

2.1564

GEOLOGICAL REPORT
PRESTIGE MINES LIMITED
HINCKS TO
ONTAR



42A02SW0128 2.1564 HINCKS

010

SUMMARY

A program of geological mapping was conducted on the group of 12 mining claims held by Prestige Mines Limited and located in Hincks Township, Matachewan Area, Ontario. This work was carried out during the latter part of May and early part of June, 1974.

The picket lines cut earlier this year for the geophysical surveys, were used for control for the geological mapping. These lines were spaced at 400-foot intervals and were found to be well cut and chained. The geological information was plotted on the scale of one inch to two hundred feet.

A fair amount of outcrop was found on all parts of the property, but the exposures were, for the most part, quite small. Most of the claims group was found to be underlain by basic volcanics with a small mass of later syenite and syenite porphyry in the central part of the ground. A northeast striking diabase dike extends through the extreme east part of the property

Two narrow quartz veins were mapped on the claims group, one of these is located about 600 feet north of Ezra (McCollum) Lake and the other about 600 feet south of the lake. Both of these veins strike in a northwest direction but are not quite on strike with each other. These quartz veins were first reported on in the early 1930's and were mentioned in the Province of Ontario Department of Mines report Volume XLI, Part II, 1932. Both veins warrant further investigation by diamond drilling.

PROPERTY, LOCATION AND ACCESS

The property described in this report comprises a group of twelve unsurveyed claims of approximately 40 acres each and forming a contiguous rectangular block. The 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 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 566 which leads to the Ashley Mine and continues on across the north part of the claims group and joins with highway 560 at a point just east of Shingtree.

TOPOGRAPHY

The topography of the immediate area of this claims group can be described as reasonably rugged. It is made up of a series of fairly high outcrop hills separated by low hilly valleys. Except on the higher hills, the area is covered with a mantle of glacial soil and gravel. The entire claims group is covered with a fairly dense growth 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 McCollun 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.

GEOLOGY

There are sufficient exposures of bed rock on the claims to permit fairly detailed geological mapping of the ground. These exposures are, for the most part, quite small but they are fairly well scattered throughout the entire claims group.

The property was found to be largely underlain by Keewatin type greenstones consisting mostly of andesite pillow lavas, fragmental flows and tuffs. They are greenish coloured, massive and quite hard and in places exhibit small white flecks or poorly formed phenocrysts of feldspar.

A small mass of Algoman type syenite intrudes the greenstones in the central part of the claims group and probably underlies a large part of Ezra (McCollum) Lake. This rock varies from syenite, through quartz syenite, feldspar porphyry to a more granite type formation. It is generally pink coloured, coarse grained and contains abundant orthoclase.

A well defined diabase dike, forming several high outcrop ridges, strikes in an east of north direction through the extreme east part of the claims group. This intrusive is thought to be of Matachewan age and has exposed widths varying from 50 to 100 feet.

Quartz stringers and veins occur both in the syenite and in the greenstones near the syenite contact. The largest of these veins is located about 600 feet south of Ezra Lake where it is exposed in a series of trenches for a strike length of 135 feet. A second series of trenches along strike about 600 feet to the southeast expose a quartz vein which probably represents the southeasterly strike of the same vein and indicate a total length of at least 630 feet. This is undoubtedly the vein south of McCollum

Lake that H.C. Rickaby mentioned in Volume XLI, Part II of the Ontario Department of Mines reports. The vein varies from 9 to 14 inches in width, strikes slightly west of north and dips from 30 to 38 degrees to the west. The quartz carries small amounts of pyrite, chalcopyrite, sphalerite and a very fine grey mineral that is probably galena. Ten samples taken from various locations along the 630 feet of indicated strike of this vein showed the presence of some gold with the best assay being 0.12 ounces across a width of one foot.

