



42A03NE0085 2.1370 BARTLETT

010

Texasgulf Inc.  
Report on Geochemical Work  
in  
Bartlett Township  
Porcupine Mining Division

Claims: P 355519, P 355520

The property is located in the north-central section of Bartlett Township, approximately 24 miles south of the city of Timmins. The claims can be reached by a secondary road which crosses the area approximately 1 mile west of the claims.

East-west lines were flagged using the powerline, which crosses the claims in a north-northwest direction, as a baseline. Sample lines were at 100 foot intervals in the central section of the property and 400 foot intervals at the north and south sections. Soil samples were taken every 100 feet along the flagged lines.

PREVIOUS WORK

The claim group was mapped in early June, 1973 following the examination of old mineralized trenches along the powerline. Two trenches, lying approximately 50 feet apart, expose iron formation, rhyolite, and rhyolite agglomerate. Pyrite, pyrrhotite with lesser amounts of chalcopyrite occur as streaks and along fractures at the borders of the iron formation and as disseminations in the rhyolite agglomerate.

Exposures are few on the two claims. The rocks observed are dacitic tuff and agglomerate, massive rhyolite and rhyolite agglomerate, massive and tuffaceous andesite and minor gabbro near the southwestern corner of the property.

The area is structurally complex, however, magnetometer work in the surrounding area suggests the iron formation has a general north-south trend.

#### GEOCHEMICAL SURVEY

Soil Samples were taken at 100 foot intervals along lines 100 feet apart in the central part of the property, covering the mineralized showings, and along lines 400 feet apart in the northern and southern sections of the property.

At most sample location sites the 'B' horizon, at a depth varying from 10 to 18 inches was sampled with a soil auger. The material sampled was mainly silty-clay. A total of 181 samples were taken which averaged 200 grams per sample. The majority of the samples had an organic content of less than 1% with the occasional sample being as high as 5% organic material.

Samples were tested for Copper and Zinc by Bondar-Clegg Co. Ltd., Ottawa. The -80 fraction was digested in concentrated  $\text{HNO}_3\text{-HCl}$ , treated with distilled water and tested by atomic absorption.

#### RESULTS OF SURVEY

The accompanying geochemical maps show the values for Copper and Zinc for each sample taken; values are expressed

as parts per million. The sensitivity of the atomic absorption technique is 1 ppm.


The highest zinc value obtained lies to the south of a large swamp at the north end of the property. A broad slightly anomalous copper zone lies to the south of this swamp. Several other 'one sample' anomalies occur on other sections of the property.

The anomalies obtained, however, do not coincide with the known mineralization in the trenches along the power-line.

#### RECOMMENDATIONS

- 1) Additional soil sampling is recommended at the same sample locations in attempt to duplicate the 1973 results.
- 2) Should the anomalous values be confirmed additional sampling and surface prospecting is recommended.

Toronto  
December, 1973

  
\_\_\_\_\_  
D. S. McPhee



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

## GEOPHYSICAL TECHNICAL DATA

### GROUND SURVEYS

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_

Line spacing \_\_\_\_\_

Profile scale or Contour intervals \_\_\_\_\_  
(specify for each type of survey)

### MAGNETIC

Instrument \_\_\_\_\_

Accuracy - Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base station location \_\_\_\_\_

### 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 \_\_\_\_\_

Time domain \_\_\_\_\_ Frequency domain \_\_\_\_\_

Frequency \_\_\_\_\_ Range \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

**SELF POTENTIAL**

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

**RADIOMETRIC**

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth – include outcrop map)

**OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)**

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

**AIRBORNE SURVEYS**

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_





McArthur Tp. - M. 298

THE TOWNSHIP OF  
OF  
**BARTLETT**

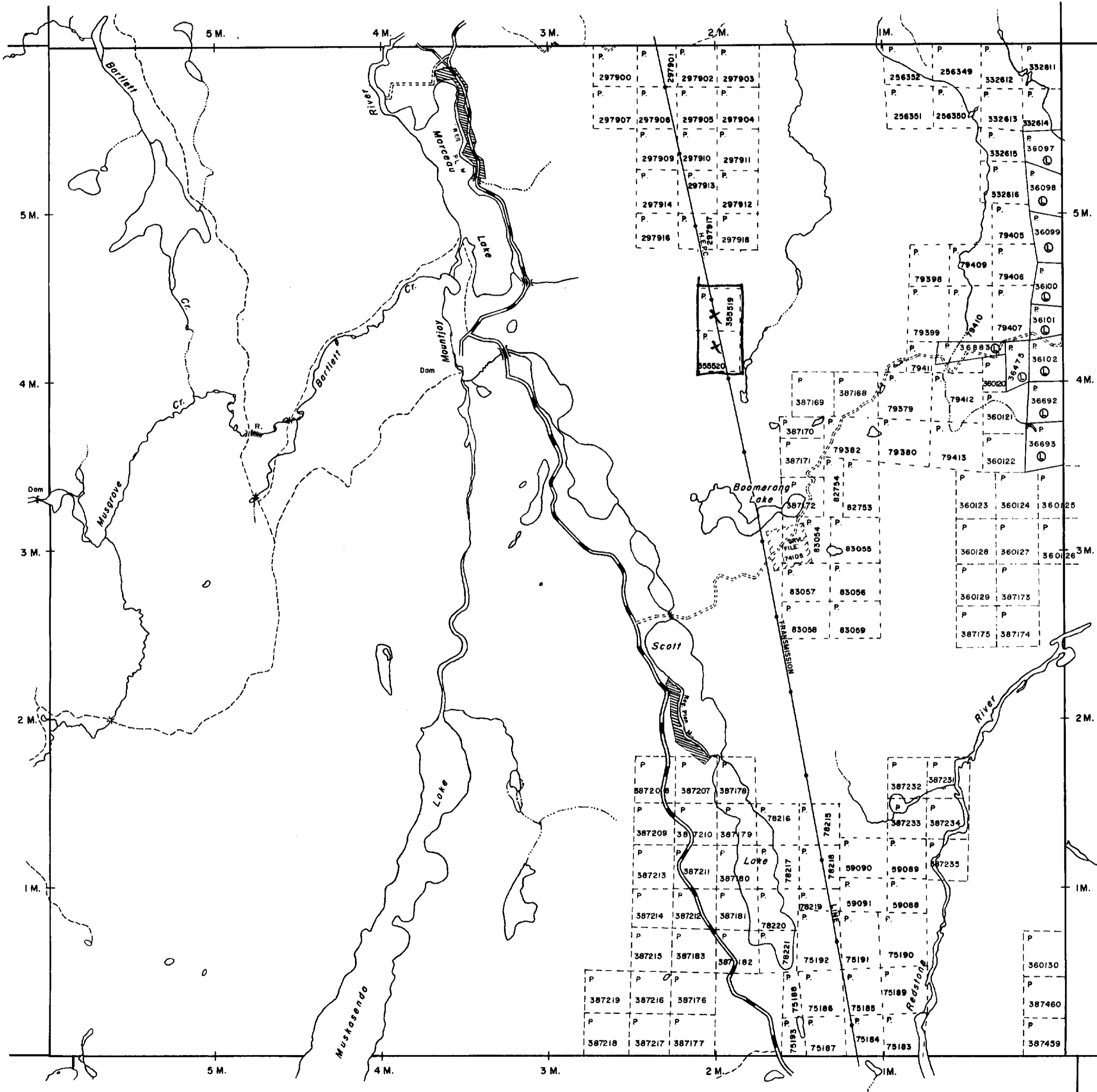
DISTRICT OF  
TIMISKAMING

PORCUPINE  
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

Musgrove Tp. - M. 304

Geikie Tp. - M. 320



LEGEND

- |                       |           |
|-----------------------|-----------|
| PATENTED LAND         | ● or ⊕    |
| 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 MUSKOG       | — — — — — |
| MINES                 | — — — — — |
| CANCELLED             | — — — — — |
| PATENTED S.R.O.       | — — — — — |

