

63-3914



410065W0001 63.3914 CASSIDY

010

REPORT OF WORK  
- by -  
CANADIAN LENCOURT MINES LIMITED  
A.E.C.B. EXPLORATION PERMIT MX6/69  
Period: Nov.19/68 - Oct. 15/69

- on -

91 - Claim Option - Township 8E  
Sault Ste. Marie Mining Division  
Ontario                      Canada.

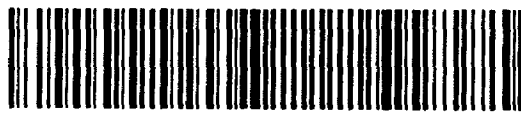
- submitted -

July 30, 1970

- by -

A. S. BAYNE & COMPANY  
Consulting Engineers

A. S. Bayne, P.Eng. - Ontario



41006SW0001 63.3914 CASSIDY

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S U B J E C T I N D E X

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S U P P L E M E N T S

Report to Canadian Lencourt Mines Limited -on- Examination & Sampling -of- Pits Nos. 1 and 2 - Claims Nos. S.S.M. 100505-08 - Township 8 E - Sault Ste Marie Mining Division, Ontario - by - A. S. Bayne & Company, Consulting Engineers - February 24, 1969. (with Appendices I, II & III attached).

-follows Page 3

M A P S

Preliminary Map showing Geology along the Mississagi Road (Ont. Dept. Mines P.R. 1950-6). Marked up by A. S. Bayne, P.Eng., to show locations of mining claims, March 24, 1969. (Scale 4 miles to an inch).

- see pocket

Sketch of "Canadian Lencourt Claims", A. S. Bayne, March 24, 1969. (Scale 500 feet = 1 inch)

- see pocket

July 30, 1970

Atomic Energy Control Board  
P.O. Box 1046,  
Ottawa, Canada

Attention: Mr. E.M. Nolan, Sr. Admin. Officer

Re: A.E.C.B. File No. 22-C-92; your letter July 22, 1970  
CANADIAN LENCOURT MINES LIMITED  
Report - Condition No. 1 - Expln. Permit #MX6/69

Gentlemen:

Your letter of July 22, 1970 to Mr. W.D. Paterson of Canadian Lencourt Mines Limited, has been referred to the undersigned.

Enclosed herewith you will find, in triplicate, our report of operations by Canadian Lencourt Mines Limited, during the period of its option on 91 mining claims in Township 8E, Sault Ste. Marie Mining Division, Ontario.

Yours very truly,

A.S. BAYNE & COMPANY



A. S. Bayne, P.Eng.  
for Canadian Lencourt Mines Limited

cc. Canadian Lencourt Mines Ltd.

Report of Work - 1969  
Canadian Lencourt Mines Ltd.

July 30, 1970  
Expln. Permit No. MX6/69.

#### MINING CLAIMS HOLDINGS

In 1969, Canadian Lencourt Mines Limited optioned 91 unpatented mining claims, in Township 8E, Sault Ste. Marie Mining Division, Ontario, Canada, from the late Jos. St. Onge and his group of associates called Gamma Ray Associates of Elliot Lake, Ontario.

The claims are contiguous forming a block comprising approximately 3640 acres in the southwest quarter of Township 8E. The claim numbers are SSM-100386 to 100417 inclusive; SSM-100857 to 100874 inclusive; SSM-100980 to 100997 inclusive; SSM-100482 to 100486 inclusive; SSM-100500 to 100517 inclusive.

#### LOCATION AND ACCESS

The claims straddle the Aubinadong River about 6 miles west of the Mississagi Road (Highway 129), about 40 miles south of Chapleau, or about 75 miles north of Thessalon on the Trans-Canada Highway (No. 17). Landings can be made in parts of the Aubinadong River by amphibious aircraft based at Elliot Lake, 70 miles to the southeast.

#### GEOLOGICAL REFERENCE

The area is largely unmapped since Dr. W.D. Harling traversed the Mississagi Road from Township 188-18 miles north of Thessalon- in 1949. (See Ont. Dept. Mines P.R. 1950-6).

All that is known to date is that the area is underlain, in part, by late Archaean granitic rocks, with a proliferation of pegmatite dykes, intruded by later diabase dykes thought to be of Keeweenawan age. The granites and pegmatites are mainly pink, from fine to coarse leuco-granitics, with fine biotite and hornblende.

Other report and map references are:-

Ont. Dept. Mines Geological Circular No. 6, June 1957.

Geol. Survey Can. Report 56-7.

Ont. Dept. Mines Map 2108 - Elliot Lake Sheet  
 " " " Map 1958B - Geol. Mineral Map.  
 " " " Map 2148 - Ont. Mineral Map.

Report of Work - 1969  
Canadian Lencourt Mines Ltd.

July 30, 1970  
Expln. Permit No. MX6/69

FIELD EXPLORATION IN 1968-69

In September 1968, uranium-bearing grab samples were obtained by Jos. St. Onge and his associates from pegmatite outcrops on the east side of the Aubinadong River. These outcrops were in the form of high pegmatitic granite ridges rising from 200 to 400 feet above the river. Assays from these selected samples ran up to 10.00 lb.  $U_3O_8$  per ton.

