



42A05NE0053 2.8822 GODFREY

010

KIDD CREEK MINES LTD.

GEOPHYSICAL REPORT

ON

GODFREY 21

N.T.S.: 42-A-12

PROJECT #242

**RECEIVED**

JAN 20 1986

**MINING LANDS SECTION**

JANUARY, 1986

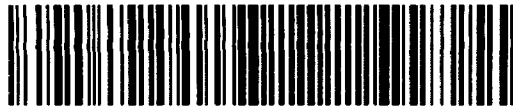
S. TAYLOR

## SUMMARY AND RECOMMENDATIONS

Horizontal loop EM, magnetic and VLF surveys were conducted over forty contiguous claims located in Godfrey Township.

The horizontal loop EM survey did not locate any bedrock conductors. The magnetic survey located north to northwest trending linear features which correspond to diabase dikes. The VLF survey indicates numerous north to northwest trending anomalies which correspond to geological contacts.

It is recommended that areas with anomalous geochemical values be surveyed with Pulse EM or IP to locate possible conductors at depth.



42A05NE0053 2.8822 GODFREY

010C

ii

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LIST OF MAPS

- MAP 1: HLEM Results: 444 Hz (Back Pocket)
- MAP 2: HLEM Results: 1777 Hz (Back Pocket)
- MAP 3: Magnetic Results (Back Pocket)
- MAP 4: VLF Results (Back Pocket)

## INTRODUCTION

Horizontal loop EM, magnetic and VLF surveys were carried out in July and August 1985 over forty contiguous claims in Godfrey Township. These claims are located in N1/2 of Concession I, Lot 11, Concession II, Lots 11 and 12, N1/2 of Concession II, Southwest corner of Lot 10, Concession III, Lots 11 and 12, N1/2 Concession III, N1/2 of Lot 10, S1/2 Concession III, Southwest corner Lot 10 (Figure 1). The following is a list of the claims covered in this report.

P-634748 - P-634783 inclusive

P-805286

P-805287

P-833214

P-833218

The property is accessed via trails from bush roads which branch off Highway 576.

The geophysical crew included R. Daigle, S. Olink, B. Pigeon, and B. Campbell.

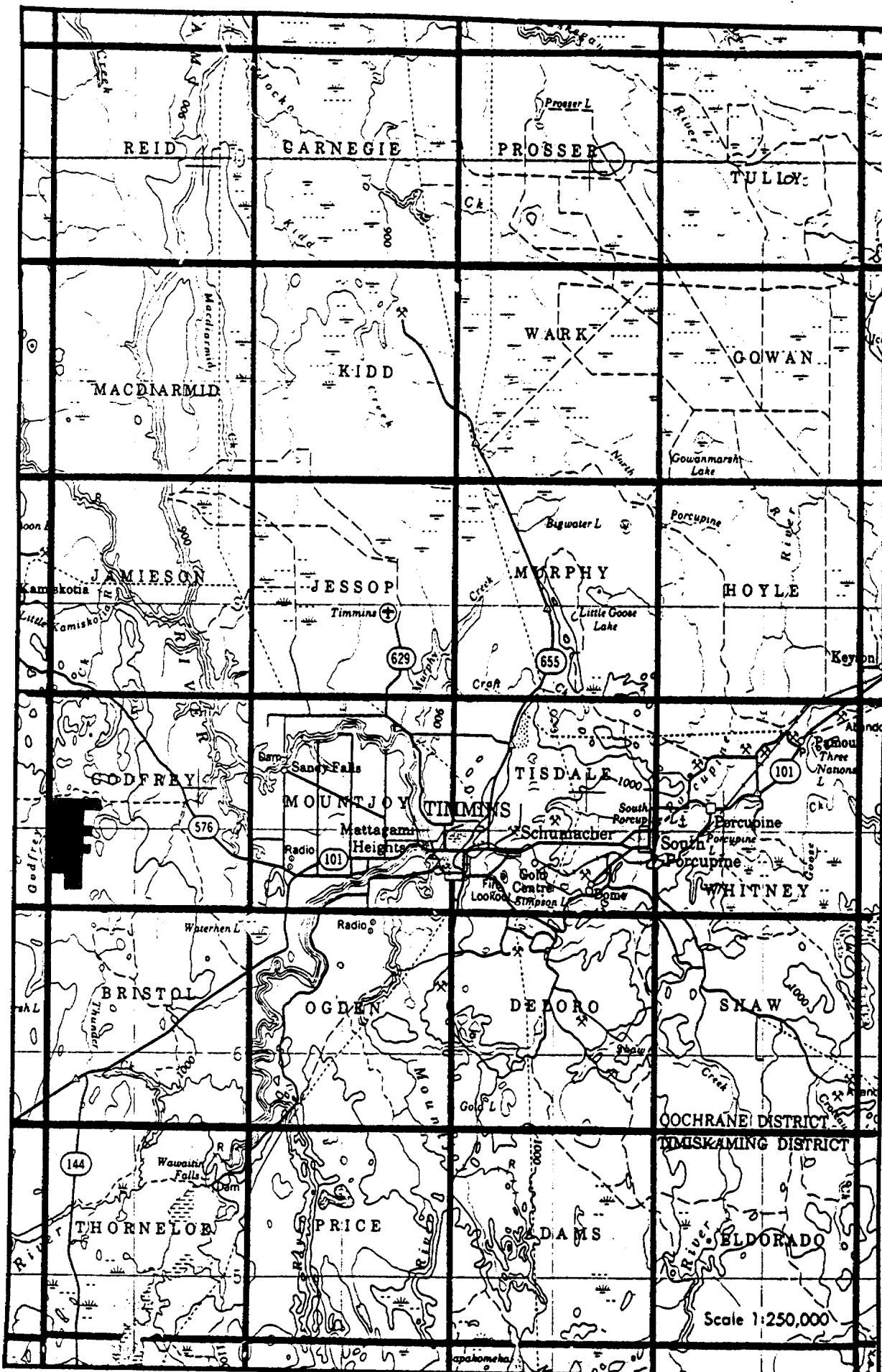


FIGURE 1: LOCATION MAP

## GENERAL GEOLOGY

The area consists of steeply dipping felsic and mafic volcanic units with gabbroic intrusions and north-south trending diabase dikes.