The north vein mentioned by H.C. Rickaby, appears to be a vein located about 600 feet north of Ezra (McCollum) Lake and exposed by a series of trenches, seven of which are still in good condition, for a strike length of 300 feet. This vein has exposed widths of up to three feet of massive quartz, strikes north 45 degrees west and dips southwest at 43 degrees. This vein is very similar to the south quartz vein but has much less sulphide mineralization. Eleven samples taken from various locations along the strike of this vein, returned only traces of gold.

CONCLUSIONS AND RECOMMENDATIONS

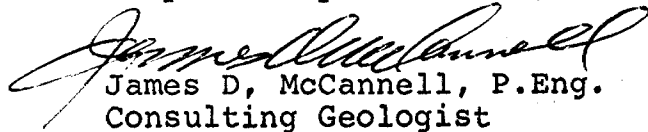
The syenite observed on the property discussed in this report, is quite similar to the syenite that forms the host rock for the gold orebodies on the Young-Davidson property in Powell Township and 14 miles southeast of the Prestige Mines Limited claims group. The Young-Davidson mine produced a substantial amount of gold from their syenite zone during the period 1934 to 1956. The syenite that proved to be gold bearing, is reported to have been mineralized with about 2 % pyrite and only a small amount of quartz. This same type of syenite was observed on the property discussed herein.

(6)

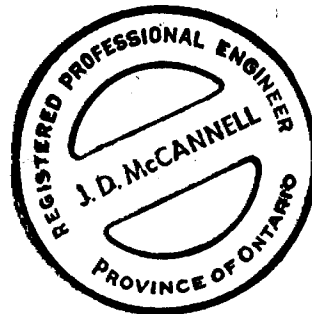
The north vein on the Prestige Mines Limited claims group cuts basic volcanics with only minor amounts of syenite intrusive. The south vein, where the better gold values were obtained, occurs entirely within the syenite mass. Also much more sulphide mineralization was observed in the south vein.

It is recommended that a limited diamond drilling program be carried out on this claims group, with the initial holes being drilled to test the south quartz vein. These holes will also cut the syenite formation which will provide an opportunity to check that rock type for possible gold content.

Respectfully submitted,


James D. McCannell, P.Eng.
Consulting Geologist

Toronto, Ontario
June 28, 1974



J. D. McCANNELL



RECEIVED

SEP 10 1974

By hand. PROJECTS UNIT

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(s) Geological
Township or Area Hincks
Claim Holder(s) T. Sokoloff (Pestige Mines Ltd.)
Suite 520 - 25 Adelaide St. East
Toronto, Ont
Survey Company J.D. McCannell
Author of Report J.D. McCannell
Address of Author 326 Adelaide St. W. Toronto, Ont.
Covering Dates of Survey June 1 - 28, 1974
(linecutting to office)
Total Miles of Line Cut 16

MINING CLAIMS TRAVERSED	
List numerically	
<u>L</u>	<u>373965</u>
(prefix)	(number)
	<u>373966</u>
	<u>374749</u>
	<u>374750</u>
	<u>374751</u>
	<u>374752</u>
	<u>374753</u>
	<u>374754</u>
	<u>374755</u>
	<u>374756</u>
	<u>374757</u>
	<u>374758</u>

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic	
-Magnetometer	
-Radiometric	
-Other	
Geological	<u>20</u>
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)
DATE: Sept. 9, 1974 SIGNATURE: J.D. McCannell
Author of Report or Agent

Res. Geol. _____ Qualifications 63.2502

File No.	Type	Date	Claim Holder
<u>2.1493</u>	<u>EM</u>	<u>1974</u>	<u>T. Sokoloff</u>
<u>63.3085</u>			<u>- Received credits for linecutting Not for assessment credits (MEAP)</u>

TOTAL CLAIMS 12

If space insufficient, attach list

SPACE 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 _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

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 _____

Cleaver Twp.

McNeil Twp.

