 days of LINECUTTING & MAGNETOMETR. SURVEY

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Row 1: SEE ATTACHED LIST

All the work was performed on Mining Claim (s) AS LISTED
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)
LINECUTTING: EXSICS EXPLORATION LIMITED, 89.6 KILOMETRES, FOR \$15,651.00; 125 METRE LINES, 25 METRE STATIONS, MARCH - APRIL AND AUGUST - SEPTEMBER, 1981
SURVEY: EXSICS EXPLORATION LIMITED, 79.6 KILOMETRES FOR \$4476.00, APRIL - JUNE AND AUGUST - SEPTEMBER, 1981
INSTRUMENTS: GEOMETRICS G-816 PROTON PRECESSION MAGNETOMETER AND G-826A RECORDING BASE STATION
REPORT: JOHN GRANT, EXSICS EXPLORATION
Date SEPTEMBER 28/81
Lawrence A. Baldwin
Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work:

I, LAWRENCE A. BALDWIN
P.O. Box 1940, Timmins, Ontario P4N 7X1
(Post Office Address)

hereby certify:
1. 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.
2. That the annexed report is true.
Dated SEPT 28 19 81
Lawrence A. Baldwin
Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
 KAM GRID, JAMIESON TOWNSHIP  
MAGNETOMETER SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P583555	40	P586145	40
P583556	40	P586146	40
P583557	40	P586147	40
P583558	40	P597476	40
P583559	40	P597477	40
P583560	40	P597478	40
P585012	40	P619035	40
P585013	40	P619037	40
P585014	40	P619038	40
P585699	40	P619039	40
P585701	40	P619040	40
P585702	40	P619041	40
P585716	40	P619042	40
P585717	40	P619043	40
P586079	40	P619044	40
P586080	40	P619045	40
P586081	40		
P586082	40		
P586083	40		
P586085	40		
P586086	40		
P586087	40		
P586088	40		
P586089	40		
P586090	40		
		TOTAL :	41 CLAIMS 1640 DAYS



Ministry of  
Natural  
Resources

A separate form is  
required for each  
type of work to be  
recorded.

THE MINING ACT REPORT OF WORK

STEEP  
recorded

To the Recorder of PORCUPINE Mining Division  
 I, NORLEN ENERGY RESOURCES LTD T-789  
 name of Recorded Holder Prospector's Licence  
715-STH. AVE. SW. CALGARY ALTA T2P2X7  
 Post Office Address  
 do hereby report the performance of 400 days of LINECUTTING & MAG  
 type of work SURVEYING  
 not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
P585000	40	P585714	40		
P585001	40	P585715	40		
P585002	40	P585718	40		
P585696	40	P586078	40		
P585697	40				
P585698	40				

All the work was performed on Mining Claim (s) AS LISTED  
 (In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment  
 Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

GEOPHYSICAL SURVEY: EXSICS EXPLORATION LIMITED,  
16.3 KILOMETRES FOR 12000, APRIL-JUNE AND  
SEPTEMBER, 1981.  
LINECUTTING: EXSICS EXPLORATION LIMITED, 22.5  
KILOMETRES, 120 METRE LINES, 30 METRE STATIONS  
FOR 16250 & MARCH - APRIL, 1981  
INSTRUMENTS: GEOMETRICS G-816 PROTON PRECESSION  
MAGNETOMETER; GEOMETRICS G-826A RECORDING APP  
REPORT: JOHN GRANT, EXSICS EXPLORATION.  
 Date SEPT 28, 1981 Lawrence A. Baldwin  
 Signature of Recorded Holder or Agent

The Mining Act  
Certificate Verifying Report of Work

I, LAWRENCE A. BALDWIN  
P.O. BOX 1940, TIMMINS, ONT. P4N7X1  
 (Post Office Address)

hereby certify:

1. That I have a personal and intimate knowledge of the facts set forth in the report of work annexed here-to, having performed the work or witnessed same during and/or after its completion.
2. That the annexed report is true.

Dated SEPT. 28 19 81 Lawrence A. Baldwin  
 Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH



FORCES needed

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of... PORCUPINE Mining Division
I, NORCEN ENERGY RESOURCES LIMITED T-789
name of Recorded Holder Prospector's Licence
715-5th. Ave. S.W., Calgary, Alberta, T2P 2X7 and P.O. Box 1940, Timmins, Ontario, P4N 7X1
do hereby report the performance of 40 days of LINECUTTING AND MAGNETOM SURVEY
not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Contains handwritten entries for claims P583991 through P585391, all with 40 days.

All the work was performed on Mining Claim (s) AS LISTED
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

LINECUTTING: EXSICS EXPLORATION LIMITED, 21.1 KILOMETRES FOR #390350; 120 METRE LINES, 30 METRE STATIONS, MARCH-APRIL, 1981
SURVEY: EXSICS EXPLORATION LIMITED, 15.8 KILOMETRES FOR #948, APRIL-JUNE, 1981 AND SEPTEMBER, 1981
INSTRUMENTS: GEOMETRICS G-816 PROTON PRECESSION MAGNETOMETER AND G-826A RECORDING BASE STATION
REPORT: JOHN GRANT, EXSICS EXPLORATION
Date SEPTEMBER 28/81
Signature of Recorded Holder or Agent

The Mining Act Certificate Verifying Report of Work

I, LAWRENCE A. BALDWIN
P.O. Box 1940, Timmins, Ontario P4N 7X1
(Post Office Address)

hereby certify:
1. 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.
2. That the annexed report is true.
Dated SEPT. 28 19 81
Signature

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH





Ministry of Natural Resources

File \_\_\_\_\_

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 Godfrey and Jamieson Townships  
Claim Holder(s) Norcen Energy Resources Limited  
715-5th Ave. SW, Calgary, Alta T2P2X7  
Survey Company Exsics Exploration Limited  
Author of Report Lawrence A. Baldwin, Norcen  
Address of Author P.O. Box 1940, Timmins, Ont. P4N7X1  
Covering Dates of Survey May to October, 1981  
(linecutting to office)  
Total Miles of Line Cut 198.0 kilometres

MINING CLAIMS TRAVERSED  
List numerically

..... see attached lists for.....  
(prefix) (number)  
..... 100 claims.....

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

Geophysical  
--Electromagnetic \_\_\_\_\_  
--Magnetometer 40  
--Radiometric \_\_\_\_\_  
--Other \_\_\_\_\_  
Geological \_\_\_\_\_  
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: Nov. 26, 1981 SIGNATURE: *L.A. Baldwin*  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.3883

Previous Surveys

File No. Type Date Claim Holder

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

TOTAL CLAIMS \_\_\_\_\_

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 5578 Number of Readings 8042
Station interval 25 and 30 metres Line spacing 125 metres
Profile scale NA
Contour interval 100,200,and 500 gammas depending on gradient

MAGNETIC

Instrument Geometrics G-816 proton precession magnetometer and G-826A
recording base station
Accuracy -- Scale constant ± 1 gamma
Diurnal correction method Recording base station
Base Station check-in interval (hours) Continuous monitor during survey
Base Station location and value Lot 11, Concession 2, Mountjoy Township
59000 gammas

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [ ] Fixed transmitter [ ] Shoot back [ ] In line [ ] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [ ] Time Domain [ ] Frequency Domain
Parameters -- On time Frequency
-- Off time Range
-- Delay time
-- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

KAM GROUP

Jamieson Township

Claims covered by magnetometer survey

P583555	P586087
P583556	P586088
P583557	P586089
P583558	P586090
P583559	P586145
P583560	P586146
P585012	P586147
P585013	P597476
P585014	P597477
P585699	P597478
P585701	P619035
P585702	P619037
P585716	P619038
P585717	P619039
P586079	P619040
P586080	P619041
P586081	P619042
P586082	P619043
P586083	P619044
P586085	P619045
P586086	

Total: 41 claims

STEEP GROUP

Godfrey Township

Claims covered by magnetometer survey

P585000

P585001

P585002

P585696

P585697

P585698

P585714

P585715

P585718

P586078

Total: 10 claims

LONG GROUP

Godfrey Township

Claims covered by magnetometer survey

P529926	P584688
P529927	P584689
P529928	P584690
P585929	P584691
P529930	P584692
P583804	P585003
P583875	P585004
P583994	P585005
P583995	P585006
P583996	P585007
P583997	P585008
P583998	P585009
P584681	P585010
P584682	P585011
P584683	P585399
P584684	P585400
P584685	P585401
P584686	P585706
P584687	P617679

Total: 38 claims

FORBES GROUP

Godfrey Township

Claims covered by magnetometer survey

P583991

P583992

P583993

P585389

P585390

P585391

P585392

P585393

P585394

P585395

P585396

Total: 11 claims

Recorded Holder  
**Norcen Energy Resources Limited**

Township or Area  
**Godfrey and Jamieson Townships**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b>	P 529926 to 30, inclusive
Electromagnetic _____ days	P 583555 to 60, inclusive
Magnetometer <u>40</u> days	P 583804
Radlometric _____ days	P 583875
Induced polarization _____ days	P 583992
Section 86 (18) _____ days	P 583994 to 98, inclusive
Geological _____ days	P 584681 to 92, inclusive
Geochemical _____ days	P 585000 to 14, inclusive
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	P 585390 to 96, inclusive
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	P 585399 to 401, inclusive
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	P 585696 to 99, inclusive
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 585701 - 02
	P 585706
	P 585714 to 18, inclusive
	P 586078 to 83, inclusive
	P 586085 to 90, inclusive
	P 586145 to 47, inclusive
	P 597476
	P 597478
	P 617679
	P 619035
	P 619037 - 38
	P 619040 to 45, inclusive

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

10 days	30 days
P 583991	P 583993
P 585389	P 619039
P 597477	

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       Insufficient technical data filed

P 585929

2.4383

1982 11 15

2.4383

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

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer)  
Survey on Mining Claims P 529926 et al in the  
Townships of Godfrey and Jamieson

---

The Geophysical (Electromagnetic and Magnetometer) Survey assessment work credits as listed with my Notice of Intent dated September 13, 1982 have been approved as of the above date.

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

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

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

A. Barr:ac

cc: Samin Canada Limited  
Toronto, Ontario

cc: Resident Geologist  
Timmins, Ontario





Ministry of  
Natural  
Resources

Ontario

Oct 4, 1982

Your file:

September 13, 1982

Our file: 2.4383

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

Dear Mr. Good

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

Yours very truly,

**For further information, if required,  
please contact Mr. F.W. Matthews at  
416/965-6918**

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

:sc

cc: Samin Canada Limited  
Toronto, Ontario

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



Ministry of  
Natural  
Resources

Notice of Intent  
for Technical Reports

File 2.4383

September 13, 1982

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

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

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

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



P-585000

Ministry of Natural Resources

Notification of recording of assessment work credits

RECEIVED

OCT 1 3 1981

MINING LANDS SECTION

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

Date of recording of work: September 30, 1981
Recorded holder: Norcen Energy Resources Limited
Address: 715 -5th Avenue, Calgary, Alberta T2P 2X7
Township or Area: Godfrey township

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining claims. Includes rows for Geophysical, Electromagnetic, Magnetometer, Radiometric, Induced polarization, Section, Geological, Geochemical, and checkboxes for Man days, Airborne, Special provision, Ground.

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Signature of Mining recorder
c.c. Norcen Energy Resources Ltd.



P-529926

Ministry of Natural Resources

Notification of recording of assessment work credits

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

RECEIVED
OCT 14 1981
MINING LANDS SECTION

Date of recording of work: October 1/81
Recorded holder: Norcen Energy Resources Limited
Address: 715 -5th Avenue S. W.
Calgary, Alberta T2P 2X7
Township or Area: Godfrey

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining claims. Includes rows for Geophysical, Electromagnetic, Magnetometer, Radiometric, Induced polarization, Section 77 19, Geological, Geochemical, Man days, Airborne, Special provision, Ground.