Canadian Lencourt Mines Limited, between November 19, 1968 and March 19, 1969 prospected the property by scintillometer and opened up two rock pits. Pit No. 1, 8' x 4' x 4', was on the south side of a granite bluff on SSM-100508 and Pit No. 2, 20' x 4' x 4' was on SSM-100505.

From December 11, 1968 to February 17, 1969, 19 samples totalling over 300 pounds weight were taken from these pits and analyzed by Technical Service Laboratories, Toronto.

This sampling is detailed in a "Report of Examination" dated February 24, 1969 by A.S. Bayne, P.Eng., enclosed herewith.

CONCLUSION

Following further examination in March, 1969, with reference to the sampling to February 24, 1969, it was concluded that the uranium mineral content in the showings was too sporadic and inconsistent to warrant further work. Canadian Lencourt Mines consequently relinquished its option on the claims.

Report of Work - 1969  
Canadian Lencourt Mines Ltd.

July 30, 1970  
Expln. Permit No. MX6/69

REFERENCES

In addition to the published geological references listed in the foregoing, the following are enclosed back of this report.

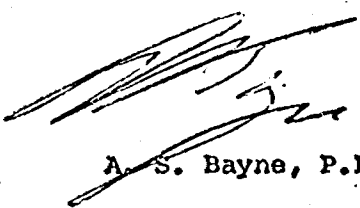
"Report to Canadian Lencourt Mines Limited on Examination and Sampling of Pits Nos. 1 and 2, Claims Nos. SSM-100505 and 100508, Township 8E, Sault Ste. Marie Mining Division, Ontario, Canada", dated February 24, 1969 by A.S. Bayne & Company, Consulting Engineers.

"Preliminary Map showing Geology along the Mississagi Road" (Ont. Dept. Mines P.R. 1950-6). Marked up to show locations of mining claims, March 24, 1969, by A.S. Bayne, P.Eng. (Scale 4 miles = 1 inch).

Sketch of "Canadian Lencourt Claims".  
Scale 500 feet = 1 inch. March 24, 1969.

Respectfully submitted,

A. S. BAYNE & COMPANY



A. S. Bayne, P.Eng.

PRIVATE & CONFIDENTIAL

ATTENTION: MR. WILLIAM PATERSON

REPORT  
-to-  
CANADIAN LENCOURT MINES LIMITED  
-on-  
EXAMINATION and SAMPLING  
-of-  
PITS Nos. 1 and 2  
  
CLAIMS NOS. SSM 100505-08  
  
TOWNSHIP 8E  
  
SAULT STE MARIE MINING DIVISION  
  
ONTARIO CANADA

Toronto, Canada  
February 24, 1969

A. S. Bayne & Company  
Consulting Engineers

PRIVATE & CONFIDENTIAL

February 24, 1969

Mr. William Patterson,  
CANADIAN LENCOURT MINES LIMITED  
Suite 1503, 330 Bay Street,  
TORONTO 1, Canada.

Report of Examination - Claims Nos.  
SSM 100505 & 100508 - Township 8E  
Sault Ste Marie Mining Division

Dear Mr. Patterson:

Further to our conversations relative to the above-noted uranium prospect, we can now report as follows:-

PRELIMINARY SAMPLES (Appendix I)

On December 11th and 12th, 1968, the writer proceeded to your Company's camp with Mr. Paul Faubert and Jos. Beaulieu and sampled the surface rock pits designated as Pit No. 1 and Pit No. 2 in Appendix I hereof.

The pits were scanned by scintillometer and three bulky samples, totalling 87-1/2 pounds weight, were broken from the respective rock faces. These were submitted to Sudbury Assay Office for analysis as to uranium oxide content. In addition, 10 samples, totalling 142 pounds in weight, taken by Paul Faubert from the same pits, were at the same time submitted for analysis.

The details relative to the above 13 samples are recorded in Appendix I to this report.

Upon receipt of the assay reports, it was the writer's opinion that the low uranium content found in the samples did not properly support the degree of radioactivity present in the rock faces from which they were taken, even allowing for the 'mass effect' for the following reasons:-

1. The openings blasted were shallow, from 3 to 5 feet deep, and had been blasted more than 24 hours before they were scanned and sampled, thus eliminating dusty atmosphere as a source of radiation.
2. The pre-blast radioactivity count was 3 times normal background and had increased to 15 times normal background at the new post-blast face only 3 to 5 feet deep.



February 24, 1969

3. From the above, a uranium oxide content of at least from 0.50 to 0.75 pounds per ton was expected by the writer from some of the samples.
4. The uranium minerals occur in a large outcrop of pegmatitic granite and syenite, comprised of medium to coarsely crystalline red feldspars with some white feldspar and quartz. The uranium minerals, comprised of uraninite, uranothorite and related radioactive minerals, occur in chloritized fractures in the pegmatite. The attitude of the pegmatitic bodies appears to be vertical, according to the main shears or fractures, the latter frequently cut by numerous cross-fractures.

Although uranothorite has not been identified, its presence is suspected from other experience in similar formations in the area. However, the same experience in which the thorium content was found negligible led the writer to the opinion that this did not wholly account for the apparent discrepancy between the radioactivity and uranium oxide content found in Lencourt's samples taken on December 12, 1968. (See Appendix I).