THE TOWNSHIP OF 2004

HINCKS

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 | Ⓧ |

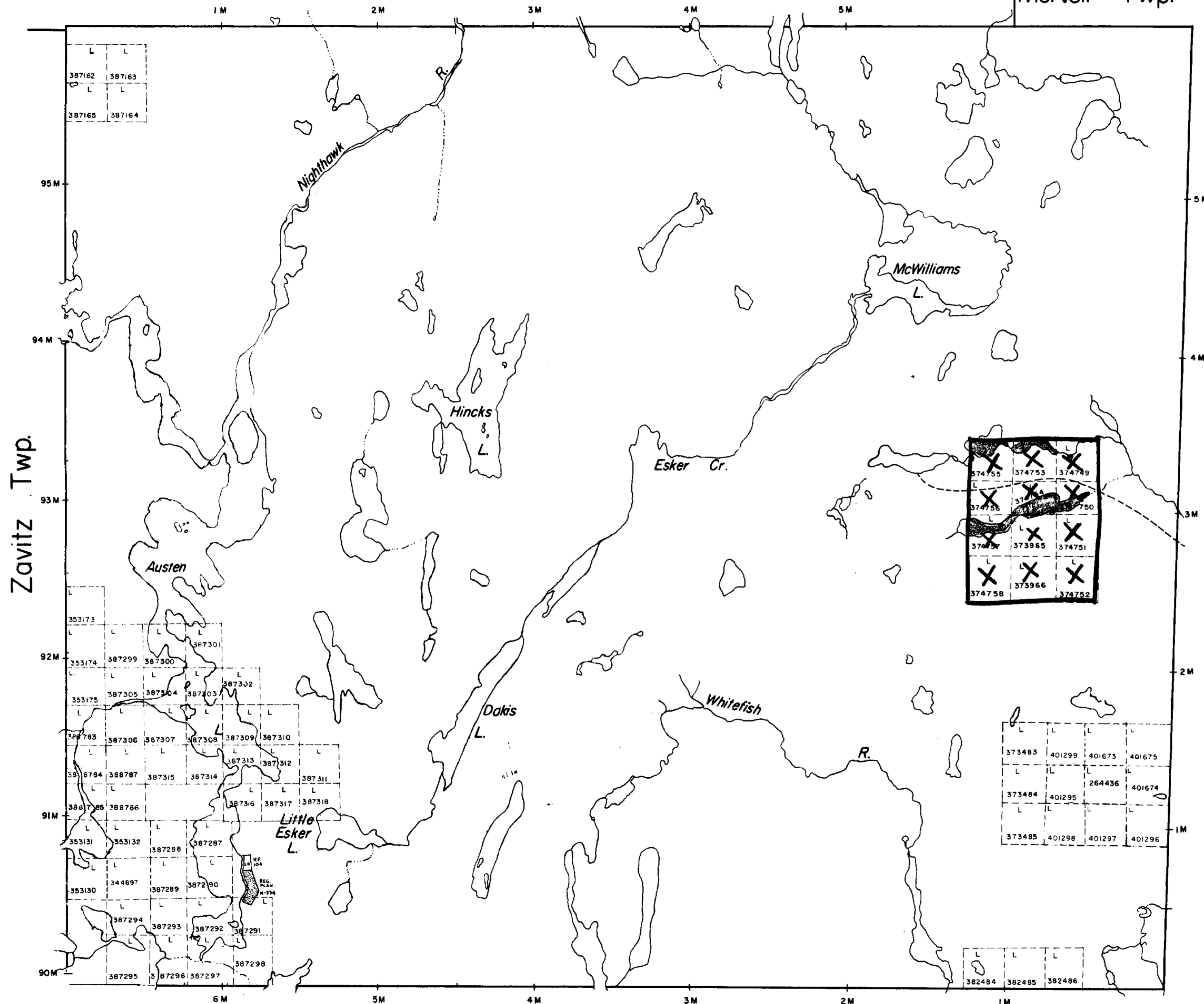
NOTES

400' Surface rights reservation around all lakes and rivers.

