VERTICAL MAGNETIC INTENSITY SURVEY

on

Thirty-six Claims in Ford and Laidlaw Twps.
Porcupine Mining District
by
Tri-J Mineral Surveys Ltd.

INTRODUCTION

A vertical magnetic intensity survey began on December 9, 1964, and was completed on July 23, 1965, on thirty-six claims in Ford and Laidlaw Townships in the Porcupine Mining District.

This survey was performed by Tri-J Mineral Surveys Ltd., Box 820, South Porcupine, under the supervision of A. L. Farres, P.Eng., Box 820, South Porcupine, Ontario.

LOCATION AND ACCESSIBILITY

Twenty of these claims are located in the southwest corner of Laidlaw Township and are numbered: P73776, P73777, P73778, P73782, P73783, P73784, P73786, P73787, P73788, P73789, P73790, P73795, P73796, P73797, P73798, P73799, P73800, P73801, P73802, P73803.

The other sixteen claims are located in the southeast corner of Ford Township and are numbered: P66135, P66136, P66139, P66140, P66143, P66144, P66148, P66149, P66153, P66154, P66164, P66165, P66168, P66169, P75779, P75787.

The claims can be reached by travelling from Smooth Rock Falls, west along Highway 11 for four miles, then turning south on the Red Pine Lake road and travelling for

LOCATION AND ACCESSIBILITY (cont'd)

23 miles. Then go due west, through the bush, for 2 miles. At this point is located the Number 2 Post of Claim P73789.

NAME AND ADDRESS OF OWNER

The claims are owned by A. L. Parres, Box 820, South Porcupine, Ont., and are under option to Guggenheim Exploration Co. Inc., 120 Broadway, New York City, N.Y., U.S.A.

GEOLOGICAL DATA

The claims are underlain by precambrian formations and the topography is extremely flat.

The area is covered mainly with drift and muskeg. The brown rock types which occur in the area are interbedded rhyolites, andesites, with garnetiferous amphibolites and garnetiferous greywackes.

It is probable from a study of the magnetic maps of the area that some basic or ultra basic intrusives are present.

RESULTS OBTAINED AND CONCLUSIONS

Five anomalous conditions are indicated on the accompanying map. The anomalies on Claims P73788, P73789, P73777, P73776, P73784, P73783, P73799 and P73800 are indicative of a banded magnetite-quartz formation in this area and usually carry minor amounts of pyrite, pyrrhotite and chalcopyrite.

RESULTS OBTAINED AND CONCLUSIONS (cont'd)

It is recommended that these anomalies be tested by diamond drilling in the zones where the magnetic intensity is greatest and are accompanied by electromagnetic conductors.

The anomalous conditions encountered on Claims P73790, P73797 and P73796 are probably caused by pyrrhotite and should be tested in the areas where there is coincidence with the electromagnetic conductors.

TYPE OF INSTRUMENT

The Sharpe A2 magnetometer unit was used with a scale constant sensitivity of twenty gammas per scale division. Traverses were made along section lines 200 and 300 feet apart and readings were taken every 100 feet.

NUMBER OF STATIONS

The total number of stations established was 771.

NUMBER OF MILES OF LINE CUT

The total number of miles of line cut was 58.0.

NAMES, ADDRESSES, TYPE OF WORK, ETC.

The following personnel were employed during the survey and in the preparation of the geophysical plans and reports - (list attached).

PROVINCE OF MANITOBA
A. L. PARR
REGISTERED ENGINEER

A. L. Parres, Eng.

020

HORIZONTAL ELECTROMAGNETIC SURVEY
on
Thirty-six Claims in Ford and Laidlaw Twps.
Porcupine Mining District
by
Tri-J Mineral Surveys Ltd.

INTRODUCTION

A horizontal electromagnetic survey began on December 9, 1964, and was completed on July 23, 1965, on 36 claims in Ford and Laidlaw Townships in the Porcupine Mining District.

