

010

Assessment Report

<u>of</u>

Geochemical Survey

East Thorneloe Property

Thorneloe Township, Porcupine Mining Division, Ontario

October, 1981 Toronto, Ontario D.R. Pyke, Ph.D.

tyke

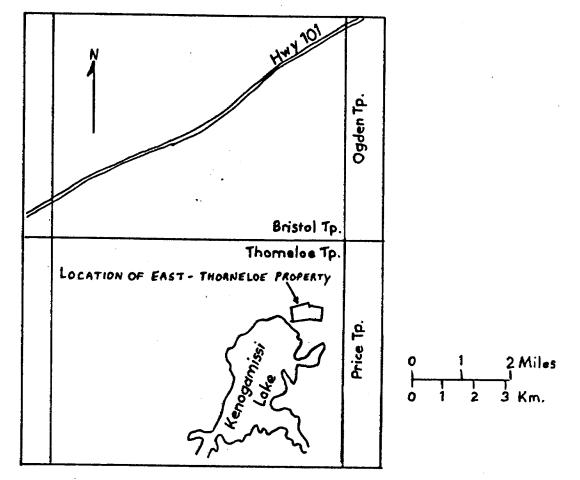


Figure 1 - LOCATION OF EAST - THORNELOE PROPERTY

Introduction

This report covers a geochemical survey conducted on three claims in northeast Thorneloe Township, near the north end of Kenogamissi Lake (Figure 1), about 12 miles southwest of Timmins. The claim numbers are listed below:

Claim Numbers

| ₽ 568445 | Thorneloe | Township |
|----------|-----------|----------|
| P 568444 | Thorneloe | Township |
| ₽ 596000 | Thorneloe | Township |

D.R. Pyke, of 157 Burbank Drive, Willowdale, Ontario is the current holder of the claim group.

Access

An all-weather gravel road from the City of Timmins to the north end of Kenogamissi Lake provides easy access to the property. The property lies immediately east of the Wawiatin power installation on the Mattagami River.

Previous Work

The north Thorneloe area was first mapped by A.G. Burrows (1911,1912), as part of a geological investigation of the general Porcupine gold area. In 1937, the area was remapped by Harding and Berry (1939) at a scale of 1 inch to 1 mile, as part of a reconnaissance survey of the Keefer-Eldorado area.

There are no extant records available to this writer concerning the nature and extent of any exploration work done on the ground currently held by D.R. Pyke. Previous exploration work in the area has largely been confined to an area immediately west of the Mattagami River. Here, much of the work was concentrated on a gold showing (Thibeault property) where two shallow shafts were sunk in the 1920's and 1930's (Harding and Berry, 1939).

Topography and Drainage

The claims on which the work was performed are relatively flat lying, yet locally have relief of 40 to 50 feet caused by a deeply incised east to northeast trending stream channel. The area is wooded, predominantly with jack pine and white pine and lesser poplar and birch.

Drainage on the property is good, with no swampy areas occurring on the claims surveyed.

Glacial Geology.

The property is located in an ancient glacial river valley now occupied by the Mattagami River. The sediments consist largely of glaciofluvial sands lying directly on bedrock.

Property Geology

The claims are within an area of steeply dipping, north facing sedimentary rocks (predominantly interbedded greywackes and conglomerates). The sediments lie immediately north of a steeply dipping volcanic-sedimentary contact trending approximately N80°E (Figure 2).

The main zone of previous exploration in the area has been west of the Mattagami River and several hundred feet north of the

