



42A02SW0129 2.1493 HINCKS

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JUN 11 1974

PROJECTS UNIT

ELECTROMAGNETIC SURVEY
PRESTIGE MINES LIMITED
HINCKS TOWNSHIP, ONTARIO

April 15, 1974

J. D. McOANNELL

The Directors
Prestige Mines Limited
Suite 520
25 Adelaide Street East
Toronto, Ontario

Gentlemen:

The following report discusses the results of an electromagnetic survey conducted over your Company's group of twelve mining claims located in Hincks Township, Matachewan Area, Ontario. The field work was carried out during the period February 13th to March 5th, 1974, using a Geonics EM-16 instrument.

The property is about three miles northwest of the Ashley Gold Mines shaft and formerly formed a part of the holdings of the McCollum Gold Mines Limited ground. A report published by the Ontario Department of Mines states that that two grab samples from a twelve inch quartz vein on the property returned assays of \$25.00 and \$8.20 in gold per ton when gold was valued at twenty dollars per ounce. This vein was reportedly exposed by trenching for a length of six hundred feet. There is no evidence that any previous exploration work was carried out on the property other than some surface trenching. The old reports also state that some sulphide mineralization, largely in the form of pyrite is usually associated with the gold bearing quartz veins.

The electromagnetic survey was conducted over the entire 12 claims in an effort to locate conducting zones that might be caused by concentrations of sulphide mineralization. No anomalies of any consequence were indicated by the electromagnetic work, and the only conductor outlined by this work, extends in an east-west direction through McCollum Lake and appears to reflect lake bottom rather than any formational conditions. It is now proposed

J. D. McOANNELL

that your Company proceed with a reconnaissance geological investigation of the claims group to locate the old trenches and to concentrate on checking the previously located gold veins by diamond drilling.

PROPERTY, LOCATION AND ACCESS

The property covered by this report comprises a group of twelve unsurveyed mining claims of approximately 40-acres each and forming a contiguous rectangular shaped block. The claims group is located in the east central part of Hincks Township, District of Timiskaming, Larder Lake Mining Division, Ontario. The claims included in the group are further described as follows: 373965, 373966 and 374749 to 374758 inclusive.

Hincks Township is located in what is generally referred to as the Matachewan Mining Area and is about 45 miles west of Kirkland Lake and 40 miles southeast of Timmins. The area can be readily reached by Highway 65 to Matachewan and then via Highway 566 which leads from Matachewan to the Ashley Mine and on across the north part of the Claims group and joins Highway 560 at a point just east of Shiningtree.

TOPOGRAPHY

The topography of the immediate area of this claims group can be described as fairly rugged as it consists of a series of high outcrop hills separated by narrow low valleys. Except on the hills, the ground is covered with a mantle of glacial till. The entire property is overgrown with a fairly dense stand of both large and small timber. A long narrow lake known as McCollum Lake extends in an east-west direction through the central part of the property.

HISTORY AND PREVIOUS WORK

Gold was discovered a short distance south of McCollum Lake in 1931 following the discovery of the Ashley vein in the north-west corner of Bannockburn Township. The McCollum Lake gold showing is located on the claims group discussed in this report.

H.C. Rickaby, then a geologist with the Province of Ontario Department of Mines, examined the showing in 1931 and included a description of the property in his report on the area, Volume XLI, Part II, 1932. The part of his description dealing with the gold bearing quartz vein south of McCollum Lake is as follows: "The quartz was 12 inches wide striking approximately north-south and dipping 35° W. It was mineralized with coarse pyrite and a little specularite. Two grab samples from this vein assayed \$25.00 and \$8.20 per ton in gold. The vein could be traced for a distance of 50 feet at the time of the writer's visit to the property, and it has since been reported that it has been uncovered by trenching for a distance of 600 feet in the greenstones to the south.