This survey was performed by Tri-J Mineral Surveys Ltd., Box 820, South Porcupine, Ontario, under the supervision of A. L. Parres, P.Eng., Box 820, South Porcupine, Ontario.

LOCATION AND ACCESSIBILITY

Twenty of these claims are located in the southwest corner of Laidlaw Township and are numbered: P73776, P73777, P73778, P73782, P73783, P73784, P73786, P73787, P73788, P73789, P73790, P73795, P73796, P73797, P73798, P73799, P73800, P73801, P73802, P73803.

The other sixteen claims are located in the southeast corner of Ford Township and are numbered: P66135, P66136, P66139, P66140, P66143, P66144, P66148, P66149, P66153, P66154, P66164, P66165, P66168, P66169, P75779, P75787.

The claims can be reached by travelling from Smooth Rock Falls, west along Highway 11 for four miles, then turning south on the Red Pine Lake road and travelling for

23 miles. Then go due west through the bush for 2 miles. At this point is located the Number 2 Post of Claim P73789.

NAME AND ADDRESS OF OWNER

The claims are owned by A. L. Parres, Box 820, South Porcupine, Ontario, and are under option to Guggenheim Exploration Co. Inc., 120 Broadway, New York City, N.Y., U.S.A.

GEOLOGICAL DATA

The claims are underlain by precambrian formations and the topography is extremely flat.

The area is covered mainly with drift and muskeg. The brown rock types which occur in the area are interbedded rhyolites, andesites, with garnetiferous amphibolites and garnetiferous greywackes.

It is probable from a study of the magnetic maps of the area that some basic or ultra basic intrusives are present.

RESULTS OBTAINED AND CONCLUSIONS

Conductors with good to excellent conductivity are indicated on Claims P73789, P73778, P73787, P73776, P73784, P73783, P73799, P73800, P73790, P73797, P73796, and are indicative of sulphide and/or banded iron formation. It is recommended that four hundred foot diamond drill holes be drilled at the following locations: (1) 400'E - 220'S - bearing S.43°W. (2) 3300'E - 626'S -

RESULTS OBTAINED AND CONCLUSIONS (cont'd)

(2) cont'd - bearing south. (3) 1300'E - 1925'N - bearing south. (4) 1100'W - 175'N - bearing south.

TYPE OF INSTRUMENT

The Ronka Horizontal Loop Electromagnetic unit was used, with a frequency of 876 c.p.s. and coil spacing of 300 feet. Traverses were made along section lines 200 and 300 feet apart and readings were taken every 100 feet. Where an anomalous condition was noted, readings were taken every 50 feet.

NUMBER OF STATIONS

The total number of stations established was 1949.

NUMBER OF MILES OF LINE CUT

The total number of miles of line cut was 58.0.

NAMES, ADDRESSES, TYPE OF WORK, ETC.

The following personnel were employed during the survey and in the preparation of the geophysical plans and reports - (list attached).

A. L. Parres, P.Eng.

PROVINCE OF MANITOBA
A. L. PARRES
REGISTERED ENGINEER

LEWIS PARRES
GEOLOGIST

900

BOX 820
SOUTH PORCUPINE, ONTARIO
TELEPHONE: 235-3323

April 17, 1967.

	PLEASE ROUTE TO:
1	
2	
3	
4	

Mr. R.V. Scott,
Director,
Department of Mines,
Mining Lands Branch,
Parliament Buildings,
Toronto 2, Ontario.

Dear Sir:

Re: Claims P-66135 et al
Ford and Laidlaw Twps.

In answer to your letter dated April 12, 1967. The instrument used in this survey was a Ronka Mark II horizontal loop electromagnetic survey with a frequency of 876 c.p.s. (cycles per second). The parameters measured are the in-phase and out-of-phase components of the secondary field. Power output is 10 watts which is supplied by means of eight flashlight batteries.

One man carries the receiver coil and receiver compensator console with earphones. The other man wears the transmitter coil and transmits to the operator. The transmitter coil is connected to the receiver by a cable 300 feet long which to obtain valuable readings must be stretched taut in operation. The two men walk in single file along the picket line with the receiver coil in front and stop every hundred feet to record the reading.

