2.857

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TEXMONT MINES LIMITED

ELECTROMAGNETIC AND MAGNETOMETRIC SURVEYS

12 CLAIM GROUP

BARTLETT, GEIKIE, DOUGLAS AND McARTHUR TOWNSHIPS

PORCUPINE MINING DIVISION

ONTARIO

April 26, 1972

PROPERTY CLAIMS LIST

The property consists of 12 contiguous Crown Land Mining Claims in the Porcupine Mining Division of Ontario, as follows:

Bartlett Township: P332611 - 12 - 13 - 14 - 15 and 16.

Geikie Township: P332609 and 10

McArthur Township: P332605 and 06

Douglas Township: P332607 and 08.

LOCATION AND ACCESSIBILITY

The property straddles the four corner junction of Bartlett, Geikie, Douglas and McArthur Townships, a distance of 20.5 air miles south-east of the town of Timmins.

Best means of access is by motor vehicle south from Timmins on the Papakomeka Lake - Texmont Mine Road for 27 miles to the Texmont Mine and then due north up a tractor road and walking trail up the Bartlett-Geikie Township boundary for 1¼ miles to the south boundary of the claim group.

GEOLOGY

The area is underlain by Proterozoic and Archean Rocks of the Precambrian Era. (see O.D.M. maps P631, 632, 745 and 746 which very adequately describe the geology).

The western part of the claims is underlain by volcanic rocks with interflow tuff and sediments including some iron formation. This is followed to the east by basic and ultrabasic rocks which form the northern extension of the main peridotitic rocks to the south. The whole is intruded by felsic intrusives and diabase.

Nickel is the major economic mineral of the area and is found mainly in all phases of peridotitic rocks as logged, but further studies are underway to possibly more clearly define the favourable tupe of nickelliferous peridotite in the Timmins Area.

SUMMARY OF THE ELECTROMAGNETIC SURVEY

The property was gridded with cut, chained and picketed lines run east - west at mostly 300 foot spacings using the north-south township line between Bartlett and Geikie Townships as a Base Line as well as sub base lines parallel to the main base line.

Instrument used was the McPhar Model SS15 E.M. Unit with 1000/5000 cps frequency utilizing the fixed transmitter method. Readings were taken at 100 foot station intervals and all conductive features were resurveyed in additional detail.

Five conductors were detected and are described as follows:

Conductor No. 1

A fairly strong conductor with coincident high magnetics traced for 2,600' striking north-west and is caused by banded Iron Formation.

Conductor No. 2

A weak conductor traced for 2,200' striking north-west. One drill hole intersected sediments with minor sulphides as well as peridotite with minor sulphides.

Conductor probably caused by the sediments and/or the contact with peridotitic rocks with possible accompanying shearing.

Conductor No. 3

A strong conductor traced for 2,300 feet striking north-west which plots over a small stream and swamp. Initial appraisal would attribute the conductor to this surface feature but it also plots along or near the contact of perodititic rocks to the east and felsic intrusive to the west and is quite possibly caused by a serpentinized sheared contact in the ultrabasic rock with possible sulphides.

Conductor No. 4

This is a weak conductor and is possibly caused by conformable shear in basic rocks.

Conductor No. 5

This is a medium to weak conductor lying in an area of peridotite and is probably caused by serpentinized peridotite with minor sulphides.

SUMMARY OF THE MAGNETOMETRIC SURVEY

The survey was carried out over the same line grid as the Electromagnetic Survey using a McPhar Fluxgate Magnetometer Model M700.

Readings were taken at 50 foot station intervals over the entire grid.

Four magnetically high anomalous zones were detected and are described as follows:

Magnetic Zone "A"

This is a narrow linear structurally conformable anomaly which was traced for 1,000 feet striking north-west and is caused by a band of tuff with minor magnetite and pyrrhotite.

Magnetic Zone "B"

This anomaly lies north-east of Zone "A" and is also long and narrow and traced for 3,000 feet, striking north-west conformable to structure and is also probably caused by tuff with minor magnetite and pyrrhotite.

Magnetic Zone "C"

This is a long narrow anomaly traced for 2,800 feet striking north-west and also structurally conformable and is caused by a bed of bedded Iron Formation rich in magnetite.

Magnetic Zone "D"

This is an area of sporadic magnetic highs in a generally magnetically high area caused by undifferentiated basic and ultrabasic intrusives. The higher anomalies are probably due to the ultrabasic members such as serpentinized durite and peridotite rich in magnetite.

