

42A06NW0230 2.2720 OGDEN

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RECEIVED
JUN 21 1978
MINING LANDS SECTION

V.L.F. (EMM 16) SURVEY

CARLSON CLAIMS - OGDEN TOWNSHIP

PORCUPINE MINING DIVISION

ONTARIO

JUNE, 1978

INTRODUCTION

This report describes a V.L.F. (E.M. 16) electromagnetic geophysical survey which was performed during the month of October, 1977, over the following four (4) unpatented mining claims in Ogden Township, Porcupine Mining Division, Ontario:

P.499907

P.499909

P.499908

P.499910

The northeast corner of Ogden Township lies within the old Town of Timmins, and the subject claims are located in the southwest part of this township. An all-weather gravel road, extending from Timmins roughly along the course of the Mattagami River to Kenogamisi Lake, passes within several hundred feet of the west boundary of the claim group. An old bush tote road cuts across the northern part of the claim group and connects with the gravel road mentioned above.

TOPOGRAPHY

The southwest part of Ogden Township is rather uniformly flat and exhibits very little relief on surface except where the overburden has been incised by meandering streams and rivers. Evidence from drilling records suggests that the sub-surface bedrock topography may show at least a gently undulating relief, if not some steep slopes and ridges. There are no bedrock outcrops on the subject property, the closest being roughly one-half mile north of its north boundary and three-quarters of a mile east of its east boundary.

HISTORY OF EXPLORATION

There are no extent records available to the writer to indicate that any significant prospecting or exploration work had been done on the subject claims prior to 1964-65. In these latter years these claims were held by Tex-Sol Explorations Limited as part of a larger contiguous group. This company explored the ground by means of magnetometer and electromagnetic surveys and by three diamond core drill holes. One of these holes returned intersections which on assay yielded significant gold values.

GEOLOGY

The geology of Ogden Township was studied and mapped by the writer on behalf of the Ontario Department of Mines in 1964-65.

The rocks underlying the subject claims are of two principal types:

(a) sialic to intermediate pyroclastic rocks, which trend generally east-west and dip vertically to steeply north; these underly the southern part of the claim group.

(b) a sizeable plug or sill of serpentinite and associated ultra-mafic derivatives underlies the northern part of the claim group; the long axis of this body also trends east-west and is steeply dipping to vertical in attitude.

A major north-south trending regional transverse fault passes roughly one-quarter mile west of the west boundary of the subject claims. The west end of a sizeable boss of granitic rocks lies about 2000 feet east of the east boundary of the subject claims.

V.L.F. (E.M. 16) SURVEY

The survey grid lines established by the Tex-Sol exploration personnel were found to be sufficiently intact to be useful as guidelines for the present survey; most station pickets could not be read and in places there was considerable overgrowth of tag alders, willows, etc. However, by careful pacing and search a reasonably accurate survey was made, along the north-south trend of the survey lines.

The V.L.F. survey was done using a Geonics Ltd. E.M. 16 instrument. The V.L.F. transmitter station tuned into was Station NAA at Cutler, Maine, with a frequency of 17.8 KHz. All receiver readings taken at the survey stations were plotted as if the operator was facing north. The results of the survey are plotted on the map accompanying this report. In general, the readings are flat and featureless and do not suggest the presence on the ground of any sub-surface bedrock conductor zones. However, in the general vicinity of stations 10N to 13N on lines 15E to 30E, a series of higher readings suggest that conductivity there may be caused by wet clay-steep rock slope interfaces at the contacts of bedrock and overburden.



H.D. Carlson, P.Eng.
Consulting Geologist



Ministry of Nat

GEOPHYSICAL - GEOLOC
TECHNICAL DAT



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RECEIVED

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.

JUN 21 1978

MINING LANDS SECTION

Type of Survey(s) Geophysical

Township or Area OGDEN

Claim Holder(s) H.D. CARLSON.

Survey Company _____

Author of Report H.D. CARLSON.

Address of Author 110 Martin Street, PORCOPINE.

Covering Dates of Survey October 1st, 1977 June 15th, 1978
(linecutting to office)

Total Miles of Line Cut Nil.

MINING CLAIMS TRAVERSED
List numerically

P. 499907.
(prefix) (number)
P. 499908.
P. 499909.
P. 499910.

SPECIAL PROVISIONS
CREDITS REQUESTED

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

ENTER 20 days for each
additional survey using
same grid.

Geophysical _____
-Electromagnetic _____
-Magnetometer _____
-Radiometric _____
-Other _____
Geological _____
Geochemical _____

DAYS

per claim

20

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

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

DATE: June 16th SIGNATURE: H.D. Carlson
Author of Report or Agent

L.D.

