



FINAL REPORT  
ON  
THE "BIG DAN" PROPERTY, STRATHY TWP. ONTARIO  
FOR  
UNITED REEF PETROLEUMS LTD

ABSTRACTS

A program of line cutting, geological mapping, magnetometer surveying, and sampling was completed in September 1965 in order to evaluate a total of 470 acres. The claim block had received previous examinations (see Appendix A) including a resistivity survey and 2643 feet of diamond drilling in eleven holes, extending to the south of the present acreage, in 1949. Still prior to the above, in 1907, a small tonnage mill operation was concentrating gold and silver ore from an open cut development via adit in an auriferous arsenic rich volcanic fault shear enrichment. The gossan capped fault shear and its ensuing continuity combined with the remnants of previous development represented the geological environment requiring evaluation.

CONCLUSIONS

The property assessment is negative. The results preclude any further expenditure. The marginal traces of suggestive ore indications, under weak structural discordance and sparseness of vein structure, do not suggest any basis for depth examination. The writer recommends that the claims be allowed to lapse following present assessment submissions.

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UNITED REEF PETROLEUMS LTD

Property, Location and Access (see map #1)

The property consists of 470 acres in parcels of one patented block WD.271 having 230 acres and six staked claims namely 55494, 5, 6, 7, 55616 and 55467; totalling 240 acres. The claims are located in Strathy Twp., Timiskaming Mining Division, Province of Ontario. The recording office is located at Halleybury, thirty miles to the north. The claim access is via bush road east of Highway 11, approximately two miles north of the village of Temagami, some 300 miles north of Toronto.

The aerial photo coverage is available in series A.13123, numbers 18, 19 and 20.

History

The property was discovered around the 1900 period during preliminary surveys for the Ontario Northland Railway route which presently crosses claim WD.271. The original plant was destroyed by a forest fire in 1907. The property was incorporated in 1948/49 as Big Dan Mines Ltd. This prospect has lain dormant since the 1949/50 period and represented a holding in the United Reef port folio requiring an examination.

Geology (see map #1 and #2)

The property rocks are Pre-Cambrian in age. The majority of the outcrops are of Keewatin volcanics-mainly andesite and often coarse in texture. The Keeseenawan diabase was in evidence but no chilled contacts were observed. However, the meta-volcanic mass could be a resultant of this intrusive mass. The northern portion of the property exposed the Algoman granite contact. This rock mass is representative of the basement complex and is also evident in dyke form associated with the main exposure of the "Big Dan" property.

Structure

The property structural features of importance are two in number and not suggestive of strong discordance. The Big Dan showing rests in a black, gossan capped fault shear. This andesitic shear zone can be traced for 1630 feet on surface and parallel features expose an additional 470' mainly on the two block International Nickel ground. The gossan capping varies in width on the United Reef property from an observed negligible capping to a maximum of thirty feet on the Big Dan showing. The fault shear strikes north-south and dips steeply to the west at 60°. This shear zone is approximately 350' east of an parallel to the west boundary of WD.271. See mineralization features following.

The second feature is a north-east trending fault shear of three feet width and vertical dip exposed in the railway cross-cut on the south-east corner of WD.271. This portion of the property is reflective of its location on the north limb of the Link Lake synclinal structure and represents part of that structure. However, no mineralization was evident. In addition, the junction of the north-south shear and probable tension fracture and the north-east shear zone did not reveal anything of interest under present and previous examinations.

The topographical features did not reflect any structural interpretation of importance. The glacial stria was prominent at north five degrees east (N5°E) and a pleistocene esker on which road access is located helps to avoid the abundance of cedar swamps. The east-west grid lines with 100' chained stations were cut at 400' north-south line intervals. The stress in the examination was related to north-south structural features.

Geophysics (see map #3)

The magnetometer survey successfully delineated the "Big Dan" showing in the north-south gossan capped fault shear. The trend coincided with the geological surface evidence. The response can be traced to the pyrrhotite content in particular as witnessed in a drill hole on WD.262 on International Nickel ground. The writer feels the original resistivity survey was not instrumental in delineating anomalous conditions. The primary trend contains an anomaly 200 feet east on line 0400 on WD.271, with a reading of 3000+ gammas in excess of background. This position has been drilled on a previous occasion. The secondary zone over claims 55494, 5 and 55467 produced several minor anomalies. These areas have been examined to the satisfaction of the writer with negative results.

Mineralization (see Appendix 3)

The sampling results represent the surface testing of a strike length of 1630'. The gossan capping overburden is in consistent evidence at 400 foot line intervals on the strike length. The shear strikes at 350° and dips 60° to the west. The main showing extends from LINE O/360E north to co-ordinate 200N/360E. The original adit open cut, and south shaft are in this section with the adit commencing at 200N/360E and drifting south. Adit and shaft are now water filled. There is a second shaft 230' north of the adit mouth.