Respectfully submitted,

REGISTERED PROFESSIONAL ENGINEER
26/4/72
C. F. DESSON
PROVINCE OF ONTARIO

C.F. DESSON, P.Eng.

APPENDIX "A"

900

GEOPHYSICAL – GEOLOGIC 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 GEOPHYSICAL

Township or Area BARTLETT/GEIKIE/DOUGLAS/McARTHUR TWPS

Claim holder(s) TEXMONT MINES LIMITED

Author of Report C.F. DESSON

Address 1420 Highway # 8, WINONA, Ontario

Covering Dates of Survey Nov.21-Dec.22/71; Jan.4-15/72.
(linecutting to office)

Total Miles of Line cut 19.6
(includes base lines & tie lines)

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	40
--Magnetometer	20
--Radiometric	
--Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Apr. 26/72 SIGNATURE: C.F. Desson
Author of Report

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
McArthur Township	
P	332605
P	332606
Douglas Township	
P	332607
P	332608
Geikie Township	
P	332609
P	332610
Bartlett Township	
P	332611
P	332612
P	332613
P	332614
P	332615
P	332616

TOTAL CLAIMS 12

If space insufficient, attach list

OFFICE USE ONLY

PROJECTS SECTION

Res. Geol. Timmins Qualifications This

Previous Surveys L.L

Checked by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

GEOLOGICAL BRANCH

Approved by _____ date _____

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations: Magnetometer: 1730 Electromagnetic: 1413 Number of Readings: Mag. 1730 E.M. 2826

Station interval: Mag. - 50' E.M. - 100'

Line spacing: 200', 300' and 400'.

Profile scale or Contour intervals: Mag. Contour Interval - 1000 gammas ~~E.M. Profile Scale~~ - 1" = 200
(specify for each type of survey)

MAGNETIC

Instrument: McPhar M-700 Fluxgate

Accuracy - Scale constant: ± 5 gammas on most sensitive scale

Diurnal correction method: All readings levelled to main base control station

Base station location: on 0+00 B.L. at 16N, 8N, 0+00, 12S, 24S; on 12+40W B.L. at 32S, 40S, 48S on east boundary tie line at 16N, 8N, 0+00, 10+40S; Main base control station is on B.L. 0+00 at 6S.

ELECTROMAGNETIC

Instrument: McPhar SS-15

Coil configuration: Vertical Plane

Coil separation: Variable (400' to 1400')

Accuracy: ± 1° of dip angle read

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency: 1000/5000 c.p.s.
(specify V.L.F. station)

Parameters measured: Dip angle in degrees of induced secondary field.

GRAVITY

Instrument:

Scale constant:

Corrections made:

Base station value and location:

Elevation accuracy:

INDUCED POLARIZATION – RESISTIVITY

Instrument:

Time domain: Frequency domain:

Frequency: Range:

Power:

Electrode array:

Electrode spacing:

Type of electrode:

McArthur Twp. - M. 298

Musgrove Twp. - M. 304

Geikie Twp. - M. 320

English Twp. - M. 787

THE TOWNSHIP OF

BARTLETT

DISTRICT OF TIMISKAMING

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	C.

