

010

# **LES MINES INMET**

GEOPHYSICAL SURVEYS

CROXALL-KANGAS PROJECT

THORNELOE & PRICE TOWNSHIPS

FEBRUARY 1996

2.16490

RECEIVED

MAY 9 - 1996

MINING LANDS BRANCH

- SERVICES EXPLORATION ENRG.



010C

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# **MAPS & SKETCHES**

1 - Claim Map	
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- SERVICES EXPLORATION ENRG.

### I - INTRODUCTION:

At the request of « LES MINES INMET » geophysical surveys were carried out, by Exploration Services Reg'd, during the month of February, 1996, on the CROXALL-KANGAS property located on adjoining Ogden. Price and Thorneloe townships.

The <u>magnetometer</u> and <u>V. L. F.</u> surveys were undertaken to be used as guides to the geological interpretation of the general area.

### II - PROPERTY:

The CROXALL-KANGAS property consists of a block of 90 contiguous claims - the surveys referred to in this report coverred claim 1177832 located in Thorneloe Twp. and claim 1160199 located in Price Twp.

### **III - LOCATION & ACCESSIBILITY:**

The claim group is located at an approximate distance of 16 Km southwest of the Timmins city centre.

The area is readily accessible from Timmins by driving along a gravel road witch leads to the Wawaitin Falls hydro dam located on Mattagami River.

### IV - GEOPHYSICAL SURVEYS:

### A) Claim 1177832 (Thorneloe Twp.)

The surveys were carried out along a previously cut grid whose base line strikes westerly along the southern boundary of the claim for a distance of 400 m. Cross lines spaced at 200 meter intervals extend northward for a distance of 800 meters to the northern claim limit. Thus a total of 3.2 Km of lines have been covered by the survey.

### • Magnetometer survey:

### - Instrumentation:

An Exploranium G-816 proton magnetometer was used for the survey - readings were taken at every 12.5 meter intervals.

## - Data presentation:

The data were plotted on maps at the scale of 1:5 000; in addition to the posted numbers, a coloured magnetic map with contour intervals was prepared.

### - Interpretation:

As defined by the 1 500 gamma contour line, the magnetometer survey has outlined a relatively strong 100 meter wide feature trending in an east-west direction across the surveyed area between 3 N and 4 N.

A mafic intrusive dipping to the south is the probable cause of this magnetic anomaly.

The magnetic intensity of the area south of the main anomaly varies between 500 and 1 000 gammas - these values suggest the presence of volcanic units.

The magnetic intensity north of the main anomaly varies between 150 and 500 gammas - these values generaly indicate the presence of sedimentary rocks.

• VLF survey: (EM-16)

- Instrumentation:

A Geonic's EM-16 unit was used for the survey - readings were taken at every 12.5 meters tuned to station NAA at 24.0 Khz.

- Data presentation:

The data were plotted on a map at the scale of 1:5 000. Profiles were drafted at the scale of 1 cm = 10% for both the In-phase and Out-of-phase values.

- Interpretation:

The data of the V. L. F. survey did not indicate the presence of signifiant conductors.

B) Claim 1160199 (Price Twp.)

The surveys were carried out along a previously cut grid whose 700 meter long base line strikes easterly along the southern limit of the claim group. Cross lines, spaced at every 100 meter intervals extend northwards for distances of 50 to 125 meters up to the northern limits of this irregular claim.

A total of 1.3 line Km were cut and surveyed on this grid.

- Magnetometer Survey:

The instrumentation and presentation are the same as for the survey on claim 1177832.

- Interpretation:

The magnetic pattern outlined by the survey is an irregular one - no specific trends are apparent because of the limited nature of the survey.

# - V. L. F. Survey:

The instrumentation and data presentation are the same as for the survey carried out on claim 1177832.

# - Interpretation:

A 200 meter long conductor has been observed within the surveyed area - the conductor axis traverses line 500 E at 75 m N and line 600 E at 50m E.

## V - CONCLUSIONS & RECOMMENDATIONS:

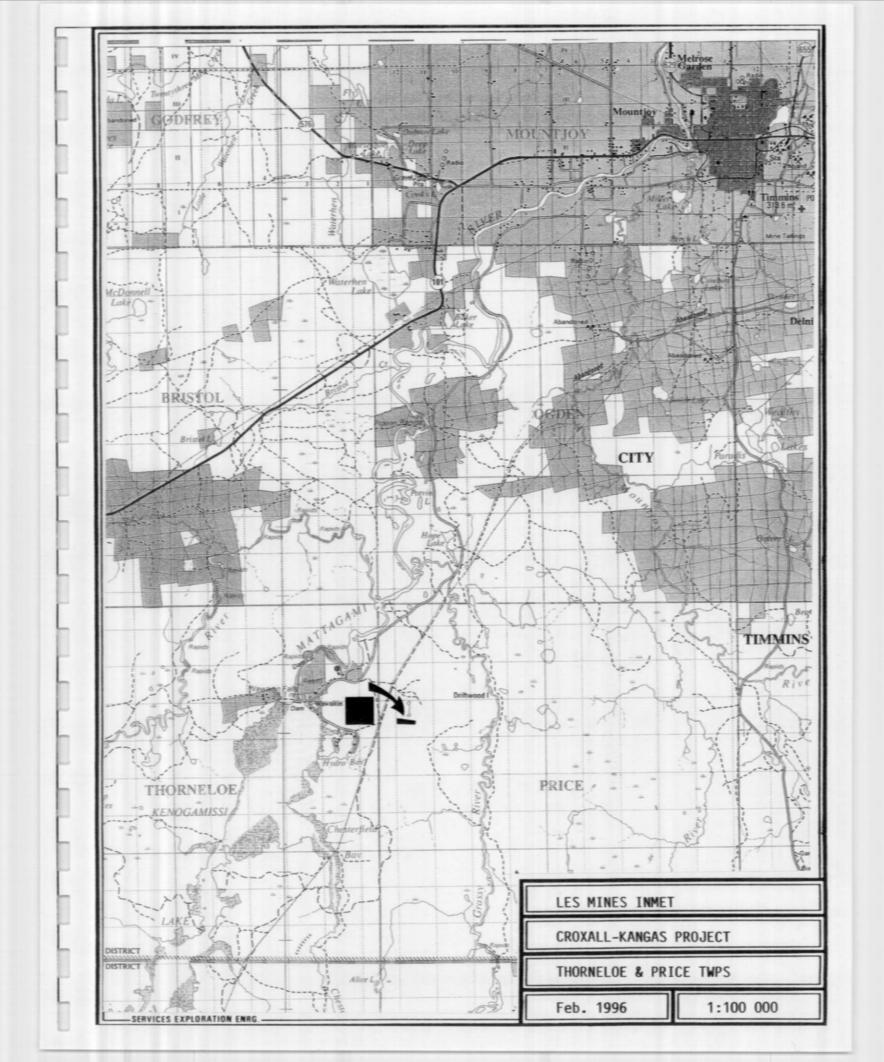
The <u>magnetometer</u> survey has outlined an east-west trending stratigraphy on claim 1177832 - this feature is mainly defined by the presence of a mafic sill.

