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REPORT ON VLF AND MAGNETOMETER SURVEYS;  
CRIPPLE CREEK AREA OF DENTON TOWNSHIP;  
PORCUPINE MINING DIVISION;  
TIMMINS, ONTARIO

on behalf of

**RECEIVED**

BROWN MCDADE MINES LTD.

APR 2 2 1981

MINING LANDS SECTION

by

J-Dex Mining And Exploration Ltd.

Donald O. Baker

David B. Rogers

April 2, 1981

SUMMARY

1.

A) A grid over the entire claim group was prepared over which the surveys were conducted.

B)&C) A vlf and magnetometer survey was completed over the grid and the results compiled and plotted.

D) The initial recommendations are to conduct follow-up surveys in the immediate areas of the anomalies shown, based on a more detailed grid. A minimum of four hundred to five hundred feet (400'-500') of diamond drilling will then follow, along with de-watering an existing shaft that is located on one of the anomalies.

2.

## INTRODUCTION

The survey area is located in the Cripple Creek area of Denton Township, west of Timmins, Ontario, in the Porcupine Mining Division. The eleven claims are held by Brown Mcdade Mines Ltd., 112 Adelaide St. E., Toronto, Ontario, and consist of the following claims: P554597 through P554603; P539619; P539622; P567640 and P567641.

The claim group is easily reached by Highway 101 west from Timmins, with claims on both sides of the highway. There are several logging roads over a large part of the area surveyed. The general geology and topography of the area has already been reported.

It should be noted that there is a high tension power line across the south side of the claim group which has to be taken into account when interpreting the readings made near the lines. Also, based upon information supplied by the Earth Physics Branch, Division Of Geomagnetism, Ottawa, on the last two days of the survey, the geomagnetic field was considered "active", which would have some effect on the magnetometer

The survey began on November 11, 1980 and was completed on November 14, 1980.

3.

METHOD AND INSTRUMENTATION

A) GRID- A base line was constructed running east and west, with the survey lines running north and south. The base line was designated as line 100N, with another short base line, due to the configuration of the claim group, designated line 90N. The lines were compassed, brushed-out and chained with a peg placed every 100 feet and marked. Therefore, the stations for the readings were 100feet and the interline spacing was 400 feet.

B) VLF- A Phoenix VLF II was used with readings made every 100 feet unless a dramatic change was being indicated, at which point 25 or 50 foot readings were made between the stations. The completed profile of the readings taken is marked EXHIBIT 1.

C) MAGNETOMETER- A SCIENRIX MF-2 MAGNETOMETER was used with readings also made every 100 feet or closer where indicated. The completed profile of the readings taken is marked EXHIBIT 2.

D) STATIONS USED-

VLF-Cutler, Main  
Magnetometer-background was 500 gammas

4.

PRESENTATION OF RESULTS

As indicated, the compilation of the vlf and magnetometer surveys are attached and marked EXHIBITS 1 and 2. As can be seen from reviewing these profiles, the surveys are coincident and resulted in the detection of several zones of interest that are anomalous.

The main zone of interest (and the one to be concentrated on at first) is a zone that appears to extend across the complete claim group, in a general northeast-southwest direction, south of Cripple Creek and following generally the strike of the creek.

5.

CONCLUSIONS AND RECOMMENDATIONS

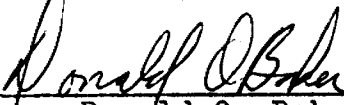
The vlf and magnetometer surveys resulted in delineating several zones of interest, the main one being the zone extending across the claim group, near to and south of Cripple Creek. It is on this zone, at different points, that high grade grab and chip samples have been taken, and also a pit is located.

For the above reasons, it is recommended that additional vlf and magnetometer surveys be conducted in the anomalous areas, starting with the existing lines as a base and then completing much smaller grids. During this time, the shaft located on claim P554599 will be de-watered and cleaned out. Some additional trenching and assaying will also be carried out.

With the additional surveys, diamond drill holes will be collard and, initially, an additional 400 to 500 feet of drilling will be completed, with relevant assays. As soon as weather permits, the work will begin and should be completed in approximately 6 to 8 weeks.