NOTES

This township lies within the TIMAGAMI PROVINCIAL FOREST

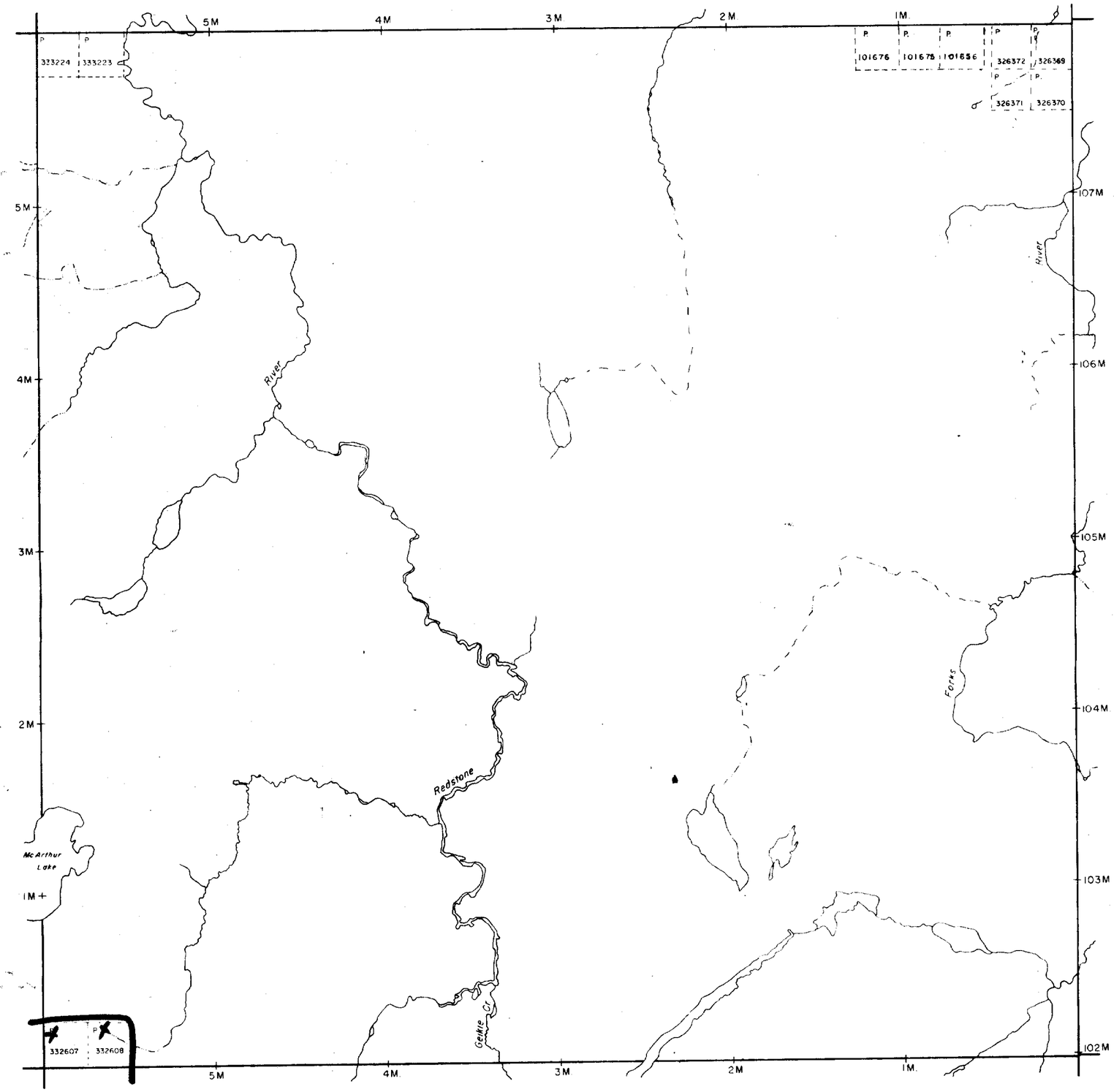
400' Surface Rights Reservation around all Lakes and Rivers.