The operator of the transmitter coil presses the switch and the other operator proceeds to take readings of both the in-phase and out-of-phase components of the secondary field. The location of the reading obtained is half the distance between the two coils which would be 150 feet. By this method, it is thought that the vertical depth of penetration can be up to 225 feet.

The principle of operation is that an electromagnetic field is set up between the coils which will induce currents in any conductor sufficently close to the equipment. These currents will give rise to a secondary field about the conducting body. By detecting the presence of this secondary field, you establish the presence of a conducting body.

Interpretation of data:

Readings taken over a conductive body show the same general curve for both the in-phase and out-of-phase components. However, the ratio between the two readings is a measure of the relative conductivity of the anomalous zone. The ratio of the in-phase response to the out-of-phase response is approximatley 2 to 1 which is indicative of a good conductor. On approaching a conductive zone both the in-phase and out-of-phase readings are positive, over the zone negative and once past the conductor back to positive.

Some of the conductive zones outlined in this survey were followed through by diamond drilling to determine the cause of the conductivity. Following is a brief description of the results obtained.

Hole No. 4 - The anomaly was attributed to pyrite and pyrrhotite mineralization both disseminated and narrow stringers.

Hole No. 5 - Conductivity same as hole No. 4. Also intersected magnetite which associated with sulphides indicates high anomalous conditions.

Hole No. 6 - Conductivity due to pyrrhotite both disseminated and in narrow bands.

Yours truly,

A.J. O'Donnell

AJO'D:cc

TRIM LINE

M-SSI3

FORD Twp.

Carmichael Twp.

Stringer Twp.

Laidlaw Twp.

Oke Twp.

THE TOWNSHIP OF

FORD

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	(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	M.C.
CANCELLED	

NOTES

400' Reserve around all lakes & rivers to Dept. of Lands & Forests.