The black gossan capped fault shear is mineralized with sparse massive veinlets of arsenopyrite with minor evidence of chalcopyrite, pyrite and pyrrhotite. The assay results reveal marginal traces of gold and silver ore with occasional nickel, copper and zinc values. The gossan capping does distort the mineralization potential of the shear and is suggestive of other enriched sections which accounted for the open cut remnants. The footwall and hanging wall contacts are evident with minor brecciation. The footwall at the northern shaft coincides with an Algoman quartz, feldspar porphyry dyke of undetermined extent. The open cut terminated with an east-west basic derivative dyke of one foot thickness. The sample sections are recorded in Appendix B and include a spectrographic analyses. All present samples are from surface exposures of previous trenching. The results denote the weakness of the cross section sampling and also designate the arsenic rich veinlets as revealed in longitudinal section as being the host to the marginal gold and silver values. The sampling results are negative.

Conclusions

The original "Big Dan" consisted of a 59' long and 1' thick band of massive arsenopyrite, (per A. P. Coleman., ODM. APPENDIX A). The present and past property examinations and drilling did not reveal any additional similar concentrations on the property. If the arsenic rich ore bearing veinlets had shown continuity and consistency, in particular under previous drilling, then a program of depth probes and penetration tactics such as the application of the electromagnetic tool would have been recommended. In lieu of the latter, the property assessment is negative and the writer recommends the claims be allowed to lapse.

November 9, 1965

Respectfully submitted,

*George Ross*  
George Ross,  
Geologist.

APPENDIX A

PREVIOUS WORK

- 1965 United Reef Petroleum Ltd - G. Ross  
Line cutting, geology and magnetometer surveys,  
sampling, report.
- 1965 International Mine Services Ltd - J. Tindale  
Summary report of property and area qualifications.
- 1963 W. F. Brown  
Summary report of R. Benner and A. D. Hellens  
examinations.
- 1949 R. Benner  
Diamond drill supervision 2643', logged and sampled
- 1949 Geo-Technical Dev. Co. Ltd. - J. T. Candell  
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- 1949 A. D. Hellens  
Property examination and report.
- 1945 Murphy and Braider Option  
Reported limited shallow drilling, no records.
- 1942 O.D.M. Commentary - W. W. Moorhouse  
Volume LI, Part VI.
- 1927 Economic Geology Series - M. B. Hurst  
Series #4
- 1925 O.D.M. Report - E. W. Todd  
Volume XXXIV, Part III.
- 1920 O.D.M. Commentary - C. W. Knight
- 1900 O.D.M. Commentary - A. P. Coleman

APPENDIX B. (1965 SURFACE SAMPLING)Sampling Results:

<u>Location</u>	<u>Width</u>	<u>Type</u>	<u>Gold</u>	<u>Silver</u>	<u>Copper</u>
A. 200°N/360°E	17'	Channel Cross-section			
	1.0-3 (3')		.005	.18	
	2.3-8 (5')		.025	.52	.18
	3.8-12 (4')		.01	.12	
	4.12-17 (5')		.005	.08	
B. Line 0/350°E	10'	Chip Cross-section			
	1.0-5 (5')		trace	.03	
	2.5-10 (5')		.005	.07	
C. Line 4S/315E	5'	Chip Cross-section			
	1.0-5 (5')		.01	.35	
D. Line 8S/340E	5'	Chip Cross-section			
	1.0-5 (5')		.005	.12	
	5'	Chip Long-section			
	2.0-5 (5')		.025	.40	
E. Line 12S/400E	5'	Chip Cross-section			
	1.0-5 (5')		.025	.94	
	5'	Chip Cross-section			
	2.0-5 (5')		.115	4.29	
F. 430N/350E	5'	Chip Long-section			
	1.0-5 (5')		.005	.19	
G. Mill remnant	N/A	Grab	.21	2.19	
H. Dump	N/A	Spectrographic Analysis			

see page 9

# BELL-WHITE ANALYTICAL LABORATORIES LTD.

ASSAYERS AND ANALYTICAL CHEMISTS

## Certificate of Analysis

NO. 13514

DATE September 3, 1965

WE HAVE ASSAYED six SAMPLES OF Rock

RECEIVED September 2nd AND SUBMITTED BY G. Ross, Esq.,

International Mine Services. WITH THE FOLLOWING RESULTS:

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Oz. Silver</u>	<u>% Copper</u>	<u>Location</u>
1	Trace	0.03		B1
2	0.005	0.07		B2
3	0.025	0.52	0.18	A2
4	0.01	0.12		A3
5	0.005	0.08		A4
6	0.005	0.18		A1

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER 

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



# BELL-WHITE ANALYTICAL LABORATORIES LTD.

ASSAYERS AND ANALYTICAL CHEMISTS

## Certificate of Analysis

NO. 14884

DATE Sept. 25, 1965.