## PREVIOUS WORK

Several companies have conducted geophysical surveys over all or part of the forty claims covered in this report. These companies include Copper-Man Mines Ltd. (electrical resistivity and magnetic surveys, 1959) Rual Porcupine Mines Ltd. (mag, 1945), Broulan Reef Mines (dip angle survey, 1955), Mespi Mines (VEM, mag, airborne EM and mag, 1964), Mespi Mines (Crone JEM, 1966), Hollinger Mines (mag, EM, 1968), Noranda Mines (mag, EM, 1975), Northern Mines Inc. (HL, 1976) Hollinger Mines (VLF, 1978), Samin (HL, mag, 1981-1982). Data collected from these surveys is available from assessment files in Timmins. Airborne EM and mag was flown for Texasgulf in 1981. In addition, Rual Porcupine Mines Ltd. (1945), Utopia Mines Ltd. (1961), Hollinger (1968-1970) and Samin (1982) carried out mapping and lithogeochemical analysis over part of the surveyed area. Kenneco Explorations Canada Ltd. (1952) carried out trenching, dug a pit and sunk a timbered shaft (claim

Only one hole is known to have been drilled on the surveyed area. In 1976, Northin Mines Ltd. drilled a hole (approximate location 1300S, 1600W) due south to test an HLEM conductor. This hole intersected pyrite stringers and disseminated chalcopyrite.

#### SURVEY DETAILS

A north-south baseline was established and crosslines were cut at 100 m intervals. Lines were picketed every 20 m (Figure 2).

The horizontal loop EM survey was carried out with an Apex Parametrics Max Min II using a coil separation of 160 m. The in-phase and quadrature components of the secondary field were measured as a percentage of the primary field. Readings were taken every 40 m at frequencies 444 Hz and 1777 Hz. A total of 1503 stations were sampled along 52.22 km of line.

The magnetic readings were taken with a Scintrex IGS-2/MP-4. This instrument is a proton precession magnetometer which measures the earth's total magnetic field to an accuracy of  $\pm 0.1$  gamma. The diurnal drift was monitored every 30 seconds with a Scintrex MP-3 base station magnetometer located at 0 East on Line 1500 South. The base value was set at 59,423 gammas. A total of 3727 readings



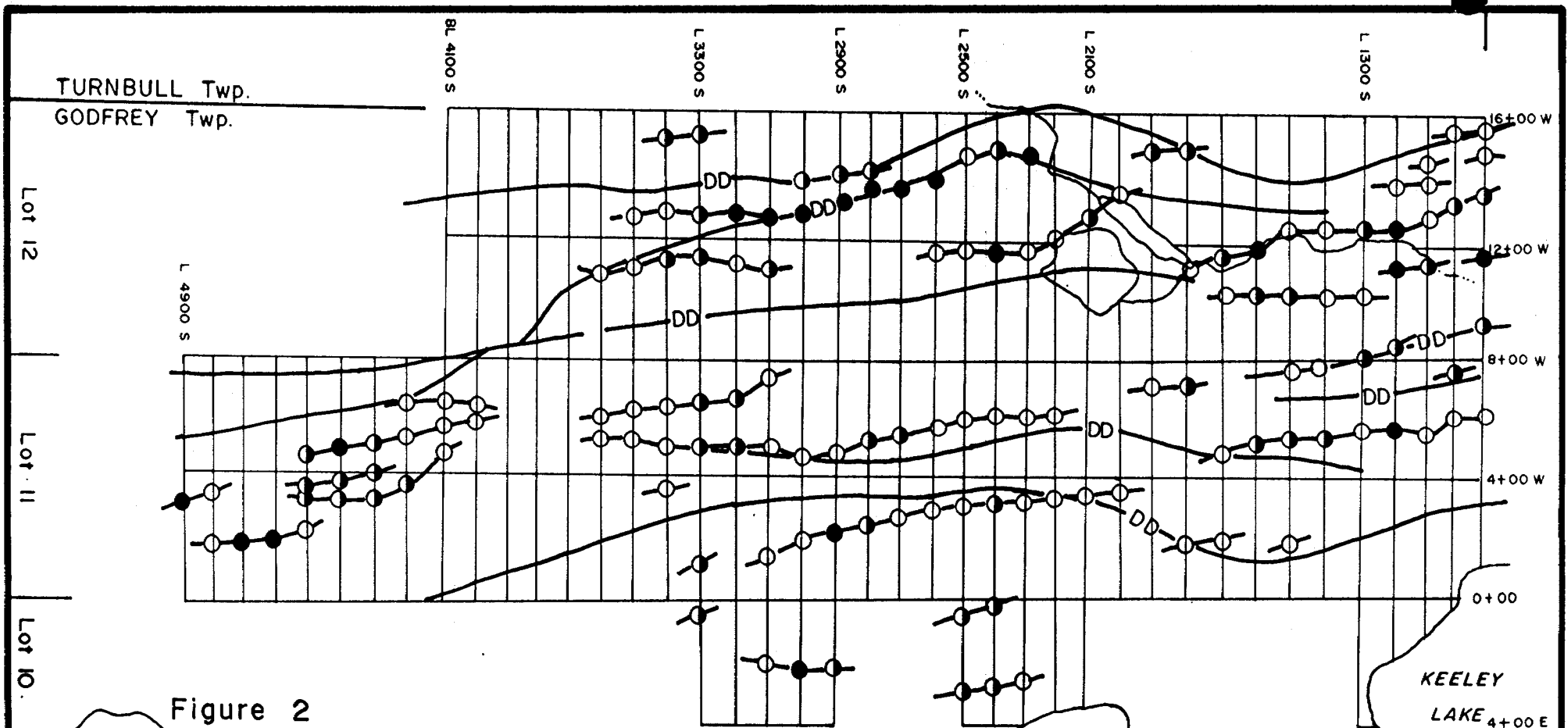


Figure 2

<b>KIDD CREEK MINES LTD.</b>		
Exploration Division		Timmins, ONTARIO
GODFREY 21		
GODFREY Twp		
<b>GEOPHYSICS COMPILATION</b>		
SCALE: 1:20,000	Data: Taylor	
Drawn: Milene	Project N <sup>o</sup> :	Date: 15/01/86



**LEGEND**

- DD— Diabase Dyke
- VLF anomalies:
- strong
- ◐ moderate
- weak

Con III  
Con IV

were taken along 63.38 km of line.

A Scintrex IGS-2/VLF-4 was used in the VLF-EM survey. Parameters measured include the horizontal field strength and the in-phase and quadrature components of the vertical field normalized to the horizontal field. The transmitter station used was Annapolis, Maryland which transmits at a frequency of 21.4 kHz. Three thousand six hundred fifty three readings were taken along 62.00 km of line.

#### HLEM RESULTS

The results of the horizontal loop EM survey are given in maps 1 and 2. The results of the low frequency survey do not indicate any bedrock conductors. Anomalous responses on the high frequency data are primarily quadrature responses, which suggests the source is bedrock topography.

#### MAGNETIC RESULTS

The results of the magnetic survey (Map 3) show north to northwest trending linear features. These features can be correlated to the location of known diabase dikes.