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
Reports and maps are being forwarded to the Lands Administration Branch with this letter.

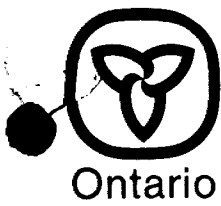
Handwritten signature of Mining recorder

c.c. Norcen Energy Resources Limited

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
LONG GRID, GODFREY TOWNSHIP  
MAGNETOMETER SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P 529926	40	P 585003	40
P 529927	40	P 585004	40
P 529928	40	P 585005	40
P 529929	40	P 585006	40
P 529930	40	P 585007	40
P 583804	40	P 585008	40
P 583875	40	P 585009	40
P 583994	40	P 585010	40
P 583995	40	P 585011	40
P 583996	40	P 585399	40
P 583997	40	P 585400	40
P 583998	40	P 585401	40
P 584681	40	P 585706	40
P 584682	40	P 617679	40
P 584683	40		
P 584684	40		
P 584685	40		
P 584686	40		
P 584687	40		
P 584688	40		
P 584689	40		
P 584690	40		
P 584691	40		
P 584692	40		

Total: 38 claims  
 1520 days



D. 583555

Ministry of Natural Resources

Notification of recording of assessment work credits

RECEIVED

OCT 13 1981

MINING LANDS SECTION

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

Date of recording of work: September 29, 1981

Recorded holder: Norcen Energy Resources Limited

715 -5th Avenue S.W.

Address: Calgary, Alberta T2P 2X7

Township or Area: Jamieson Township

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining claims. Includes rows for Geophysical (Electromagnetic, Magnetometer, Radiometric, Induced polarization, Section 22 19 (19)), Geological, Geochemical, Man days, Airborne, Special provision, Ground.

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work. Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Signature of Mining recorder c.c. Norcen Energy Resources Ltd.

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
 KAM GRID, JAMIESON TOWNSHIP

MAGNETOMETER SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P583555	40	P586145	40
P583556	40	P586146	40
P583557	40	P586147	40
P583558	40	P597476	40
P583559	40	P597477	40
P583560	40	P597478	40
P585012	40	P619035	40
P585013	40	P619037	40
P585014	40	P619038	40
P585699	40	P619039	40
P585701	40	P619040	40
P585702	40	P619041	40
P585716	40	P619042	40
P585717	40	P619043	40
P586079	40	P619044	40
P586080	40	P619045	40
P586081	40		
P586082	40		
P586083	40		
P586085	40		
P586086	40		
P586087	40		
P586088	40		
P586089	40		
P586090	40		
		TOTAL :	41 CLAIMS 1640 DAYS



P-583991

Ministry of Natural Resources

Notification of recording of assessment work credits

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OCT 13 1981

MINING LANDS SECTION

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

Date of recording of work: October 6, 1981
Recorded holder: Norcen Energy Resources Limited
Address: 715- 5th Avenue Calgary, Alberta T2P 2X7
Township or Area: Godfrey

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining claims. Includes rows for Geophysical (Electromagnetic, Magnetometer, Radiometric, Induced polarization, Section 77 19), Geological, Geochemical, and checkboxes for Man days, Airborne, Special provision, Ground.

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Signature of Mining recorder

c.c. Norcen Energy Resources Ltd.





LONG recorded

A separate form is required for each type of work to be recorded.

THE MINING ACT REPORT OF WORK

To the Recorder of... PORCUPINE Mining Division
I, NORCEN ENERGY RESOURCES LIMITED T-789
name of Recorded Holder Prospector's Licence
715-5th. Ave. S.W., Calgary, Alberta, T2P 2X7 and P.O.Box 1940, Timmins, Ontario, P4N 7X1
do hereby report the performance of 1520 days of LINECUTTING & MAGNETOMETRIC SURVEY
not before reported to be applied on the following contiguous claims

Table with 6 columns: Claim No., Days, Claim No., Days, Claim No., Days. Content: SEE ATTACHED LIST

All the work was performed on Mining Claim (s) AS LISTED
(In the case of geological and/or geophysical survey (s) where more than 18 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
For Compressed Air or Other Power Driven or Mechanical Equipment
Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
For Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (linecutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate with the Minister within 60 days of recording.
For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

SURVEY: EXSICS EXPLORATION LIMITED, 54.7 KILOMETRES FOR [redacted], APRIL - JUNE, 1981 AND SEPTEMBER, 1981
LINECUTTING: EXSICS EXPLORATION LIMITED, 69.8 KILOMETRES 120 METRE LINES, 30 METRE STATIONS FOR 12,913, MARCH - APRIL, 1981.
INSTRUMENTS: GEOMETRICS G-816 PROTON PRECESSION MAGNETOMETER AND G-826A RECORDING BASE STATION.
REPORT: JOHN GRANT, EXSICS EXPLORATION
Date: SEPTEMBER 28/81
Signature of Recorded Holder or Agent: Lawrence A. Baldwin

The Mining Act Certificate Verifying Report of Work

I, LAWRENCE A. BALDWIN
P.O.Box 1940, Timmins, Ontario P4N 7X1
(Post Office Address)

- hereby certify:
1. 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.
2. That the annexed report is true.

Dated: SEPT. 28 19 81
Signature: Lawrence A. Baldwin

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
LONG GRID, GODFREY TOWNSHIP  
MAGNETOMETER SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P 529926	40	P 585003	40
P 529927	40	P 585004	40
P 529928	40	P 585005	40
P 529929	40	P 585006	40
P 529930	40	P 585007	40
P 583804	40	P 585008	40
P 583875	40	P 585009	40
P 583994	40	P 585010	40
P 583995	40	P 585011	40
P 583996	40	P 585399	40
P 583997	40	P 585400	40
P 583998	40	P 585401	40
P 584681	40	P 585706	40
P 584682	40	P 617679	40
P 584683	40		
P 584684	40		
P 584685	40		
P 584686	40		
P 584687	40		
P 584688	40		
P 584689	40		
P 584690	40		
P 584691	40		
P 584692	40		

Total: 38 claims  
 1520 days



Ontario

LONG

P-529926

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

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

Date of recording of work: October 1/81

Recorded holder: Norcen Energy Resources Limited

715 -5th Avenue S. W.

Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	See attached list " " "
Electromagnetic <u>20</u> days	
Magnetometer <u>40</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Section <sup>?? 19</sup> ( ) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

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

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

Mining recorder

c.c. Norcen Energy Resources Limited



P-583991

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

**RECEIVED**

OCT 13 1981

MINING LANDS SECTION

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

Date of recording of work: September 30, 1981

Recorded holder: Norcen Energy Resources Limited

715- 5th Avenue  
Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	P-583991-992-993 incl. P-585389-390-391-392-393-394- P-585395-396 incl.
Electromagnetic <u>20</u> <sup>Carroll</sup> days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section <u>77</u> <u>19</u> <del>(14)</del> days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	OK
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

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

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

Mining recorder

c.c. Norcen Energy Resources Ltd.

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
LONG GRID, GODFREY TOWNSHIP  
ELECTROMAGNETIC SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P 529926	20	P 585003	20
P 529927	20	P 585004	20
P 529928	20	P 585005	20
P 529929	20	P 585006	20
P 529930	20	P 585007	20
P 583804	20	P 585008	20
P 583875	20	P 585009	20
P 583994	20	P 585010	20
P 583995	20	P 585011	20
P 583996	20	P 585399	20
P 583997	20	P 585400	20
P 583998	20	P 585401	20
P 584681	20	P 585706	20
P 584682	20	P 617679	20
P 584683	20		
P 584684	20		
P 584685	20		
P 584686	20		
P 584687	20		
P 584688	20		
P 584689	02		
P 584690	20		
P 584691	20		
P 584692	20		

Total: 38 claims  
760 days

**RECORDED**  
 OCT 0 1981  
 Receipt No. ....

Mining Lands Comments

*10*

To: Geophysics *Ms Barlow.*

Comments

Approved  Wish to see again with corrections

Date  
*JUN 21 82*

Signature  
*[Signature]*

To: Geology - Expenditures

Comments

Approved  Wish to see again with corrections

Date

Signature

To: Geochemistry

Comments

Approved  Wish to see again with corrections

Date

Signature

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

*see me if  
don't understand  
John*

November 27, 1981

Mr. F. W. Mathews,  
Lands Administration Branch,  
Mining Lands Section,  
Ministry of Natural Resources,  
Room 6450, Whitney Block, Queen's Park,  
Toronto, Ontario M7A 1W3.

Dear Mr. Mathews:

Herewith please find two copies of a report with maps covering magnetic surveys on 100 claims in Godfrey and Jamieson Townships.

Please note also that when I originally filed the reports of work for these claims, I had also reported 20 days of electromagnetic surveying per claim (as per the copies attached); These surveys were subsequently recorded. However, it turns out that we would prefer not to file this work at this time. I would appreciate it if the recording of the EM credits be cancelled for now. This action will not affect the status of the claims this year.

Thank you for your attention.

Yours sincerely,

*Lawrence A. Baldwin*  
Lawrence A. Baldwin  
Senior Project Geologist  
(705) 267-7545 or  
(403) 231-0625

**RECEIVED**

NOV 27 1981

MINING LANDS SECTION



Ontario

*Steep*

*P-585000*

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

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

Date of recording of work: September 30, 1981

Recorded holder: Norcen Energy Resources Limited

715 -5th Avenue

Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey township

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic <u>20</u> <i>Correct</i> days	P-585000-001-002 incl. ✓
Magnetometer <u>40</u> days	P-585696-697-698 incl. ✓
Radiometric _____ days	P-585714-715; P585718; P-586078 ✓
Induced polarization _____ days	
Section <del>8</del> <sup>77 19</sup> (19) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input checked="" type="checkbox"/>

Notice to recorded holder:

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

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

*[Signature]*

Mining recorder

c.c. Norcen Energy Resources Ltd.





Ontario

LONG P-529926

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

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

Date of recording of work: October 1/81

Recorded holder: Norcen Energy Resources Limited

715 -5th Avenue S. W.

Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	See attached list " " "
Electromagnetic <u>20</u> days <i>cancel</i>	
Magnetometer <u>40</u> days	
Radiometric _____ days	
Induced polarization _____ days	
Section <u>77 19</u> ( <u>1</u> ) days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

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

Colin Stewart  
Mining recorder

c.c. Norcen Energy Resources Limited



Ontario

*Forber*

*P-583991*

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

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

Date of recording of work: September 30, 1981

Recorded holder: Norcen Energy Resources Limited

715- 5th Avenue

Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical <i>Cancelled</i>	
Electromagnetic <u>20</u> days	P-583991-992-993 incl. ✓
Magnetometer _____ days	P-585389-390-391-392-393-394- P-585395-396 incl. ✓
Radiometric _____ days	
Induced polarization _____ days	
Section <sup>77</sup> <del>75</del> <sup>19</sup> <del>17</del> _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input checked="" type="checkbox"/>

Notice to recorded holder:

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

*[Signature]*  
Mining recorder

c.c. Norcen Energy Resources Ltd.



Ontario

P-583991

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

RECEIVED

OCT 13 1981

MINING LANDS SECTION

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

Date of recording of work: September 30, 1981

Recorded holder: Norcen Energy Resources Limited

715- 5th Avenue  
Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	P-583991-992-993 incl. P-585389-390-391-392-393-394- P-585395-396 incl.
Electromagnetic <u>correct</u> <del>20</del> days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section <u>77</u> <u>19</u> <del>77</del> <del>19</del> days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

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

[Signature]  
Mining recorder  
c.c. Norcen Energy Resources Ltd.