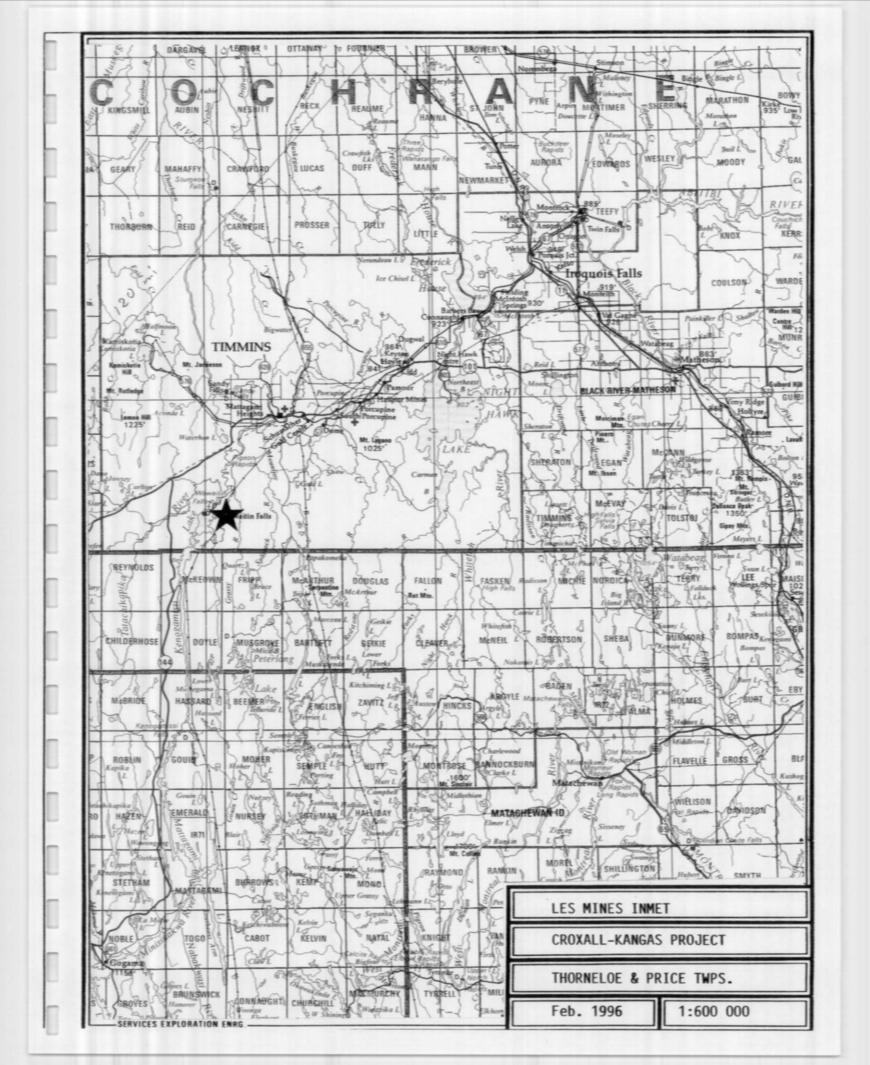
The V. L. F. electromagnetic survey has outlined a short conductor on claim 1160199.

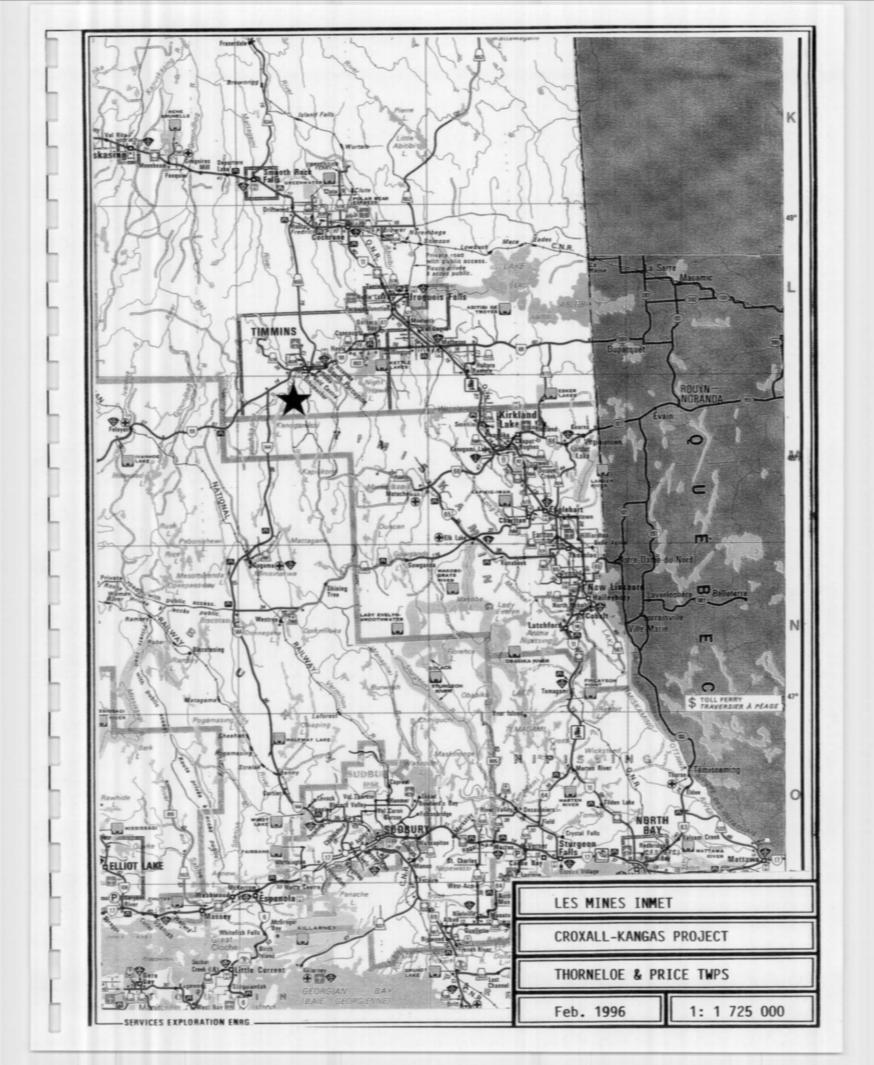
The obtained information of these surveys should be evaluated with the data presently available on the adjoining claims.