DATE OF ISSUE
NOV 30 1966
ONTARIO DEPT. OF MINES

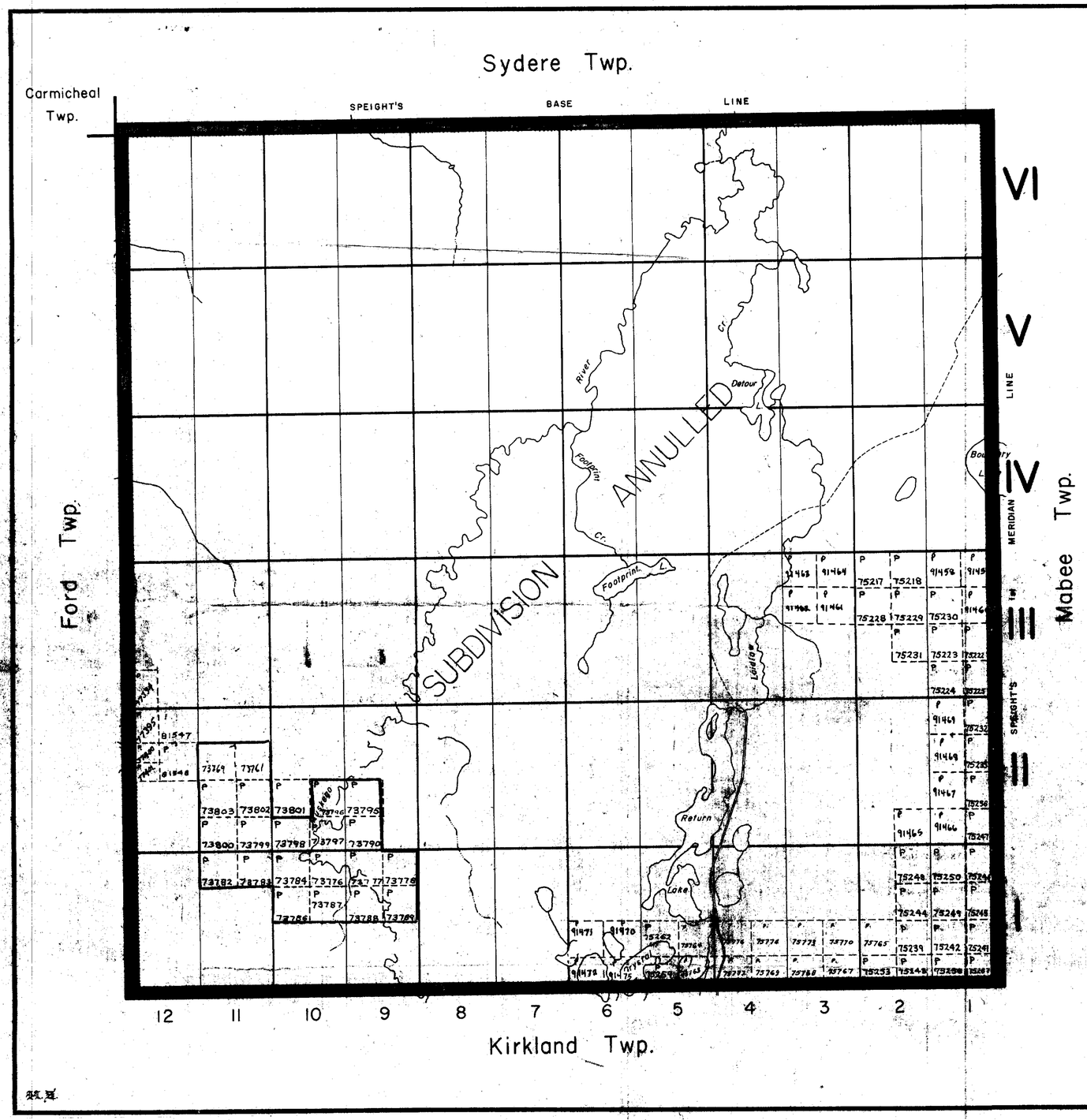
ONT. DEPT. OF MINES MINING LANDS BR.
THIS MAP FOR CHECKING PURPOSES ONLY – MUST NOT BE SOLD.

PLAN NO.- M-2213

DEPARTMENT OF MINES
-ONTARIO-

B.Ch.

TRIM LINE



THE TOWNSHIP OF

LAIDLAW

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	(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	

NOTES

400' Reserve around all Lakes & Rivers to Dept. of Lands & Forests.

Subdivision within boundaries shown thus: ▬ annulled under Subsection 1. Section 11. of Public Lands Act. File: 34878.

Mining claims to be accepted as in an unserveyed township, subject to surveys.

DATE OF ISSUE
NOV 30 1966
ONTARIO DEPT. OF MINES

ONT. DEPT. OF MINES
MINING LANDS BR.
THIS MAP FOR CHECKING PURPOSES ONLY — MUST NOT BE SOLD.

PLAN NO.- M.1967

DEPARTMENT OF MINES
— ONTARIO —

M.1967

LAIDLAW TWP.

210

TRIM LINE

P-73769

P-73761

P-75755

P-73803

P-73802

P-73801

20-N BASELINE

L-20-W

35 32 29 26 23

16 14 12 10 8 6 4 2-N

P-73796

26-N 24 22 18 16 14 12 10 8 6 4 2-N

L-13-E
Location-1950'N

473'S

P-73797

P-73798

P-73799

P-73800

P-75757

D.D.H. No 7

P-73784

P-73776

MUSKEGO

36 34 32 30 28 26 24 22 6 4 2-W 0 00 2-E 6 8 10 12

CAMP

Bearing S-43°W 507' at 50°

D.D.H. No.1

2-S 4 7 6 8 10 12 14

P-73783

P-73782

P-76077

P-73785

P-73786

FORD

LAIDLAW

ABITIBI ROAD

Footprint Lk.