Ontario

P-529926

Ministry of Natural Resources

Notification of recording of assessment work credits

RECEIVED

OCT 14 1981

MINING LANDS SECTION

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

Date of recording of work: October 1/81

Recorded holder: Norcen Energy Resources Limited 715 -5th Avenue S. W. Calgary, Alberta T2P 2X7

Township or Area: Godfrey

2.4383

Table with 2 columns: Type of survey and number of Assessment days credit per claim; Mining claims. Rows include Geophysical (Electromagnetic, Magnetometer, Radiometric, Induced polarization, Section 77 19), Geological, and Geochemical. Includes checkboxes for Man days, Airborne, Special provision, and Ground.

Notice to recorded holder:

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

Signature of Mining recorder

c.c. Norcen Energy Resources Limited

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
LONG GRID, GODFREY TOWNSHIP  
MAGNETOMETER SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P 529926	40	P 585003	40
P 529927	40	P 585004	40
P 529928	40	P 585005	40
P 529929	40	P 585006	40
P 529930	40	P 585007	40
P 583804	40	P 585008	40
P 583875	40	P 585009	40
P 583994	40	P 585010	40
P 583995	40	P 585011	40
P 583996	40	P 585399	40
P 583997	40	P 585400	40
P 583998	40	P 585401	40
P 584681	40	P 585706	40
P 584682	40	P 617679	40
P 584683	40		
P 584684	40		
P 584685	40		
P 584686	40		
P 584687	40		
P 584688	40		
P 584689	40		
P 584690	40		
P 584691	40		
P 584692	40		

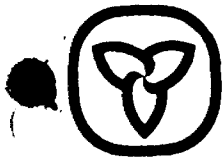
Total: 38 claims  
 1520 days

NORCEN ENERGY RESOURCES LIMITED  
 DISTRIBUTION OF ASSESSMENT CREDITS  
LONG GRID, GODFREY TOWNSHIP  
ELECTROMAGNETIC SURVEY

<u>CLAIM</u>	<u>DAYS</u>	<u>CLAIM</u>	<u>DAYS</u>
P 529926	20	P 585003	20
P 529927	20	P 585004	20
P 529928	20	P 585005	20
P 529929	20	P 585006	20
P 529930	20	P 585007	20
P 583804	20	P 585008	20
P 583875	20	P 585009	20
P 583994	20	P 585010	20
P 583995	20	P 585011	20
P 583996	20	P 585399	20
P 583997	20	P 585400	20
P 583998	20	P 585401	20
P 584681	20	P 585706	20
P 584682	20	P 617679	20
P 584683	20		
P 584684	20		
P 584685	20		
P 584686	20		
P 584687	20		
P 584688	20		
P 584689	02		
P 584690	20		
P 584691	20		
P 584692	20		

Total: 38 claims  
760 days

**RECORDED**  
 OCT 0 1981  
 Receipt No. ....



Ontario

P-585000

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

**RECEIVED**

OCT 13 1981

MINING LANDS SECTION

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

Date of recording of work: September 30, 1981

Recorded holder: Norcen Energy Resources Limited

715 -5th Avenue

Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey township

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical <i>correct</i>	P-585000-001-002 incl. P-585696-697-698 incl. P-585714-715; P585718; P-586078 .
Electromagnetic <u>20</u> days	
Magnetometer <u>40</u> <i>on file 2.4383</i> days	
Radiometric _____ days	
Induced polarization _____ days	
Section <u>77 19</u> <del>(8)</del> (9) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

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

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

*[Signature]*  
Mining recorder

c.c. Norcen Energy Resources Ltd.

1981 12 15

2.4383

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

Dear Sir;

We have received reports and maps for a Geophysical (Electromagnetic) and Magnetometer survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 529926 et al in the Townships of Godfrey and Jamieson.

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

Yours very truly

E.F. Anderson  
Director  
Land Management Branch

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

J. Skura

cc: Norcen Energy Resources Limited  
Calgary, Alberta

A. Baldwin  
Timmins, Ontario





Ontario

*Kam*

*P-583555*

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

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

Date of recording of work: September 29, 1981

Recorded holder: Norcen Energy Resources Limited

715 -5th Avenue S.W.

Address: Calgary, Alberta T2P 2X7

Township or Area: Jamieson Township

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	See attached list
Electromagnetic _____ days	
Magnetometer _____ 40 _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section <sup>22 19</sup> (19) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

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

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

*[Signature]*  
Mining recorder  
c.c. Norcen Energy Resources Ltd.



Ontario

*Steep*

*P-585000*

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

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

Date of recording of work: September 30, 1981

Recorded holder: Norcen Energy Resources Limited

715 -5th Avenue

Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey township

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic <u>20</u> days	P-585000-001-002 incl. ✓ P-585696-697-698 incl. ✓
Magnetometer <u>40</u> days	P-585714-715; P585718; P-586078 ✓
Radiometric _____ days	
Induced polarization _____ days	
Section <sup>77 19</sup> <del>( )</del> _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input type="checkbox"/>	Ground <input checked="" type="checkbox"/>

Notice to recorded holder:

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

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

\_\_\_\_\_  
Mining recorder

c.c. Norcen Energy Resources Ltd.



Ontario

*Forkes* P-583991

Ministry of  
Natural  
Resources

Notification of recording  
of assessment work credits

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

Date of recording of work: October 6, 1981

Recorded holder: Norcen Energy Resources Limited

715- 5th Avenue

Address: Calgary, Alberta T2P 2X7

Township or Area: Godfrey

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	
Electromagnetic _____ days	
Magnetometer <u>40</u> days	P-583991-992-993 incl;
Radiometric _____ days	P-585389-390-391-392-393-394-
Induced polarization _____ days	P-585395-396 incl.
Section <u>77 19</u> ( <input checked="" type="checkbox"/> ) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

*[Signature]*  
Mining recorder

c.c. Norcen Energy Resources Ltd.

	Mag		Mag		Mag
P. 529926 ✓		1 585392 ✓		586085 ✓	
27 ✓		93 ✓		86 ✓	
28 ✓		94 ✓		87 ✓	
29 ✓		95 ✓		88 ✓	
30 ✓		96 ✓		89 ✓	
583555 ✓		585399 ✓		90 ✓	
56 ✓		400 ✓		586145 ✓	
57 ✓		1 ✓		46 ✓	
58 ✓		585696 ✓		47 ✓	
59 ✓		97 ✓		597476 ✓	
60 ✓		98 ✓		77 <sup>3/4</sup>	
583804 ✓		99 ✓		78 ✓	
583875 ✓		585701 ✓		617679 ✓	
583991 <sup>3/4</sup>		2 ✓		619035 ✓	
92 ✓		585706 ✓		37 ✓	
93 ✓	<sup>1/4</sup>	585714 ✓		38 ✓	
94 ✓	✓	15 ✓		39 <sup>1/4</sup>	
95 ✓	✓	16 ✓		40 ✓	
96 ✓	✓	17 ✓		41 ✓	
97 ✓	✓	18 ✓		42 ✓	
98 ✓	✓	585929 ○		43 ✓	
585000 ✓		584681 ✓		44 ✓	
1 ✓	✓	82 ✓		45 ✓	
2 ✓	✓	83 ✓			
3 ✓	✓	84 ✓		<del>57724</del>	
4 ✓	✓	85 ✓			
5 ✓	✓	86 ✓			
6 ✓	✓	87 ✓			
7 ✓	✓	88 ✓			
8 ✓	✓	89 ✓			
9 ✓	✓	90 ✓			
10 ✓	✓	91 ✓			
11 ✓	✓	92 ✓			
12 ✓	✓	586078 ✓			
13 ✓	✓	79 ✓			
14 ✓	✓	80 ✓			
585389 <sup>3/4</sup>		81 ✓			
90 ✓	✓	82 ✓			
91 ✓	✓	83 ✓			

V.P.

Macdiarmid Twp.- M.294

Robb Twp.- M.309

Jessop Twp.- M.289

Godfrey Twp.- M.284

THE TOWNSHIP OF

OF

JAMIESON

DISTRICT OF COCHRANE

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	Ⓧ
PATENTED for S.R.O.	Ⓟ

NOTES

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

Flooding rights to areas along Mattagami River to H.E.P.C. - L.O. 7085

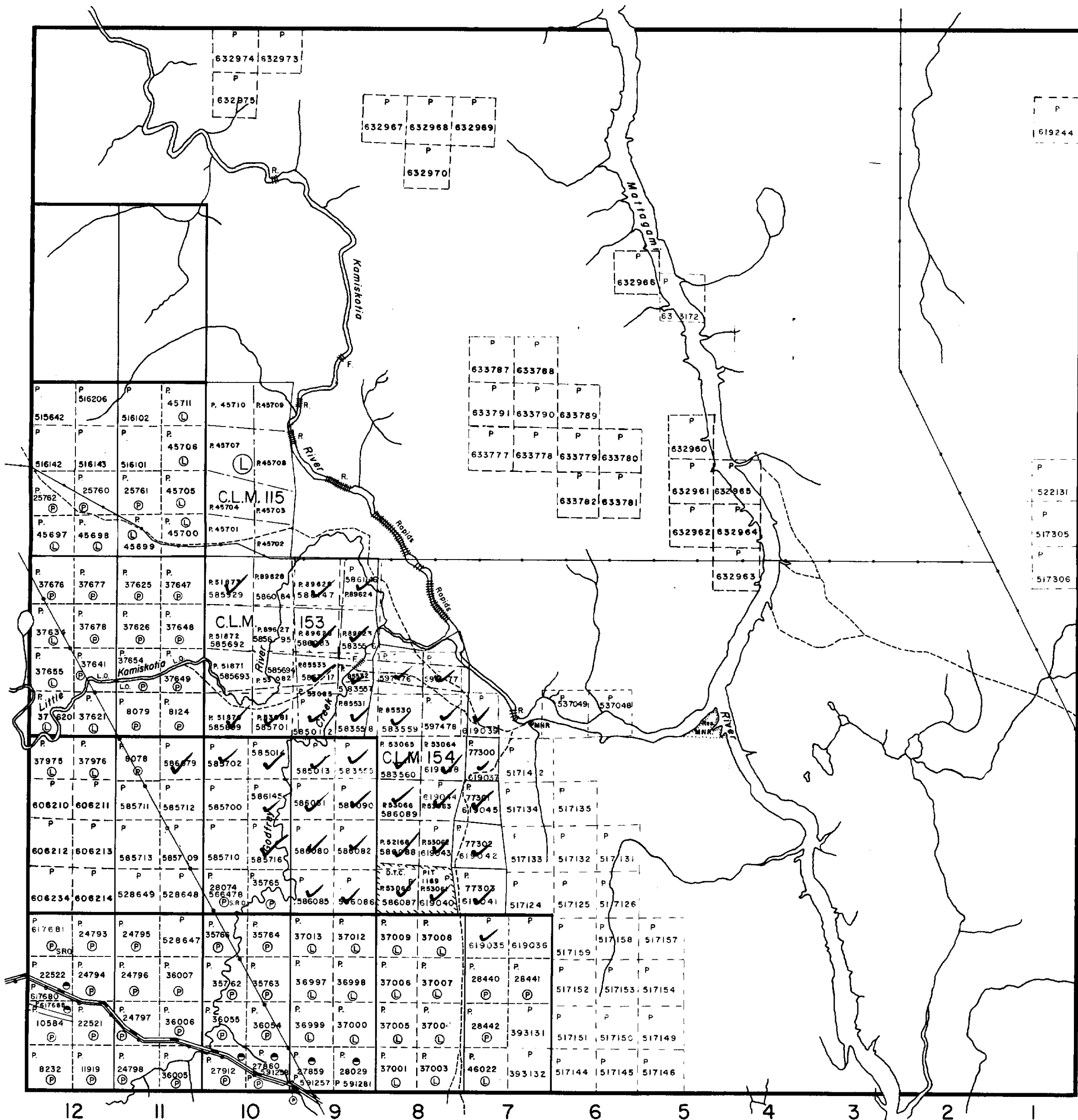
This township lies within the Municipality of City of Timmins.