## VLF RESULTS

The VLF results (Map 4) indicate numerous north to northwest trending features. Correlation with a geology map of the area indicates these anomalies correspond to geological contacts. The results of all surveys are compiled in Figure 2.

Sharon Taylor  
S. Taylor

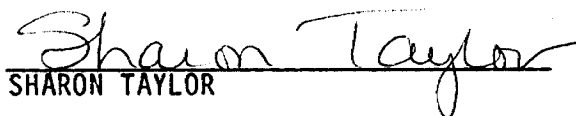
RECEIVED  
FEB 12 1986  
MINING LANDS SECTION

2.8822

D E C L A R A T I O N

I graduated from Mount Allison University in 1982 with a B.Sc. in geology and from Queen's University in 1985 with an M.Sc. in geophysics.

I am a fellow of the Society of Exploration Geophysicists, the European Association of Exploration Geophysicists, and the Prospectors and Developers Association.

  
SHARON TAYLOR



42A05NE0053 2.8822 GODFREY

900

Mining Lands Section

File No 2.8822

Control Sheet

TYPE OF SURVEY  GEOPHYSICAL  
 GEOLOGICAL  
 GEOCHEMICAL  
 EXPENDITURE

MINING LANDS COMMENTS:

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J. Hurst

Signature of Assessor

Feb 12/86.

Date

26  
FD

March 19, 1986

Your File: 424-85  
Our File: 2.8822

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

RE: Notice of Intent dated February 25, 1986  
Geophysical (Electromagnetic, Magnetometer  
& VLF) Surveys on Mining Claims P 634748,  
et al, in Godfrey Township

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The assessment work credits, as listed with the  
above-mentioned Notice of Intent, have been approved  
as of the above date.

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

Yours sincerely,

J.C. Smith, Supervisor  
Mining Lands Section

Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

SH/mc

cc: Kidd Creek Mines Ltd  
P.O. Box 1140  
571 Moneta Avenue  
Timmins, Ontario  
P4N 7H9  
Attention: Sharon Taylor

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

Resident Geologist  
Timmins, Ontario

Encl.



Recorded Holder  
**KIDD CREEK MINES LTD**

Township or Area  
**GODFREY TOWNSHIP**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ <b>40</b> _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 634748 634750 to 756 inclusive 634758 to 770 inclusive 634773 to 783 inclusive 833214-18

Special credits under section 77 (16) for the following mining claims

<u>30 DAYS</u>	<u>20 DAYS</u>	<u>10 DAYS</u>
P 634749-71-72	P 634757	P 805286-87

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder  
**KIDD CREEK MINES LTD**

Township or Area  
**GODFREY TOWNSHIP**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ <b>20</b> _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 634748 to 771 inclusive 634773 to 783 inclusive 833214 - 18

Special credits under section 77 (16) for the following mining claims

<u>15 DAYS</u>	<u>10 DAYS</u>
P 634772 805286	P 805287

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.





Recorded Holder  
KIDD CREEK MINES LTD

Township or Area  
GODFREY TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other <u>VLF 20</u> days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 634748 to 771 inclusive 634773 to 783 inclusive 833214 - 18

Special credits under section 77 (16) for the following mining claims

<u>15 DAYS</u>	<u>10 DAYS</u>
P 634772	P 805287

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

P 805286

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ontario

*Nov 12/86*

Ministry of  
Northern Development  
and Mines

February 25, 1986

Your File: #424-85  
Our File: 2.8822

Mining Recorder  
Ministry of Northern Development and Mines  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir;

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

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,

S.E. Yundt, Director  
Land Management Branch

Mining Lands Section  
Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

SH/mc  
Encls.

cc: Kidd Creek Mines Ltd  
P.O. Box 1140  
571 Moneta Avenue  
Timmins, Ontario  
P4N 7H9  
Attention: Sharon Taylor

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



Ontario

Ministry of  
Northern Development  
and Mines

Notice of Intent  
for Technical Reports

February 25, 1986

2.8822/424-85

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 the 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 directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



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

# 42 4/85  
28822

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

Jan 8/86.

Type of Survey(s) <b>Geophysical</b>		Township or Area <b>Godfrey</b>	
Claim Holder(s) <b>Kidd Creek Mines Ltd.</b>		Prospector's Licence No. <b>T-1848</b>	
Address <b>P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9</b>			
Survey Company <b>Kidd Creek Mines Ltd.</b>	Date of Survey (from & to) 04 Day   07 Mo.   85 Yr.   25 Day   08 Mo.   85 Yr.		Total Miles of line Cut <b>87.2 km</b>
Name and Address of Author (of Geo-Technical report) <b>Sharon Taylor, P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario. P4N 7H9</b>			

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	20
	- Radiometric	
	- Other VLF	20
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter in the <b>RECEIVED</b> <b>JAN 08 1986</b> <b>MINING LANDS SECTION</b>	- 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	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	634748		P	634771	
	634749			634772	
	634750			634773	
	634751			634774	
	634752			634775	
	634753			634776	
	634754			634777	
	634755			634778	
	634756			634779	
	634757			634780	
	634758			634781	
	634759			634782	
	634760			634783	
	634761			805286	
	634762			805287	
	634763			833214	
	634764			833218	
	634765				
	634766				
	634767				
	634768				
	634769				
	634770				

**RECORDED**  
NOV 19 1985

**RECEIVED**  
NOV 19 1985  
MINING DIVISION

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. **40**

For Office Use Only

Total Days Cr. Recorded **3,200** Date Recorded **Nov 19/85** Mining Technician **[Signature]**

Date Approved as Recorded **[Signature]** Branch Director **[Signature]**

Date **Nov. 19, 1985** Recorded Holder or Agent (Signature) **Sharon Taylor**

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  
**Sharon Taylor, Kidd Creek Mines Ltd., P. O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9**

Date Certified **Nov. 19, 1985** Certification by (Signature) **Sharon Taylor**

February 3, 1986

File: 2.8822

Kidd Creek Mines Ltd  
P.O. Box 1140  
571 Moneta Avenue  
Timmins, Ontario  
P4N 7H9

Dear Sirs:

RE: Geophysical (Magnetometer, Electromagnetic,  
VLF) Surveys submitted on Mining Claims  
P 634748, et al, in Godfrey Township

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Returned herein is the last page of the report (in duplicate). Please have the author of the report sign each copy and return them to this office, quoting file 2.8822.

For further information, please contact Susan Hurst at (416)965-4888.

Yours sincerely,

S.E. Yundt, Director  
Land Management Branch

Mining Lands Section  
Whitney Block, 6th Floor  
Queen's Park  
Toronto, Ontario  
M7A 1W3

SH/mc

cc: Mining Recorder  
Timmins, Ontario  
#424/85

Encl.