WE HAVE ASSAYED seven SAMPLES OF rock

RECEIVED Sept. 24th AND SUBMITTED BY Geo. Ross, Esq.,

International Mine Services WITH THE FOLLOWING RESULTS:

<u>Sample No.</u>	<u>Oz. Gold</u>	<u>Oz. Silver</u>	<u>Location</u>
1	0.005	0.12	D1
2	0.025	0.40	D2
3	0.025	0.94	E1
4	0.115	4.29	E2
5	0.01	0.35	C
6	0.005	0.19	F
7	0.21	2.19	G



IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

Per 



## X-RAY ASSAY LABORATORIES LIMITED

28 EGLINTON AVENUE WEST - TORONTO, ONTARIO - HUDSON 5-8907

## Certificate of Analysis

NO. 5805

TO: International Mines Services,  
8 King St. E. Room 1601,  
TORONTO, Ontario.

RECEIVED October 18, 1965

INVOICE NO. 7973

SAMPLE(S) OF rock

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Element	Sens#	Concentration #5805	Element	Sens#	Concentration #5805
Antimony	(4)	ND	Manganese	(1)	ND
Arsenic	(4)	IM	Mercury	(4)	ND
Beryllium	(2)	ND	Molybdenum	(3)	ND
Bismuth	(2)	ND	Nickel	(1)	FT
Cadmium	(4)	ND	Silver	(1)	FT
Cerium	(5)	ND	Tantalum	(5)	ND
Columbium	(4)	ND	Thorium	(3)	ND
Chromium	(4)	ND	Tin	(2)	ND
Cobalt	(3)	ND	Titanium	(2)	TL
Copper	(1)	T	Tungsten	(4)	ND
Gallium	(2)	FT	Uranium	(3)	ND
Germanium	(1)	ND	Vanadium	(2)	FT
Iron	(2)	M	Yttrium	(3)	ND
Lead	(2)	ND	Zinc	(4)	ND
Lithium	(4)	ND	Zirconium	(4)	ND

LEGEND

## Key To Symbols

H - 10% plus	L - 0.1-1%
MH - 5-15%	TL - 0.05-0.5%
M - 1-10%	T - 0.01-0.1%
IM - 0.5-5%	FT - 0.01% or less
	ND - Not detected

## \* Sensitivity

(limit of detection)

1- 0.0005-0.001%
2- 0.001-0.005%
3- 0.005- 0.01%
4- 0.01 - 0.05%
5- 0.05 - 0.1%

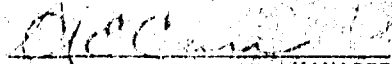
Note: Better sensitivities can be obtained with special techniques,  
if and when required.

X-RAY ASSAY LABORATORIES LIMITED

DATE

October 19, 1965

CERTIFIED BY

  
MANAGER

FINAL REPORTONTHE "BIG DAN" PROPERTY, STRATHY TWP. ONTARIOFORUNITED REEF PETROLEUMS LTDABSTRACTS

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Structure - Mineralization

The property consists of east north-east schistosity trends in a volcanic and meta volcanic complex. The property is located on the north limb of a synclinal structure. Topography is generally flat with numerous cedar swamps. The main feature is a north-south gossan capped fault shear representative of a tension fracture located 350' east of the western boundary of WD.271. The gossan capping has been traced over 1630' and sampled with negative results. The "Big Dan" showing rests in this andestic fault shear between coordinates 0+00/350E and 200N/350E. The latter is the location of an adit which exposed an open cut, extending 50' south. The original owners mined a 59' long, 1' thick massive arsenic vein.

Grid System

A base line was cut along the west boundary of WD.271. Thence to 400' north-south line intervals from the west-east corner of claim 55497. East-west grid lines were then cut and chained to 100' station intervals within the confines of the company's property.

Instrument

Sharpe Fluxgate MFl.

Readings

A base station was established at 3800' west on line 0+00 for corrections from commencement to completion of each survey. Detail readings were taken at 50' station intervals.