2.857

PLAN NO.- M-262

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS

Eldorado Twp. - M.276



McArthur Twp. - M.298

Fallon Twp. - M.278

Geikie Twp. - M.320

THE TOWNSHIP
OF

DOUGLAS

DISTRICT OF
TIMISKAMING

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	C

NOTES

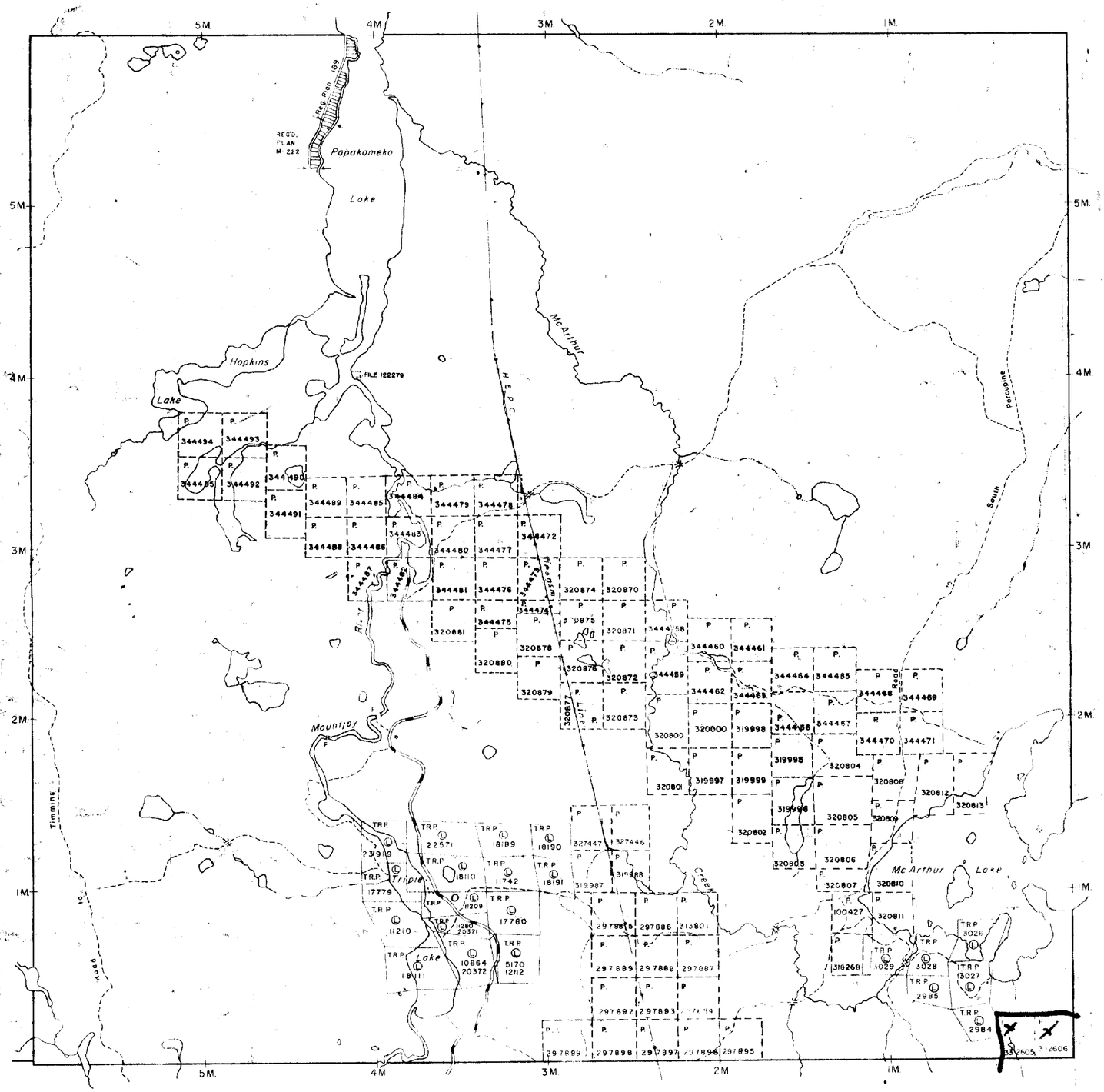
400' Surface Rights Reservation around all lakes and rivers.