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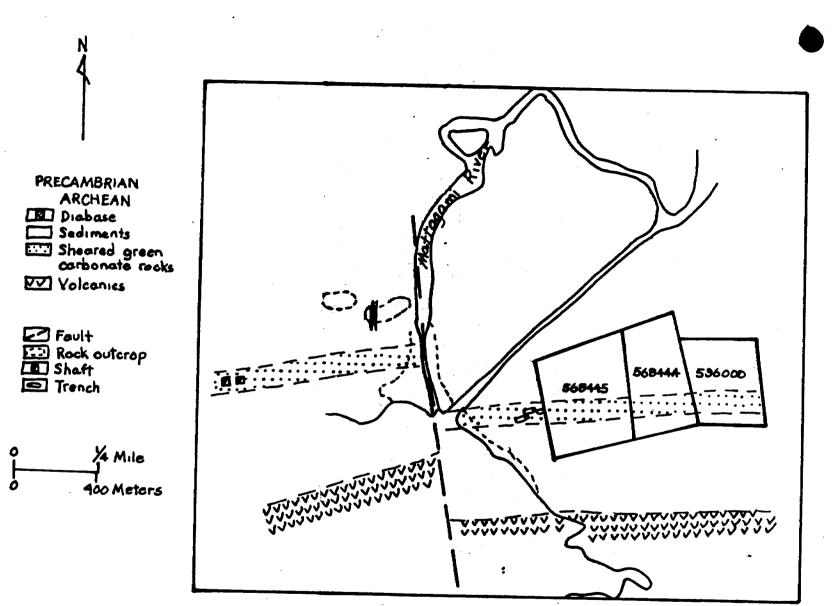


Figure 2 - General geology in vicinity of Thorneloc cost property.

Volcanic-sedimentary contact, where the sediments have been extensively carbonatized and locally pyritized. Green, fuchsiticbearing carbonate is common and some good, but erratic gold values have been reported from quartz stringers within this zone, particularly the former Thibeault showing. This carbonate-rich zone within the sediments extends eastward from the Thibeault showing through the claims in the Thorneloe-east property of this report.

Present Survey

The survey, completed by D.R. Pyke and Associates Inc., was carried out on August 11, 1980. The work was conducted by D.R. Pyke and N. Cozens (presently residing in Saskatoon, Saskatchewan).

The survey entailed sampling of the humus (A^{O}) horizon. This horizon was relatively thin over much of the property, generally being less than an inch in thickness, and locally consisting of only recently shed pine needles with little or no true humus development. At the base of some pine trees, up to 6 inches of humus is developed.

Sample location sites are plotted on Map A accompanying this report. Samples were collected at 100 foot intervals along northerly trending lines. A total of 71 samples were obtained from the property. The samples were subsequently hang-dried and submitted to X-Ray Assay Laboratories for geochemical analysis for gold (parts per billion) and arsenic (parts per million).

Survey Results

The survey results are plotted on Maps B and C accompanying this report and are also displayed in Appendix A. The survey method is described in Appendix B.

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Gold Content in Humus - Map B

Background gold concentrations for humus generally appear to be less than 10 parts per billion in the general Timmins area. This level is based on a number of geochemical humus surveys conducted by D.R. Pyke and Associates in the Timmins area. Values of 10 parts per billion or greater are considered anomalous, but it is recognized that there is no one absolute concentration that can be chosen as a threshold value to anomalous conditions for any particular area, or property for this matter.

The survey outlines four (4) areas of very low, anomalous gold concentrations in the humus horizon:

- Area 'A' an isolated anomaly of 10 parts per billion, located at station 3S, line 2E.
- Area 'B' an anomaly of 10 parts per billion at 2 adjacent sample sites - OS and 1S on line 14E
- Area 'C' an isolated anomaly of 12 parts per billion at station 3S, line 16E.
- Area 'D' a weak anomaly spanning three stations over 400 feet at the south end of lines 14E to 18E.

Arsenic Content in Humus - Map C

This survey did not indicate what could be considered an anomalous arsenic concentration in the humus horizon. Values obtained ranged from 1 to 6 parts per million.

Recommendations and Conclusions

In the area surveyed, the overburden is up to 40 to 50 feet thick as indicated by an incised stream, and is largely composed of sand, a very pervious material. Either the roots of the trees do not tap such a deep source, or alternately, there is either little or no gold in the underlying bedrock of the area surveyed, or the sampling interval was too widely spaced to detect such.

It is recommended that the humus sampling be extended further south to include the carbonatized horizon within the sedimentary sequence, which is known to contain anomalous gold concentrations further to the west (Harding and Berry, 1939).