Interpretation

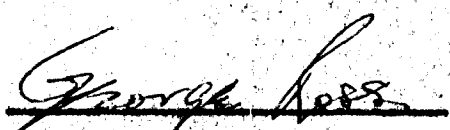
The frequency of readings established a background at 9,700 gammas with a build up to 10,000 gammas. A signal maximum reading of 13,340 high coincides with the geological environment of the "Big Dan" showing. This location has been previously drilled with negative results in 1949. Thus anomalous zones were assessed with readings of 1000, 2000 and 3000 gammas in excess of background. No other anomalous area was successfully delineated. Trace trends in claims 55494, 5 and 7 are evident. The previous resistivity survey does not, in conjunction with the magnetometer, suggest any additional anomalous zone of merit. A drill hole in WD. 262 some 800' north and 400' west of station 0+00 exposed narrow erratic widths of pyrrhotite with sparse chalcopryite in a quartz matrix in a volcanic host. This pyrrhotite would represent a response to magnetometer readings in the anomalous zone under discussion.

Conclusions

The assessment value of the property on geophysical grounds, exclusive of the electromagnetic survey, is negative. The lack of mineralized continuity, depth development, similar enrichment, or eschilon feature does not suggest any depth potential. The writer recommends that the claim be allowed to lapse following present assessment submissions.

November 9, 1965

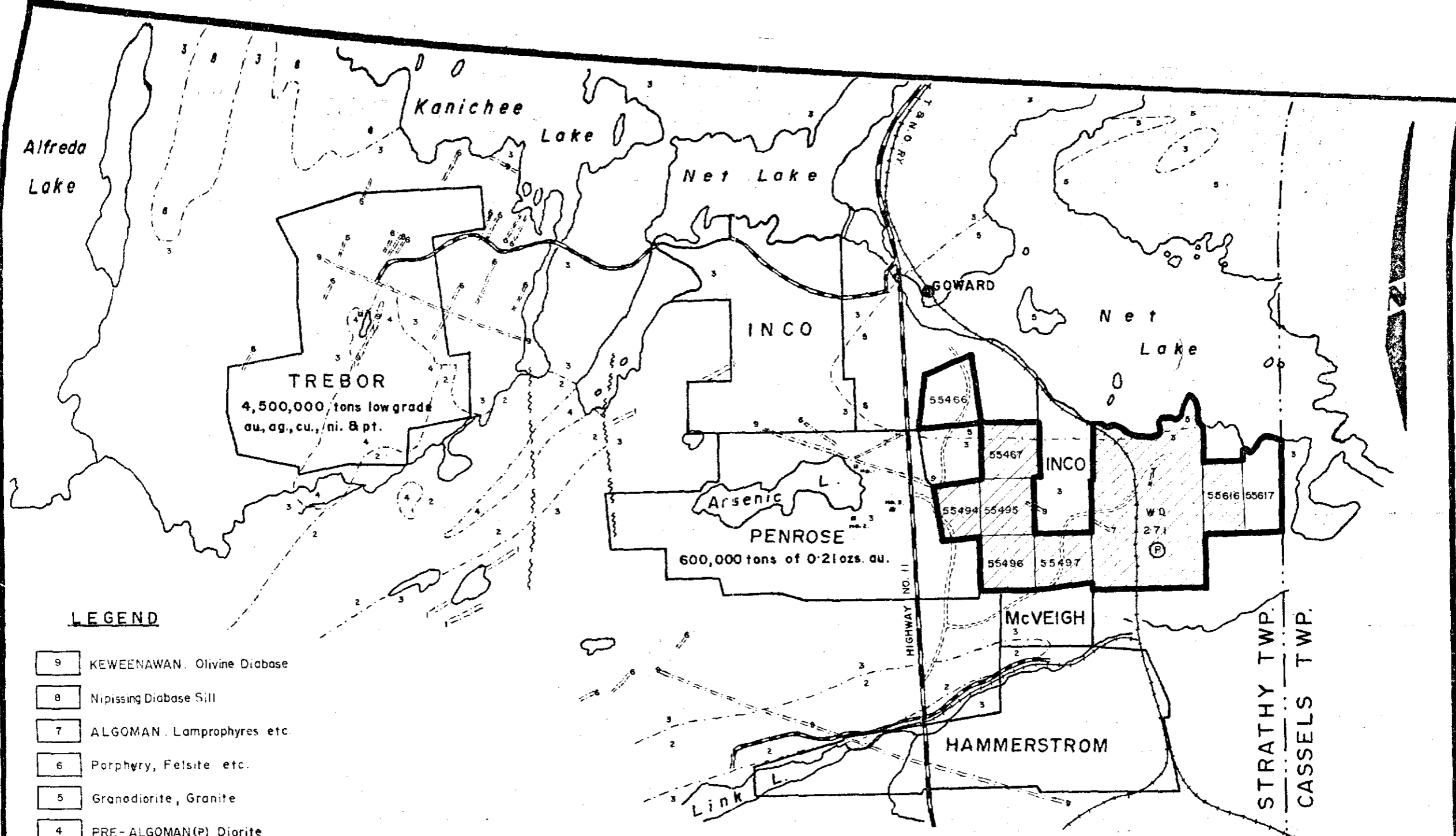
Respectfully submitted,

  
George Ross,  
Geologist.