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

- MINING LANDS -  
**DATE OF ISSUE**  
DEC - 6 1973  
MINISTRY OF NATURAL RESOURCES

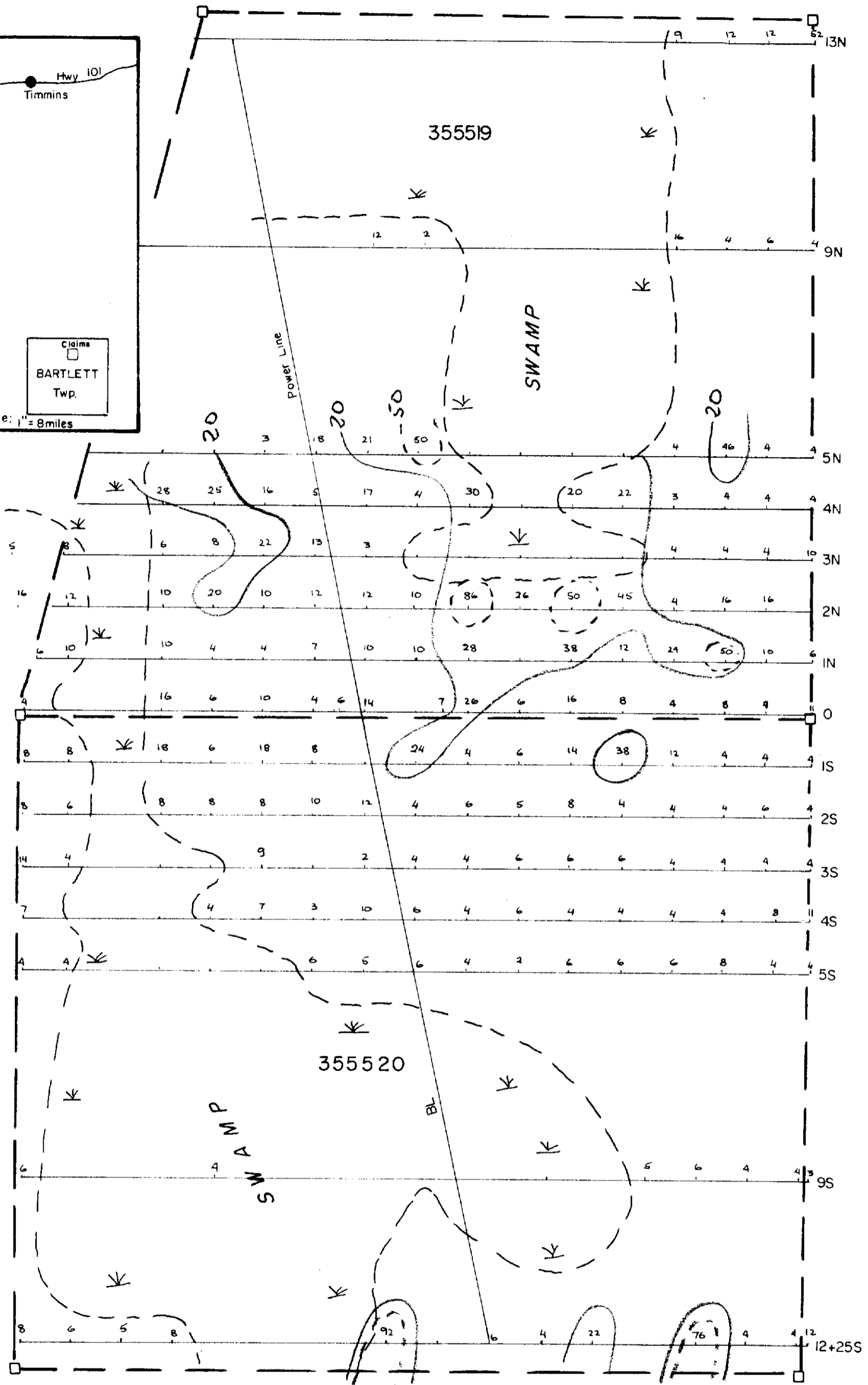
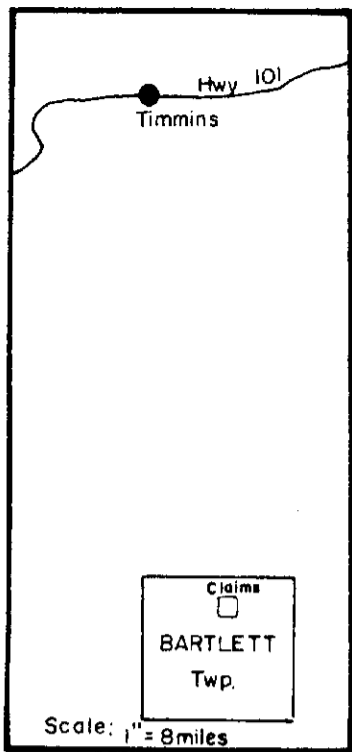
2.1370

PLAN NO. - **M-262**

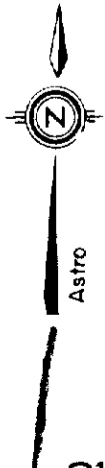
ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

English Tp. - M. 787





Scale: one inch = 200'



Texasgulf Inc.		
GEOCHEMICAL SURVEY		
SOILS - Cu PPM		
BARTLETT TWP.		
Work by	Drawn by	Date
PM AB	JP	Oct 1973