DATE OF ISSUE  
AUG - 4 1982  
Ministry of Natural Resources  
TORONTO

24383

PLAN NO.- M.288

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



Jamieson Twp. (M.288)

Gap Road Sta.  
Dept. of National Defence  
Withdrawn from Staking  
Sec. 34(1) of Mining Act. File 169051

THE TOWNSHIP  
OF

GODFREY

DISTRICT OF  
COCHRANE

PORCUPINE  
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 C.
- PATENTED S.R.O.

NOTES

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

Flooding rights on either side of the Mattagami to H.E.P.C.

This township lies within the Municipality of CITY of TIMMINS.

Reservations:

DATE OF ISSUE  
AUG - 4 1982  
Ministry of Natural Resources  
TORONTO

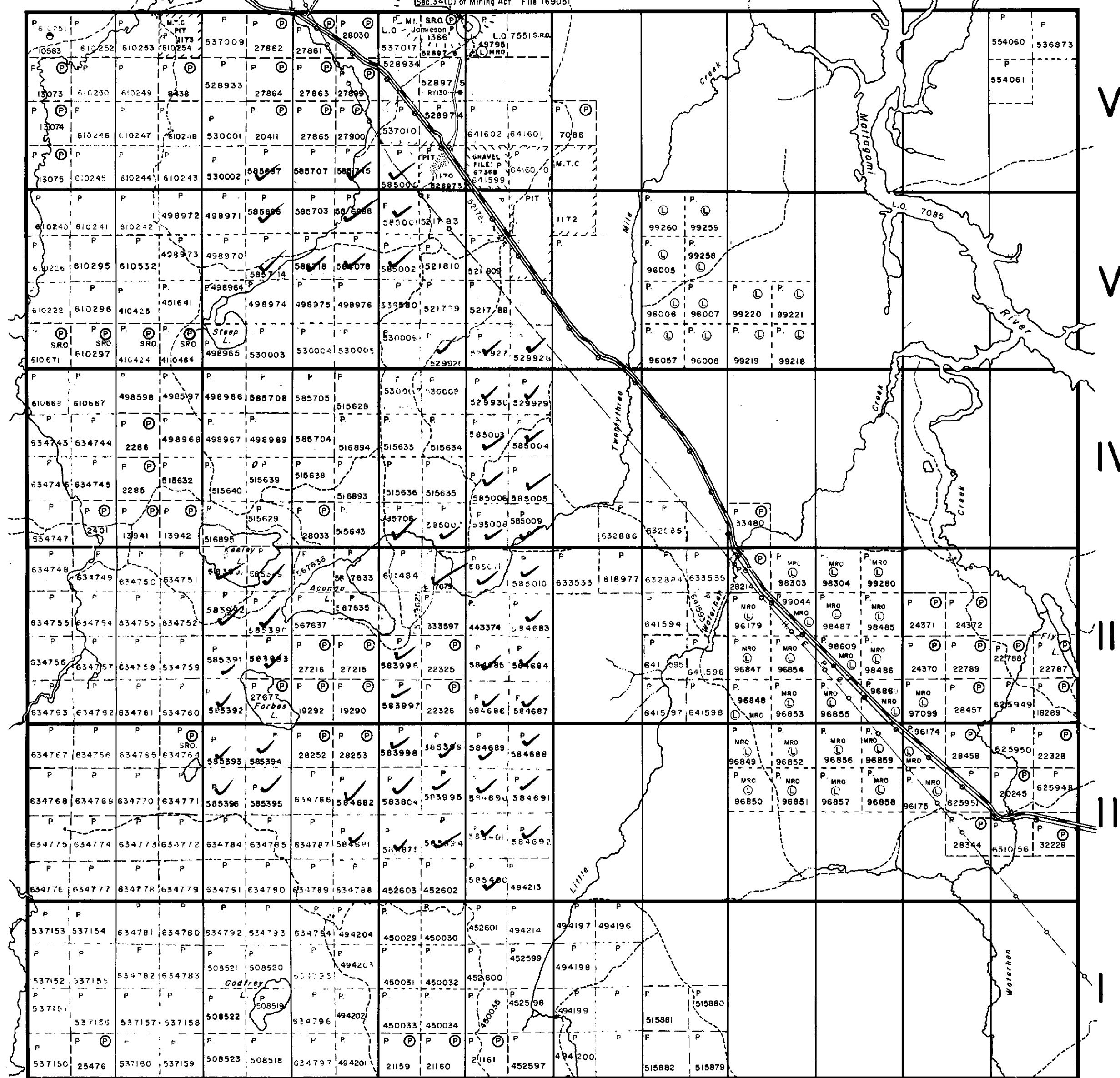
2.4383

PLAN NO. M.284

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

Turnbull Twp. (M.316)

Mountjoy Twp. (M.302)



12 11 10 9 8 7 6 5 4 3 2 1

Bristol Twp. (M.264)



42A125E0113 2.4383 JAMIESON

LOT 9

LOT 8

LOT 7

CONC. 5  
CONC. 4

L 5280 N

L 5160 N

L 5040 N

L 4920 N

CONC. 5  
CONC. 4

L 4800 N

L 4680 N

L 4560 N

L 4440 N

L 4320 N

L 4200 N

L 4080 N

L 3960 N

L 3840 N

L 3720 N

L 3600 N

L 3480 N

L 3360 N

L 3240 N

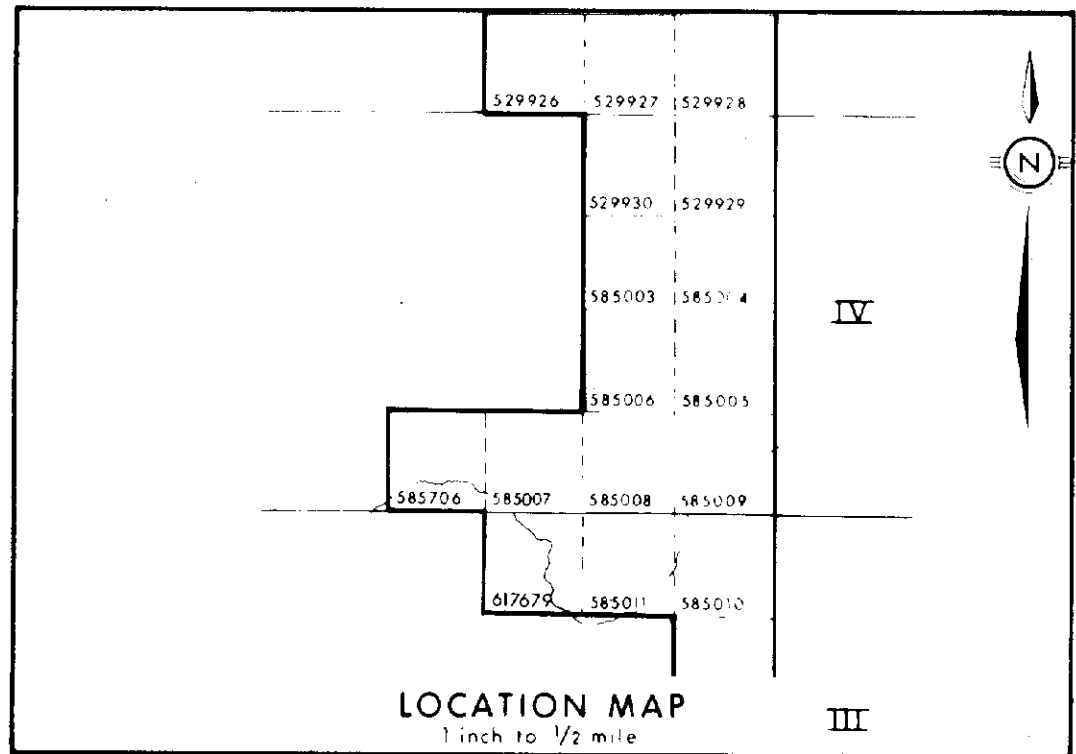
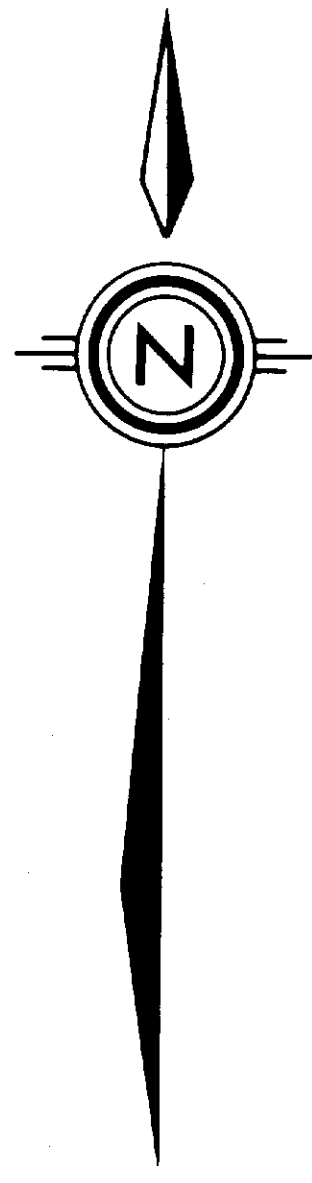
L 3120 N

L 3000 N

L 2880 N

L 2760 N

L 2640 N



**LEGEND**

Total Magnetic Field: in gammas  
 Base Station Location  
 Magnetic Contour: 500, 100, 50 gammas  
 Magnetic Depression

Instrument: Geometrics G-816 Proton Precession Magnetometer

**KEY**

Claim Post, W.P.  
 Claim Line  
 Creek  
 Bush Road  
 Lake  
 Trail  
 Swamp  
 Previous Drill Hole  
 Rock Outcrop  
 Recommended Drill Hole