Respectfully submitted;

J-Dex Mining & Exploration Ltd.

  
\_\_\_\_\_  
Donald O. Baker

  
\_\_\_\_\_  
David B. Rogers



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APR 22 1981

**TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS AND RECOMMENDATIONS** MINING LANDS SECTION

Type of Survey(s) Geophysical  
Township or Area Denton Township  
Claim Holder(s) Brown McDade Mines Ltd.  
289 Kirby Ave., Timmins, Ontario  
Survey Company J-Dex Mining & Exploration Ltd.  
Author of Report Donald O. Baker & David B. Rogers  
Address of Author 17 Birch St. E.; Chapleau, Ontario  
Covering Dates of Survey Nov. 11, 1980 to April 3, 1981  
(linecutting to office)  
Total Miles of Line Cut 9.43 miles

**MINING CLAIMS TRAVERSED**  
List numerically

P	554597	✓
(prefix)	(number)	
P	554598	✓
P	554599	✓
P	554600	✓
P	554601	✓
P	554602	✓
P	554603	✓
P	539619	✓
P	539622	✓
P	567640	✓
P	567641	✓

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
Geophysical	
-Electromagnetic	
-Magnetometer	<u>40</u>
-Radiometric	
-Other <u>VLF</u>	<u>20</u>
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: APRIL 3, 1981 SIGNATURE: Tenn Bird  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications This file X

Previous Surveys

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

TOTAL CLAIMS 11

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 457 Number of Readings 530
Station interval 100 feet (some closer) Line spacing 400 feet
Profile scale 1/2 in.=100 feet
Contour interval

MAGNETIC

Instrument Scientrix MF-2 Magnetometer
Accuracy - Scale constant 10 gammas
Diurnal correction method Appropriate corrections were made by checking back at regular intervals to established base station.
Base Station check-in interval (hours) on the average, every 1 1/2 hours
Base Station location and value L164E/100N-+480; L160E/100N-+520; L156E/100N-+420; L152E/100N-+440; L148E/100N-+520; L144E/100N-+420; L140E/100N-+450; L136E/100N-+440; L132E/100N-+500; L128E/100N-+540; L124E/100N-+540; L120E/100N-+500; L116E/100N-+260; L112E/100N-+420; L108E/100N-+220; L104E/100N-+320; L100E/100N-+380.

ELECTROMAGNETIC

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

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

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



**SELF POTENTIAL**

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

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

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

**RADIOMETRIC**

Instrument \_\_\_\_\_

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

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

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

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

Overburden \_\_\_\_\_  
(type, depth - include outcrop map)

**OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)**

Type of survey VLF

Instrument Phoenix VLF II

Accuracy Resolution +/- 1%; Sensitivity-In-phase +/- 150%, Out-of phase +/- 140%

Parameters measured Dip angle profiles

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

**AIRBORNE SURVEYS**

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

Instrument(s) \_\_\_\_\_  
(specify for each type of survey)

Accuracy \_\_\_\_\_  
(specify for each type of survey)

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

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

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

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

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

GEOCHEMICAL SURVEY – PROCEDURE RECORD

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

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

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

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

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

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

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

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

Terrain \_\_\_\_\_

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

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

**SAMPLE PREPARATION**  
(Includes drying, screening, crushing, ashing)

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

General \_\_\_\_\_

\_\_\_\_\_  
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**ANALYTICAL METHODS**