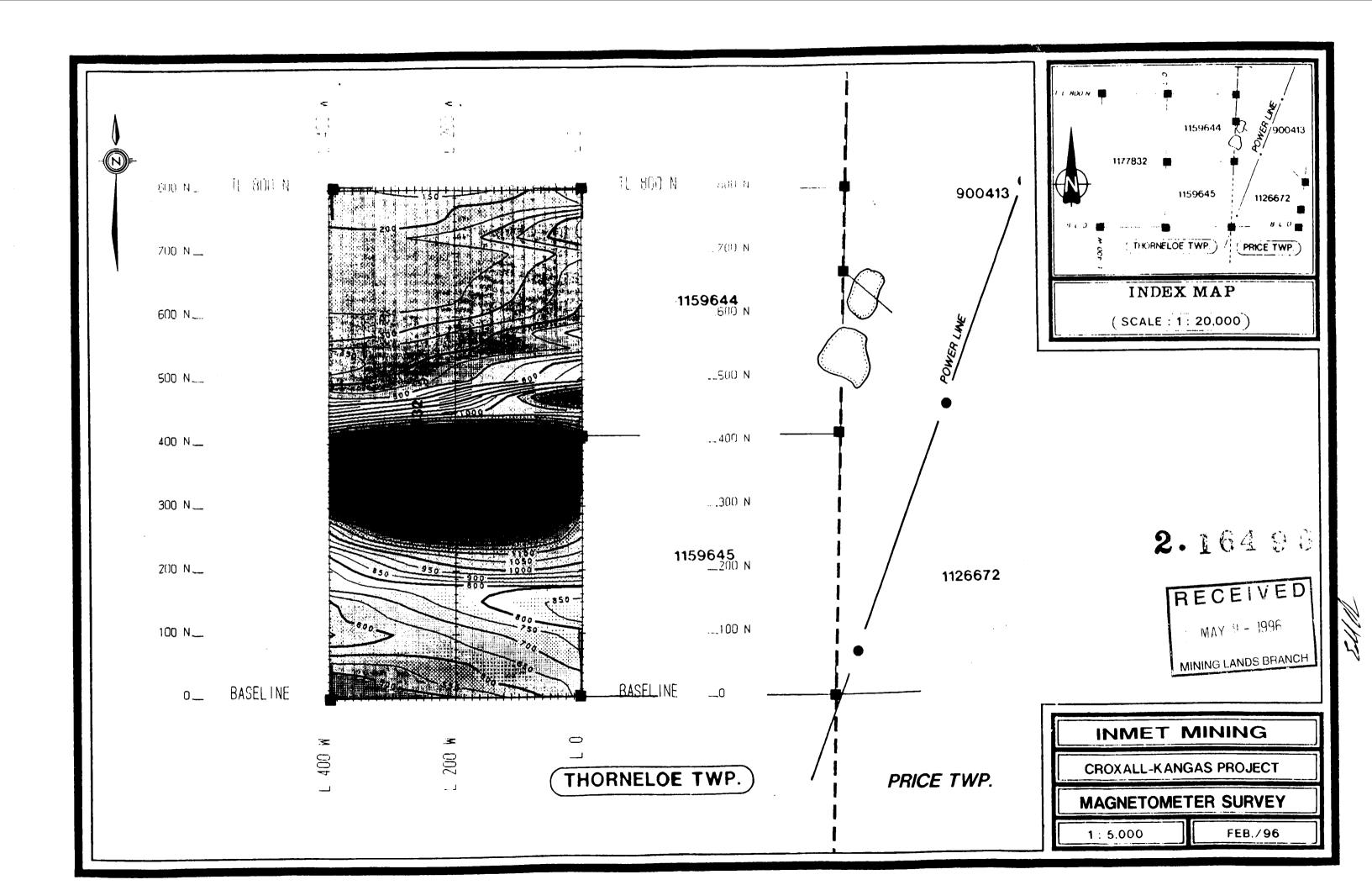
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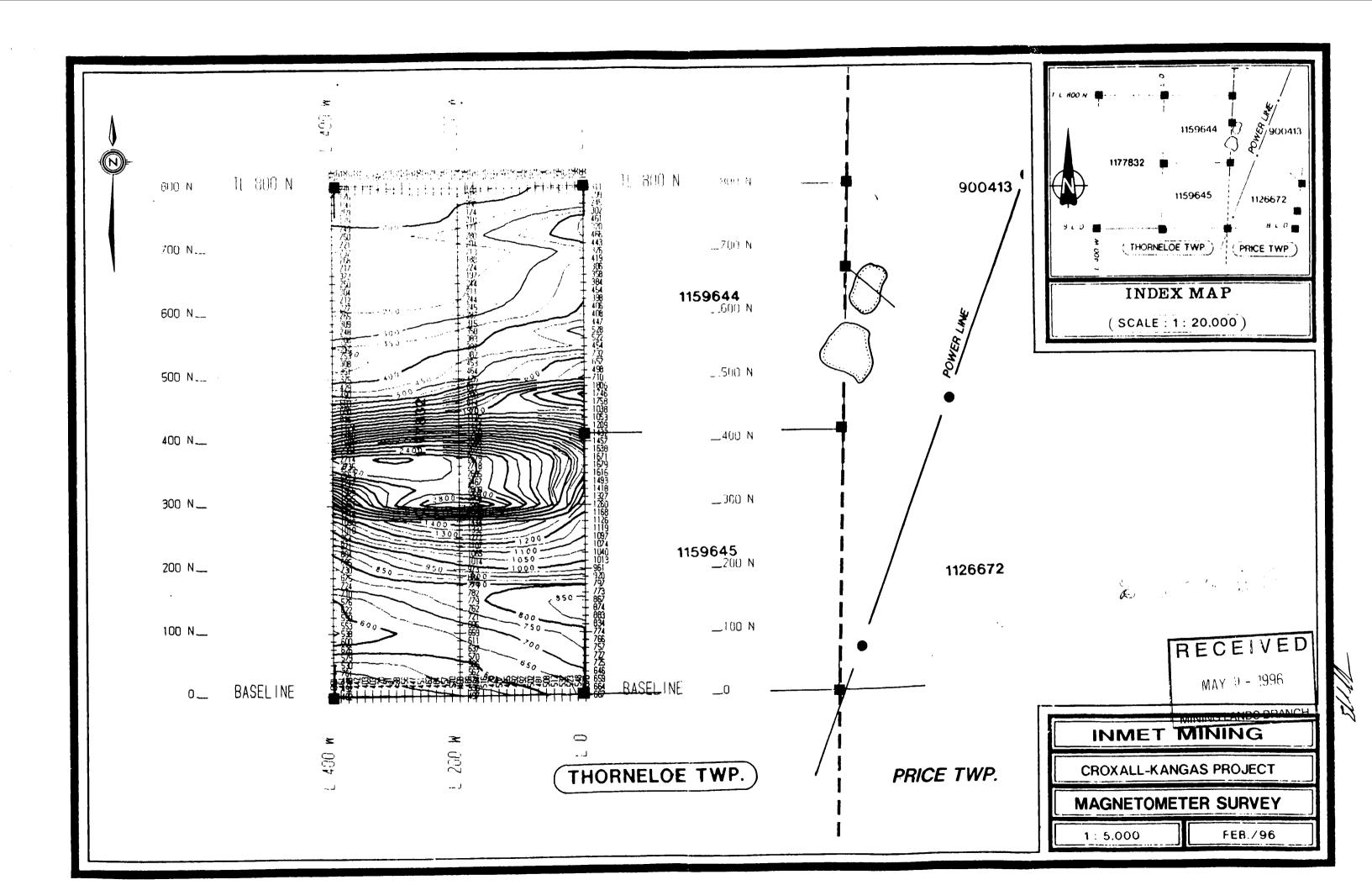