Another vein occurs on the boundary line between claims Nos. 8163 and 8164. The quartz has a width up to 18 inches, and is traceable for 150 feet. It strikes N.35° W. and dips 45° S.W. It appeared to be associated with a porphyry dike with the same strike. A grab sample of the quartz containing some pyrite showed a trace of gold on assay". This second vein is believed by the writer to be located about six hundred feet north of McCollum Lake and also on the present claims group.

The old trenching was located by the writer but no evidence could be found suggesting that diamond drilling had been carried out on the property. The ground was held in good standing for many years and there is no indication that any work was done other than that carried out in the early 1930's.

GEOPHYSICAL SURVEY

An electromagnetic survey was conducted over the entire 12 claims during the period February 13th to March 5th, 1974. This work was carried out using a Geonics EM-16 instrument in an effort to locate zones of sulphide mineralization that were considered could be associated with shearing or silicification on the property. Sulphide mineralization, mostly pyrite, had previously been observed with narrow gold bearing quartz veins on this claims group and the geophysical work was carried out as a possible aid to further investigation of the overburdened areas.

North-south picket lines were run at 400-foot intervals and the geophysical stations were established at 100-foot intervals along these lines. The only indication of a conducting zone encountered on the property, was a weak conductor extending in an east-west direction through McCollum Lake. This conductor, however, is interpreted as reflecting topographic rather than geological conditions although there is the possibility that the lake occupies a topographic lineament caused by faulting or shearing. It should be possible to check this from a surface examination of the geology somewhere in the immediate vicinity and along the strike of the conductor.

CONCLUSIONS AND RECOMMENDATIONS

The electromagnetic survey was not successful in locating a conductor on the claims group that would warrant further investigation by trenching or diamond drilling. It is recommended that your Company proceed with a program of surface work consisting of a geological reconnaissance survey and diamond drilling to check

the known gold bearing quartz veins previously exposed by trenching on the property. It will be necessary to re-locate these old trenches to determine the most favourable drilling sites. In a report dated November 26, 1973 and describing the geology of these claims, the writer recommended 1,000 feet of diamond drilling at an overall cost of ten thousand dollars. Increases in drilling costs since that report, necessitates that the estimated cost for 1,000 feet of diamond drilling be increased to twelve thousand dollars from ten thousand. Also an allowance should be made for fifteen hundred dollars to carry out the required geological work.

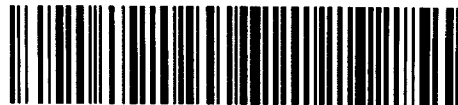
Respectfully submitted,



James D. McCannell, P.Eng.,
Consulting Geologist

Toronto, Ontario
April 15, 1974





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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 Electromagnetic
Township or Area Hincks
Claim holder(s) Prestige Mines Limited (T.Sokoloff)
520 - 25 Adelaide St. E. Toronto, Ont.
Author of Report J.D. McCannell
Address 350 Bay Street, Toronto, Ont.
Covering Dates of Survey Feb. 13-April 15, 1974
(linecutting to office)
Total Miles of Line cut 16

MINING CLAIMS TRAVERSED
List numerically

Table with 2 columns: (prefix) and (number). Contains a list of claim numbers from 373965 to 374758, all with checkmarks.

If space insufficient, attach list

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 40
--Magnetometer
--Radiometric
--Other
Geological
Geochemical

DAYS per claim

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: June 7, 1974 SIGNATURE: [Signature]
Author of Report or Agent

PROJECTS SECTION

Res. Geol. Qualifications 63.2502

Previous Surveys L.D. 63.3085 not for assessment credit

Checked by date

GEOLOGICAL BRANCH

Approved by date

GEOLOGICAL BRANCH

Approved by date

TOTAL CLAIMS 12

OFFICE USE ONLY

Show instrument technical data in each space for
type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations 792 Number of Readings 792
Station interval 100 feet
Line spacing 400 feet
Profile scale or Contour intervals 1 inch = 40%
(specify for each type of survey)

MAGNETIC

Instrument _____
Accuracy - Scale constant _____
Diurnal correction method _____
Base station location _____