5. The mining was done using a small portable rock drill with short holes, resulting in the presence of numerous 'open cracks' in the rock faces, from which the friable radioactive minerals could readily have been lost. As our samples were taken to represent the existing face, it was considered very possible that the samples reported in Appendix I did not contain the possible values lost in 'fines'.
6. Not having the equipment or time to remedy this on December 12, 1968, the writer advised Mr. Faubert of the above possibilities, and that this may be improved by reblasting the faces to greater depth by slashing with longer holes; also by levelling out the ground below the faces so that a ground sheet can be put down to catch the fines during sampling; also to scale the rock face 'tight' before sampling.

#### SECOND LOT OF SAMPLES (Appendix II & III)

Accordingly, Mr. Faubert blasted the pits deeper and took further samples, as detailed in Appendix II hereof, and brought them to Toronto. On February 4th, 1969, we submitted these six samples totalling 150 pounds in weight, for assay.

In order to eliminate the risk of losing valuable fines from the samples in crushing and splitting the samples for assay, the writer instructed Technical Service Laboratories to separate each sample into two fractions of maximum and minimum radioactivity, to weigh each fraction and assay each separately.

The details of the assay results from the six samples are recorded in Appendix II and Appendix III hereof.

February 24, 1969

CONCLUSIONS & RECOMMENDATIONS

1. The six samples recorded in Appendix II and III contained up to 1.006 pounds of uranium oxide per ton. The average uranium content of the best three samples was 0.647 pounds  $U_3O_8$  per ton. Average assay of the six samples was 0.395 pounds  $U_3O_8$  per ton.
2. The foregoing facts relative to this limited sampling experience on your property proves the writer's misgivings as to the original sampling, and emphasizes the importance of mining well below the surface fracture zone which may be impoverished by leaching and weathering. The importance of taking all possible precautions to recover all the fines in sampling is also well attested.
3. It is the writer's opinion that the geological occurrence of uranium minerals on your Company's property shows very fair possibilities of yielding large, cheaply mineable deposits of uranium oxide with a content averaging 0.50 pounds per ton or better, which, according to the price of \$10.00 per pound (or better), estimated by eminent authorities for the near future, would be profitable where widths are great enough to permit commencing production from surface open-pit mining.
4. Too much reliance should not be placed on sampling by core drilling, as it is often difficult to obtain representative samples by this method. Rather, your operation should initially emphasize large-scale bulk sampling, with samples of from one to 25 tons submitted to a competent laboratory for sampling and assaying. Close attention must also be paid to the handling of bulk samples in this case, to guard against loss of the 'fines' fraction.
5. Following the delineation of a zone by bulk sampling, the diamond drill can be used for orientation of geological structure, at which time drill-core assays may be intelligently related to the values obtained in bulk sampling from the same block drilled.
6. A useful tool for cheap sampling is a percussion-type rock drill which drills 'dry' and is equipped to recover all the cuttings from the hole. Properly operated, this provides a more representative sample than diamond-drill core.

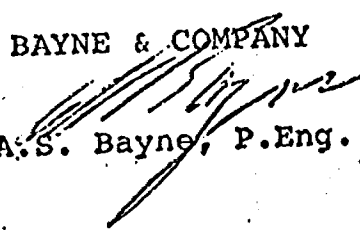

February 24, 1969

CONCLUSIONS & RECOMMENDATIONS - continued

7. Although the writer omitted to assay for thorium in the case of the above samples, having sufficient data on hand to save the expense for this particular purpose, it is strongly recommended that this be carried out frequently during any sampling program of radioactive minerals.

Respectfully submitted,

A.S. BAYNE & COMPANY

  
per A.S. Bayne, P.Eng. 

CANADIAN LENCOURT MINES LIMITED - ASSAY RESULTS OF SAMPLES


TAKEN & SUBMITTED FOR ASSAY FROM TOWNSHIP 8-E PROPERTY - by A. S. BAYNE, P.Eng.  
December 12, 1968

Sample No.	Location of Sampling Site	Radioactivity of		Sample Weight (pounds)	*U <sub>3</sub> O <sub>8</sub> Content (pounds/ton)
		Rock	Face		
283***	Pit No. 2, approx. 500 ft. west of Post #1, Claim SSM 100505. (Blasted 20' long by 4' deep into side of high outcrop.)	5 to 7	x B.G.**	26	0.20(-)
284***	- ditto-	7	x B.G.	32	0.20(-)
285***	Pit No. 1, approx. 200 ft. west of Post #2, Claim SSM 100508. (Blasted 6' long by 5' deep into side of high outcrop.)	13 to 15	x B.G.	27½	0.30
1 (879)	Green Tag - Reported by Paul Faubert taken from Pits Nos. 1 & 2.			4½	0.40
1A	White Tag - ditto-			4	0.30
2 (880)	Green Tag "			3½	0.40
2A	White Tag "			5½	0.40
3 (881)	Green Tag "			7-¾	0.30
1 (882)	Green Tag "			10½	0.20
2 (883)	Green Tag "			9½	0.20(-)
3	White Tag "			9	0.20
3 (884)	Green Tag "			10	0.20(-)
4 (886)	Green Tag "			10	0.20

Note:- \* Chemical Assay by Sudbury Assay Office. Reports to A. S. Bayne, Dec. 20/68 and Dec. 30/68 - copies turned over to Paul Faubert.

\*\* Expressed as (Scintrex Model BGS-1 Serial 805110, Sharpe's) counts per second x (times) normal background count of 30 counts per second.