2.857

PLAN NO. M.274

**ONTARIO
DEPARTMENT OF MINES
AND NORTHERN AFFAIRS**

Adams Twp. – M.261



Fripp Twp. – M.281

Douglas Twp. – M.274

Bartlett Twp. – M.262

THE TOWNSHIP OF

McARTHUR

DISTRICT OF TIMISKAMING

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	C

NOTES

This township lies within the TEMAGAMI PROVINCIAL FOREST

400' Surface Rights Reservation around all lakes and rivers

2.857

PLAN NO- M.298

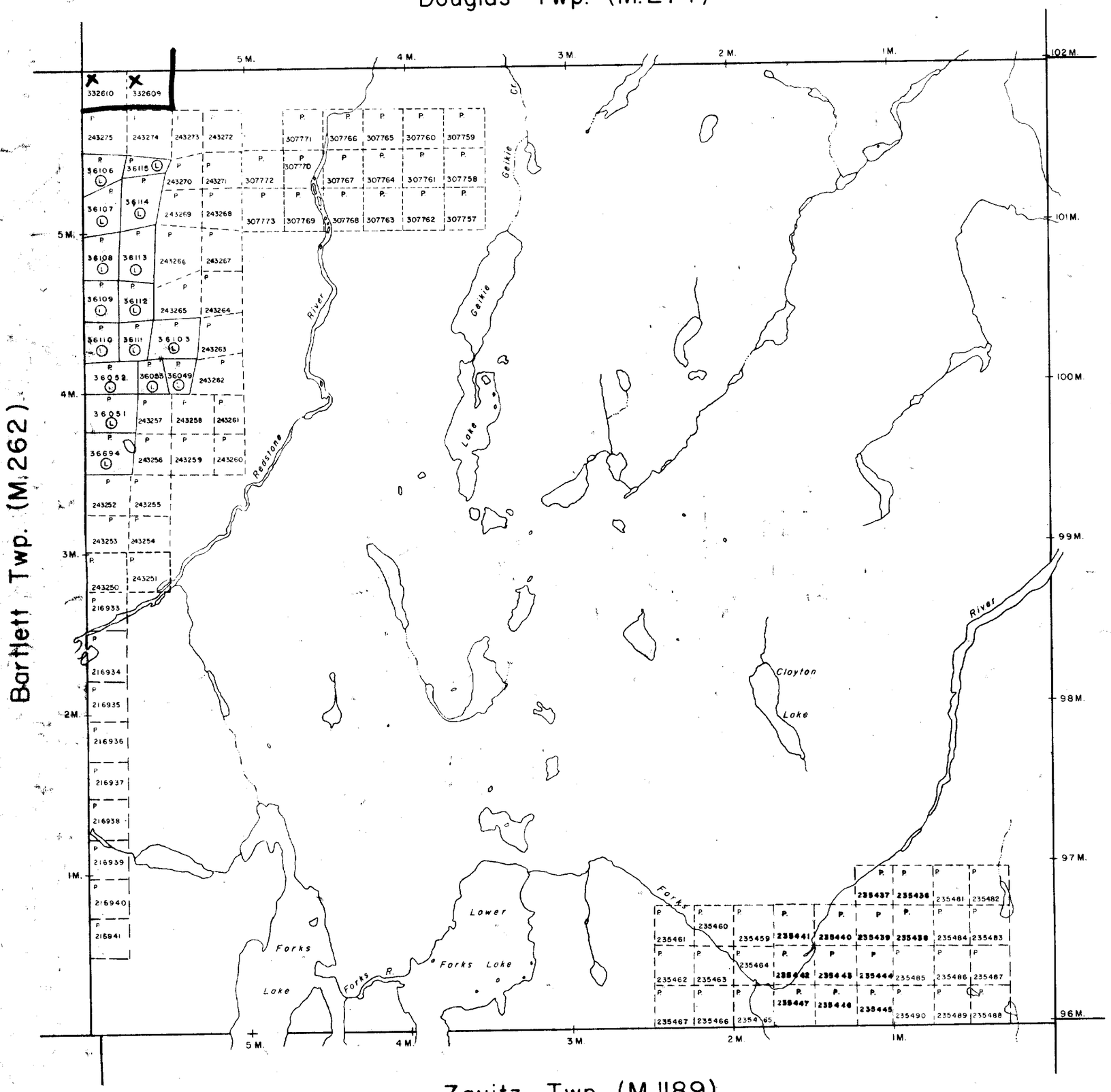
ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS

Douglas Twp. (M.274)

Bartlett Twp. (M.262)

Cleaver Twp. (M.269)

Zavitz Twp. (M.1189)



THE TOWNSHIP
OF

GEIKIE

DISTRICT OF
TIMISKAMING

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	C.