MINING LANDS
DATE OF ISSUE
SEP 11 1974
MINISTRY OF NATURAL RESOURCES

PLAN NO - M.223

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



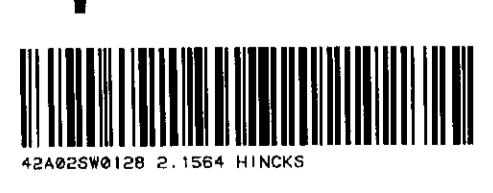
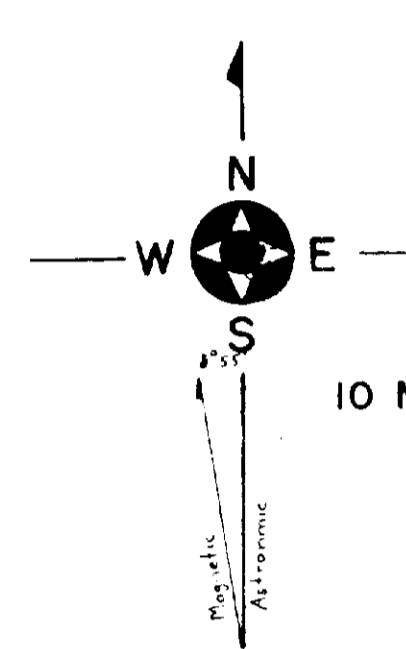
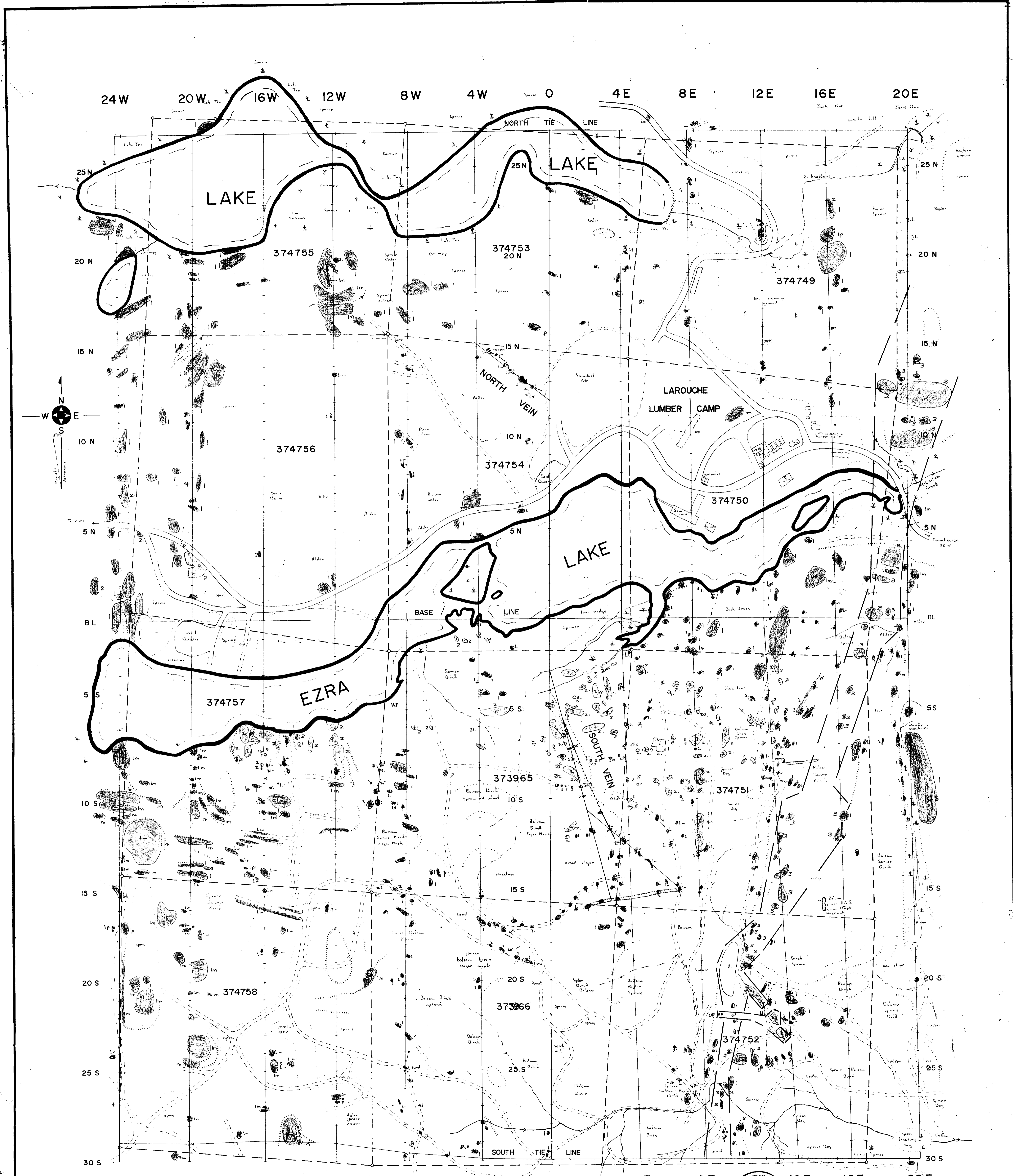
Zavitz Twp.