\*\*\* Tags returned to Mr. Paul Faubert.

  
 A. S. Bayne, P.Eng.  
 February 24, 1969

## CANADIAN LENCOURT MINES LTD.

SAMPLES BY PAUL FAUBERT - TOWNSHIP 8E

SEE REPORT NO. T-14160, TECHNICAL SERVICE LABORATORIES

CALCULATION OF WEIGHTED AVERAGE U<sub>3</sub>O<sub>8</sub>

SAMPLE FRACTION NO.	FRACTION WEIGHT (Pounds)	U <sub>3</sub> O <sub>8</sub> %	Assay lb./ton	Lb./Ton x W.	WEIGHTED AVERAGE POUNDS PER TON U <sub>3</sub> O <sub>8</sub>
1	28.000	0.003*	0.060	1.6800	
F1	<u>0.569</u>	0.035	0.700	<u>0.3983</u>	
a. TOTAL	28.569			2.0783	<u>0.073</u>
2	30.000	0.003	0.060	1.8000	
F2	<u>1,105</u>	0.184	3.680	<u>4.0664</u>	
b. TOTAL	31.105			5.8664	<u>0.189</u>
3	19.500	0.003	0.060	1.1700	
F3	<u>0.573</u>	0.159	3.180	<u>1.8221</u>	
c. TOTAL	20.073			2.9921	<u>0.122</u>
898	20.000	0.003	0.060	1.1200	
F898	<u>0.767</u>	0.488	9.760	<u>7.4859</u>	
d. TOTAL	20.767			8.6059	<u>0.414</u>
899	28.000	0.003	0.060	1.6800	
F899	<u>0.981</u>	1.400	28.000	<u>27.4680</u>	
e. TOTAL	28.981			29.1480	<u>1.006</u>
900	20.000	0.003	0.060	1.1200	
F900	<u>0.827</u>	0.524	10.480	<u>8.6670</u>	
f. TOTAL	20.827			10.7870	<u>0.697</u>
TOTAL (d. e. f.)	70,575			48.5409	<u>0.647</u>
GRAND TOTAL (a.b.c.d.e.f.)	150.322			59.4777	<u>0.395</u>

*A. S. Bayne*  
A. S. Bayne, P.Eng.  
February 17, 1969

\*Note: Where assays reported 0.005 (-), it is assumed, for purposes of this calculation, that the uranium oxide content of the respective samples is 0.003% U<sub>3</sub>O<sub>8</sub>

TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

355 KING ST. W., TORONTO 2B, ONT., CANADA

TELEPHONE: 362-4248 - AREA 416  
TELEX: 0229302  
CABLE ADDRESS - TECSERV TORONTO

Representing ...  
WADTLER RESEARCH  
ULTRA CARBON CORPORATION  
METALS RESEARCH LIMITED

CERTIFICATE OF ANALYSIS

COPY

SAMPLE(S) FROM Canadian Lencourt Mines Ltd.,  
Suite 1503,  
330 Bay Street,  
Toronto, Ontario.

REPORT NO.  
T-14160

SAMPLE(S) OF  
ROCK

Attn: Mr. Patterson

cc: Mr. Bayne

Sample No.	*Weight of Sample	Uranium Oxide (U <sub>3</sub> O <sub>8</sub> ) %	Convert gram weight to pounds
1	28 lb.	< 0.005	
F 1	258 grams	0.035	0.569 lb.
2	30 lb.	< 0.005	
F 2	501 grams	0.184	1.105 lb.
3	19½ lb.	< 0.005	
F 3	260 grams	0.159	0.573 lb.
898	20 lb.	< 0.005	
F 898	348 grams	0.488	0.767 lb.
899	28 lb.	< 0.005	
F 899	445 grams	1.400	0.981 lb.
900	20 lb.	< 0.005	
F 900	375 grams	0.524	0.827 lb.

Note: 2.2046 kg. = 1 pound (avoir).

Weights reported to A. S. Bayne by telephone from T.S.L., Mrs. Rudnick, February 17, 1969.

F is the fraction in which the fine portion of sample as well as the most radioactive pieces are combined together.

and Rejects discarded after two months

Feb. 13/69 Feb. 17/69

SIGNED

*A. S. Bayne*



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REFERENCES:-

Claim Plans, Ont. I

Plan No.

(unnumbered)