January 8, 1986

Report of Work #424-85

Kidd Creek Mines Ltd  
P.O. Box 1140  
571 Moneta Avenue  
Timmins, Ontario  
P4N 7H9

Dear Sirs:

RE: Mining Claims P 634748, et al,  
in Godfrey Township

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I have not received the reports and maps (in duplicate)  
for Geophysical (Electromagnetic, Magnetometer and VLF)  
Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the  
Mining Recorder on November 19, 1985 the 60 day period  
allowed by Section 77 of the Mining Act for the submission  
of the technical reports and maps to this office will  
expire on January 17, 1986.

If the material is not submitted to this office by January 17,  
1986 I will have no alternative but to instruct the Mining  
Recorder to delete the work credits from the claim record  
sheets.

For further information, please contact Mr. Arthur Barr at  
(416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-4888

AB/mc  
cc: Sharon Taylor  
Kidd Creek Mines Ltd  
P.O. Box 1140  
571 Moneta Avenue  
Timmins, Ontario P4N 7H9

Mining Recorder  
Timmins, Ontario

Encl.



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) Geophysical  
Township or Area Godfrey  
Claim Holder(s) Kidd Creek Mines Ltd., P.O. Box 1140  
571 Moneta Avenue, Timmins, Ontario  
Survey Company Kidd Creek Mines Ltd.  
Author of Report Sharon Taylor  
Address of Author P.O. Box 1140, Timmins, Ontario  
Covering Dates of Survey July 25/85 to Jan. 16/86  
(linecutting to office)  
Total Miles of Line Cut 87.2 km

MINING CLAIMS TRAVERSED  
List numerically

(See attached schedule A)  
(prefix) (number)

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

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)  
Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Jan. 16, 1986 SIGNATURE: Sharon Taylor  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 28510

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 40

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

HLEM 1503

Mag 3727

VLF 3653

Number of Stations 3293 Number of Readings

Station interval 20 m Line spacing 100 m

Profile scale HLEM 1cm = 20%, VLF 1 cm = 20°

Contour interval mag. 200 gammas

MAGNETIC

Instrument Scintrex IGS-2/MP-4 Proton Precession magnetometer

Accuracy - Scale constant ± 0.1 gamma

Diurnal correction method Base Station Recorder

Base Station check-in interval (hours) 30 seconds

Base Station location and value 1500S, 0E base value 59,423

ELECTROMAGNETIC

Instrument Apex Parametrics Max Min II

Coil configuration Horizontal Loop

Coil separation 160 m

Accuracy ± 1%

Method: [ ] Fixed transmitter [ ] Shoot back [x] In line [ ] Parallel line

Frequency 444 Hz and 1777 Hz (specify V.L.F. station)

Parameters measured Secondary field as a percent of the primary field

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 Electromagnetic

Instrument IGS-2/VLF-4

Accuracy  $\pm 1$  Field strength,  $\pm$  secondary components

Parameters measured In phase and quadrature components of secondary field as a percent of the primary field.

Additional information (for understanding results) Station utilized was Annapolis, Maryland (21.4 kHz).

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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SCHEDULE A

P - 634748  
P - 634749  
P - 634750  
P - 634751  
P - 634752  
P - 634753  
P - 634754  
P - 634755  
P - 634756  
P - 634757  
P - 634758  
P - 634759  
P - 634760  
P - 634761  
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P - 634767

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P - 634777  
P - 634778  
P - 634779  
P - 634780  
P - 634781  
P - 634782  
P - 634783  
P - 805286  
P - 805287  
P - 833214  
P - 833218

Shawn Taylor

**Kidd Creek Mines Ltd.**

Box 1140  
571 Moneta Avenue,  
Timmins, Ontario P4N 7H9  
(705) 267-1188

Exploration Division

January 16, 1986

Mr. Ray Pichette  
Director, Land Management Branch  
Whitney Block, Room 6450  
Queen's Park  
TORONTO, Ontario  
M7A 1W3

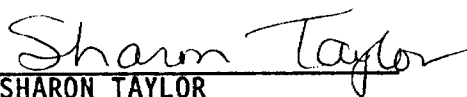
Dear Sir:

Re: GODFREY TOWNSHIP

Enclosed please find duplicate copies of a report and maps covering claims in Godfrey Township. The claims aforementioned are P-634748 et al.

Your prompt attention to this matter would be greatly appreciated.

Yours truly,

  
SHARON TAYLOR

ST/pp  
Encls.

**RECEIVED**

JAN 20 1986

**MINING LANDS SECTION**

**Kidd**

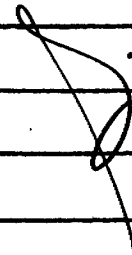
m EM ULF

m EM ULF

2.8822

634748	✓	✓	✓
49	✓	1/4	✓
50	✓	✓	✓
51	✓	✓	✓
52	✓	✓	✓
53	✓	✓	✓
54	✓	✓	✓
55	✓	✓	✓
56	✓	✓	✓
57	✓	1/2	✓
58	✓	✓	✓
59	✓	✓	✓
60	✓	✓	✓
61	✓	✓	✓
62	✓	✓	✓
63	✓	✓	✓
64	✓	✓	✓
65	✓	✓	✓
66	✓	✓	✓
67	✓	✓	✓
68	✓	✓	✓

634769	✓	✓	✓
70	✓	✓	✓
71	✓	1/4	✓
72	1/4	1/4	1/4
73	✓	✓	✓
74	✓	✓	✓
75	✓	✓	✓
76	✓	✓	✓
77	✓	✓	✓
78	✓	✓	✓
79	✓	✓	✓
80	✓	✓	✓
81	✓	✓	✓
82	✓	✓	✓
83	✓	✓	✓
805286	1/4	3/4	NC
87	1/2	3/4	1/2
833214	✓	✓	✓
18	✓	✓	✓