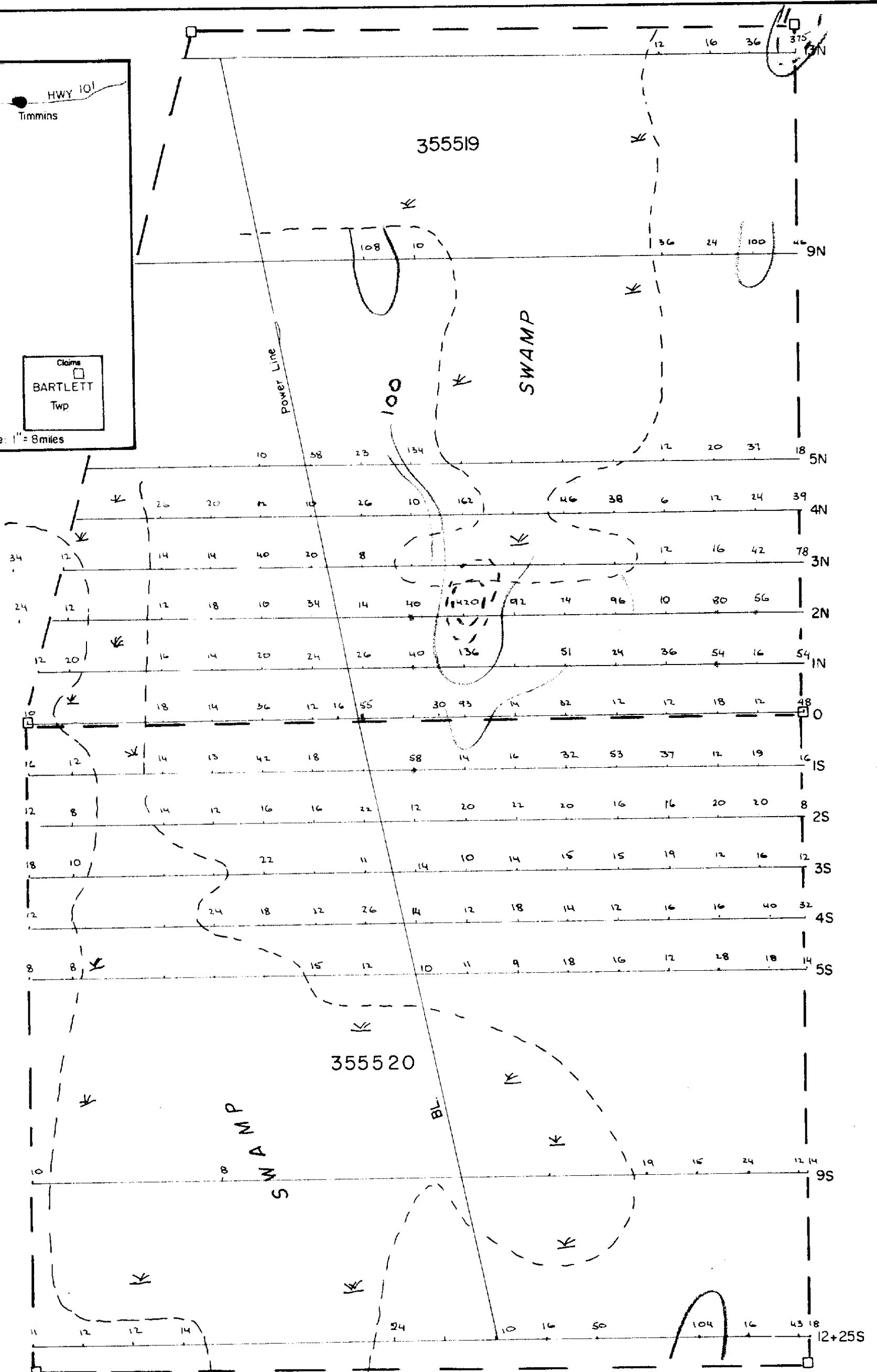
*D. S. Tucker*  
2.13.70



HWY 101  
Timmins

Claims  
BARTLETT  
Twp

Scale: 1" = 8 miles



Scale: one inch = 200'



Texasgulf Inc.		
GEOCHEMICAL SURVEY		
SOILS - Zn PPM.		
BARTLETT TWP.		
Work by	Drawn by	Date
PM AB.	JP	Oct. 1973