M1429

M1937

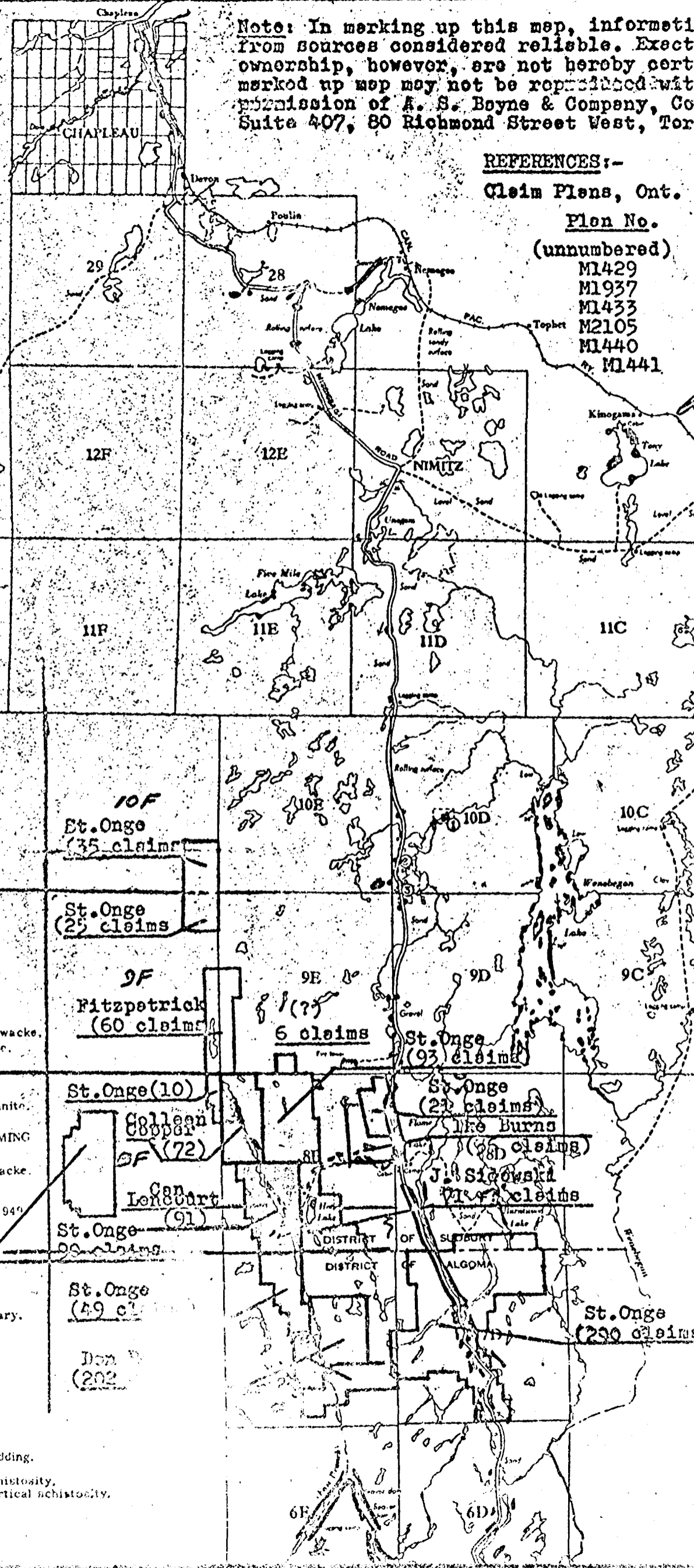
M1433

M2105

M1440

et. M1441

North Astronomic



LEGEND

KEWEENAWAN

Diabase dikes.

Granite.

HURONIAN

Conglomerate, greywacke, crystalline limestone.

ALGOMAN

Granite gneiss, granite.

KEEWATIN and TEMISKAMING

Basic lavas, greywacke.

Geology by W.D. Harding, 1949

SYMBOLS

Swamp, with boundary.

Road.

Trail or portage.

Glacial striae.

Strike and dip of bedding.

Strike and dip of schistosity.  
Strike and dip of vertical schistosity.

Building.

St. Onge (91)  
99 claims

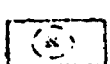
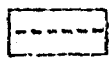
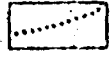
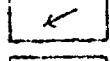
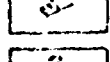
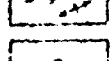
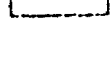

DISTRICT OF SUDBURY  
DISTRICT OF ALGOMA

St. Onge  
(49 claims)

St. Onge  
(200 claims)