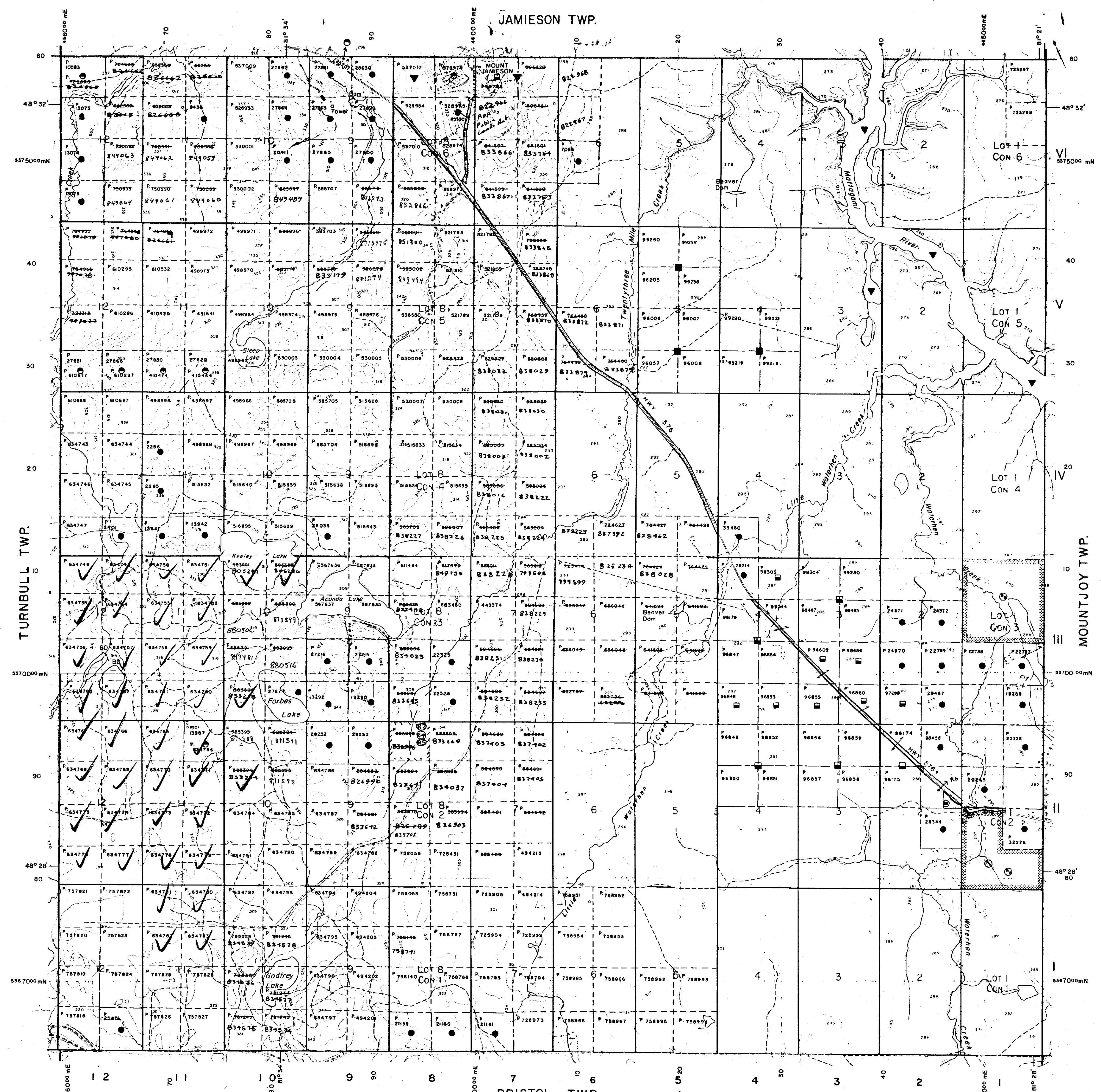


MAP SYMBOLOLOGY

Aerial Cableway	Pipeline (stone ground)
Boundary	Railroad
International	Single Track
Provincial	Double Track
District, Township	Abandoned
Indian Reserve	Articled
Approximate	Road
Lot, Concession	Highway, County
Approximate	Township
Park Boundary	Access (road of doubtful maintenance or unimproved driveway)
Bridge	Rapids
Road, Railroad	Double line river with multiple rapids
Building	Reservoir
Chimney	River, Stream, Canal
Cliff, Pit, Pile	Approximate
Contours	Structure of flow
Interpreted	Rock
Approximate	Spill
Depression	Spot Elevation
Control Points	Transmission Line
Horizontal	Power
Vertical	Water
Culvert	Falls
Double line river	Fence, Hedge, Wall
Feature Outline	Feature Outline
Flooded Land	Flooded Land
Lock	Lock
Marsh or Swamp	Marsh or Swamp
Moat	Moat
Mine Head Frame	Mine Head Frame
Outcrop	Outcrop
	low use permit

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
  - S.R.O. - SURFACE RIGHTS ONLY
  - M.+S. - MINING AND SURFACE RIGHTS
- Description Order No. Date Disposition File
- (A) - S.R.O. UNDER APPLICATION FOR AGRICULTURAL PURPOSES
  - (B) - CERTIFIED AGRICULTURAL LAND - 26/8/82 SUBJECT TO SEC. 4(1) OF THE MINING ACT.
  - (C) - BONA FIDE APPLICATION
  - (D) - Pending S.R. Disposition under P.A.
  - (E) - Pending proceedings, land not open
  - (F) - FILED ONLY NOV 15/85 - B35628



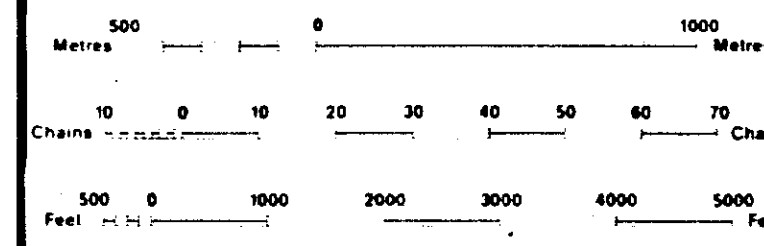
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
SURVEY LINE	
TOWNSHIP, RANGE, MERIDIAN	
LOTS, MINING CLAIMS, PATENTS ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKIEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

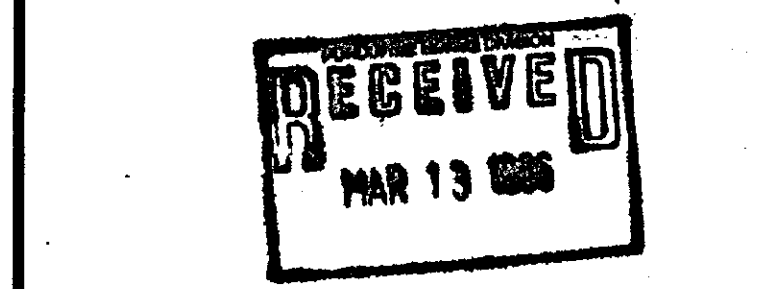
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▽
ORDER IN COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1912, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 43, SUBSEC. 1



SCALE 1:20 000  
GRID ZONE: 17

NOTES  
FLOODING RIGHTS ON EITHER SIDE OF THE MATTAGAMI RIVER TO H.E.P.C.