Argyle Twp.

Montrose Twp.



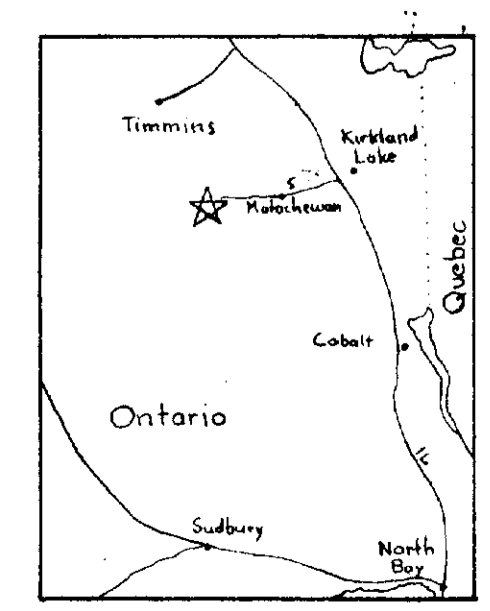
42A025W0128 2.1564 HINCKS



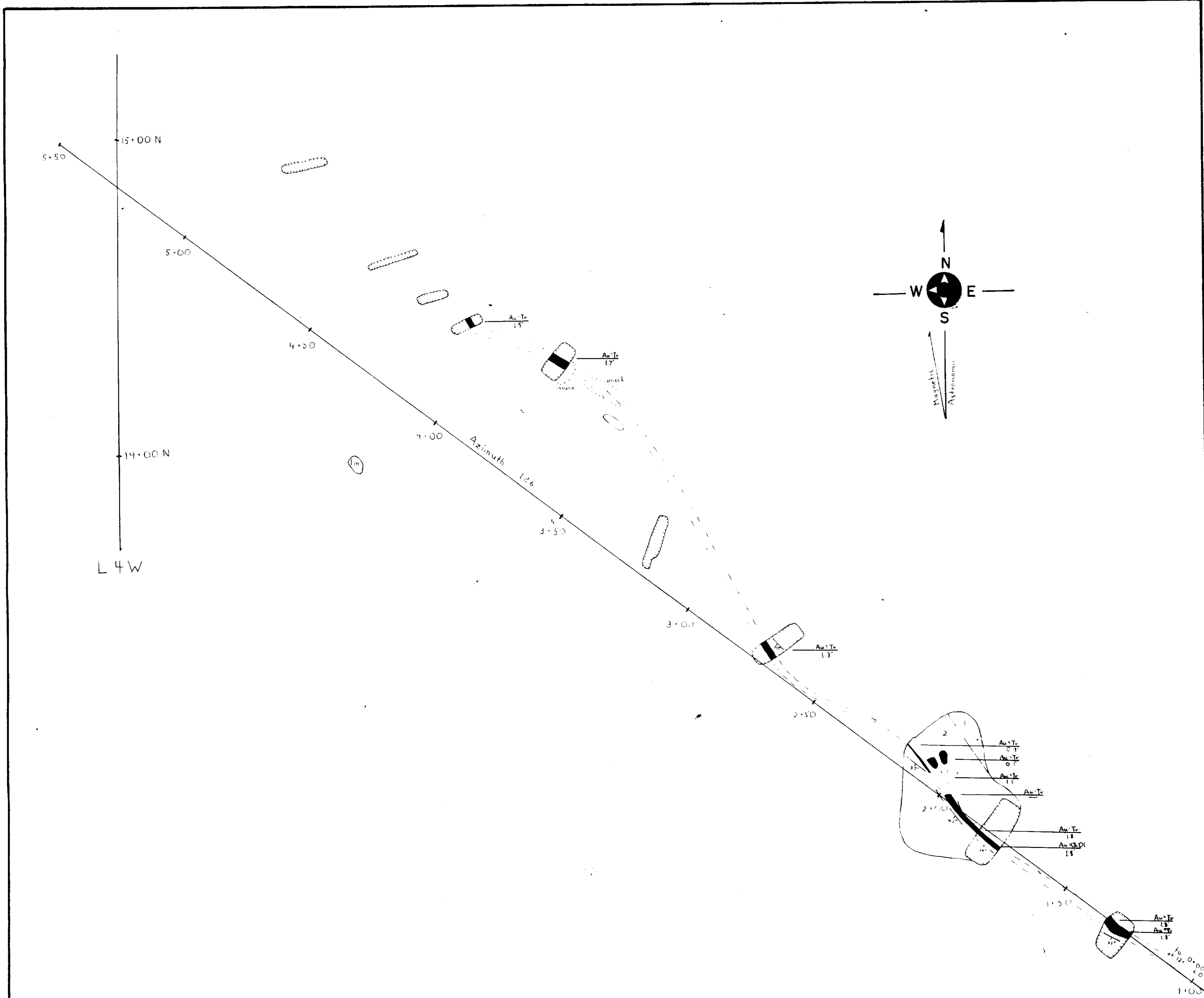
LEGEND

- (Im) OUTCROP
- STRIKE and DIP of BEDDING, FLOW LAYERS
- STRIKE and DIP of SCHISTOCITY
- STRIKE and DIP of FRACTURES
- DIAMOND DRILL HOLE
- STREAMS - flowing
- - - - - intermittent, drainage courses
- ROADS
- - - - - TOTE ROADS
- CLAIM POST & CLAIM LINE
- PICKET LINE
- XXXXXX BEAVER DAM
- TRENCH
- TOPOGRAPHIC BOUNDARIES

1	Volcanics	1m massive andesite
1p	pillow lava	
1f	fragmental lava	
1b	basalt	
2	Syenite, Quartz Syenite, Syenite Porphyry, Feldspar Porphyry, Granite	
3	Quartz Diabase	
	Sandy Till, Clay, Recent Swamp Deposits	