NOTES

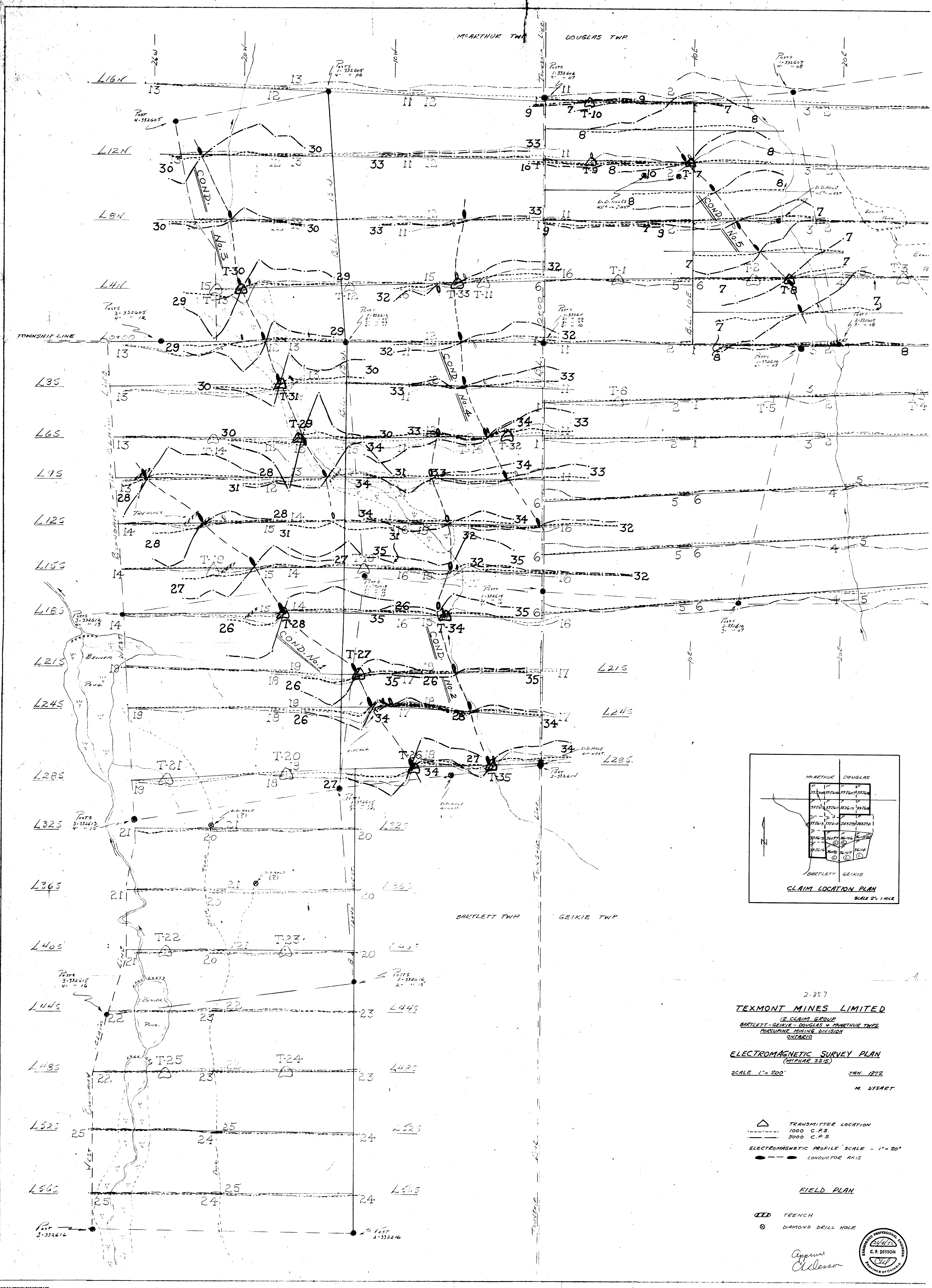
400' Surface Rights Reservation around all lakes and rivers.