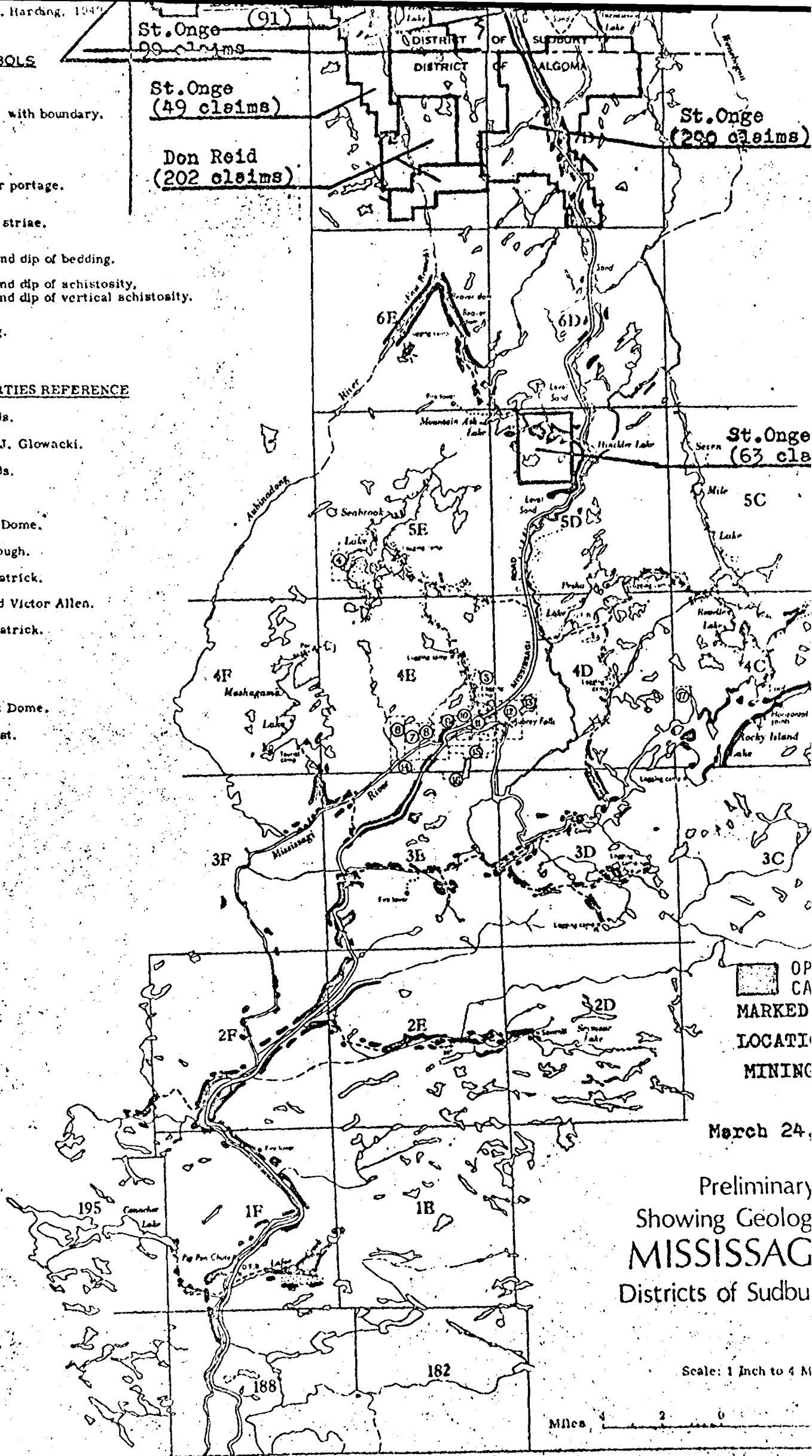
Don Reid  
(202 claims)

**SYMBOLS**

-  Camp, with boundary.
-  Road.
-  Trail or portage.
-  Glacial striae.
-  Strike and dip of bedding.
-  Strike and dip of schistosity.
-  Strike and dip of vertical schistosity.
-  Building.

**MINING PROPERTIES REFERENCE**

- 1 Frank Edwards.
- 2 K. Kram and J. Glowacki.
- 3 Frank Edwards.
- 4 H.F. Nagel.
- 5 Preston East Dome.
- 6 Peter McDonough.
- 7 Vincent Fitzpatrick.
- 8 J.M. Robb and Victor Allen.
- 9 Vincent Fitzpatrick.
- 10 L. Purdy.
- 11 Park.
- 12 Preston East Dome.
- 13 Hugh Dewhirst.
- 14 O. Bones.
- 15 R.A. Coutts.
- 16 F. Carroll.
- 17 Emil Morin.



St. Onge  
(63 cla)

5C

3C

OP  
CA  
MARKED  
LOCATI  
MINING

March 24,

Preliminary  
Showing Geolog  
**MISSISSAGI**  
Districts of Sudbu

Scale: 1 Inch to 4 M

Miles 0 2 4



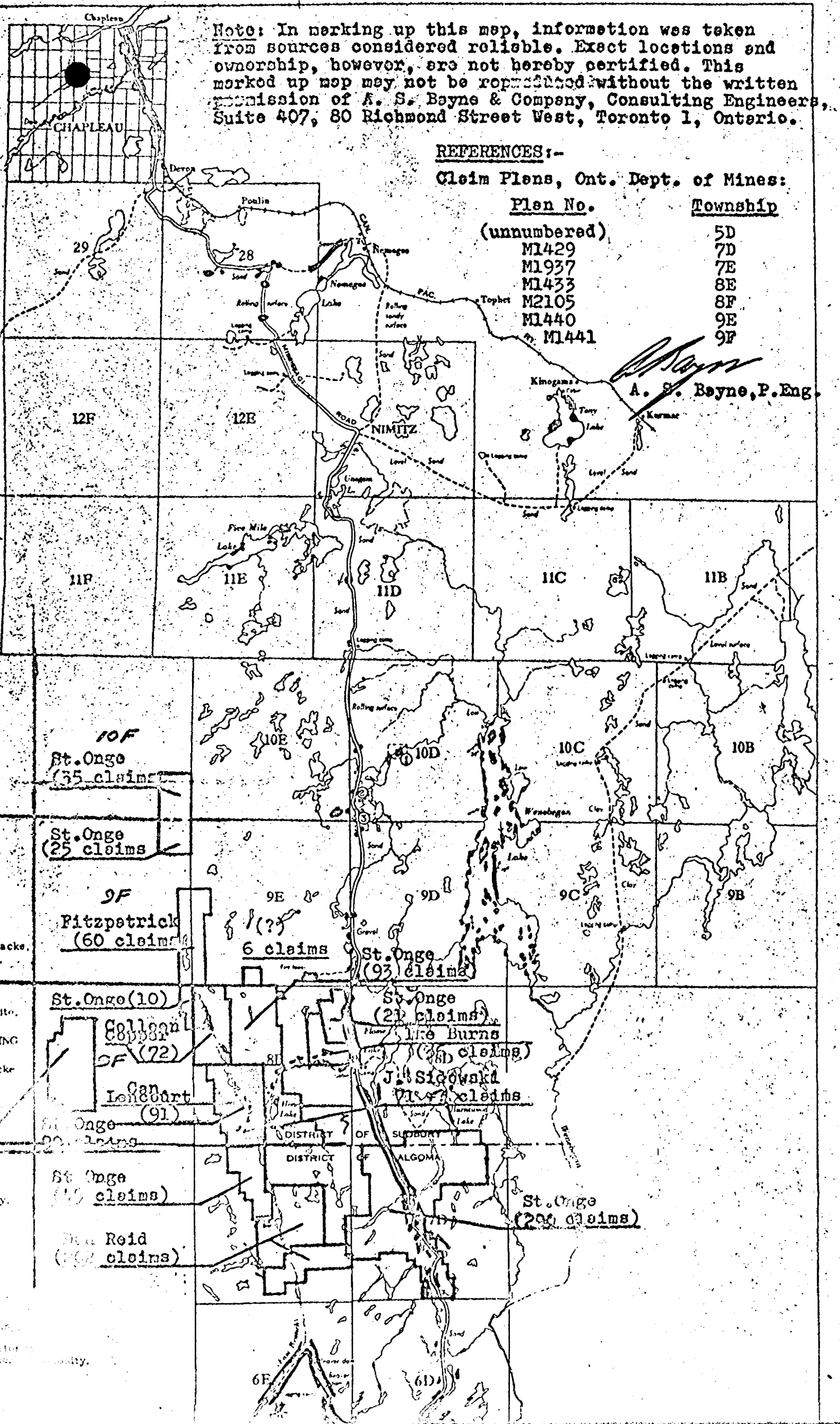
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**REFERENCES:-**