**Norcen**  
 Every Resource Estimated  
 TIMMINS JOINT VENTURE

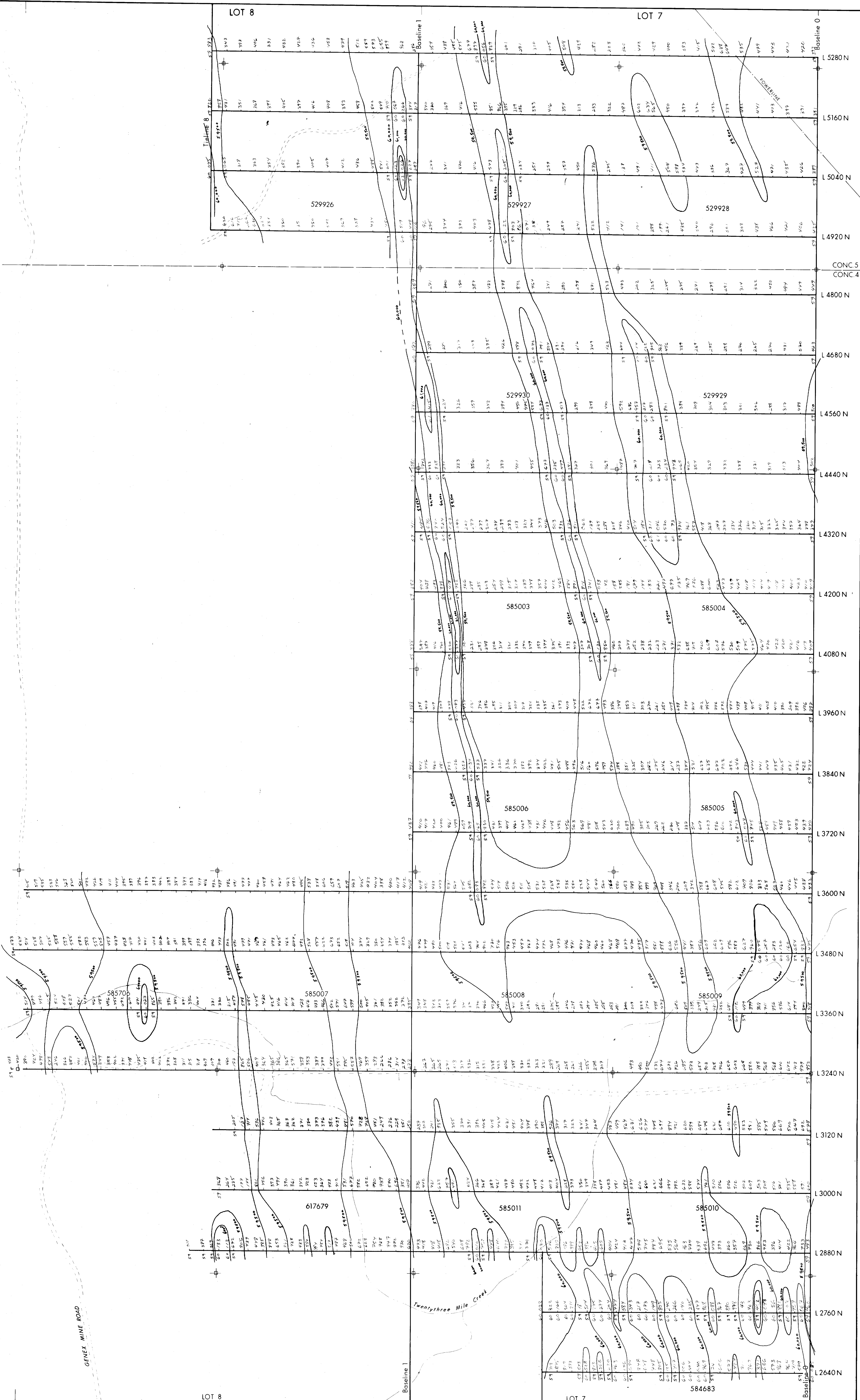
**SURVEY TYPE: MAGNETOMETER**

GRID: LONG-NORTH SHEET

TOWNSHIP: GODFREY NTS: 42A/12

Contour Interval: 50 & 100 gammas Survey Date: April - May, 1981  
 Contractor: Exacts Exploration Ltd Interpretation: John Grant

Scale 1:2500

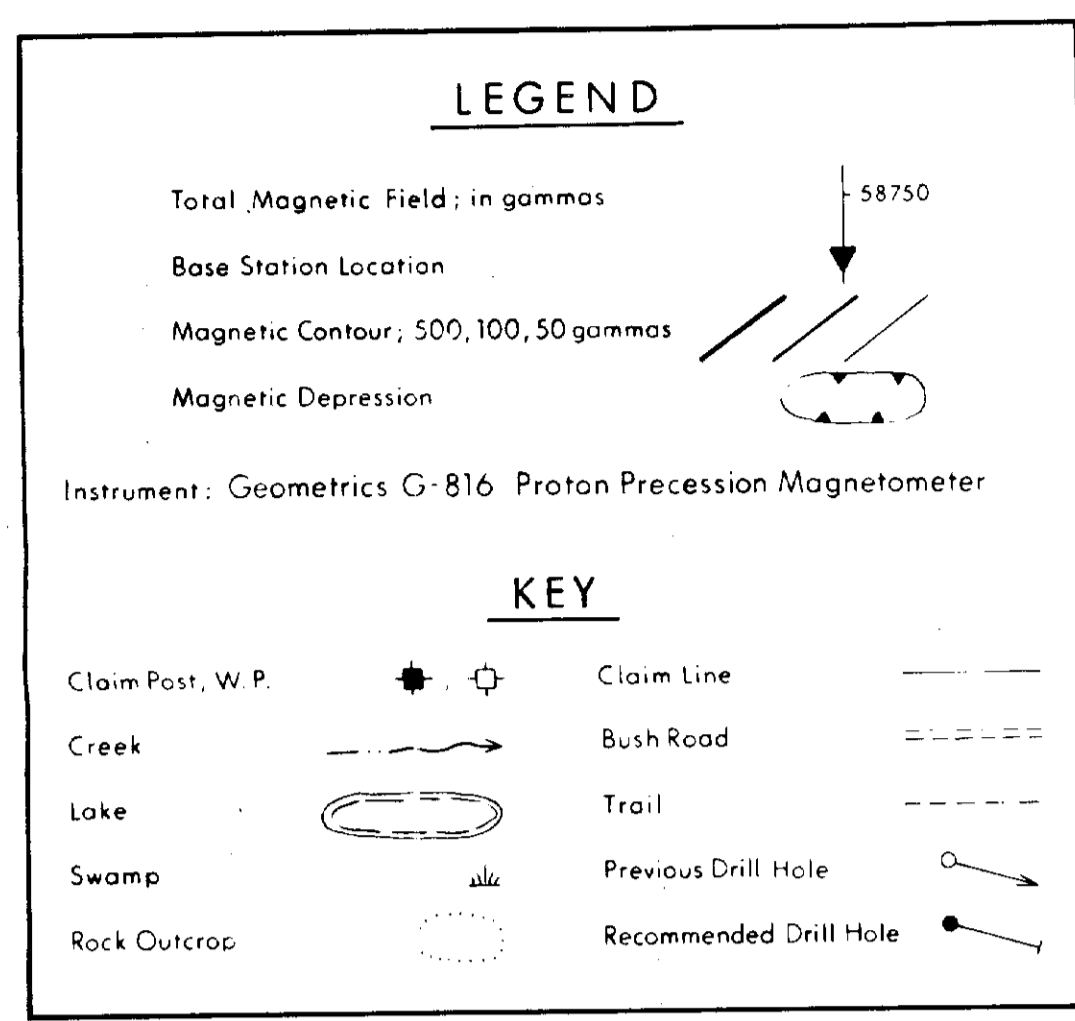
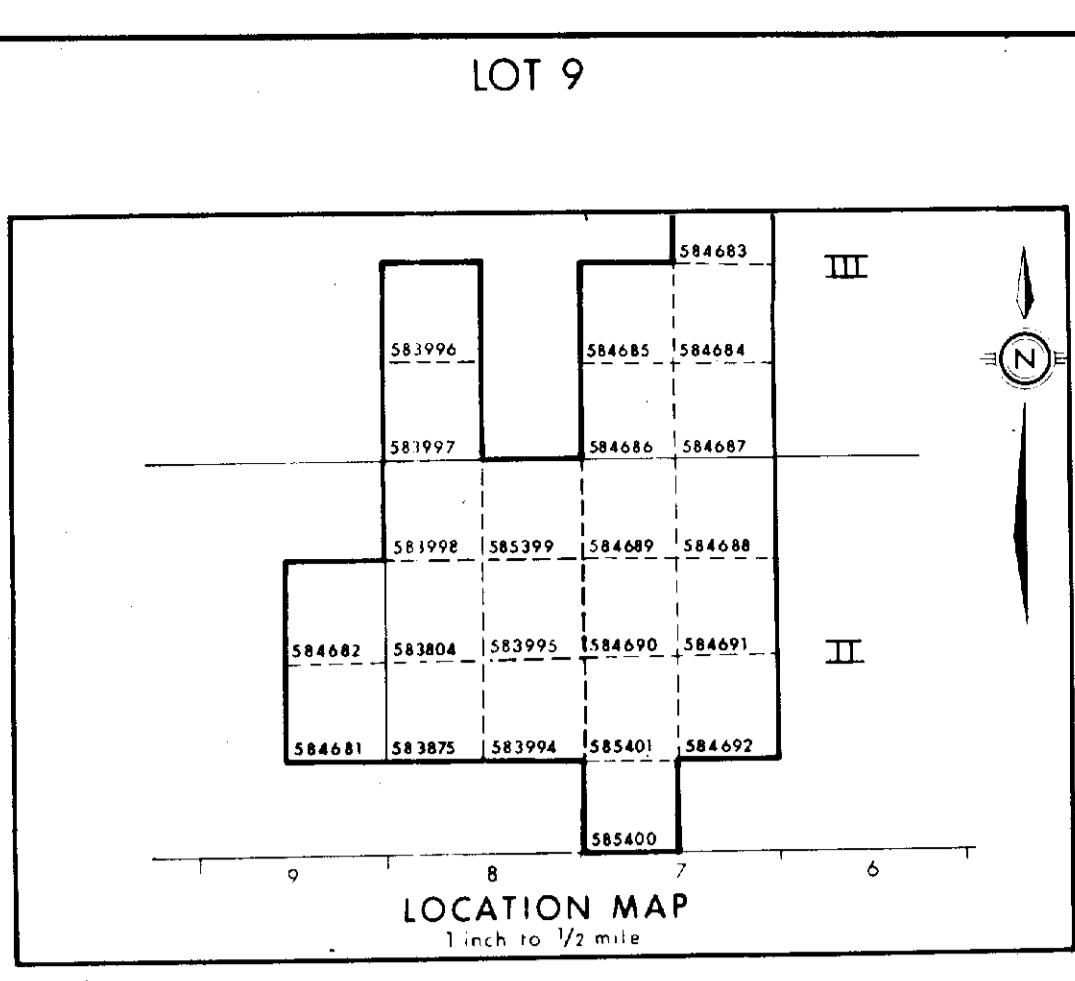