TOWNSHIP  
**GODFREY**  
M.N.S. ADMINISTRATIVE DISTRICT  
TIMMINS  
MINING DIVISION  
PORCUPINE  
LAND TITLES / REGISTRY DIVISION  
COCHRANE

Ontario Ministry of Natural Resources Land Management Branch

ORIGINAL COMPLETION JULY 1984  
REVISED  
Number  
**G-3991**



GODFREY TWP.

LINE 900 S

LINE 1000 S

LINE 1100 S

LINE 1200 S

LINE 1300 S

LINE 1400 S

LINE 1500 S

LINE 1600 S

LINE 1700 S

LINE 1800 S

LINE 1900 S

LINE 2000 S

LINE 2100 S

LINE 2200 S

LINE 2300 S

LINE 2400 S

LINE 2500 S

LINE 2600 S

LINE 2700 S

LINE 2800 S

LINE 2900 S

LINE 3000 S

LINE 3100 S

LINE 3200 S

LINE 3300 S

LINE 3400 S

LINE 3500 S

LINE 3600 S

LINE 3700 S

LINE 3800 S

LINE 3900 S

LINE 4000 S

LINE 4100 S

8 E

6 E

4 E

2 E

0

2 W

4 W

6 W

8 W

10 W

12 W

14 W

16 W

18 W

20 W

22 W

24 W

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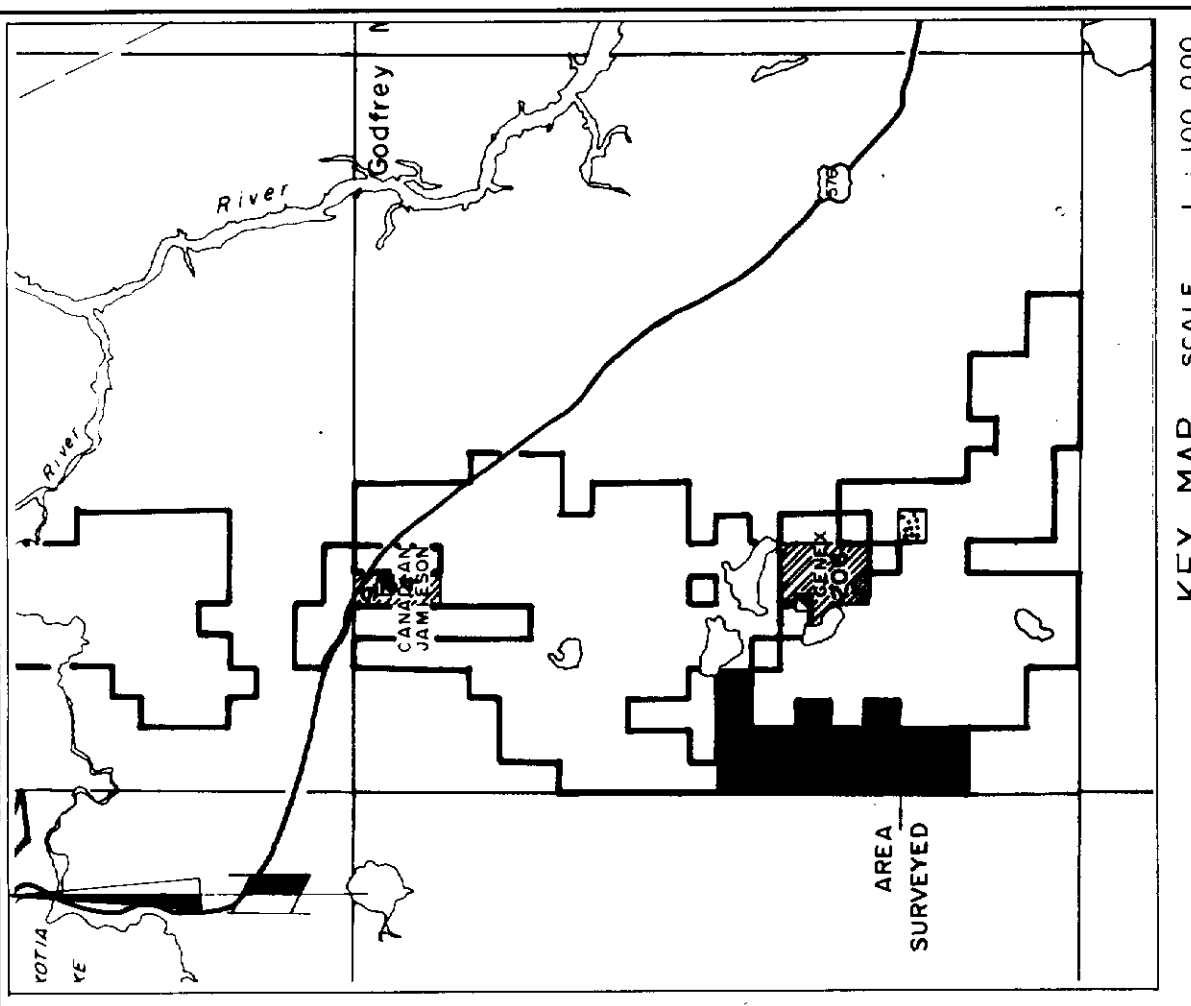
56 W