-5-

References

- Burrows, A.G., 1911, The Porcupine Gold Area; Ontario Bur. Mines, Vol 20, pt. 2
- Burrows, A.G., 1912, The Porcupine Gold Area, Second Report; Ontario Bur. Mines, Vol. 21, pt. 1, p. 205-249. Accompanied by Map 21A, scale 1 inch to 1 mile.
- Curtin, G.C., Lakin, H.W., Neuerberg, G.J. and Hubert, A.E., 1968, Utilization of humus rich forest soil (mull) in geochemical exploration for gold; U.S. Geol. Survey Circ. 562, llp
- Gleeson, C.F., 1979, Consider Geochemistry when seeking gold.; The Northern Miner, Exploration Issue, March 8, 1979, 4 p.
- Harding, W.D., and Berry, L.G., 1938, Geology of the Keefer-Eldorado Area; Ontario Dept. Mines, Vol. 47, pt. 4, p. 1-26. Accompanied by Map 47D, scale 1 inch to 1 mile
- Lakin, H.W., Curtin, G.C., Hubert, A.E., Shacklette, H.T., and Doxtader, K.G., 1974, Geochemistry of Gold in the weathering cycle.; U.S.G.S. Bull. 1330, 80 p.

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<u>APPENDIX B</u> Survey Method

Procedure

During the survey, humus samples were obtained either by hand or by exposing deeper levels of the humus layer with a grub hoe.

After hang-drying, the samples were shipped to X-Ray Assay Laboratories, 1885 Leslie Street, Don Mills, Ontario, for analysis. 71 samples were analyzed by neutron activation method for gold and arsenic.

Sample preparation entailed thoroughily blending each sample in a blender to homogenize the material, followed by hydrolic compression of a portion of the sample to form a pellet weighing eight grams, which was used in the neutron activation process.

Humus as a sample medium

Gleeson (1979), Lakin <u>et al</u> (1974), Gurtin <u>et al</u> (1968) and others have documented the successful use of humus (mull) as a sample medium for detection of auriferous bedrock zones in areas covered by 3 to 120 feet of glacial material. Gleeson (1979) has found that anomalies in the humus generally occur directly over the subcrop of the auriferous zones, and thier dispersion patterns are little effected by glacial transport.

The humus layer sampled consists of the partly decomposed plant debree found under trees and/or shrubs, and usually occurs as dark brown or black, humus-rich pads mixed with varying amounts of mineral matter.

A summary of the geochemical processess involved in

the accumulation of gold in the humus horizon is presented by Lakin <u>et al</u> (1974):

"....ample hydrogen cyanide is formed in the soil by hydrolysis of cyanogenic plants, animals and fungi to result in solution of gold in an oxygenated environment. The gold cyanide thus formed is absorbed by plants, but they do not use it as a nutrient. It is therefore found accumulating as a reject in the woody parts of a plant. The decomposition of plant debree results in the reduction of gold in the plant material and gold accumulation in the humus horizon of the soil."

Boyle and Dass (1967), through their work in the Cobalt area, hoave demonstrated that concentration of such elements as arsenic, zinc, copper and lead also occur in the humus layers over known veins containing these elements.

<u>Certificate</u>

I, D.R. Pyke, submit this document to certify that the following statements are, to the best of my knowledge, true and correct.

- 1. That I supervised the geochemical survey conducted on the East Thorneloe Property in Thorneloe Township, conducted on August 11, 1980.
- 2. That I am the author of the corresponding assessment report entitled "Assessment Report of Geochemical Survey, East Thorneloe Property, Thorneloe Township, Porcupine Mining Division, Ontario".

| 3. | That I have | received the following university | degrees: |
|----|-------------|-----------------------------------|----------|
| | B.Sc. | University of Saskatchewan | 1959 |
| | M.Sc. | University of Saskatchewan | 1961 |
| | Ph.D. | McGill University, Quebec | 1967 |

4. That I have been working as a geologist in the general Timmins area for 13 years, and I am familiar with the geology of the area under consideration.

Respecti D.R.