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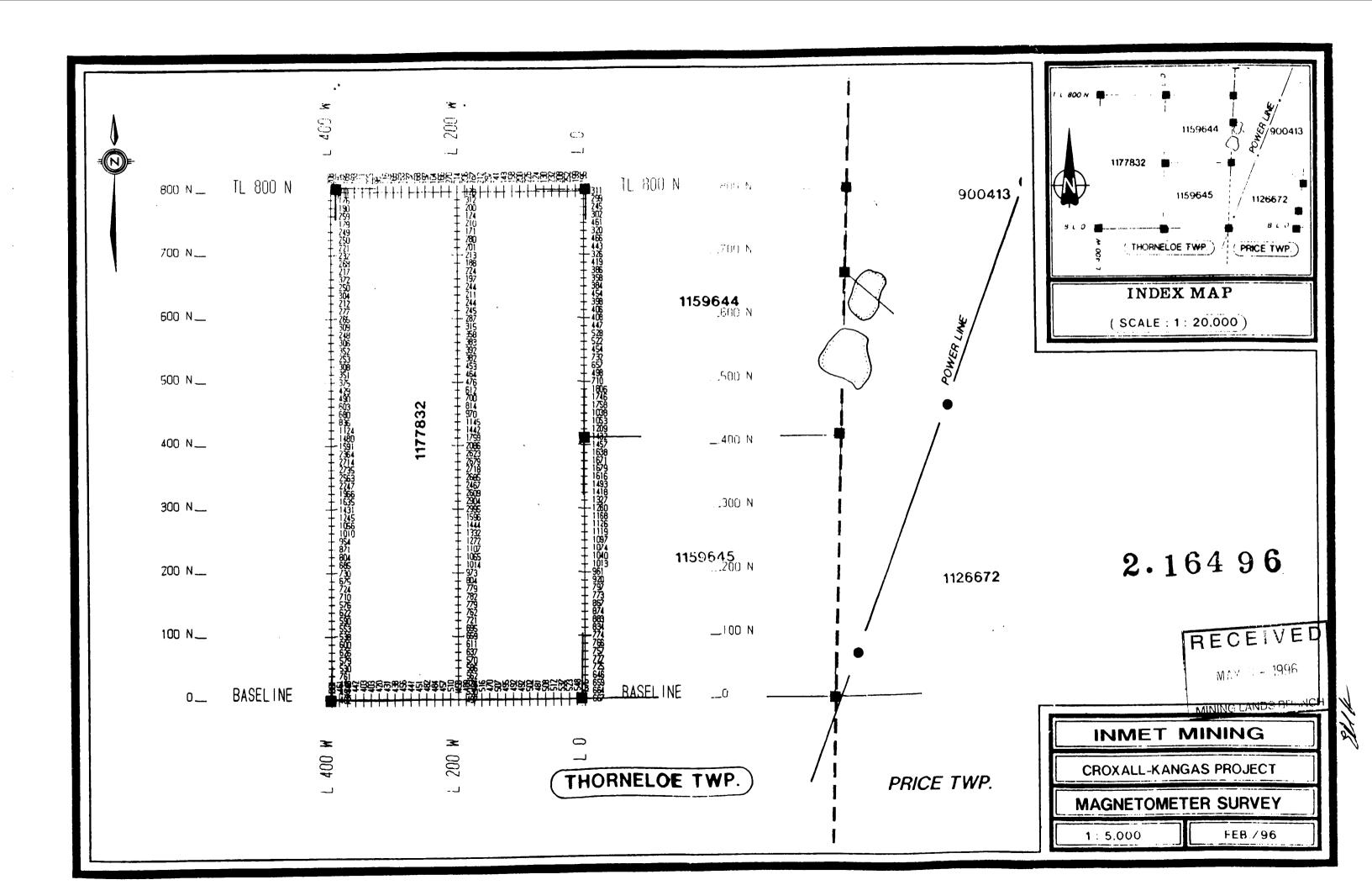