ELECTROMAGNETIC

Instrument GEONICS EM-16
Coil configuration _____
Coil separation _____
Accuracy + or - 1°
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 17.8 kHz Cutler, Maine
(specify V.L.F. station)
Parameters measured in phase, out of phase

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 _____

THE TOWNSHIP OF

HINCKS

2,1493

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- | | |
|-----------------------|--------|
| PATENTED LAND | ⊕ |
| CROWN LAND SALE | C.S. |
| LEASES | ⊙ |
| 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 | ⚡ |

NOTES

400' Surface rights reservation around all lakes and rivers.

MINING LANDS -
DATE OF ISSUE
JUN 12 1974
MINISTRY
OF NATURAL RESOURCES

PLAN NO - M.223

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

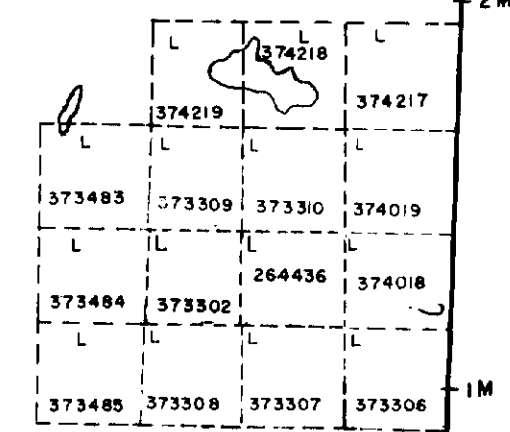
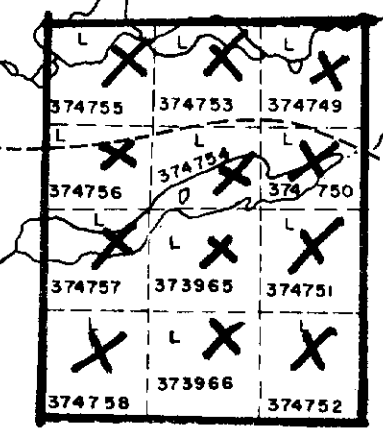
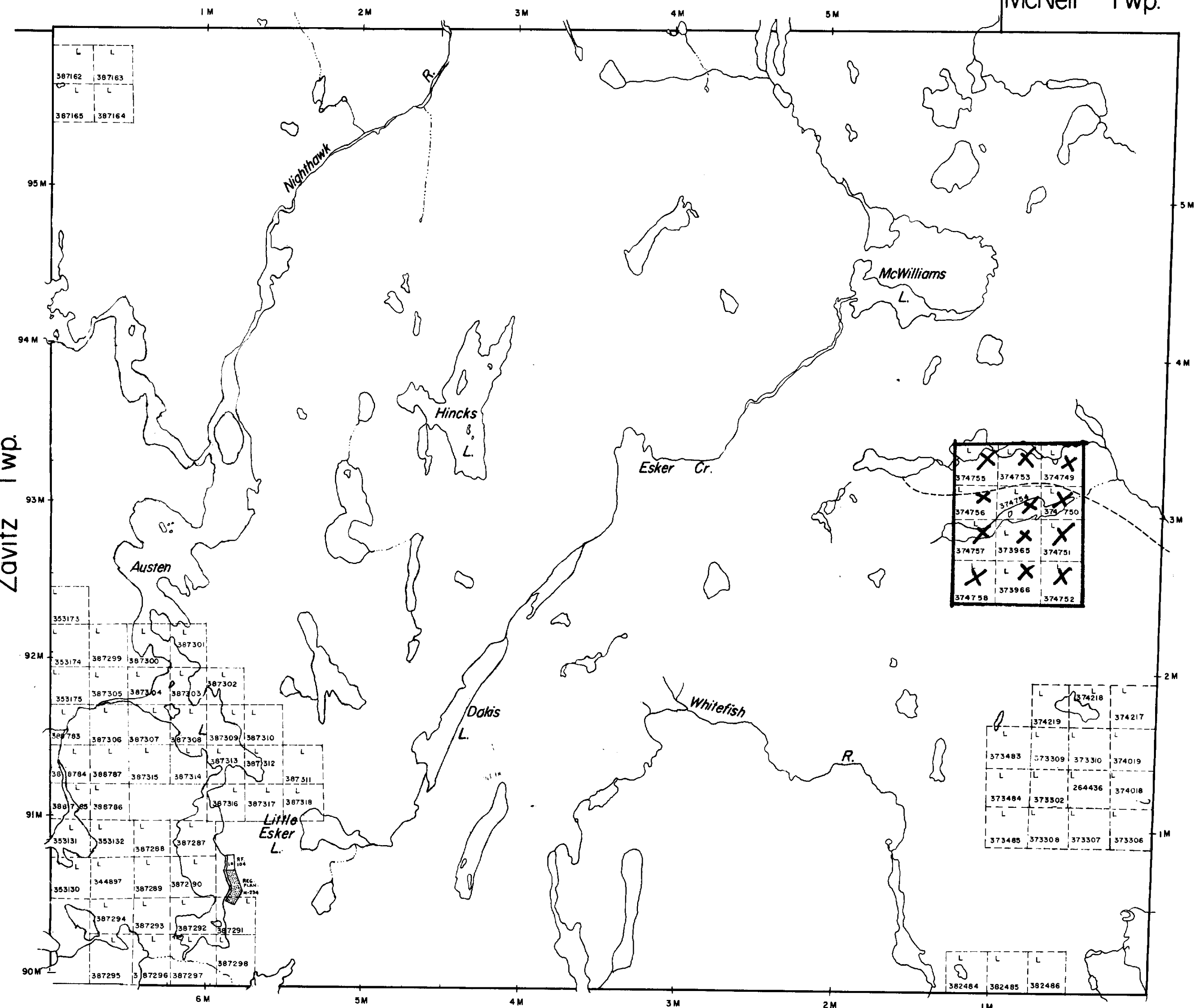
Cleaver Twp.