LOT 9

LOT 8

LOT 7





**Norcen**  
 TIMMINS JOINT VENTURE

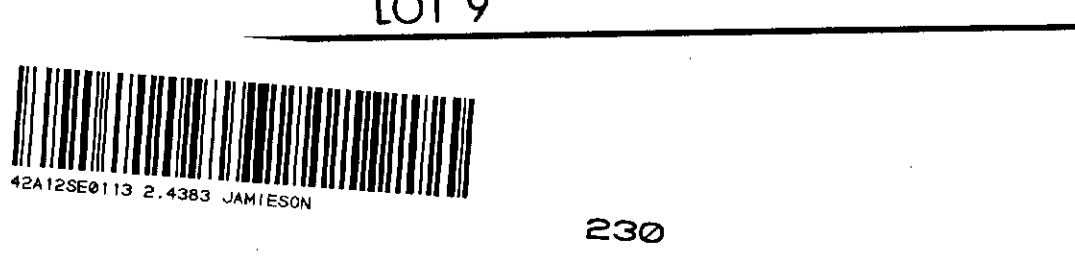
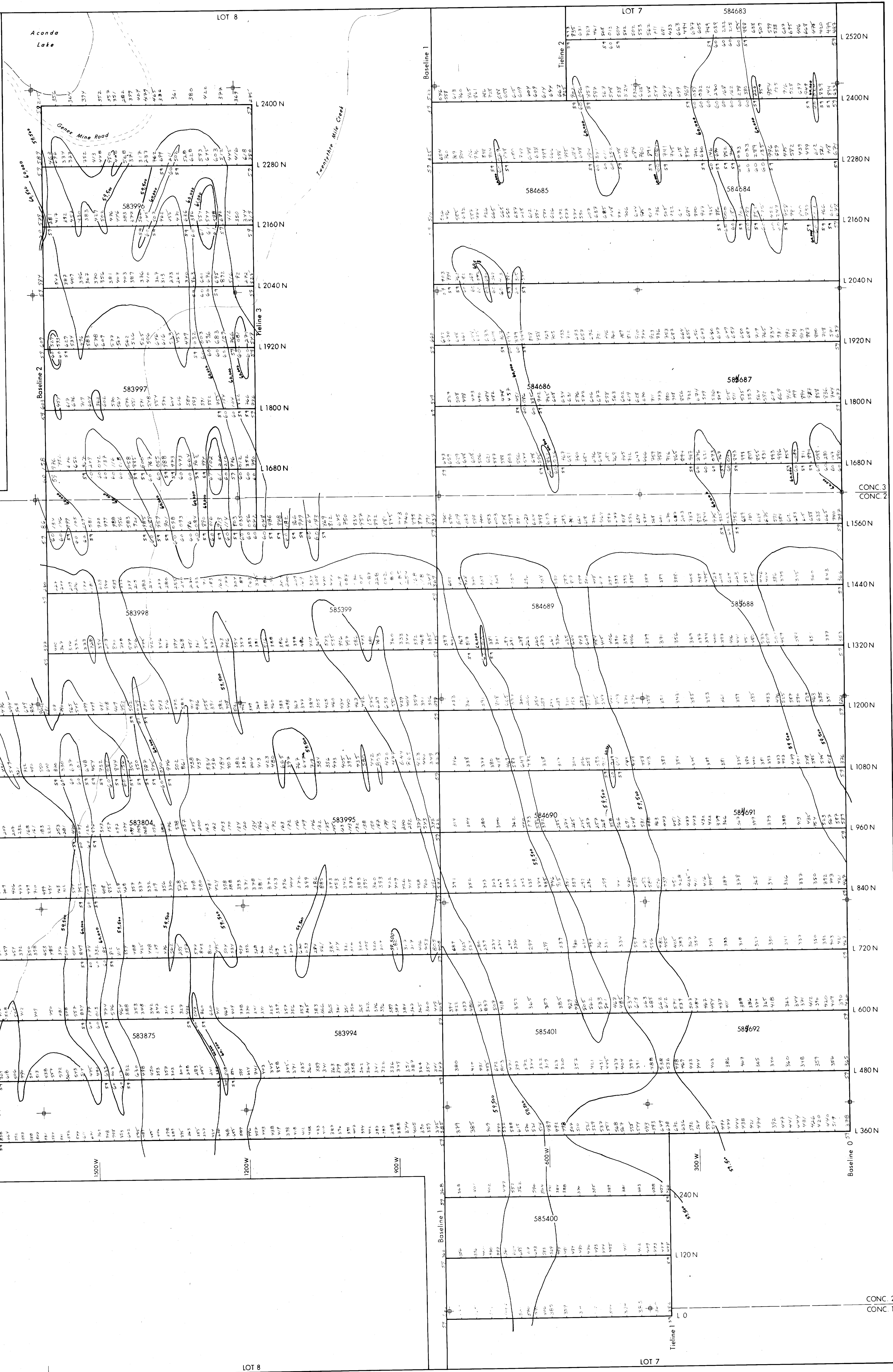
SURVEY TYPE: **MAGNETOMETER**  
 GRID: **LONG - SOUTH SHEET**  
 TOWNSHIP: **GODFREY**

Contour Interval: **50 & 100 gammas** Survey Date: **March - May, 1981**  
 Contractor: **Essex Exploration Ltd.** Interpretation: **John Grant**

Scale 1: 2500



24323



**Norcen**  
 TIMMINS JOINT VENTURE

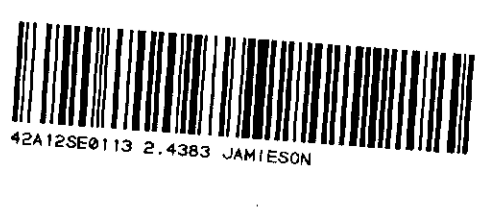
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 GRID: **LONG - SOUTH SHEET**  
 TOWNSHIP: **GODFREY**

Contour Interval: **50 & 100 gammas** Survey Date: **March - May, 1981**  
 Contractor: **Essex Exploration Ltd.** Interpretation: **John Grant**

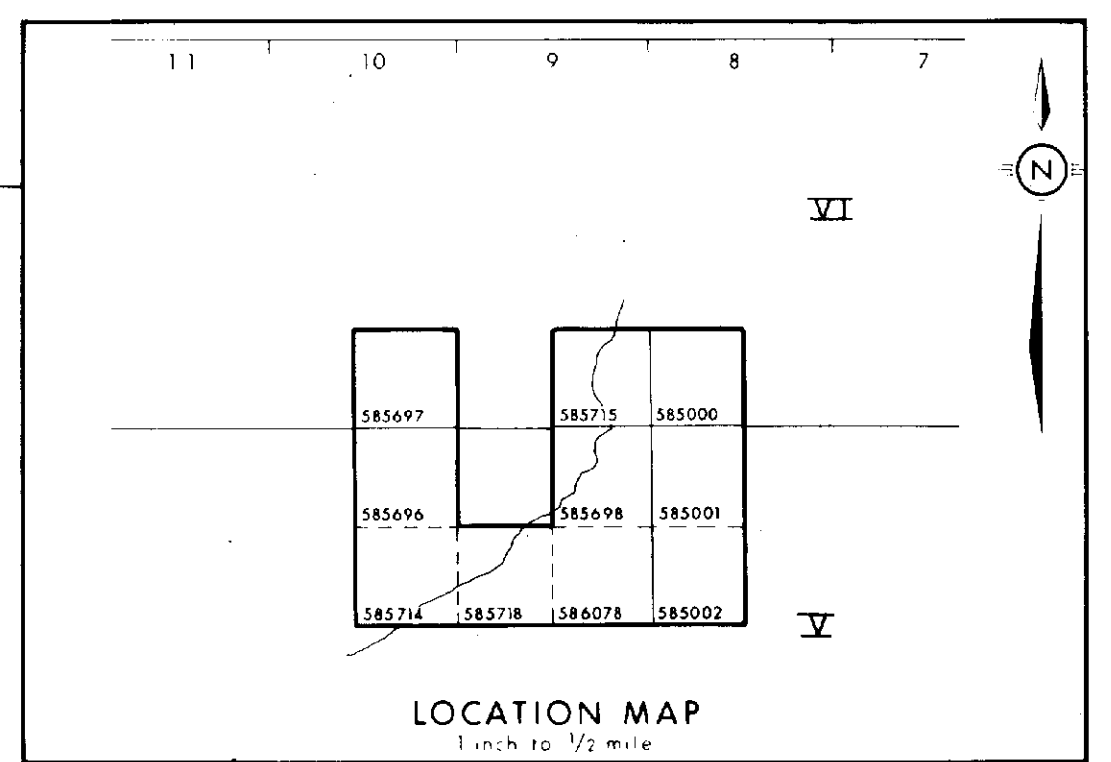
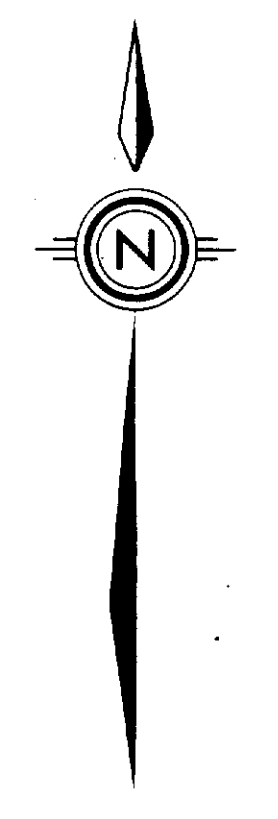
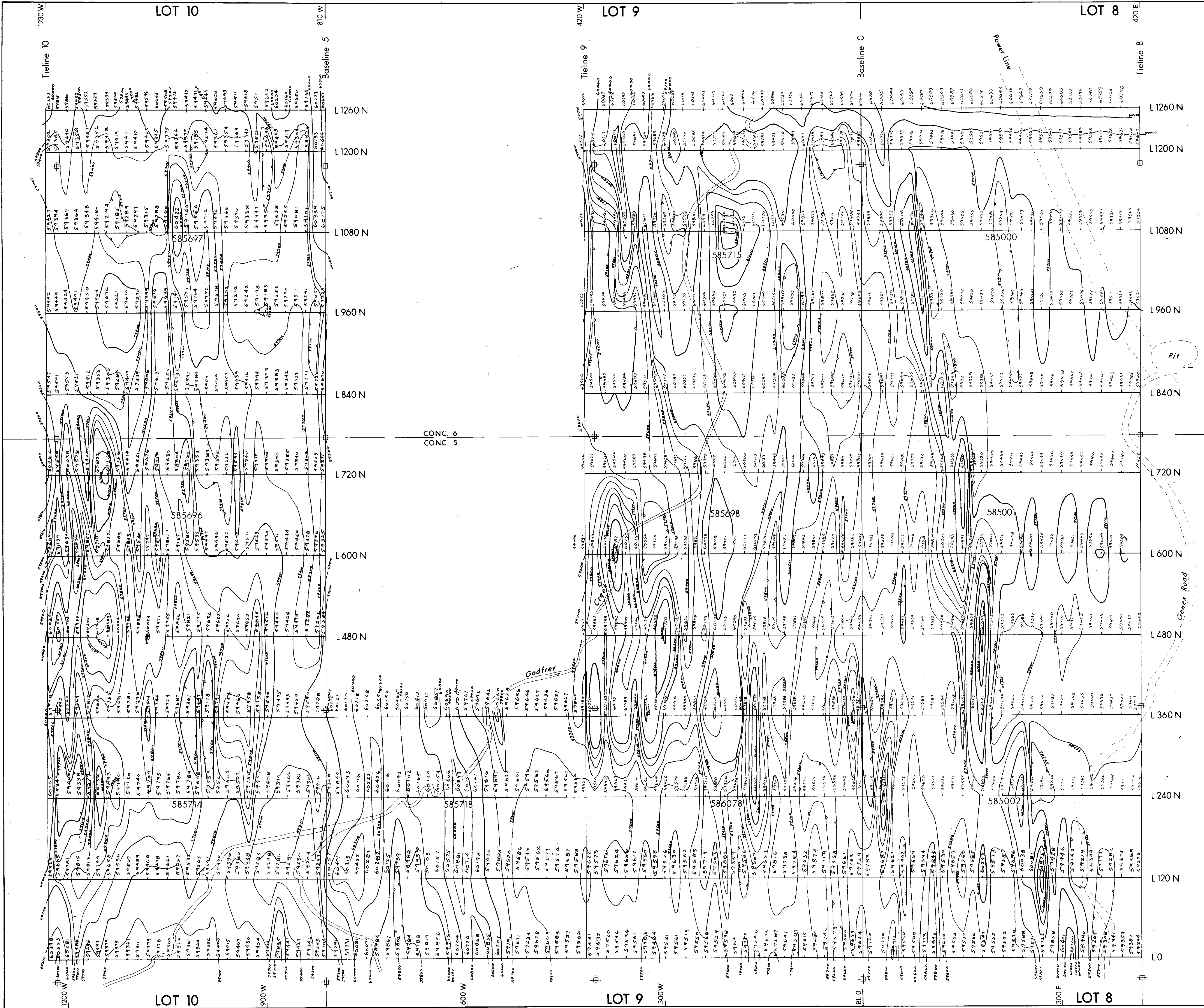
Scale 1: 2500