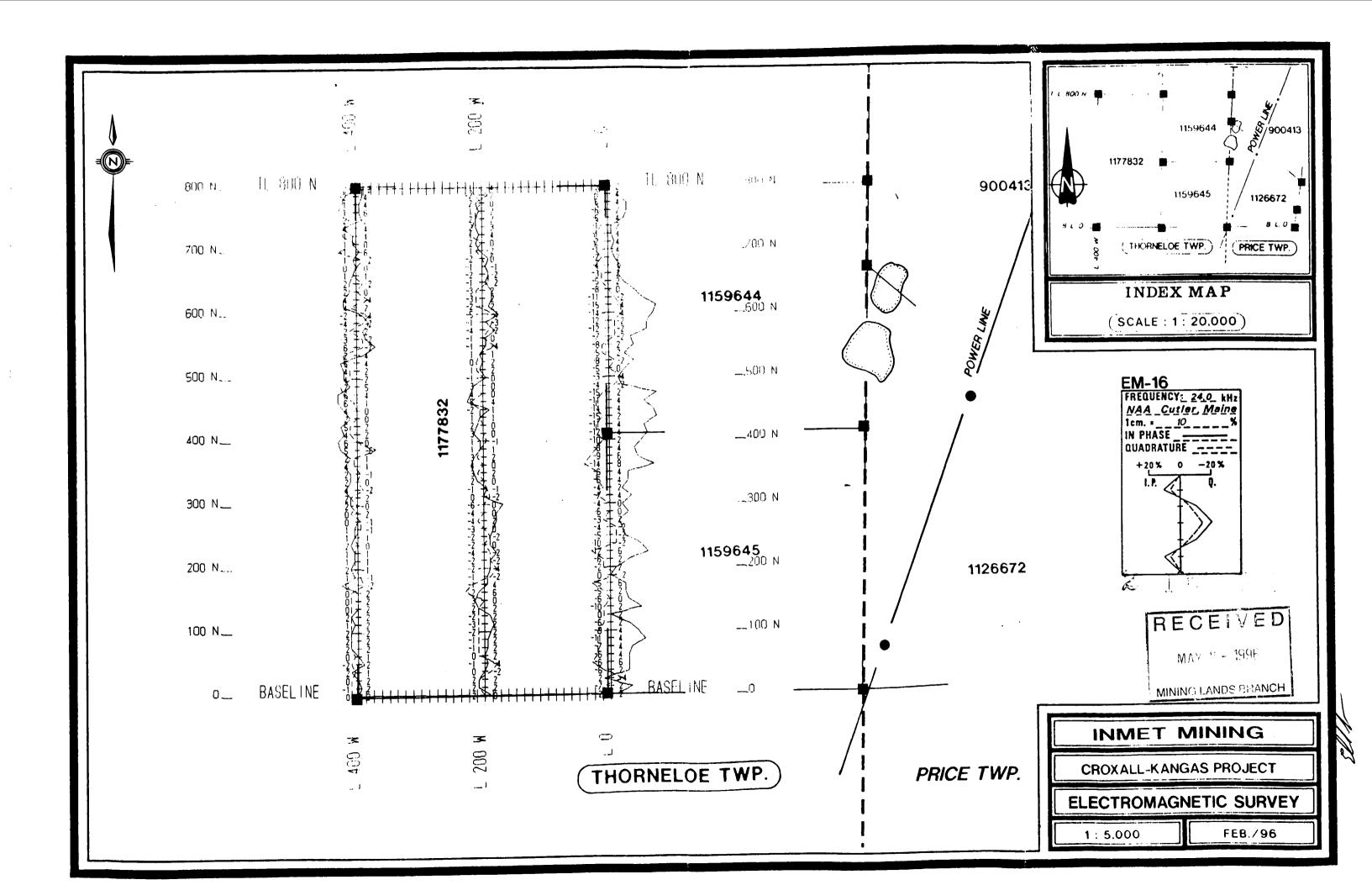


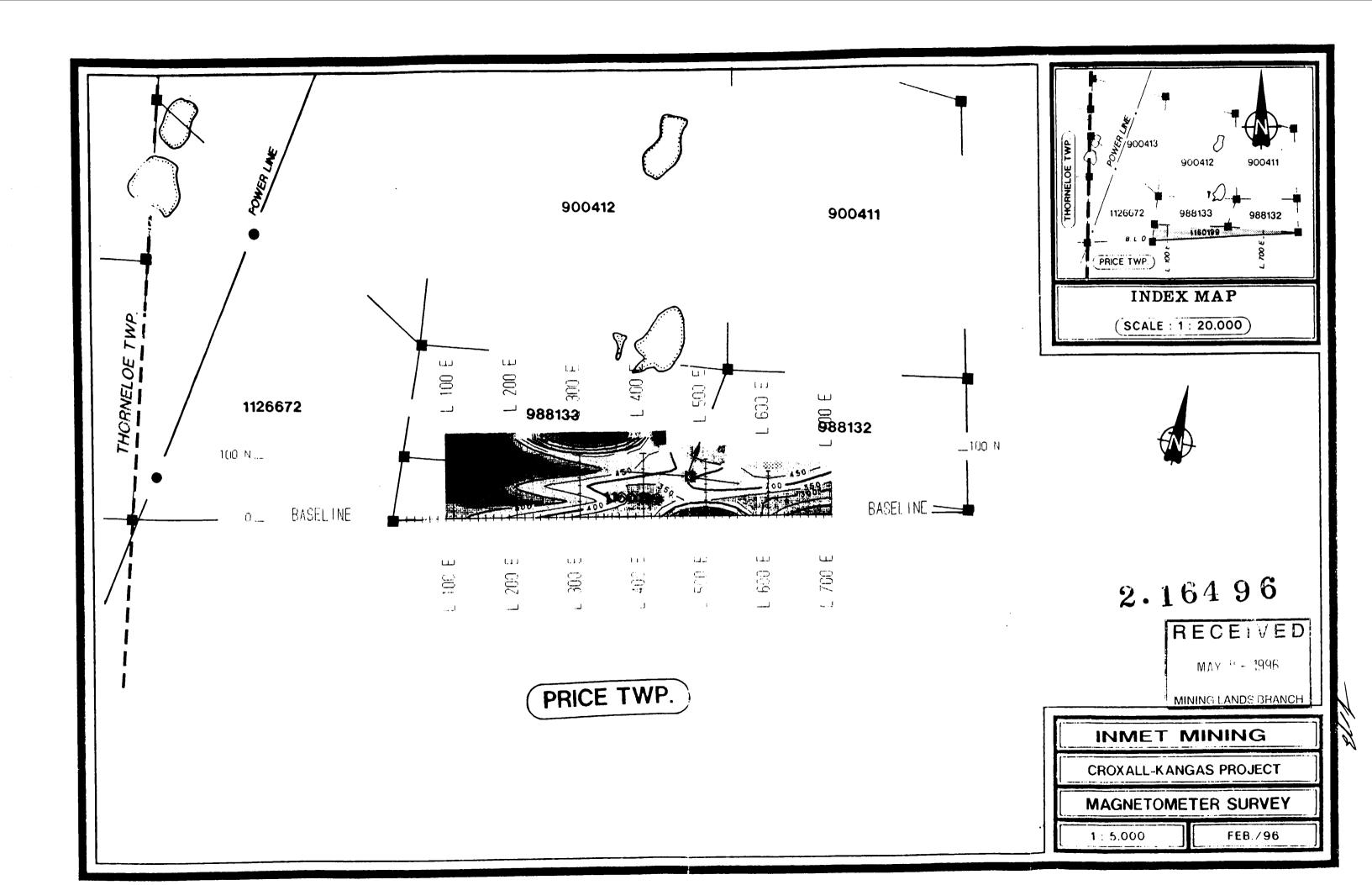


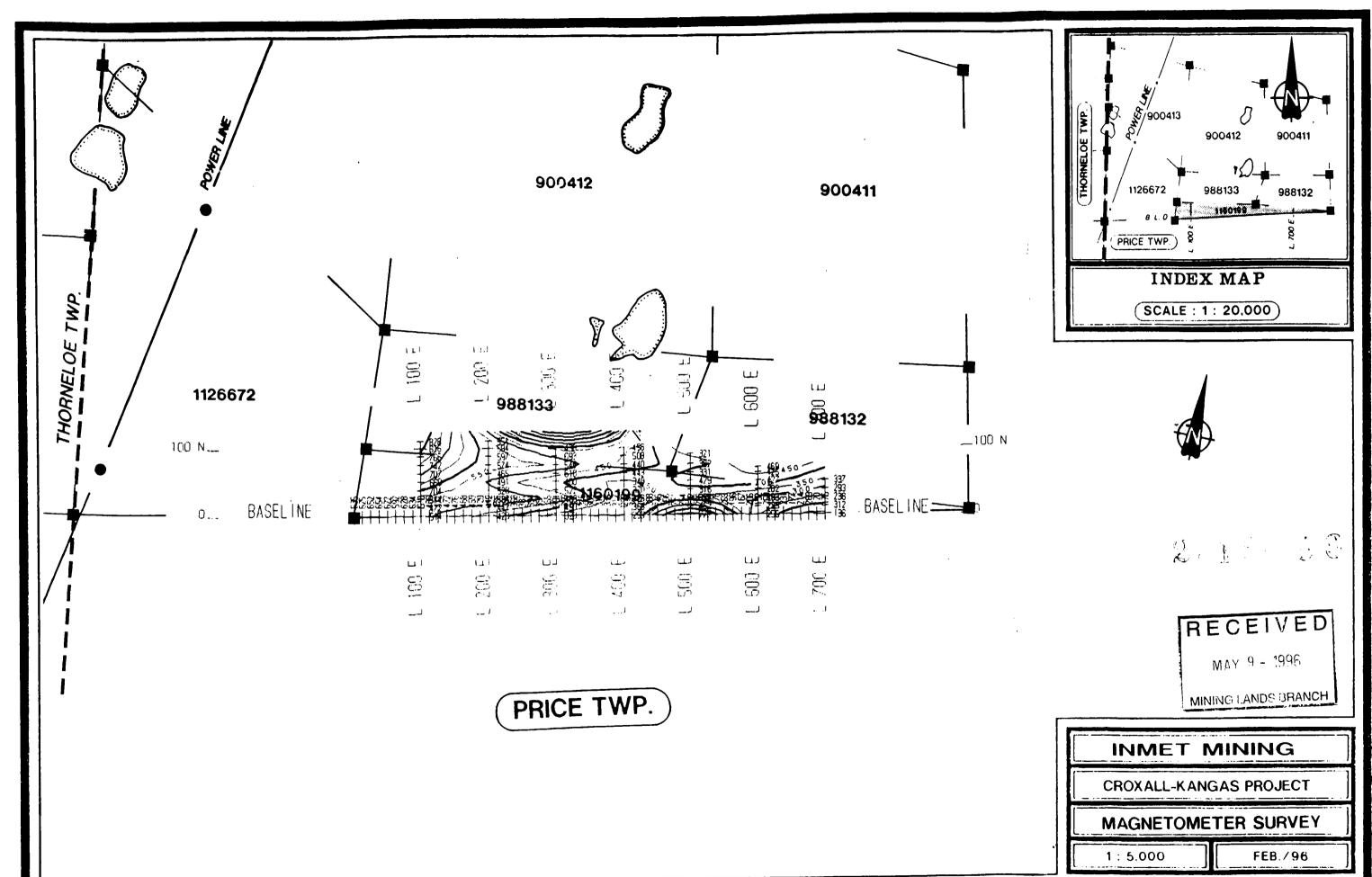




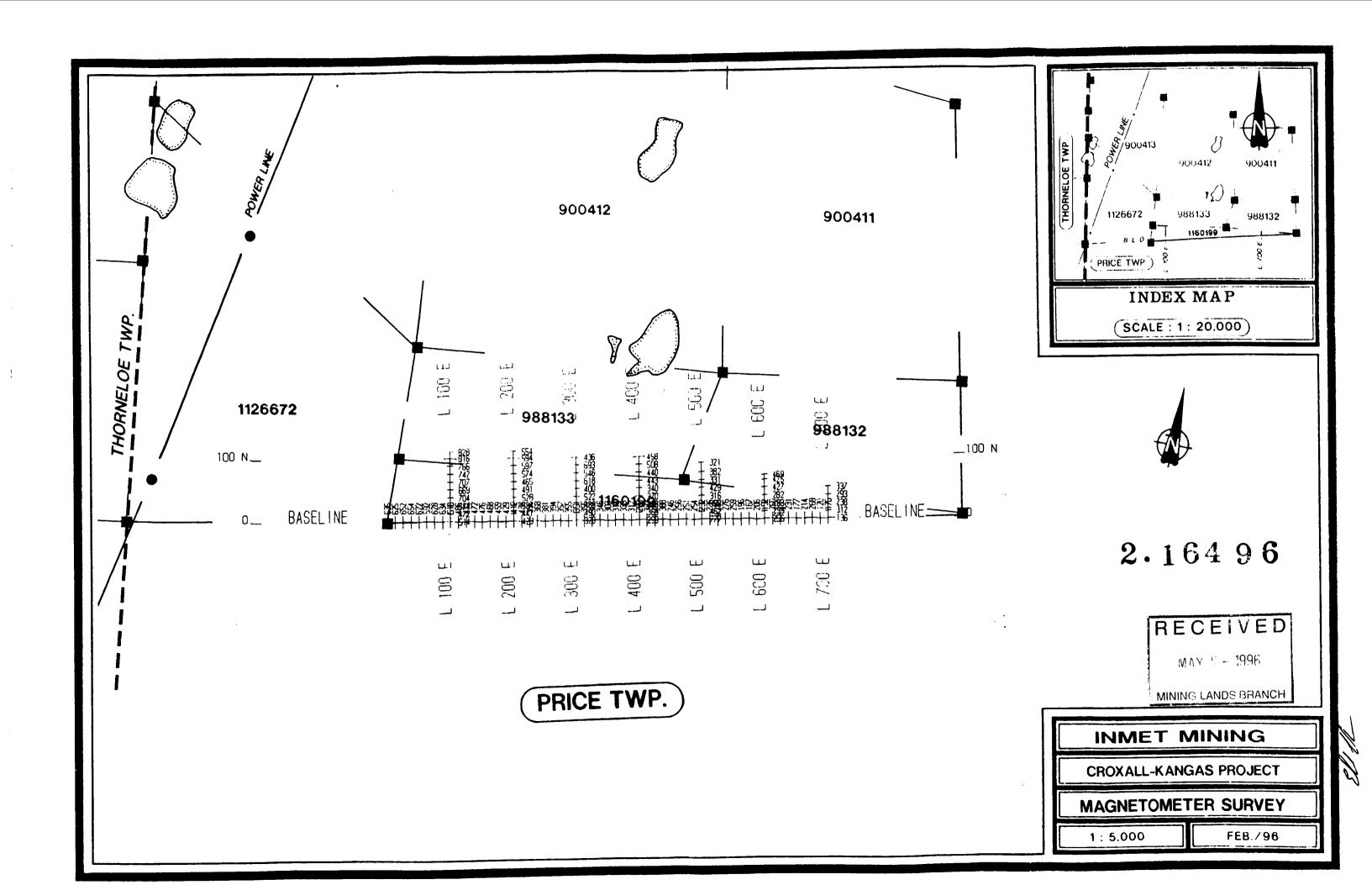


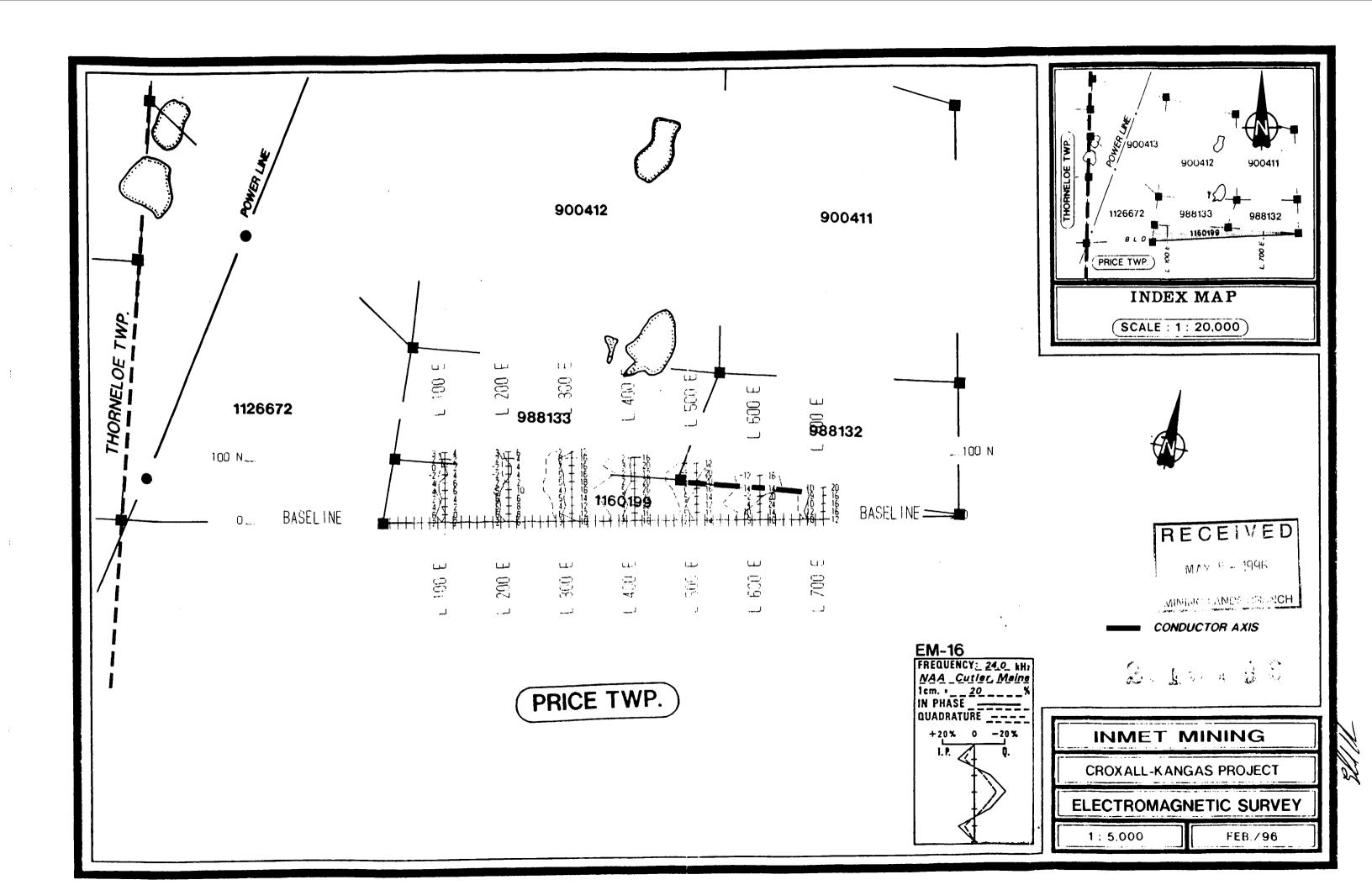






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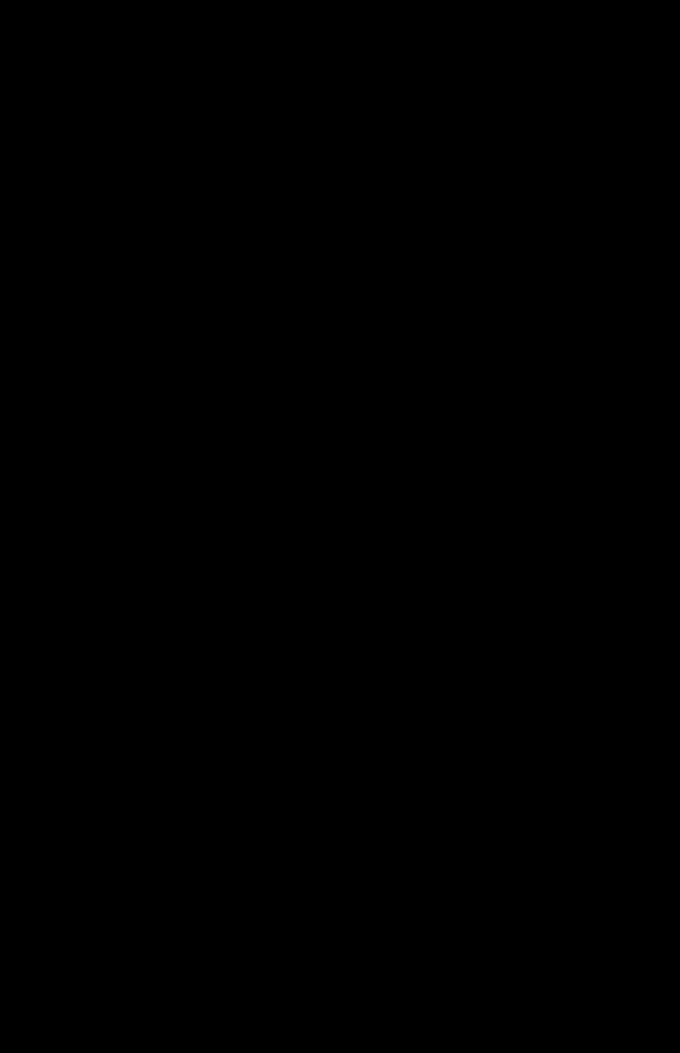


2.16496

# MODEL G-816/826 PORTABLE PROTON MAGNETOMETER

MAY - 1996

MINING LANDS BRANCH



### 1.0 GENERAL INFORMATION

### 1.1 INTRODUCTION

The Model G-816/826 Portable Proton Magnetometer is a complete system designed for man-carry field applications requiring simple operation and stable measurements of the total intensity of the earth's magnetic field. The G-816/826 is accurate and has a sensitivity of  $\pm$  1 gamma over a range from 20,000 to 90,000 gammas. Since the instrument measures total field intensity, the accuracy of each measurement is not affected by sensor orientation. The inherent simplicity of the G-816/826 Proton Magnetometer allows rapid, accurate measurements to be obtained from a rugged, compact field instrument. This is a precision instrument and reasonable attention must be given to handling, battery condition, and magnetic environment.