APPENDIX A

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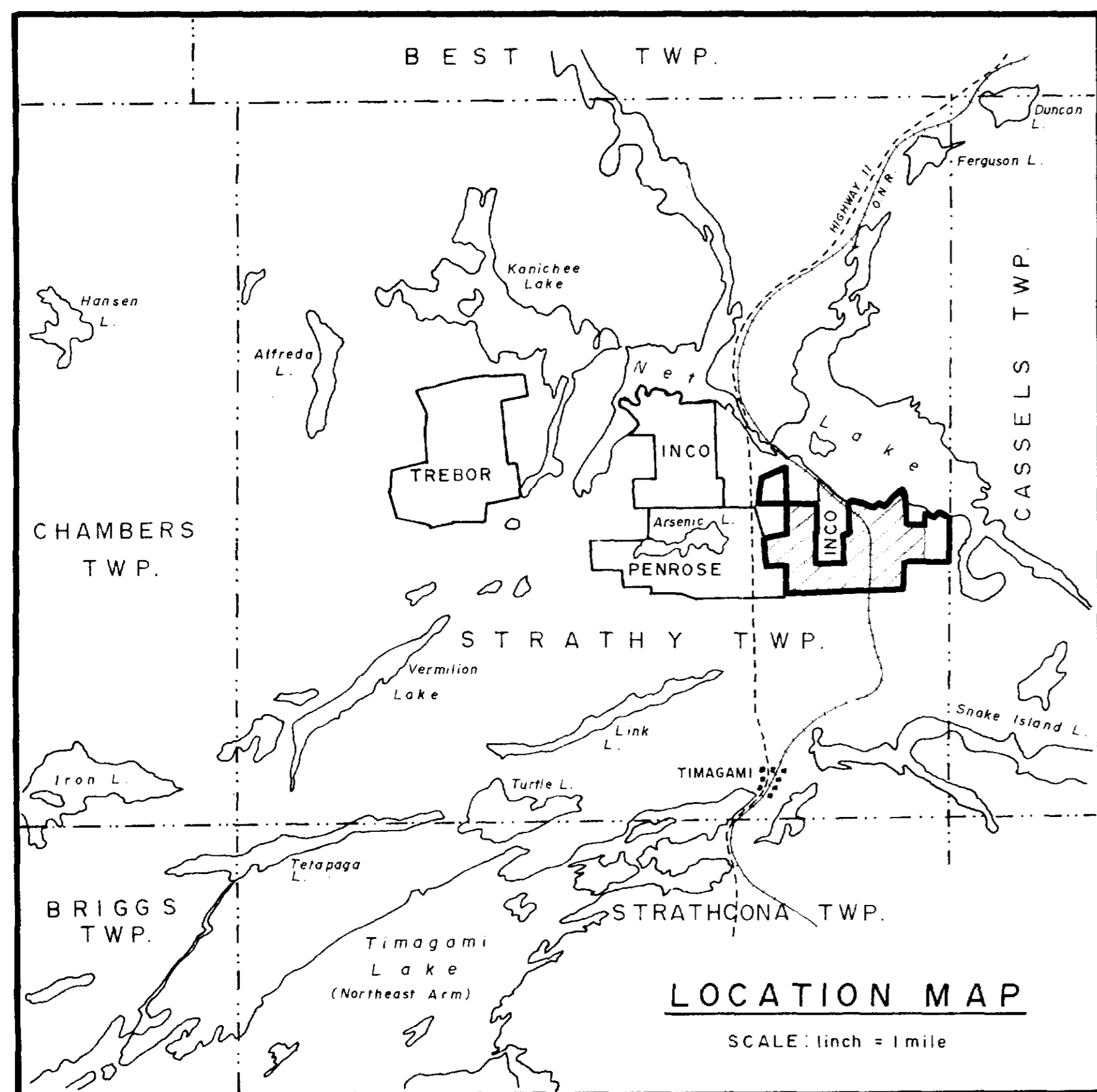
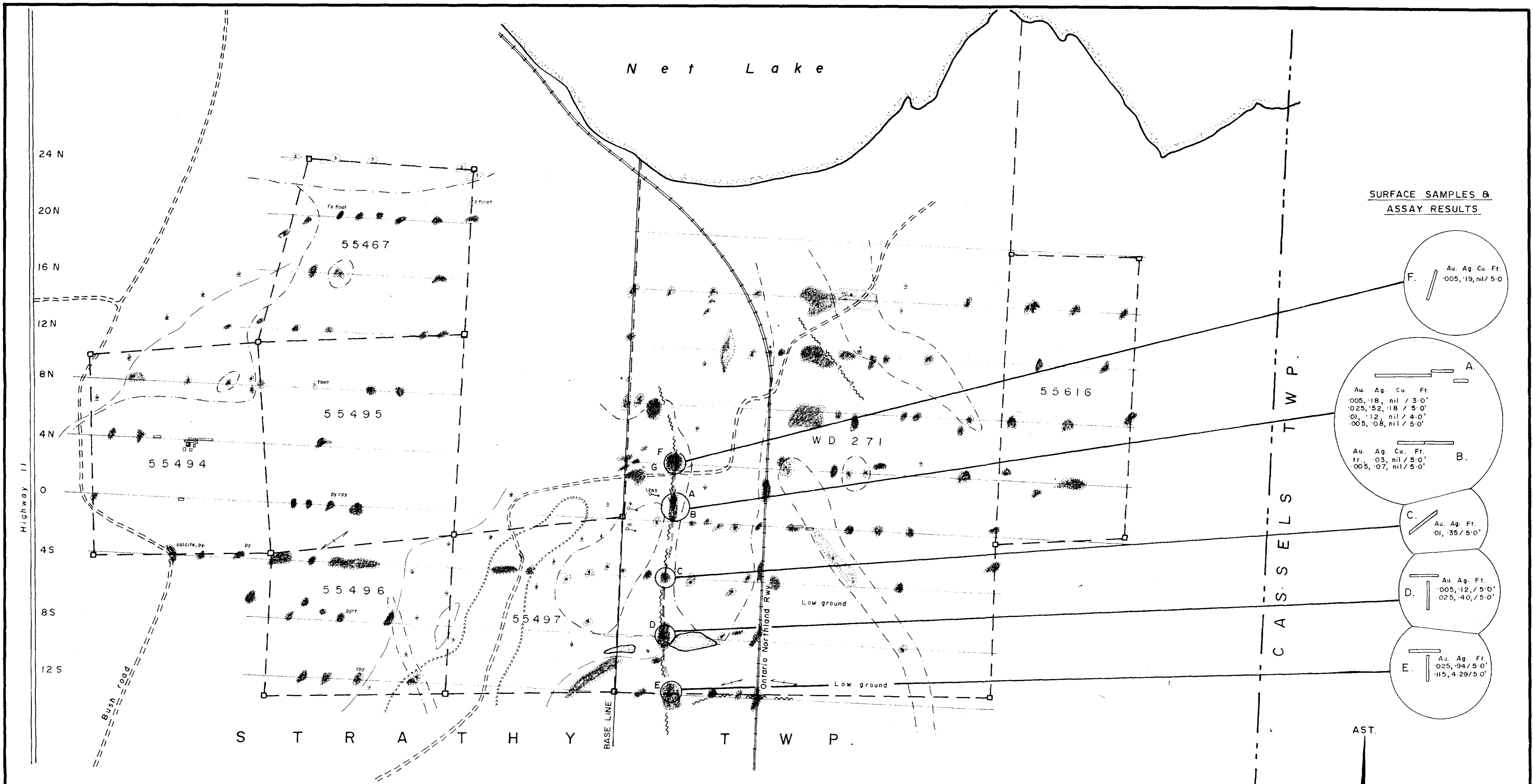