Res. Geol. _____ Qualifications 63.2574

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 4

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

Number of Stations _____ Number of Readings _____

Station interval 100 feet Line spacing 300 feet

Profile scale 1 (one) inch = 10 (ten) degrees

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument Geonics E.M. 16. (V.L.F.)

Coil configuration Horizontal and Vertical

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency Cutler Maine (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 _____

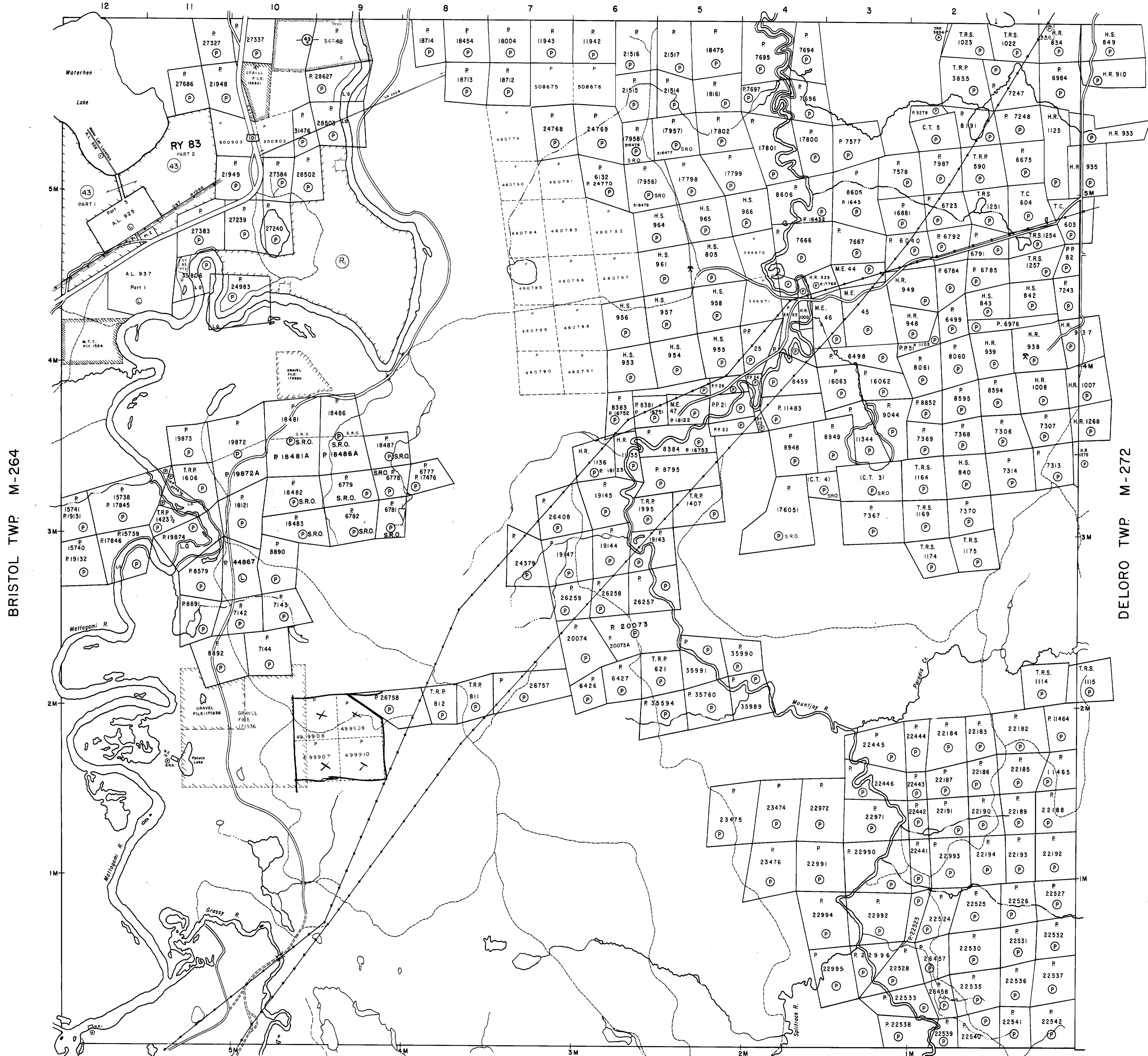
Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

MOUNTJOY TWP M-302



THE TOWNSHIP OF

OGDEN

2,2720

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 20 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 (R)
- IMPROVED ROADS (R)
- KING'S HIGHWAYS (K.H.)
- RAILWAYS (R)
- POWER LINES (P.L.)
- MARSH OR MUSKOG (M)
- MINES (M)
- CANCELLED (C)

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

L.O. 6613 - Booming Grounds - covers the westerly half of the bed of the Mattagami River flowing through this township. File: 73543.

This township lies within the Municipality of CITY of TIMMINS.