McNeil Twp.

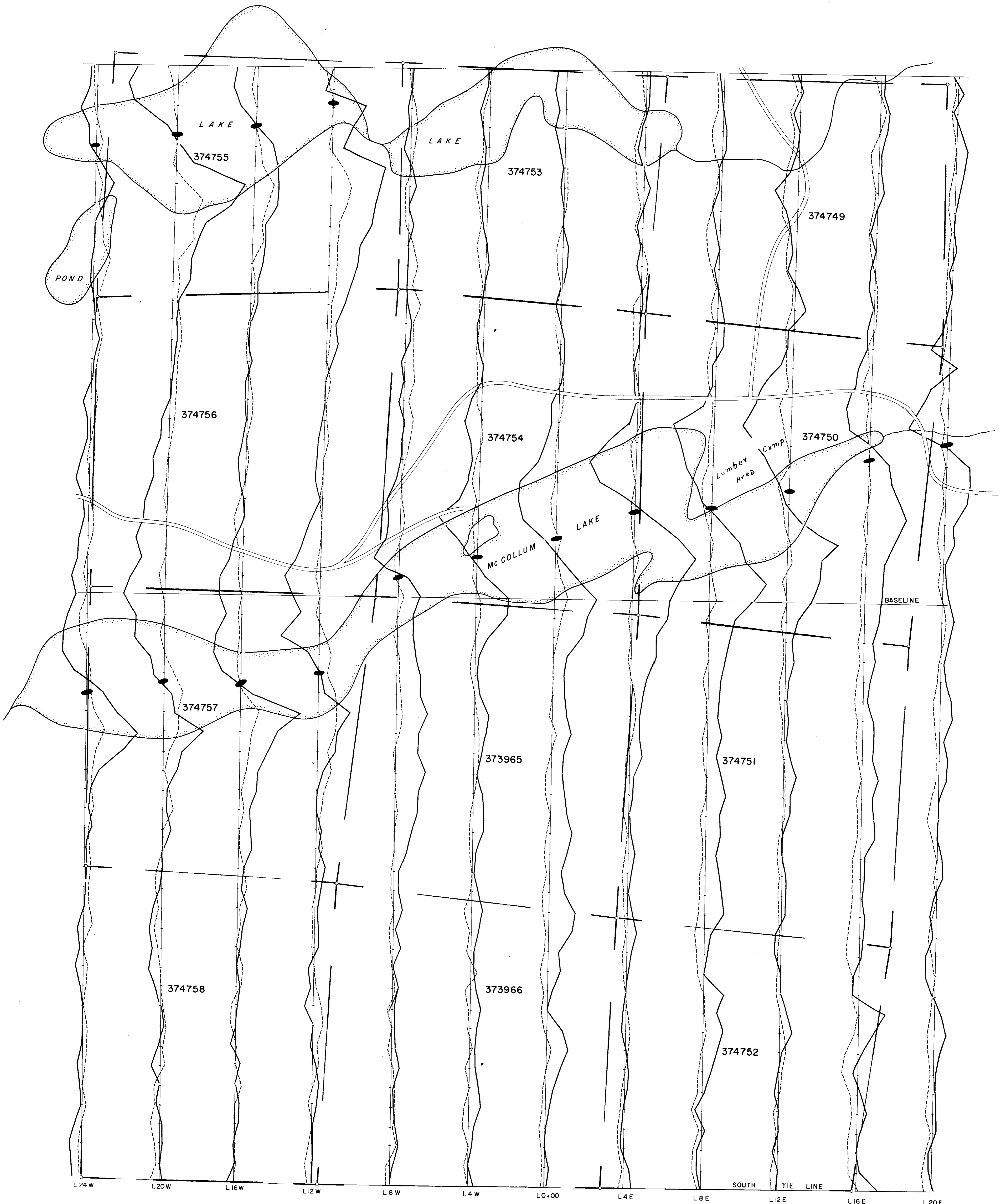
Zavitz Twp.

Argyle Twp.

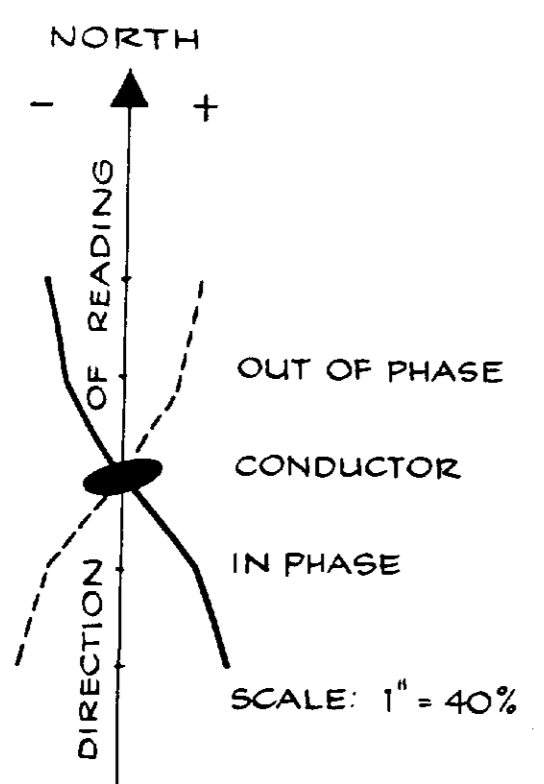
Montrose Twp.



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L 24 W L 20 W L 16 W L 12 W L 8 W L 4 W L 0 00 L 4 E L 8 E SOUTH TIE LINE L 12 E L 16 E L 20 E



PRESTIGE MINES LIMITED
HINCKS TOWNSHIP - ONTARIO

**ELECTROMAGNETIC SURVEY
EM-16**