Claim Plans, Ont. Dept. of Mines:

Plan No.	Township
(unnumbered)	5D
M1429	7D
M1937	7E
M1433	8E
M2105	8F
M1440	9E
M1441	9F

*A. S. Bayne*  
**A. S. Bayne, P. Eng.**



St. Onge  
99 claims

DISTRICT OF SUDBURY  
DISTRICT OF ALGOMA

St. Onge  
(49 claims)

Don Reid  
(202 claims)

St. Onge  
(200 claims)

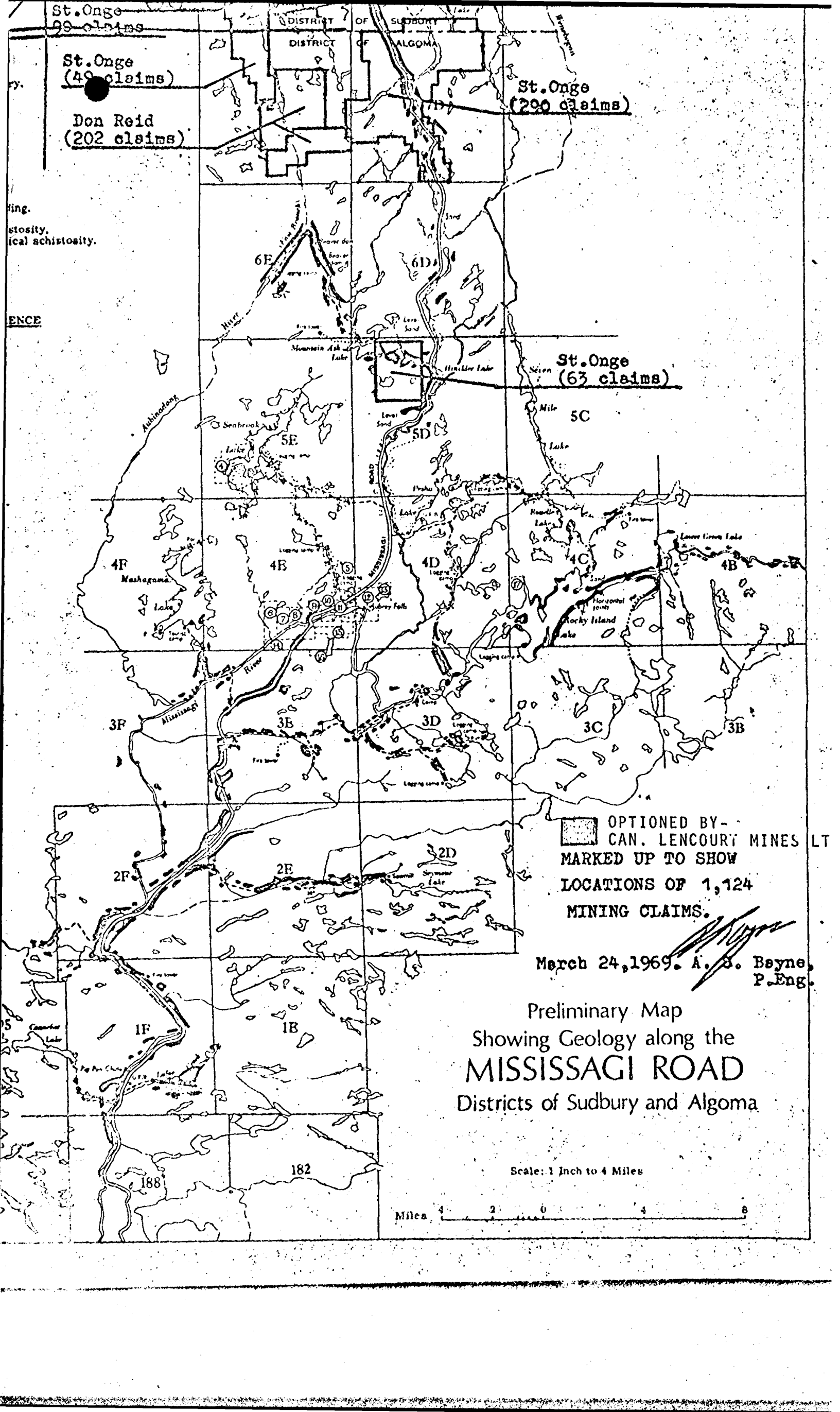
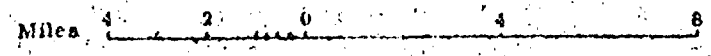
St. Onge  
(63 claims)