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

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

Others \_\_\_\_\_

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

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

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

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

Field Laboratory Analysis

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

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

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

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

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

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

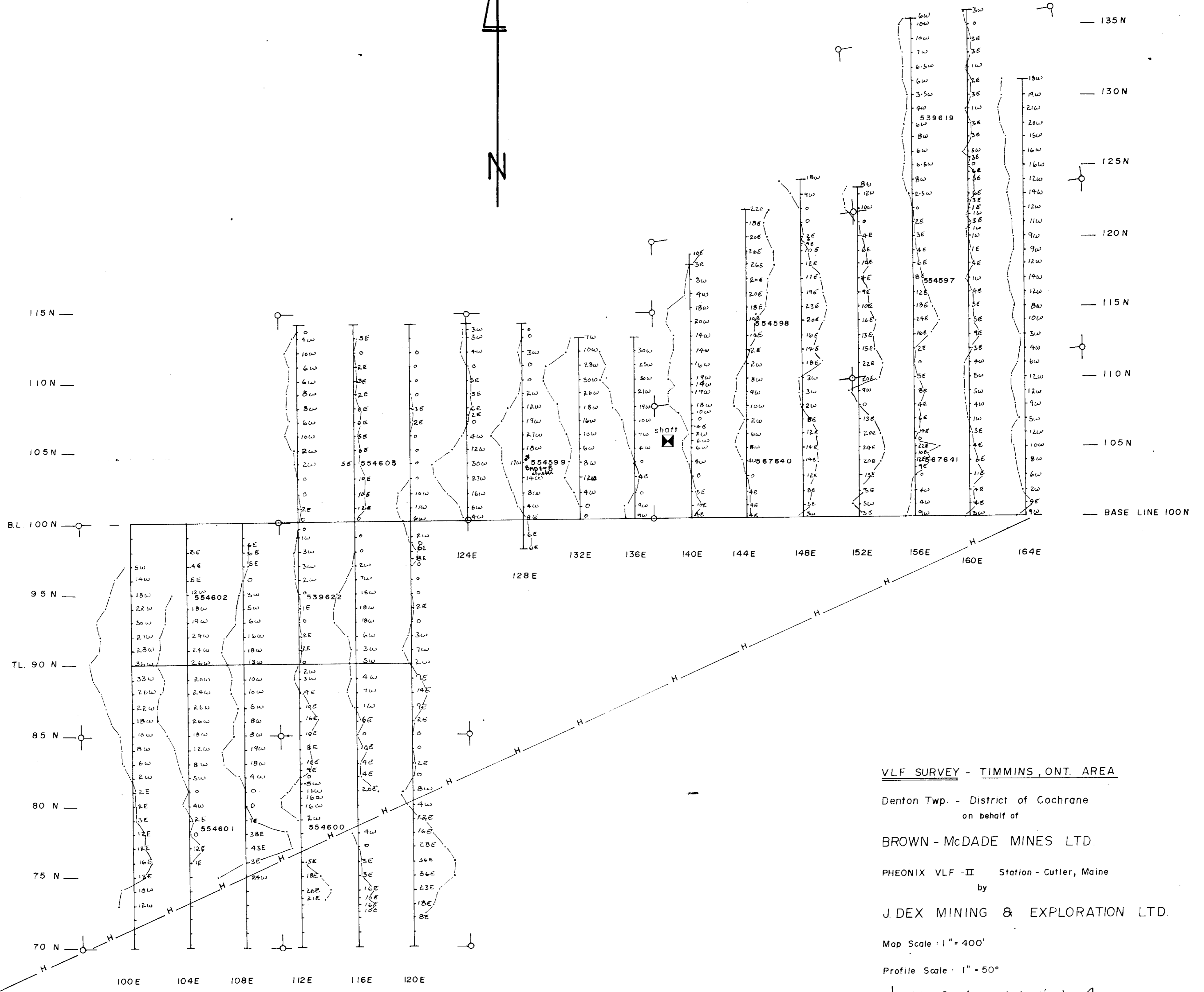
Extraction Method \_\_\_\_\_

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

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

General \_\_\_\_\_

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VLF SURVEY - TIMMINS, ONT. AREA

Denton Twp. - District of Cochrane  
on behalf of

BROWN - McDADE MINES LTD.

PHEONIX VLF - II Station - Cutler, Maine  
by

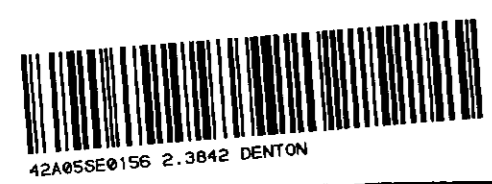
J. DEX MINING & EXPLORATION LTD.