24323







**LEGEND**

- Total Magnetic Field: in gammas
- Base Station Location
- Magnetic Contour: 500, 100, 50 gammas
- Magnetic Depression

Instrument: Geometrics G-816 Proton Precession Magnetometer

**KEY**

- Claim Post, W.P.
- Creek
- Lake
- Swamp
- Rock Outcrop
- Claim Line
- Bush Road
- Trail
- Previous Drill Hole
- Recommended Drill Hole

**Norcen**  
Energy Resources Limited  
TIMMINS JOINT VENTURE

SURVEY TYPE: **MAGNETOMETER**

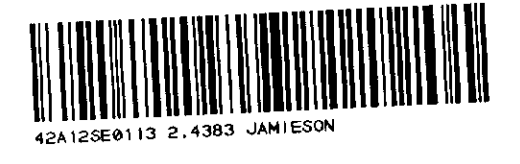
GRID: **STEEP**

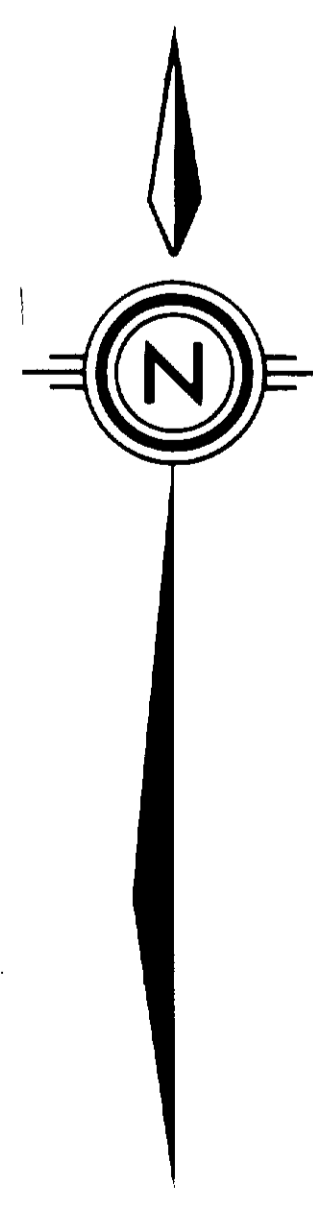
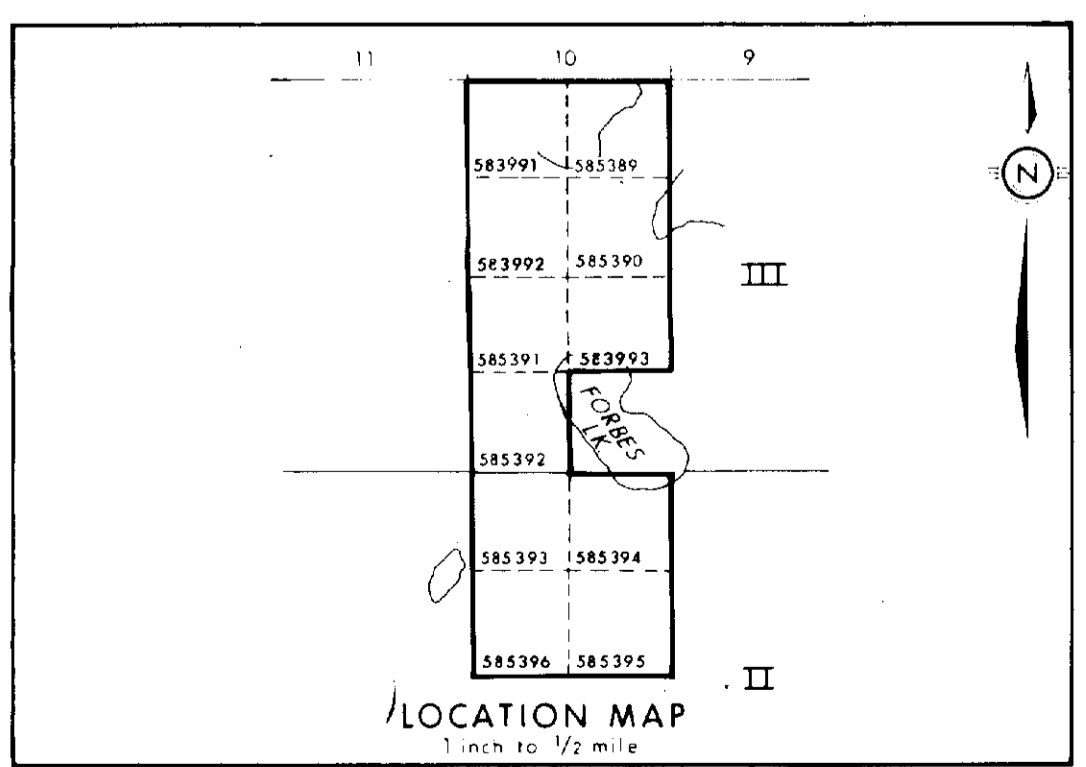
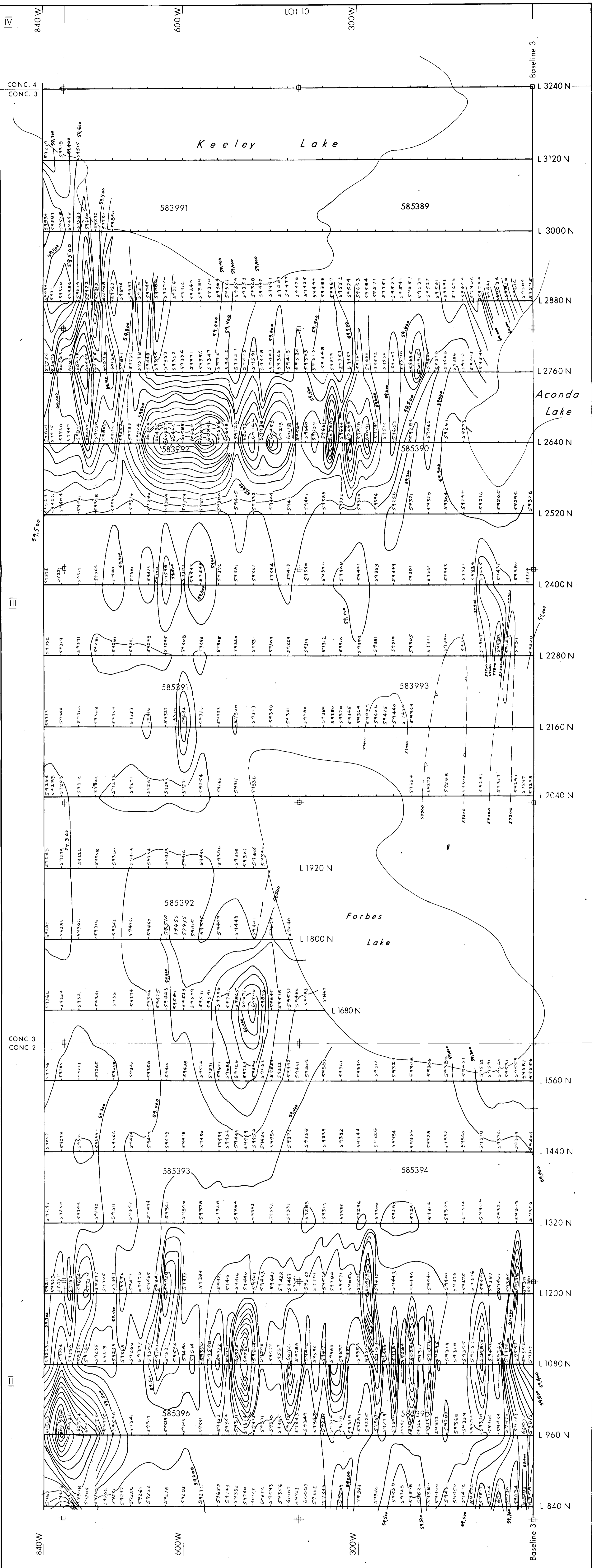
TOWNSHIP: **GODFREY** NTS: 42A/12

Contour Interval: 100, 200 + 500 γ      Survey Date: May, 1981

Contractor: Exsics Exploration Ltd.      Interpretation: John Grant

Scale 1: 2500





**LEGEND**

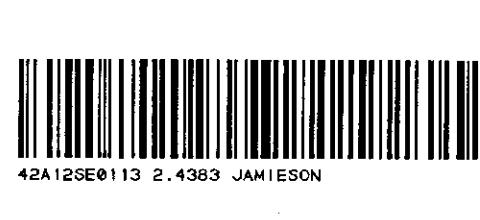
- Total Magnetic Field, in gammas
- Base Station Location
- Magnetic Contour, 500, 100, 50 gammas
- Magnetic Depression

Instrument: Geometrics G-816 Proton Precession Magnetometer

**KEY**

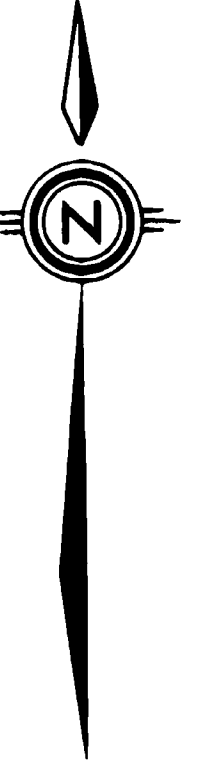
- Claim Post, W.P.
- Creek
- Lake
- Swamp
- Rock Outcrop
- Claim Line
- Bush Road
- Trail
- Previous Drill Hole
- Recommended Drill Hole

<b>Norcen</b> Energy Resources Limited TIMMINS JOINT VENTURE	
SURVEY TYPE: <b>MAGNETOMETER</b>	
GRID: <b>FORBES</b>	
TOWNSHIP: <b>GODFREY</b>	NTS: 42A/5
Contour Interval: 50 & 100 gammas	Survey Date: May, 1981
Contractor: <b>Exsics Exploration Ltd.</b>	Interpretation: <b>John Grant</b>
 Scale 1:2500	