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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REFORM FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

| Type of Survey(s) <u>Geochemical (Humus Sampling)</u> | | 1 ⁻¹ |
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| Township or Area <u>Thorneloe Township</u> | MINING CLAIM | IS TRAVERSED |
| Claim Holder(s) D.R. Pyke | | merically |
| 157 Burbank Dr. Willowdale. Ont. | | |
| Survey Company | (prefix) | 568444 |
| Author of Report D.R. Pyke | Р | (number) 568445 |
| Address of Author 157 Burbank Drive, Willowdale, O | 5 | 50000 |
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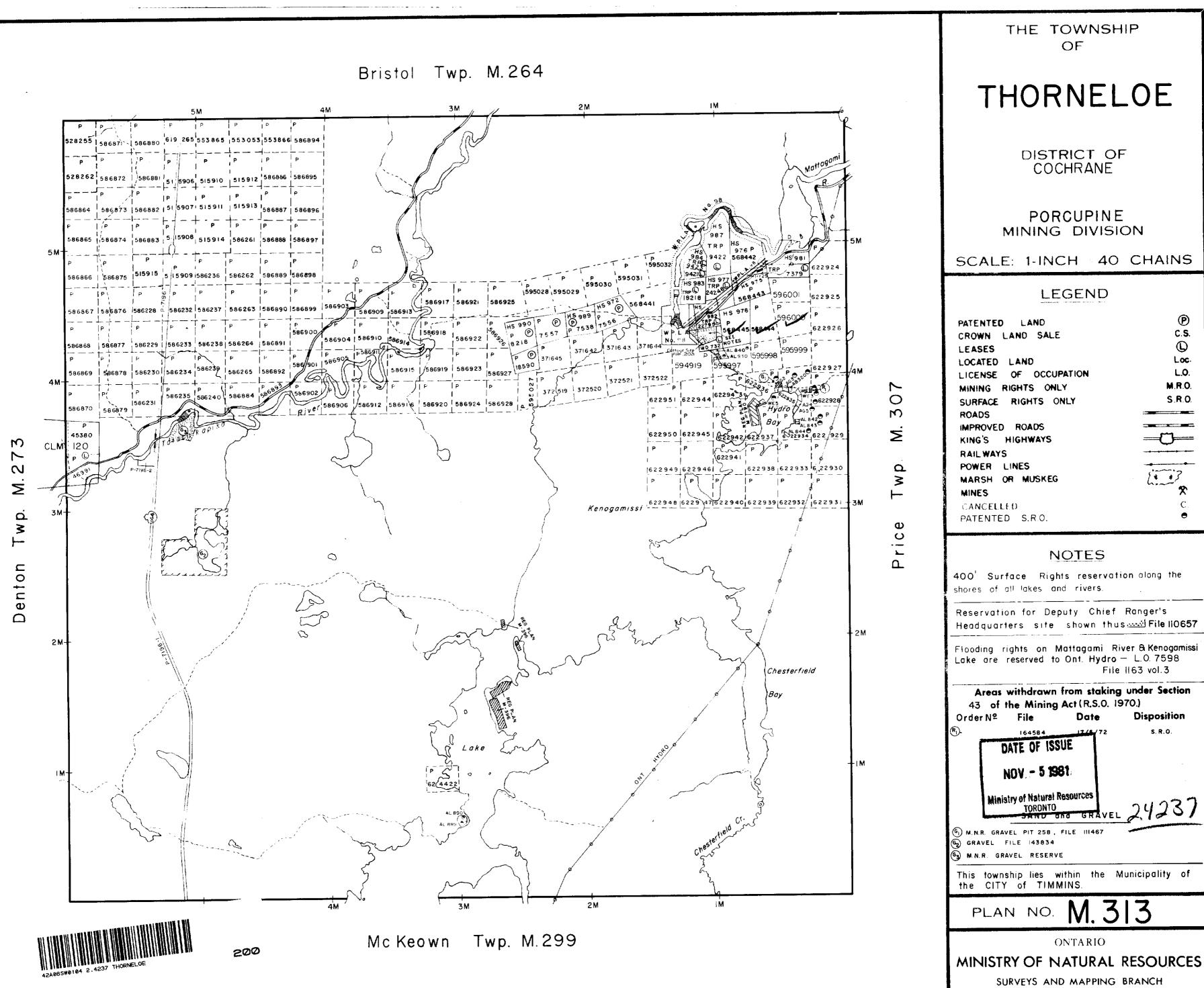
Numbers of claims from which samples taken P 568444, P 568445