OPTIONED BY -  
CAN. LENCOURT MINES LTD  
MARKED UP TO SHOW  
LOCATIONS OF 1,124  
MINING CLAIMS.

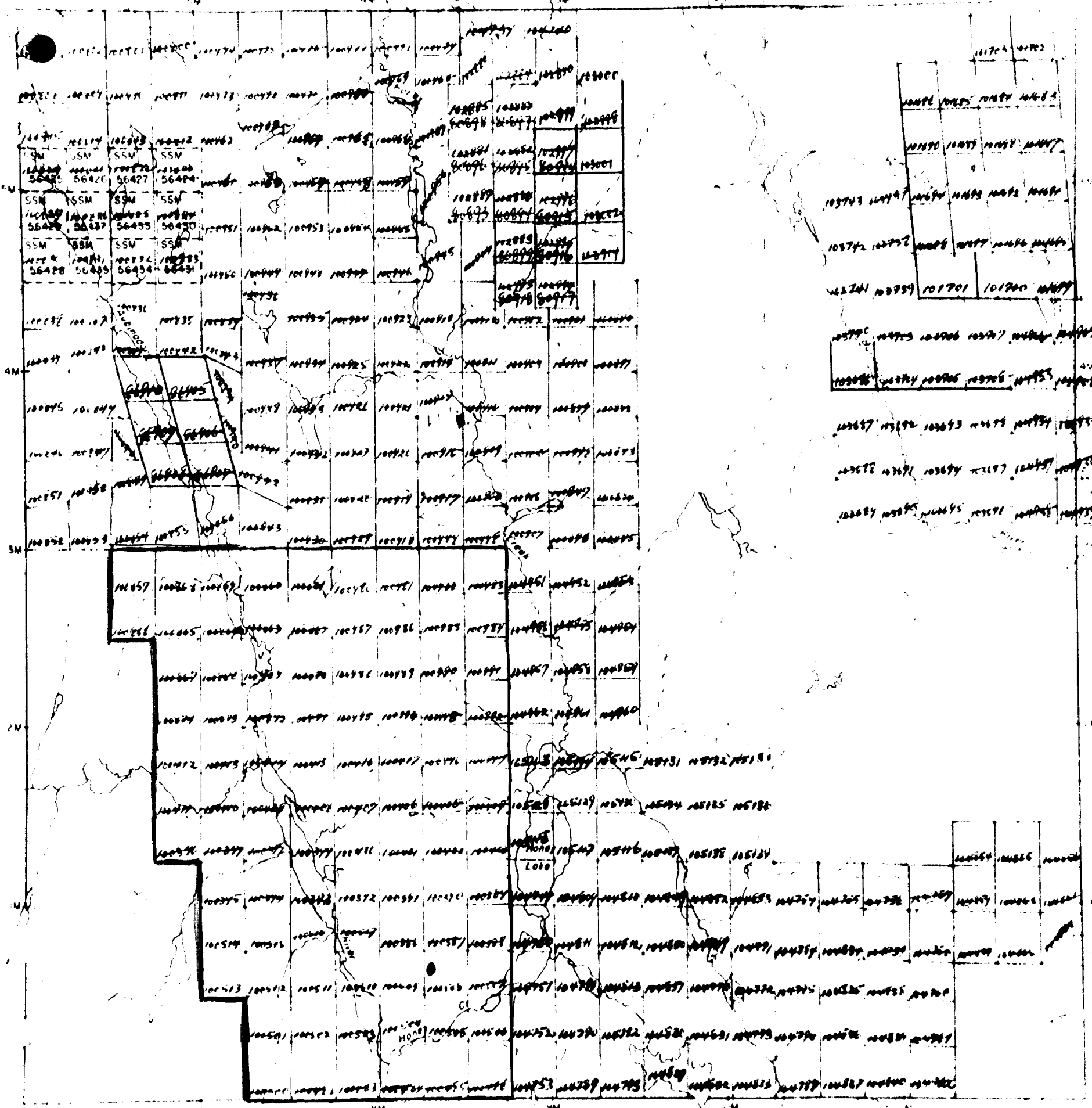
March 24, 1969. A. S. Beyne,  
P. Eng.

Preliminary Map  
Showing Geology along the  
**MISSISSAGI ROAD**  
Districts of Sudbury and Algoma

Scale: 1 Inch to 4 Miles



Twp. 8F



Twp. 7E

CASSIDY TWP.  
M. 1433

Twp. 8D