2.857

PLAN NO. M-320

ONTARIO
DEPARTMENT OF MINES
AND NORTHERN AFFAIRS

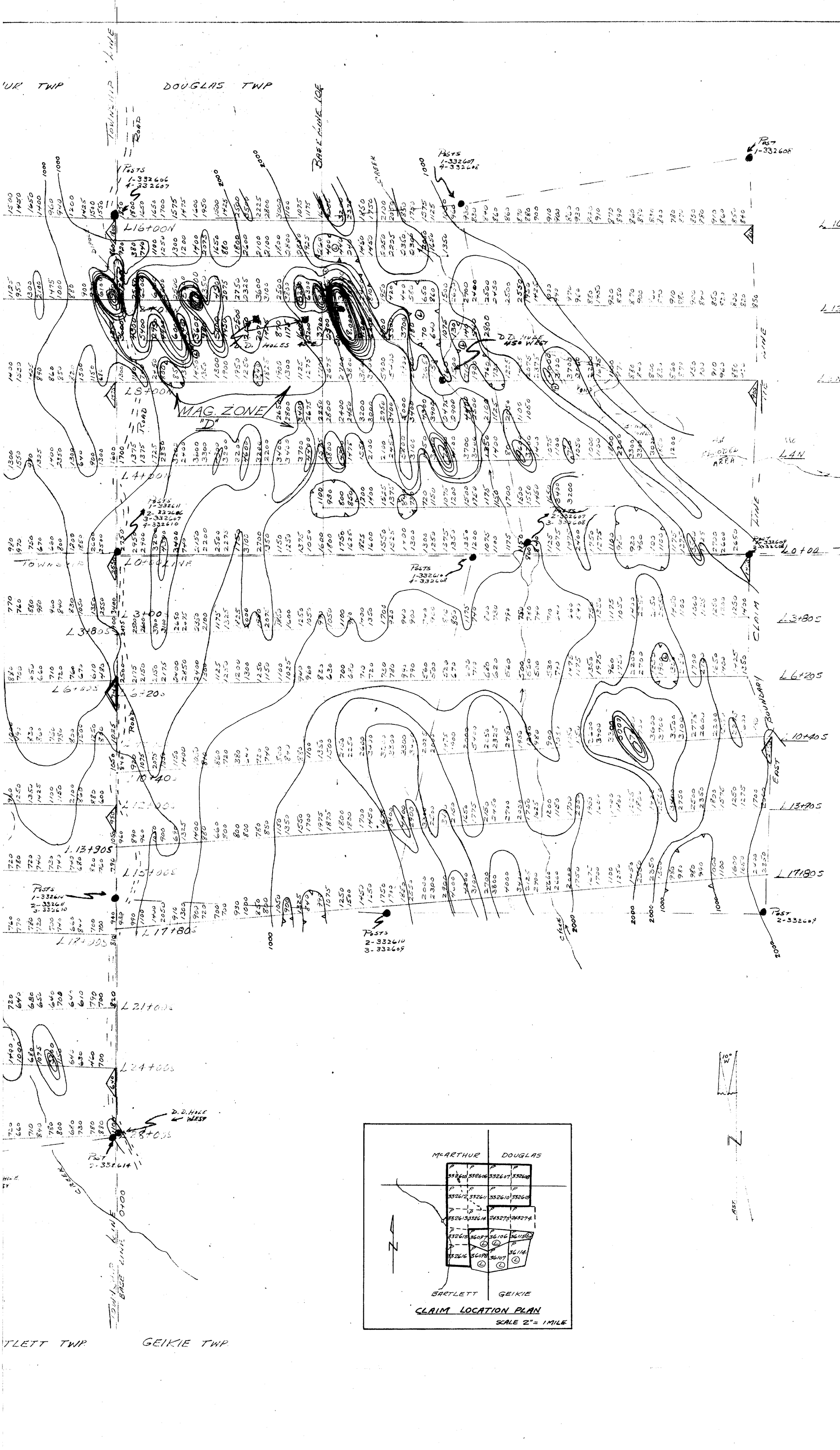
McARTHUR TWP
DOUGLAS TWP
BARTLETT TWP
GEIKIE TWP
TOWNSHIP LINE
BASE LINE 10E
L16N
L12N
L8N
L4N
TOWNSHIP LINE L00
L3S
L6S
L9S
L12S
L15S
L18S
L21S
L24S
L28S
L32S
L36S
L40S
L44S
L48S
L52S
L56S
MAG. ZONE "A"
MAG. ZONE "B"
MAG. ZONE "C"
MAG. ZONE "D"
BEAVER POND
CLAIM - TIE LINE
WEST BOUNDARY
TRENCHES
D.D. HOLES
D.D. HOLE WEST
CREEK
ROAD
CLAIM LOCATION PLAN
SCALE 2" = 1 MILE
TEXMONT MINES LIMITED
12 CLAIM GROUP
BARTLETT - GEIKIE - DOUGLAS & McARTHUR TWPS.
PORCUPINE MINING DIVISION
ONTARIO
MAGNETOMETER SURVEY
(McPHAR M-700)
SCALE 1" = 200'
DEC. 1971
W. GLOSTER
FIELD PLAN
MAGNETOMETER CONTROL STATION
MAGNETOMETER BASE CONTROL STATION
UNIT MEASURED - GAMMA
CONTOUR INTERVAL - 1000 GAMMAS
TRENCH
DIAMOND DRILL HOLE
Approved C.F. Desson
REGISTERED PROFESSIONAL ENGINEER
C. F. DESSON
PROVINCE OF ONTARIO
26/4/72
APP. "C"
240



42A03NE0021 2.857 BARTLETT

250

APP. "B"



TEXMONT MINES LIMITED

12 CLAIM GROUP
BARTLETT - GEIKIE - DOUGLAS & McARTHUR TWPS.
PORCUPINE MINING DIVISION
ONTARIO

MAGNETOMETER SURVEY
(McPHAR M-700)