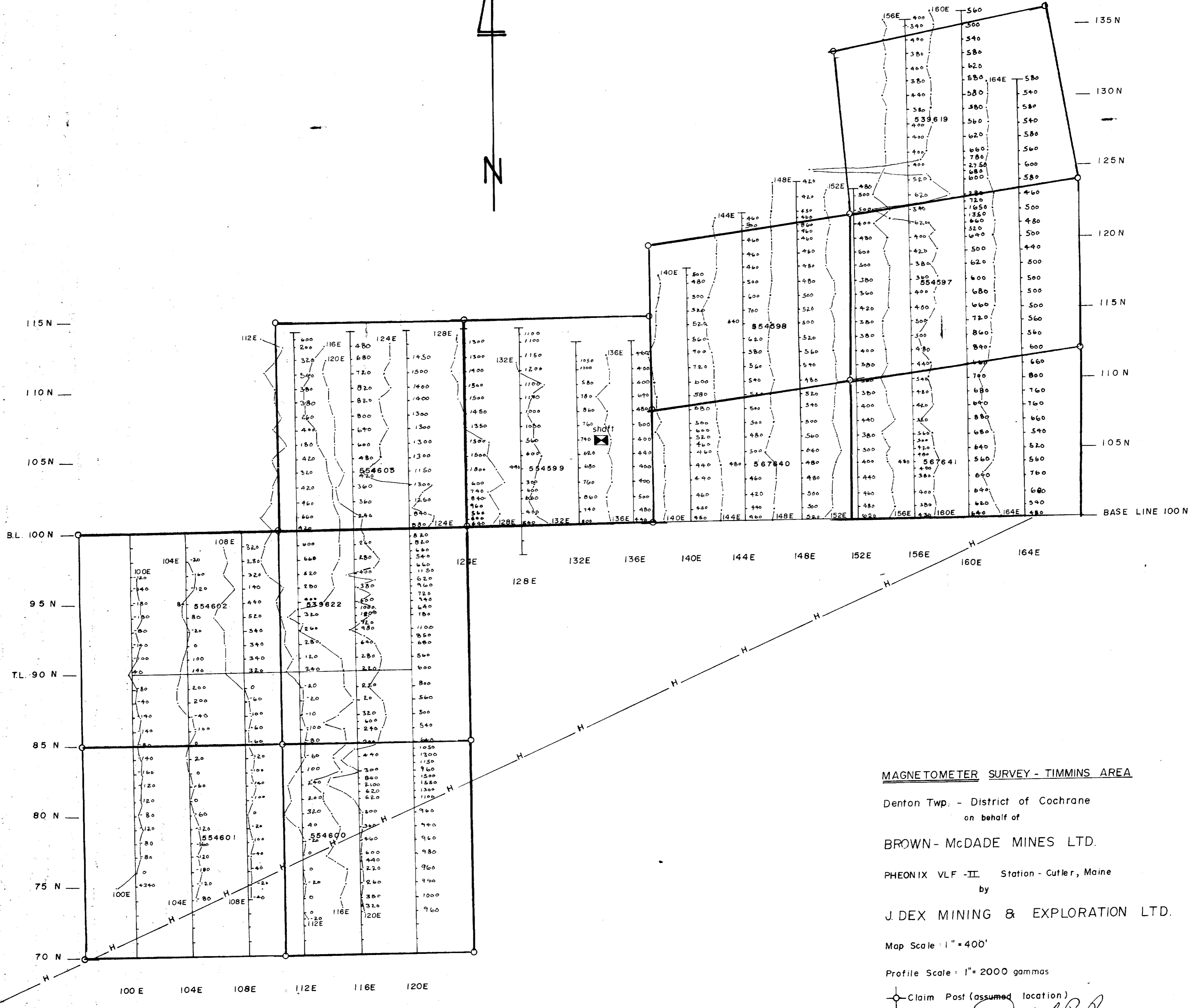
Map Scale : 1" = 400'

Profile Scale : 1" = 50'

⊗ Claim Post (assumed location)