58 W

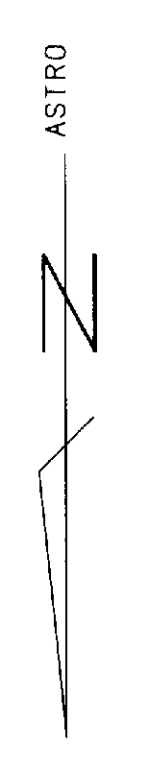
8 E

6 E



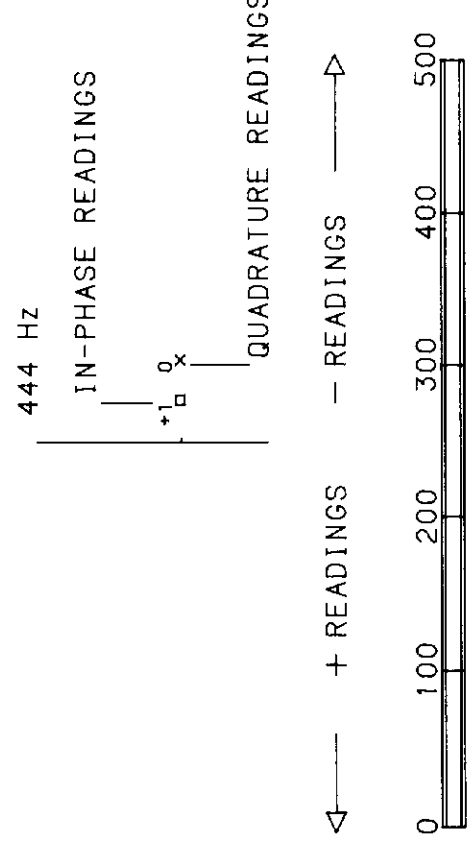


KEY MAP SCALE 1:100,000

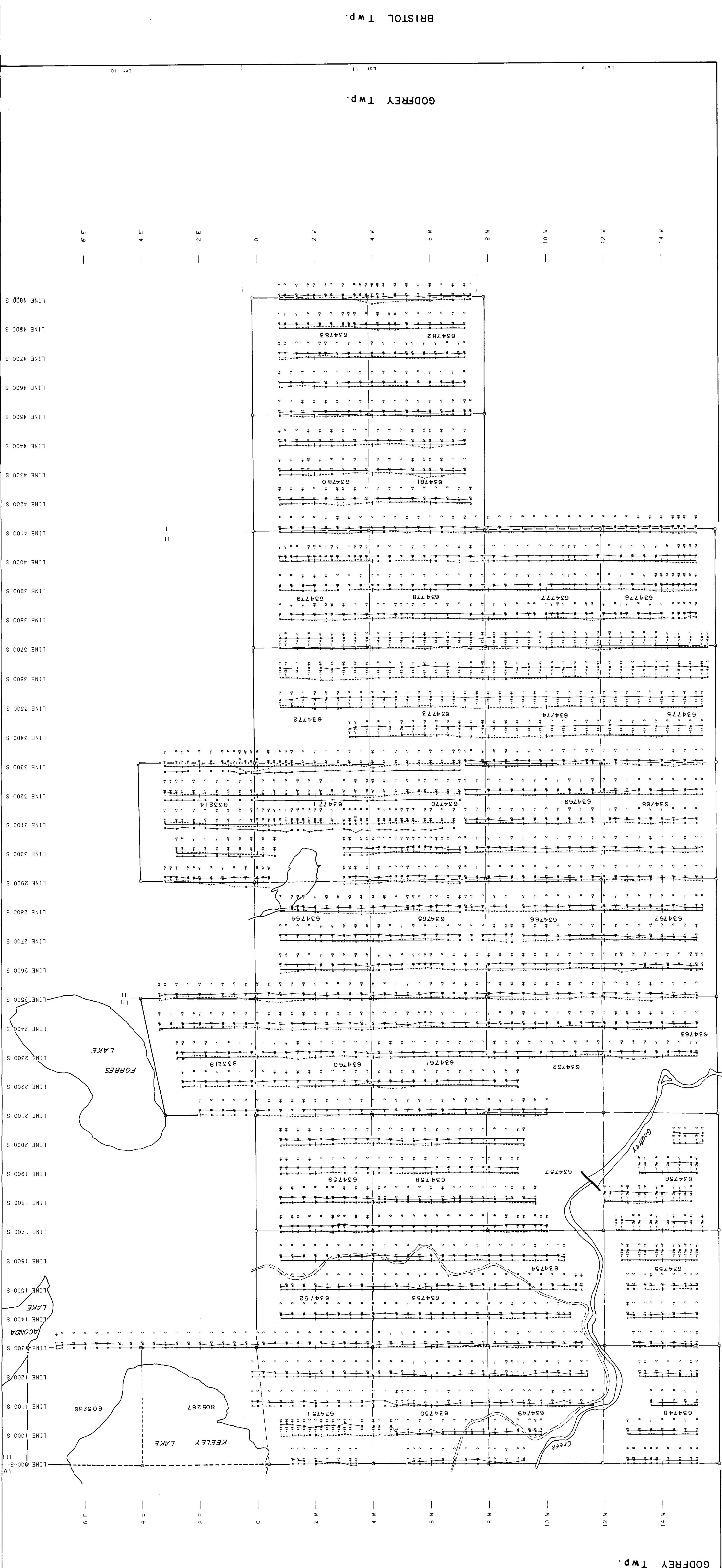


UNREALIZED CLAIM POST LOCATIONS

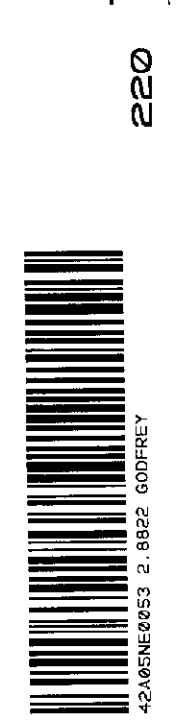
LEGEND  
 INSTRUMENT: APEX PARAMETRICS MAXMIN 1  
 FREQUENCY: 444 Hz  
 COIL SPACING: 150 METRES  
 PROFILE SCALE: 1 CM = 20M



KIDD CREEK MINES LTD.  
 HORIZONTAL LOOP SURVEY  
 GODFREY TOWNSHIP  
 GODFREY 21  
 NTS-42-A-21 PROJ.#242  
 DATE: 1986  
 FILE NAME: 85G0021.HL