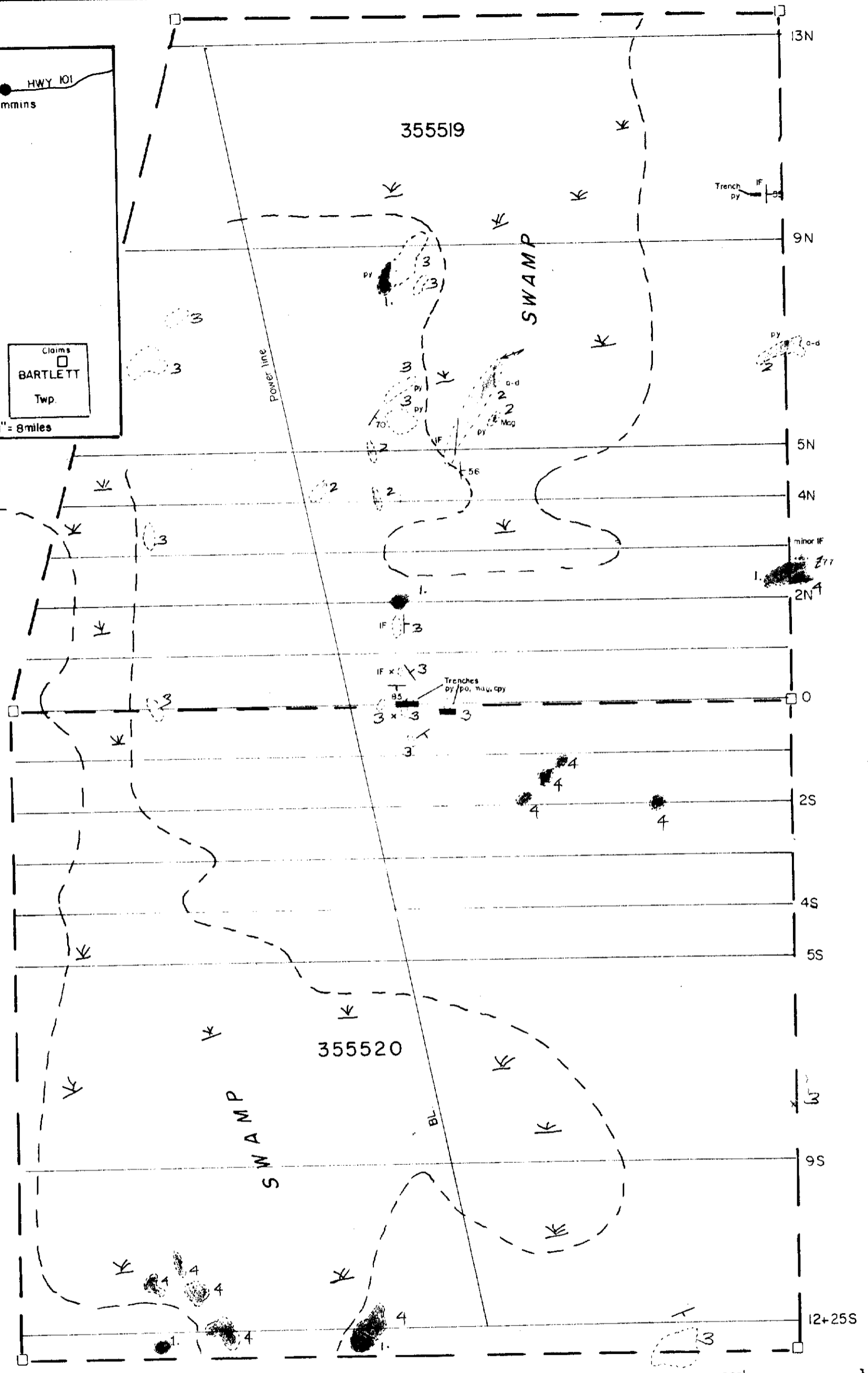
*D.A. Miller*  
2.1370



HWY 101  
Timmins

Claims  
BARTLETT  
Twp.

Scale 1" = 8 miles



**LEGEND**

- 1 Andesite massive + tuffaceous
- 2 dacite (lapilli tuff agglomerate)
- 3 Rhyolite (massive agglomerate)
- 4 Gabbro (diorite? to amphibolite)

- IF Iron formation
- Strike + dip of bedding
- Strike + dip of cleavage and/or schistosity

Scale: one Inch = 200'

Texasgulf Inc.		
GEOLOGICAL SURVEY		
BARTLETT TWP.		
Work by	Drawn by	Date
PM JR.	JR.	Oct. 1973

*D. S. Miller*  
2-1370