Areas withdrawn from staking under Section 43 of the Mining Act (1970)

File	Date	Disposition
W. 55/74	189427	6/11/74 S.R.O.
W. 17/76	138801	2/4/76 S.R.O.
W. 25/78	108545	26/5/78 S.R.O.

DATE OF ISSUE
JUN 26 1978
SURVEYS AND MAPPING
BRANCH

PLAN NO. M-305

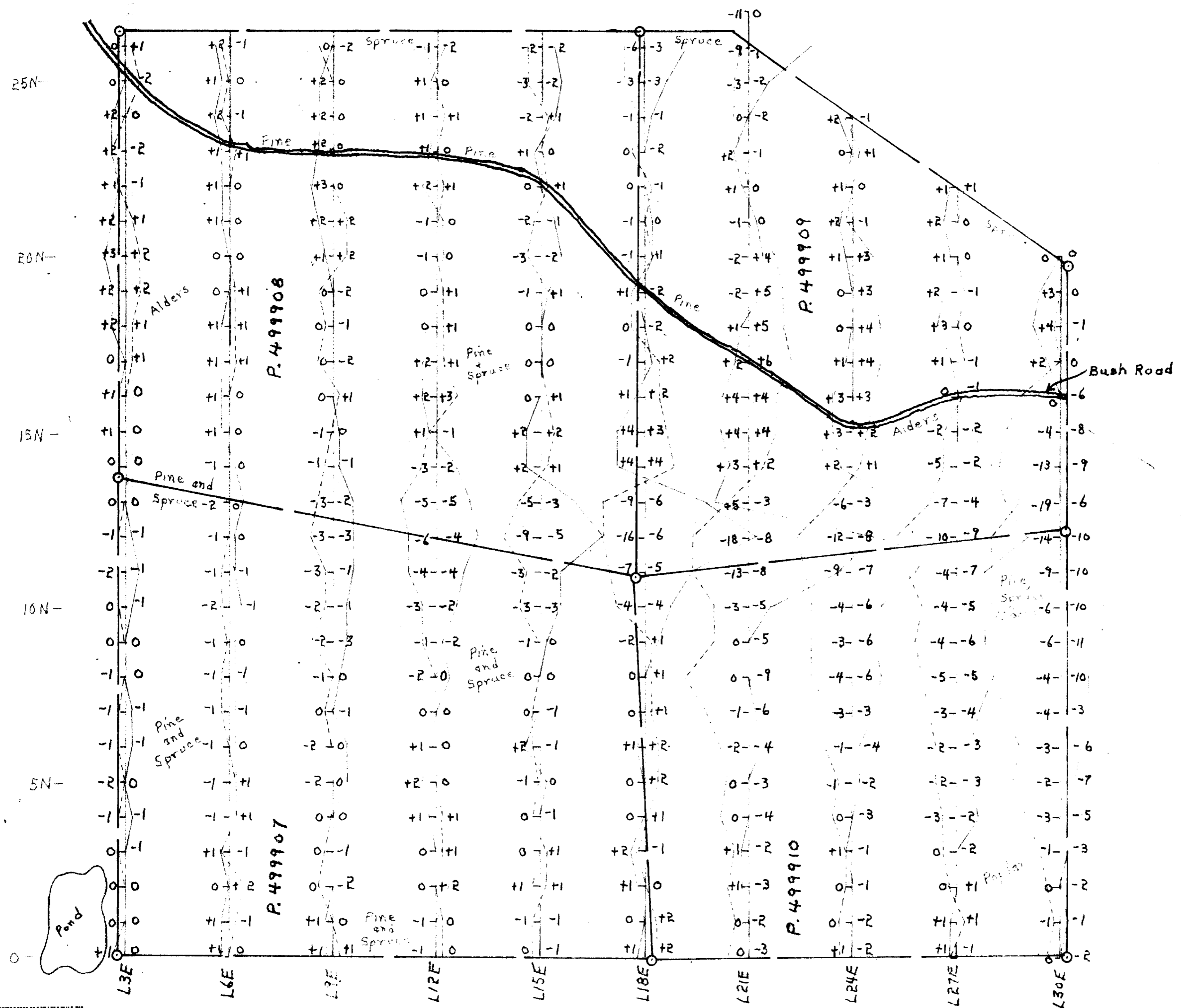
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

BRISTOL TWP M-264

DELORO TWP M-272

PRICE TWP M-307





Survey Traverses with Survey Stationing and E.M.16 readings. Profile Scale - 10" vertical = 1 inch.

+I.P.
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-1
-2
-3
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E.M.16 SURVEY OF CARLSON CLAIMS
 OGDEN TWP, ONTARIO.
 October, 1977.
 Scale: 1 inch = 200 feet.