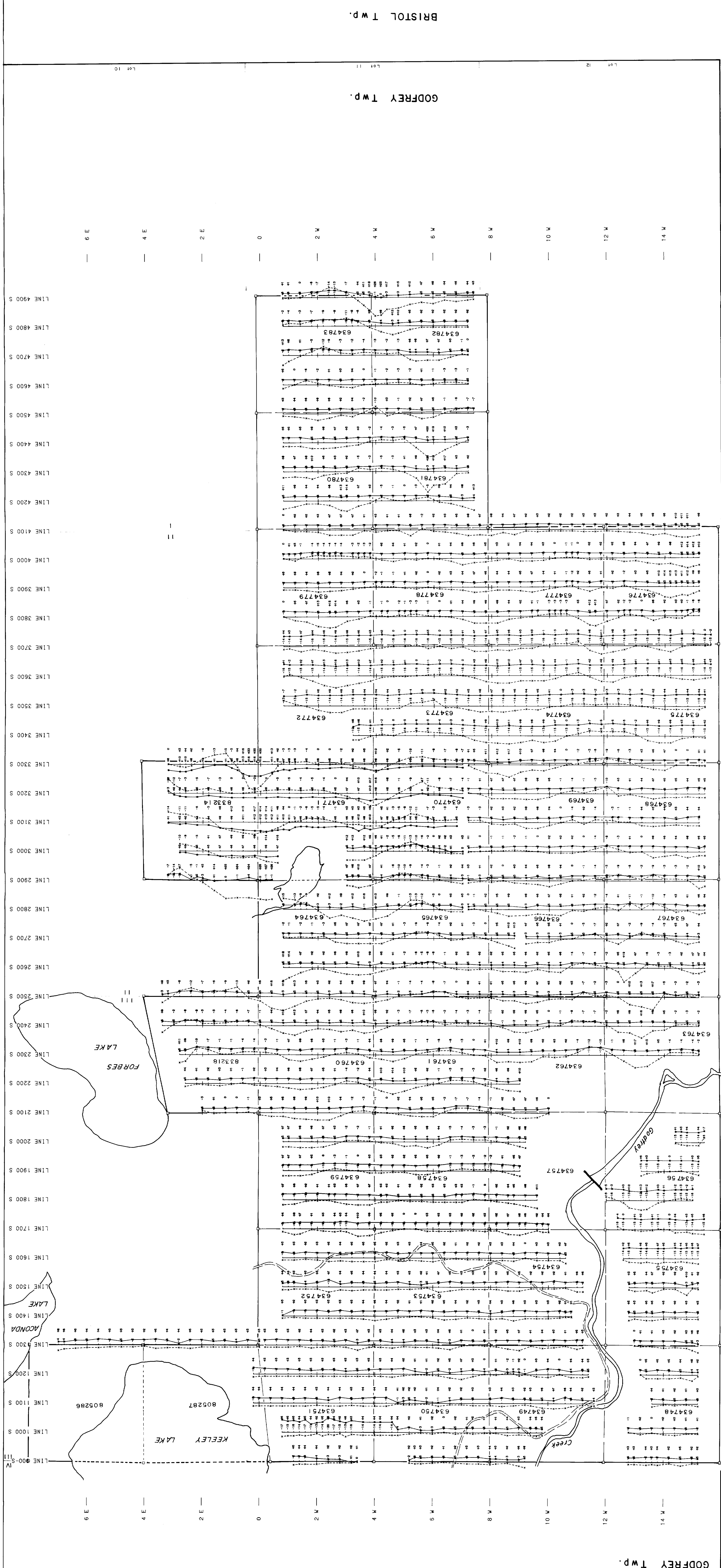
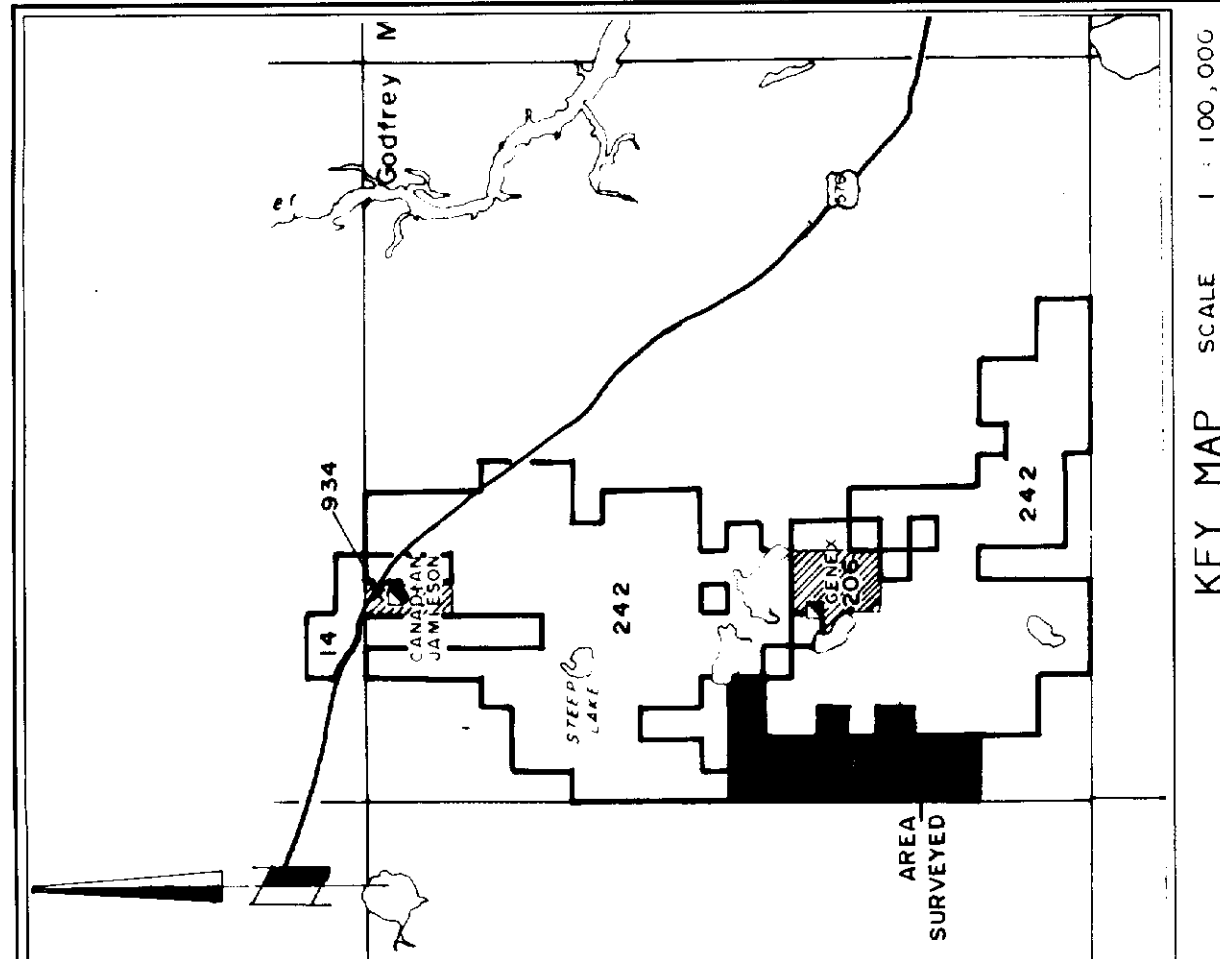


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KIDD CREEK MINES LTD.  
 HORIZONTAL LOOP SURVEY  
 GODFREY TOWNSHIP  
 GODFREY 21  
 PROJ. #242  
 NTS-42-A-21  
 DATE 1986  
 FILE NAME 850002.HL  
 WORK BY *Sheldon Taylor*

INSTRUMENT - APEX PARAMETRICS MAXMIN 1  
 FREQUENCY 1777 Hz  
 DISTANCE 160 METRES  
 PROFILE SCALE 1 CM= 20X  
 1777 Hz  
 IN-PHASE READINGS  
 QUADRATURE READINGS  
 + READINGS - READINGS  
 METRES (1:5000)  
 0 100 200 300 400 500

LEGEND  
 IDEALIZED CLAIM POST LOCATIONS  
 ASTRO  
 N  
 2822

BRISTOL Twp.  
 GODFREY Twp.

GODFREY Twp.  
 TURNBULL Twp.