*D. B. Rogers*

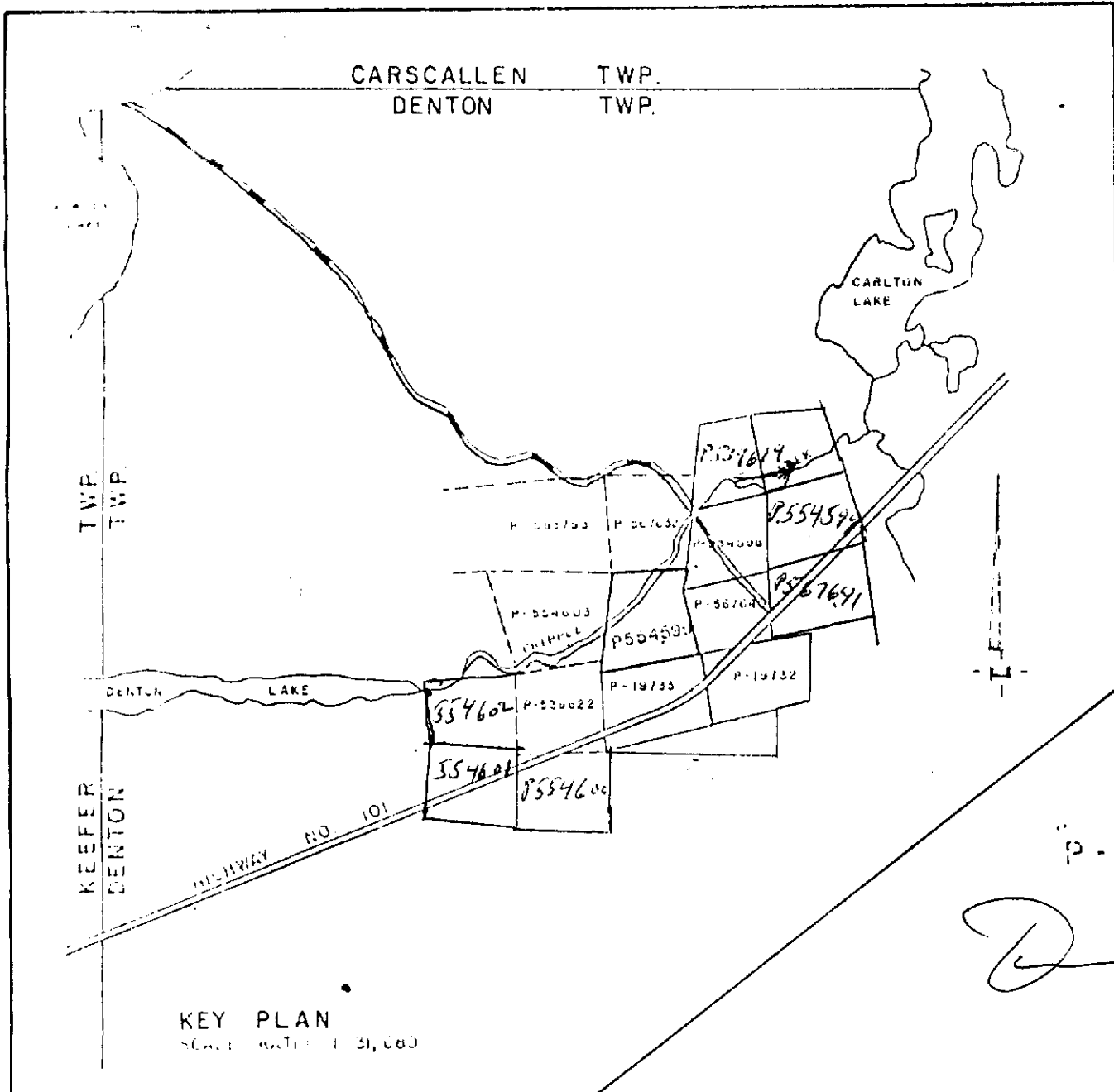




MAGNETOMETER SURVEY - TIMMINS AREA  
Denton Twp. - District of Cochrane  
on behalf of  
BROWN-McDADE MINES LTD.  
PHEONIX VLF -II Station - Cutler, Maine  
by  
J. DEX MINING & EXPLORATION LTD.  
Map Scale: 1" = 400'  
Profile Scale: 1" = 2000 gammas  
Claim Post (assumed location)

*W. B. Rogers*





KEY PLAN  
 SCALE: 1" = 31,000'

*D. H. Rogers*

P-554603