LOT 8

LOT 7



III

II

BLD

BLD

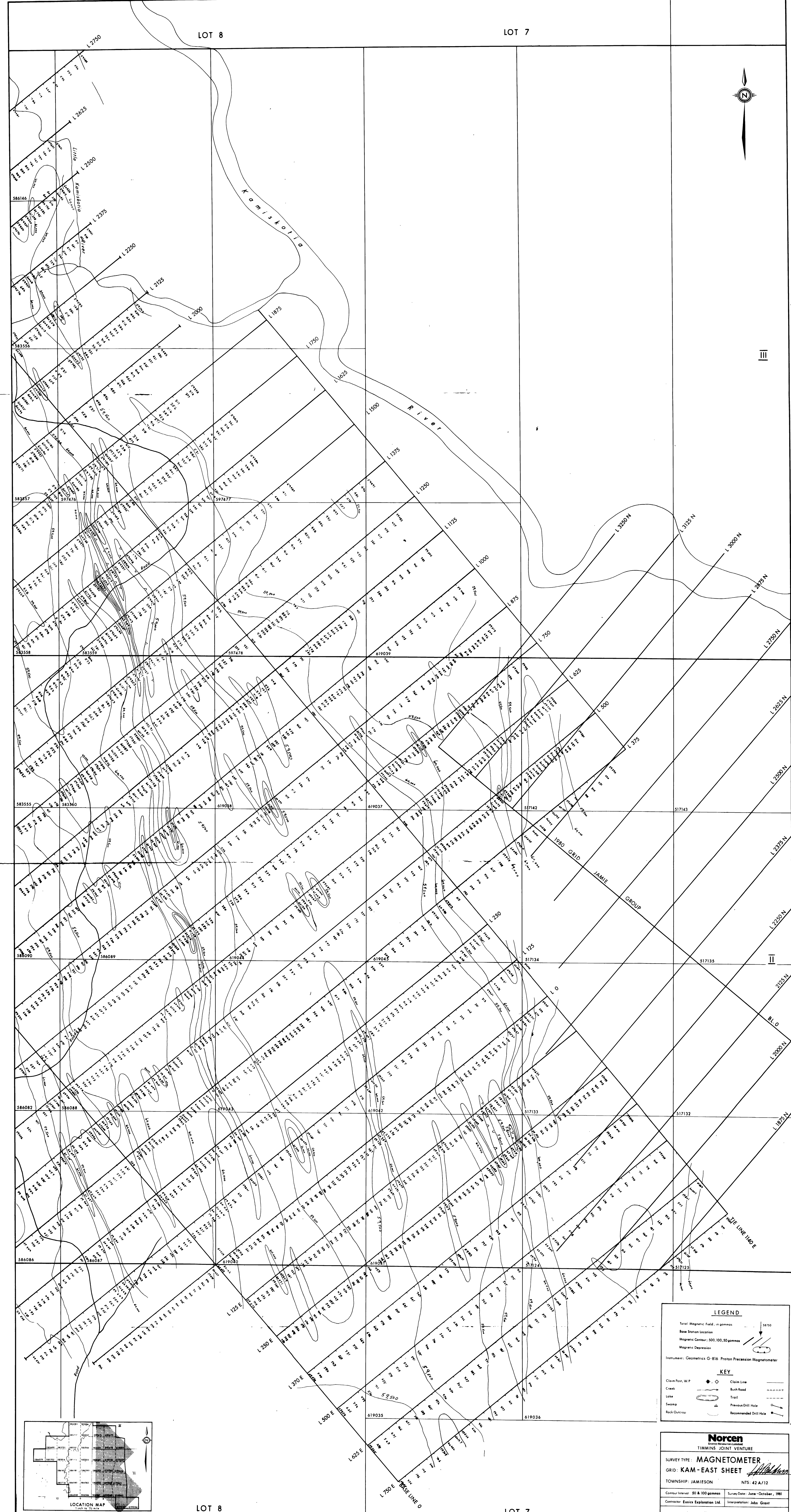
BLD

BLD

BLD

BLD

BLD



**LEGEND**

Total Magnetic Field - in gammas

Base Station Location

Magnetic Contour: 500, 100, 50 gammas

Magnetic Depression

Instrument: Geometrics G-816 Proton Precession Magnetometer

**KEY**

Claim Post, W.P.

Claim Line

Creek

Lake

Swamp

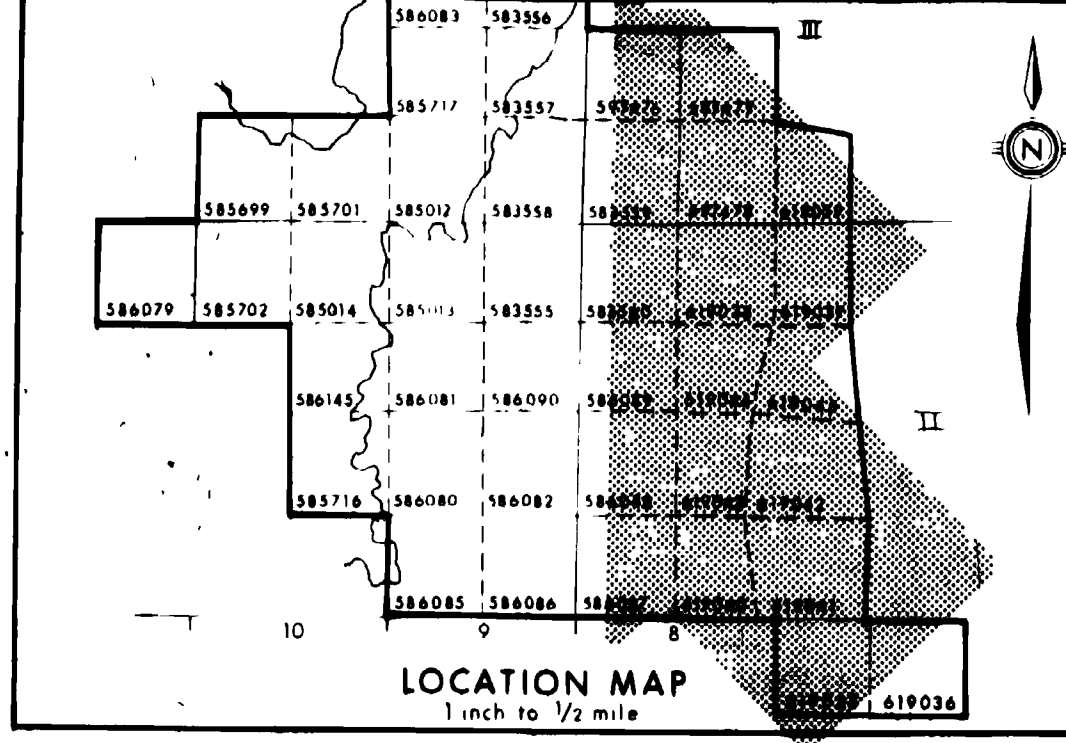
Rock Outcrop

Bulk Road

Trail

Previous Drill Hole

Recommended Drill Hole



LOT 8

LOT 7

**Norcen**  
TIMMINS JOINT VENTURE

SURVEY TYPE: **MAGNETOMETER**

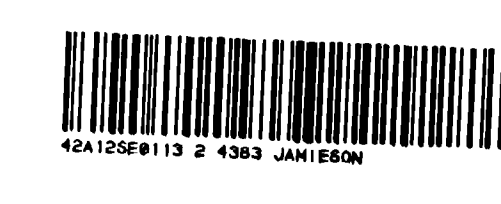
GRID: **KAM - EAST SHEET**

TOWNSHIP: JAMIESON NTS: 42 A/12

Contour Interval: 50 & 100 gammas Survey Date: June - October, 1981

Contractor: Excis Exploration Ltd. Interpretation: John Grant

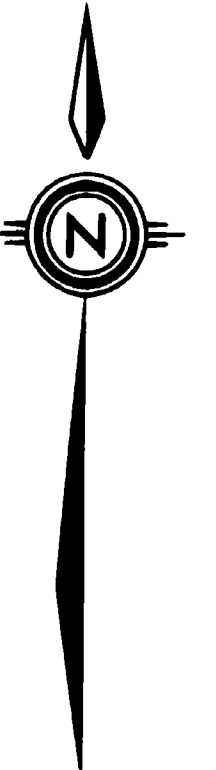
Scale 1: 2500



LOT 11

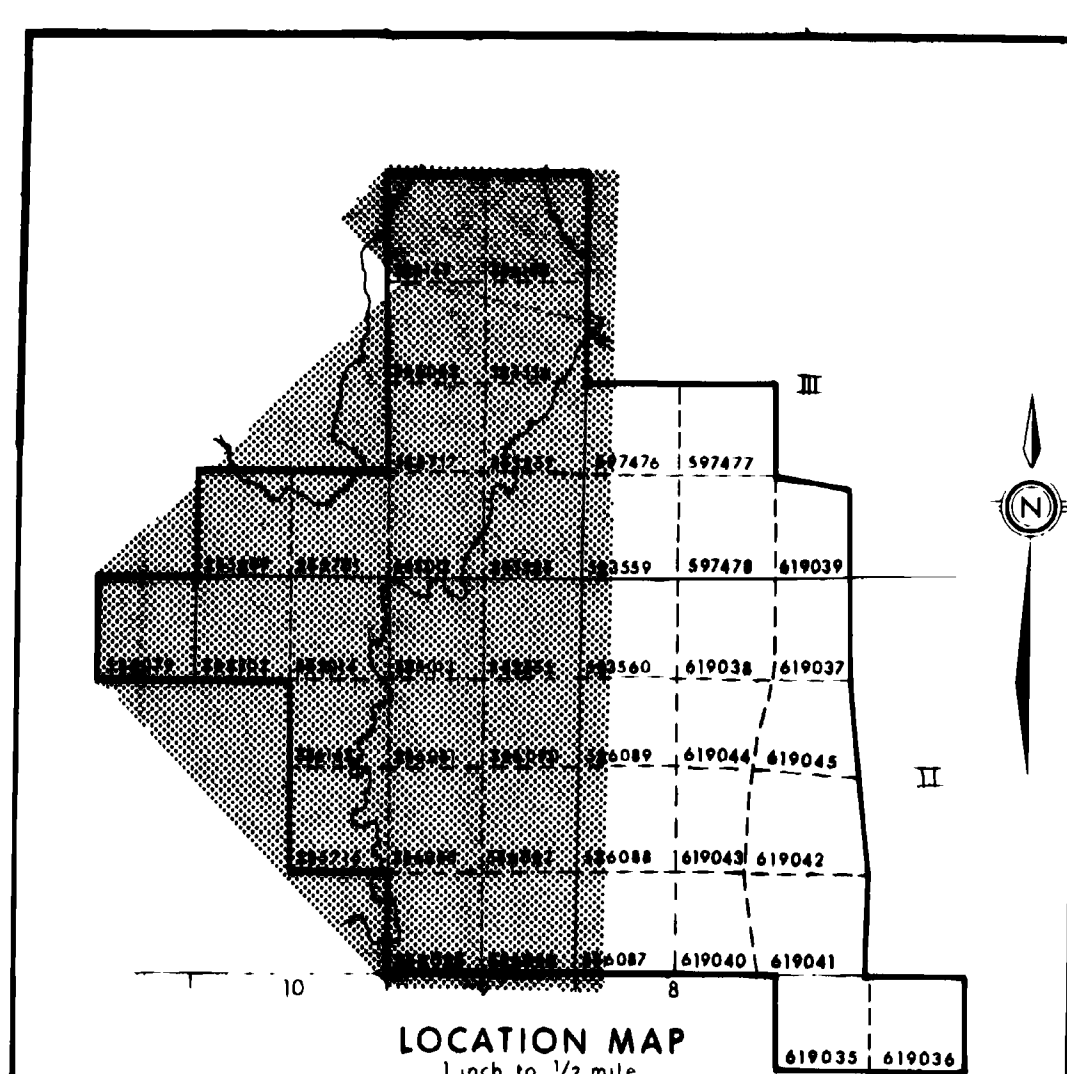
LOT 10

LOT 9



III

II



**LEGEND**

- Total Magnetic Field: in gammas
  - Base Station Location
  - Magnetic Contour: 500, 100, 50 gammas
  - Magnetic Depression
  - Instrument: Geometrics G-816 Proton Precession Magnetometer
- KEY**
- Claim Post, W.P.
  - Creek
  - Lake
  - Swamp
  - Rock Outcrop
  - Claim Line
  - Bulk Road
  - Trail
  - Previous Drill Hole
  - Recommended Drill Hole

**Norcen**  
TIMMINS JOINT VENTURE

**SURVEY TYPE: MAGNETOMETER**  
**GRID: KAM - WEST SHEET**  
 TOWNSHIP: JAMIESON NTS: 42 A/12  
 Contour Interval: 50 & 100 gammas Survey Date: June - October, 1981  
 Contractor: Enica Exploration Ltd. Interpretation: John Grant

Scale 1:2500

LOT 11

LOT 10

LOT 9