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| Horizon Development Generally 1 inch or le | ES Field Analysis (|
| Sample DepthGenerally 1 inchTerrainFlat lying, property wooded,jack pine, white pine, poplar | Extraction Method Analytical Method Reagents Used |
| Drainage Development Generally good. Estimated Range of Overburden Thickness 40-50 fe | Field Laboratory Analysis |
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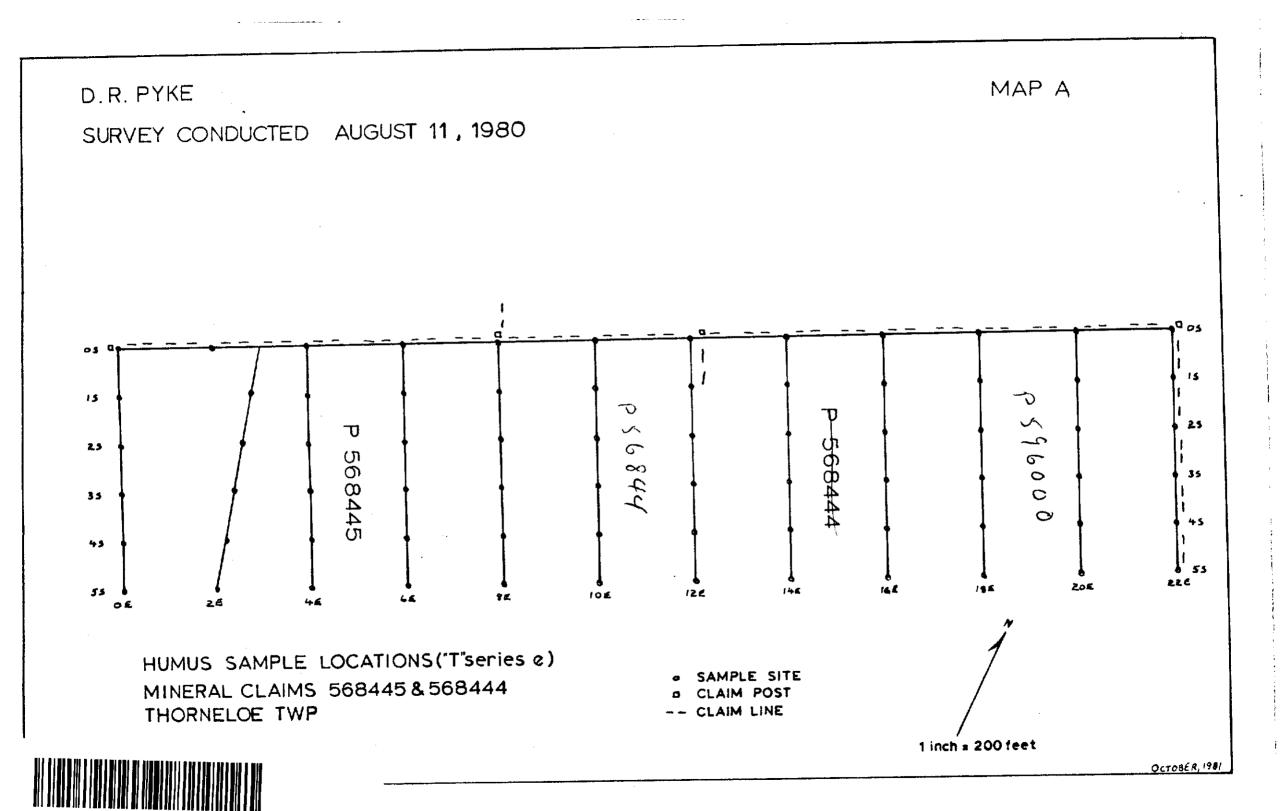
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