### 1.2 MAGNETIC ENVIRONMENT

It is important that the earth's magnetic field is not perturbed by allowing unwanted magnetic objects to come close to the sensor. Such objects include rings, keys, watches, belt buckles, pocket knives, metal pencils, zippers, etc. When the sensor is used on the staff, one gamma surveys are easily performed provided the sensor is kept at a distance of three feet (.9 m) from the operator. When the sensor is used in the backpack, certain articles of clothing and some types of batteries within the console will cause a five to ten gamma heading error in the readings. The G-816/826, however, still provides one gamma sensitivity and repeatability despite the presence of such a base line shift. The backpack feature is recommended for use in difficult terrain where "hands free" operation is required.

Prior to survey use, objects that are suspected to be magnetic may be checked in the following manner:

- 1. Attach sensor to staff and connect coiled signal cable to console. Sensor should not be moved or turned during the test, and the suspected article should be far away initially.
- 2. Cycle the magnetometer a few times by depressing the READ button-releasing--and waiting for a reading each cycle.
- 3. Observe measurement readings. Each reading should repeat to + 1 gamma. (A slow shift may occur over several minutes due to a diurnal change in the earth's field.)
- 4. Place the suspected article at the distance from the sensor expected during actual survey operation.
- 5. Cycle magnetometer several times and note the readings.

### 1.3 SPECIFICATIONS

+ l gamma throughout range. Sensitivity:

20,000 to 90,000 gammas (worldwide). Range:

Multiposition switch with signal ampli-Tuning: tude indicator light on display.

Exceeds 800 gammas/feet. Gradient Tolerance:

Manual push button, one reading each Sampling Rate:

six seconds.

Five digit numeric display with readout Output:

directly in gammas.

Twelve 1.5 volt "D" cell universally Power Requirements:

available flashlight-type batteries. Charge state or replacement signified by flashing indicator light on display.

Console and sensor: -40° to +85° C. Temperature Range:

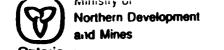
> Battery pack: 0° to +50° C (limited use to -15° C; lower tempera-

ture battery belt opera-

tion - optional).

+ 1 gamma through 0° to +50° C tempera-Accurary (Total Field):

ture range.



# Heport of Work Conducted **After Recording Claim**

W9660.0018Z

## Mining Act

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264. 2.154 96

- Instructions: Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for



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Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the national	Signature	Data



Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (705) 670-5853 Fax: (705) 670-5863

May 24, 1996

Our File: 2.16496

Transaction #: W9660.00182

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

Dear Mr. White:

SUBJECT: APPROVAL OF ASSESSMENT WORK CREDIT ON MINING LAND, CLAIM(8) 1160194 (ET AL.) IN PRICE, THORNELOE TOWNSHIP (AREA)

Assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission. The credit has been approved under Section 14, Geophysics (MAG, VLF) of the Assessment Work Regulation.

The approval date is May 23, 1996. Please indicate this approval on the claim record.

If you have any questions regarding this correspondence, please contact Bruce Gates at (705) 670-5856.

Yours sincerely, ORIGINAL SIGNED BY:

Zoncoahal.

Ron C. Gashinski Senior Manager, Mining Lands Section Mines and Minerals Division

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> BIG/jl Enclosure:

> cc: Resident Geologist Timmins, Ontario

Assessment Files Library Sudbury, Ontario