GENERAL GEOLOGY & LOCATION MAP  
**UNITED REEF PETROLEUMS LIMITED**  
**STRATHY TWP., ONTARIO**  
 SCALE: 1 inch to 2640 feet



31M04SW0107 63.1790 STRATHY

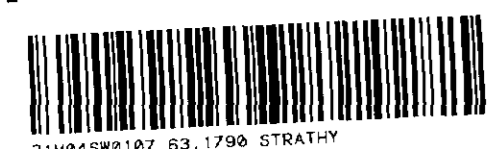
*George L. ...* INTS. 31M/4



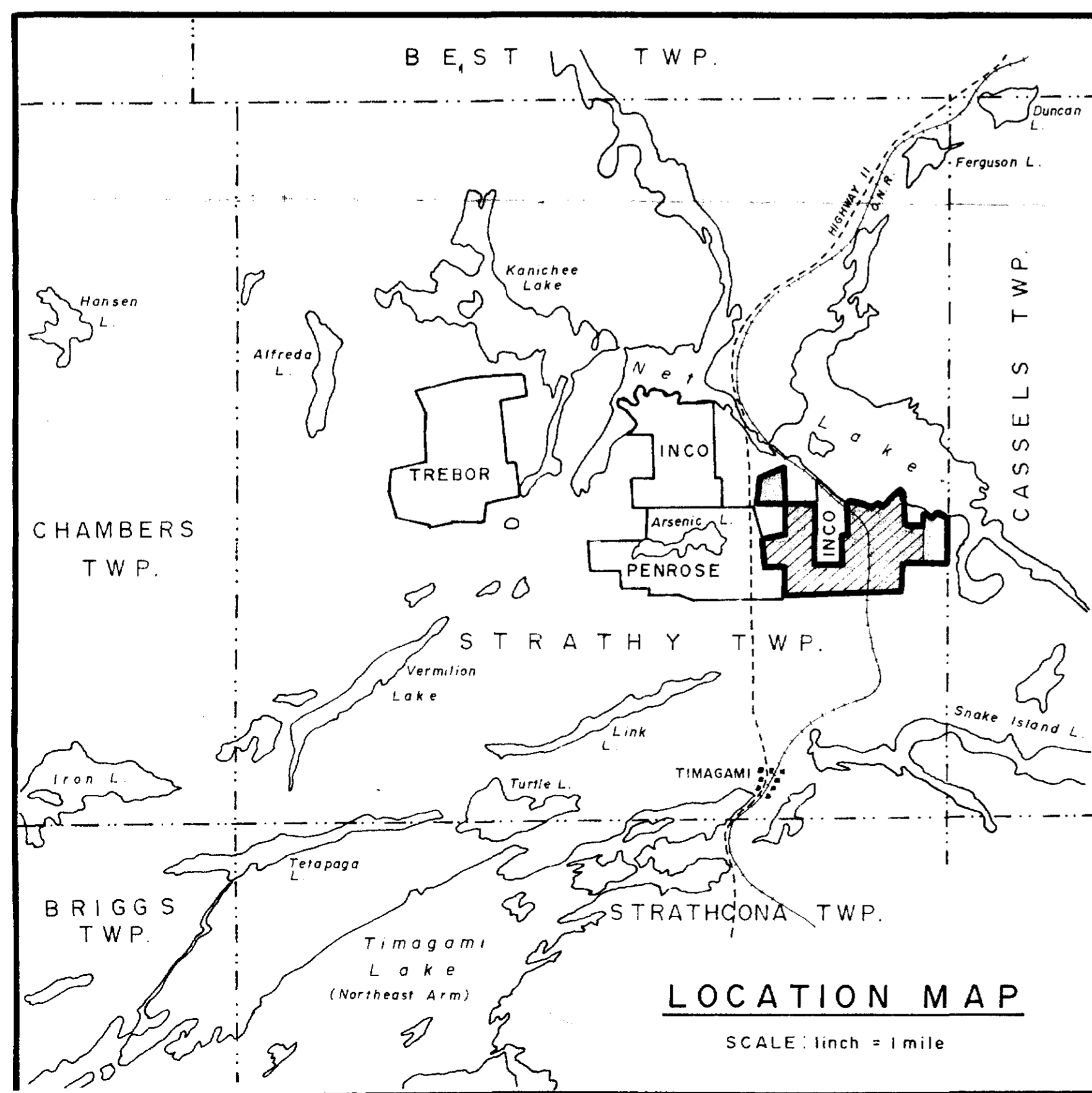
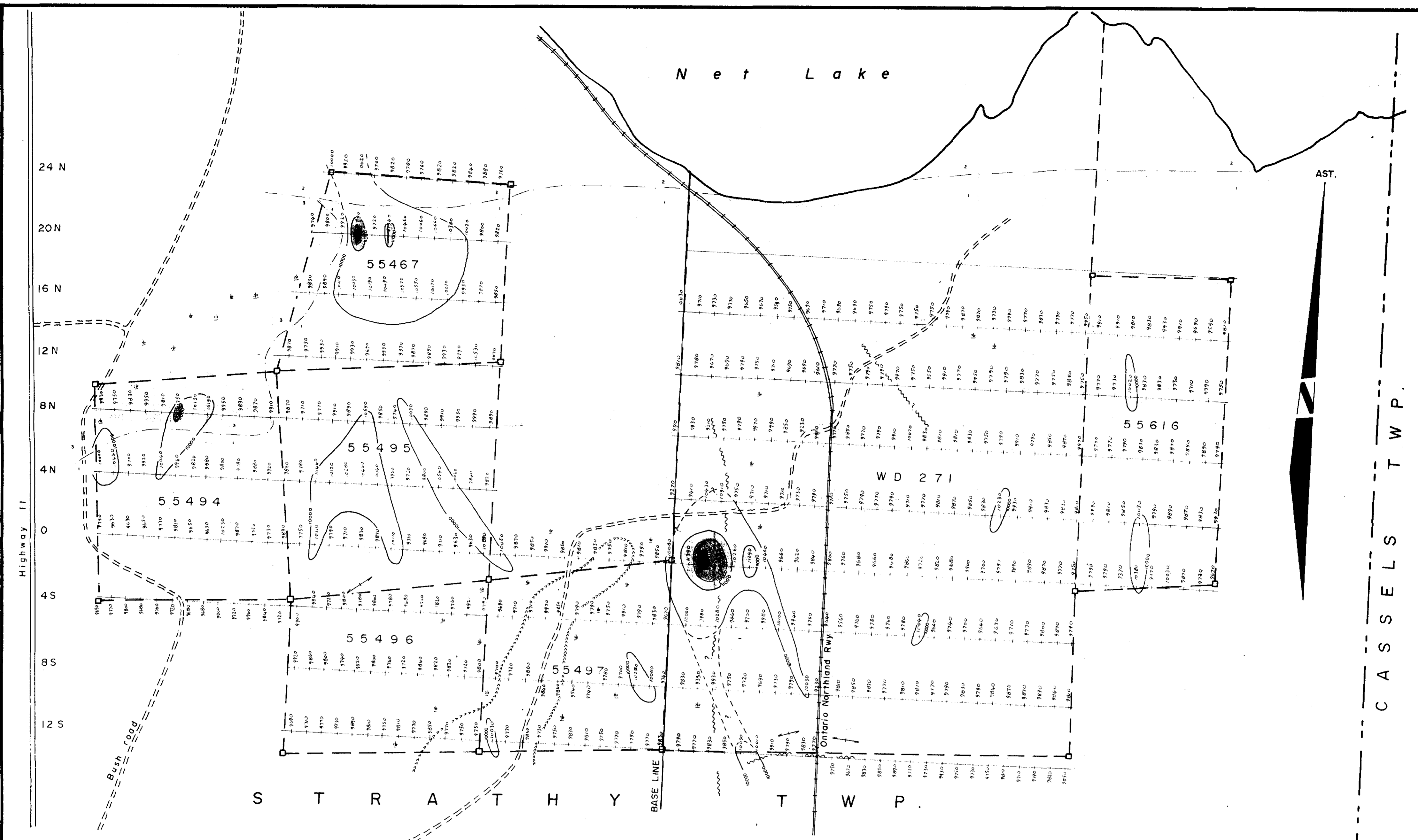
- LEGEND**
- PRECAMBRIAN**
- KEEWENAWAN**
    - 4 Nipissing diabase (Metavolcanic complex?)
  - ALGOMAN**
    - 3 Granite
    - 2 Quartz feldspar porphyry
  - KEEWATIN**
    - 1 Andesite (Amygdular, stony tufts, breccia, coarse flows) Acidic
- MINERALIZATION**
- Mineralized fractures in fault shear (gossan capped)
  - Schistosity (strike & dip)
  - Fault zone, assumed
  - Geological contact
  - Assumed geological contact
- Other Features:**
- Outcrop
  - Lake
  - Swamp
  - Esker
  - Adit
  - Prospect shaft
  - Prospect trench
  - Diamond drill collar
  - Claim posts
  - Open cut

GEOLOGICAL SURVEY  
 UNITED REEF PETROLEUMS LTD.  
 STRATHY TWP., ONTARIO  
 SCALE: 1" = 400'  
 DATE COMMENCED: AUG. 24, 1965  
 DATE COMPLETED: SEPT. 16, 1965

*George Lewis*







- LEGEND**
- Station with reading
  - Contour interval 1000 gammas
  - 3000+ gammas above background
  - 2000+ gammas above background
  - 1000+ gammas above background
  - Background 10,000 gammas
  - General Geology
  - Algonian granite
  - Keweenaw diabase (meta volcanic complex)
  - Keewatin volcanics
  - Geological contact
  - Fault zone
  - Schistosity
  - Swamp
  - Esker

MAGNETOMETER SURVEY  
 UNITED REEF PETROLEUMS LTD.  
 STRATHY TWP., ONTARIO  
 SCALE: 1" = 400'  
 DATE COMMENCED: SEPT. 4, 1965  
 DATE COMPLETED: SEPT. 10, 1965

*George R. ...*