SCALE 1" = 200' DEC. 1971

W. GLOSTER

FIELD PLAN

- MAGNETOMETER CONTROL STATION
- MAGNETOMETER BASE CONTROL STATION

UNIT MEASURED – GAMMA
CONTOUR INTERVAL – 1000 GAMMAS

- TRENCH
- DIAMOND DRILL HOLE

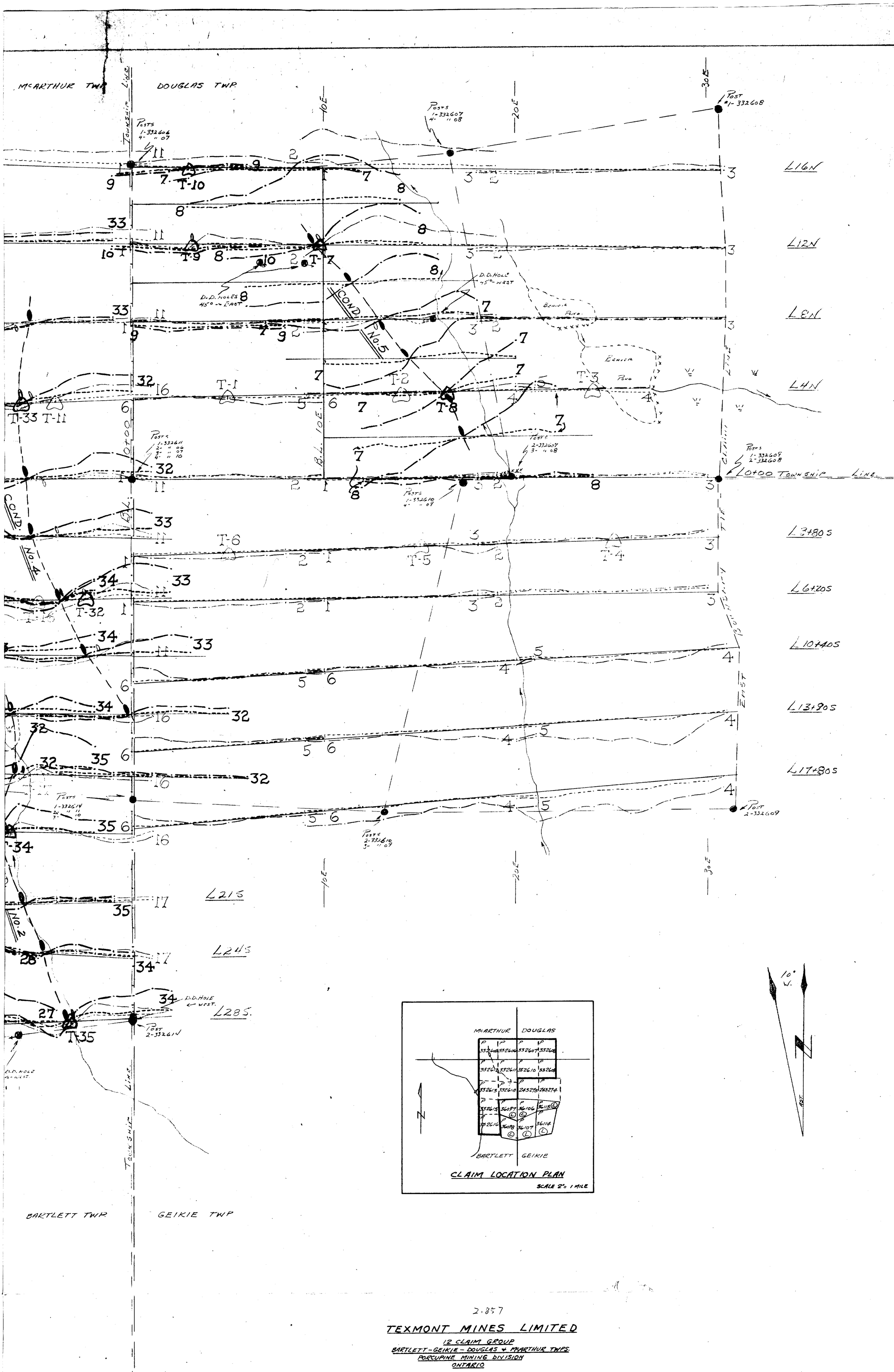
Approved
C.F. Desson

REGISTERED PROFESSIONAL ENGINEER
26/4/72
C. F. DESSON
PROVINCE OF ONTARIO

APP. "C"

MCARTHUR TWP. | DOUGLAS TWP.

BARTLETT TWP. | GEIKIE TWP.



CLAIM LOCATION PLAN

SCALE 2" = 1 MILE

2.857

TEXMONT MINES LIMITED

12 CLAIM GROUP

BARTLETT - GEIKIE - DOUGLAS & MCARTHUR TWPS.

PORCUPINE MINING DIVISION

ONTARIO

ELECTROMAGNETIC SURVEY PLAN

(MCPHAR 5515)

SCALE 1" = 200'

JAN. 1972

M. DYSART

△ TRANSMITTER LOCATION

1000 C.P.S.

5000 C.P.S.

ELECTROMAGNETIC PROFILE SCALE - 1" = 20°

CONDUCTOR AXIS

FIELD PLAN

TRENCH

⊗ DIAMOND DRILL HOLE

Approved C.F. Desson

REGISTERED PROFESSIONAL ENGINEER 26/4/72 C. F. DESSON PROVINCE OF ONTARIO

APP. "B"