Return Lake

G-3

G-4,5,6

G-2

G-1

Crystal Lake

Loakley Lake

OKE

Mushego River

KIRKLAND

• KEY PLAN

SCALE: 1" = 1 MILE

FORD-LAIDLAW PROJECT

A-2 (SHARPE) ›◊‹ MAGNETOMETER SURVEY

(READINGS IN GAMMAS)

SCALE: 1" = 200'

MARCH - 1965

P-73761

P-73769

P-75755

P-73803

P-73802

P-73801

20 N BASE LINE

26 N Tieline

P-73796

P-73797

P-73798

P-73799

P-73800

P-75757

P-76077

P-73782

P-73783

P-73784

P-73785

P-73786

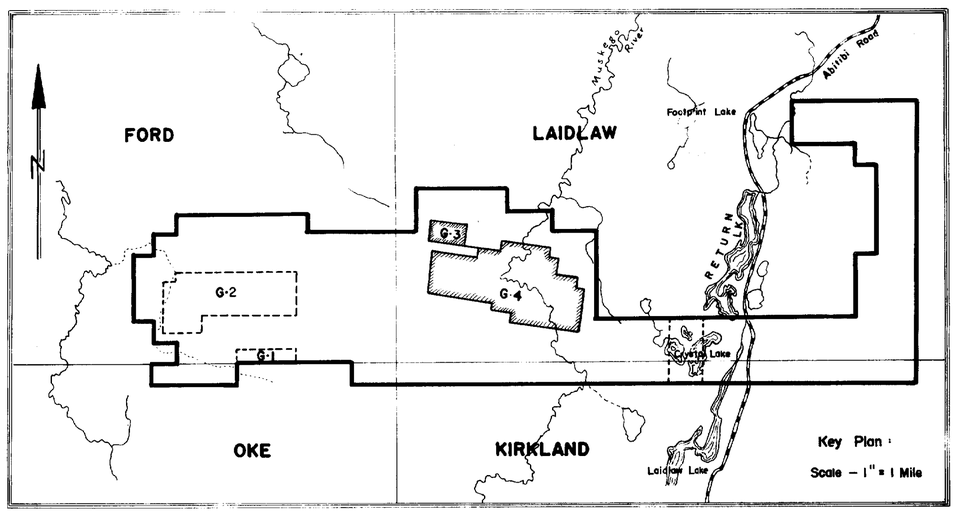
D.D.H. No. 7

CAMP

Bearing - S 43° W
307'
D.D.H. NO. 1
507'
at 50°

14 S TIE LINE

73776



FORD - LAIDLAW PROJECT

HORIZONTAL ELECTROMAGNETIC SURVEY

300' COIL SPACING 876 C.P.S.

IN PHASE LEFT OUT OF PHASE RIGHT

SCALE 1" = 200' FEB. 1965

by: TRI-J MINERAL SURVEYS LTD.

63.2011

P-73796

P-73795

P-73797

L-13-E
Location-1950' N

D.D.H. No. 3

473' S. at 50°

P-73791

P-73790

P-73777

P-73778

P-73776

M U S K E G O R I V E R

6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 43 46

0100 BASELINE

6

4

2·N

2·S

4

6

8

10

12

14

earing
- 43° W
17' at 50°
D.H.
No. 1

P-73789

D.D.H.
No. 2

395' S
at 50°

P-73788

P-73787

P-73766

P-73767

P-73768

'EY

PROVINCE OF MANITOBA
A. L. PARRES
Aug 20-66
REGISTERED ENGINEER

P-73795

D.D.H. NO.3
473' at 50°

P-73797

P-73790

P-73791

P-73777

P-73778

73776

MUSKEGO RIVER

0+00 BASELINE

26 SOUTH TIELINE

Bearing-
S-43°W
507'
D.D.H. NO.1
507'
at 50°

D.D.H. NO. 2
395'
at 50°

P-73786

P-73787

P-73788

P-73789

P-73766

P-73767

P-73768

4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 43 46

2·N 0+00 2·S 4 6 8 10 12 14 16 18 20 22 24 26

PROVINCE OF MANITOBA
A. L. PARRES
REGISTERED ENGINEER