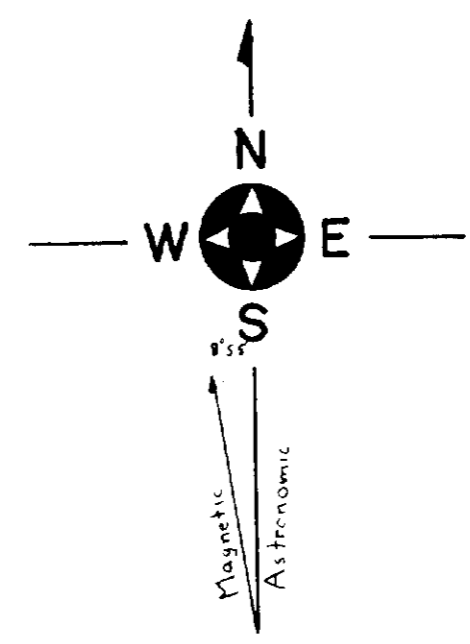
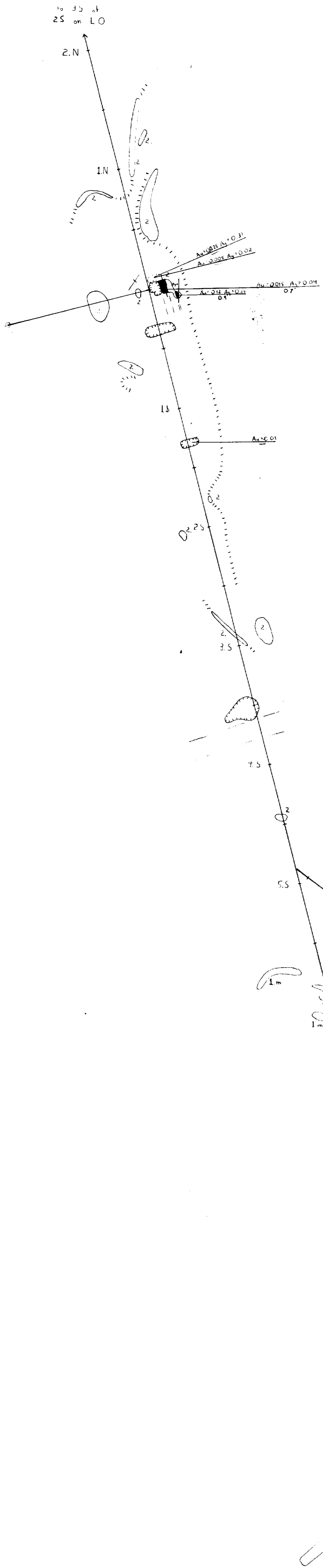
GEOLOGICAL PLAN
PRESTIGE MINES LIMITED
 HINCKS TOWNSHIP
 DISTRICT OF TIMISKAMING
 ONTARIO
 MATACHEWAN AREA
 SCALE 1" = 200' JUNE, 1974
 RES. GEOL. H. DOWHALUK CONS. GEOL. J. D. McCANNELL
 J. NEILSON



Legend	
Outcrop	(Gm)
Strike & Dip of Bedding	$\frac{30^\circ}{}$
Strike & Dip of Stratability	$\frac{10^\circ}{}$
Strike & Dip of Fractures	$\frac{30^\circ}{}$
Picket Line	—+—
Trench	⊖
Muck	⊖

Geological Plan
PRESTIGE MINES LIMITED
NORTH VEIN
 CLAIM 374754, HINCKS TWP.
 DISTRICT OF TIMISKAMING
 ONTARIO
 SCALE 1" = 20'
 Res. Geol. H. Dowhalek
 Cons. Geol. J.D. McMinnell
 DATE JUNE 1974





Legend

- Outcrop
- Strike and Dip of Bedding
- Strike and Dip of Schistosity
- Strike and Dip of Fractures
- Picket Line
- Trench
- Muck

Geological Plan
PRESTIGE MINES LIMITED
SOUTH VEIN
 Claims 373465, 374751 Hincks Twp
 DISTRICT OF TIMISKAMING
 ONTARIO
 Scale 1" = 50' Date: June 1974
 Res Geol H Dowhaluk Cons Geol J D McConnell
 J. Neilson

