# GEOLOGICAL REPORT

# MARSHALL LAKE CLAIMS

# OF

# UNITED ASBESTOS INC. MIDLOTHIAN TWP.

J.D. Hagan, P.Eng.

June 1, 1981.

# GEOLOGICAL REPORT

## MARSHALL LAKE CLAIMS

## UNITED ASBESTOS INC. MIDLOTHIAN TWP.

### INTRODUCTION

The boundries of these claims were individually surveyed in July 1976. The following areas were recorded.

| CLAIM NO. | WATER AREA ACRES | LAND AREA RESERVED ACRES | REMAINING LAND AREA | TOTAL AREA ACRES |
|---|---|---|---|---|
| L-318448 | - | 0.68 | 33.69 | 34.37 |
| L-318451 | - | 1.00 | 48.16 | 49.16 |
| L-318452 | _ | 8.72 | 43.69 | 52.41 |
| L-318453 | 2.96 | 17.44 | 43.25 | 63.65 |
| L-318454 | 24.44 | 22.08 | 3.12 | 49.64 |

An aerial geophysical survey using electro magnetic and magnetic methods was performed by Scintrex Ltd. in February, 1981.

### LOCATION

The claims are located in the south-central part of Midlothian Township. They occupy the west part of Marshall Lake and the land immediately west of this lake. The asbestos deposits of United Asbestos Inc. lie approximately ½ mile to the north of Marshall Lake.

## REGIONAL GEOLOGY

Reference is made to geological report number 79 by E.G. Bright in which the geology of Midlothian and Halliday townships is described.

The "Halliday Dome" consists of felsic metavolcanics ( dacite to rhyolite ) interstratified with intermediate metavolcanics ( andesite to dacite ). Ultramafic and mafic sills and stocks intrude the outer rhyolite strata of the dome. Younger Matachewan type diabase traverse the area occupying some of the north trending faults.

The crysotile deposits of United Asbestos are found in the ultramafic series of rocks. More recent studies by U. Kretschmar in October 1980 suggests that the ultramafics are komatiitic volcanics that range in composition from dunite to peredotete. However, further work on the Lloyd Lake complex is required before a flow origin to these rocks can be established.

## LOCAL GEOLOGY

With the exception of one outcrop, the rocks underlying claim L-318453 consists of a fine grained light grey to light grey green intermediate volcanic, which has been classified as a dacite. The silica content in a few places appears to increase to a point that the rock may be called a rhyolite. The exception to this series is a well fractured medium grained basic outcrop occurring on the west side of this claim. It has been classified as a gabbro and appears to be a part of a small stock or dyke.

## CONCLUSIONS

The outcrops mapped on claim L-318453 appear to be a continuation of the series lying to the south of Rhyolite Lake. These were described by Bright as chiefly massive or amygdaloidal rhyodacites and dacites. There are some finely bedded tuffs and pillowed dacites. The volcanics weather creamy white to greenish brown. Fresh surfaces are light grey to green.

Respectfully Submitted,

J.D. Hagan, P. Eng.

RECORD OF GEOLOGICAL SURVEY FOR

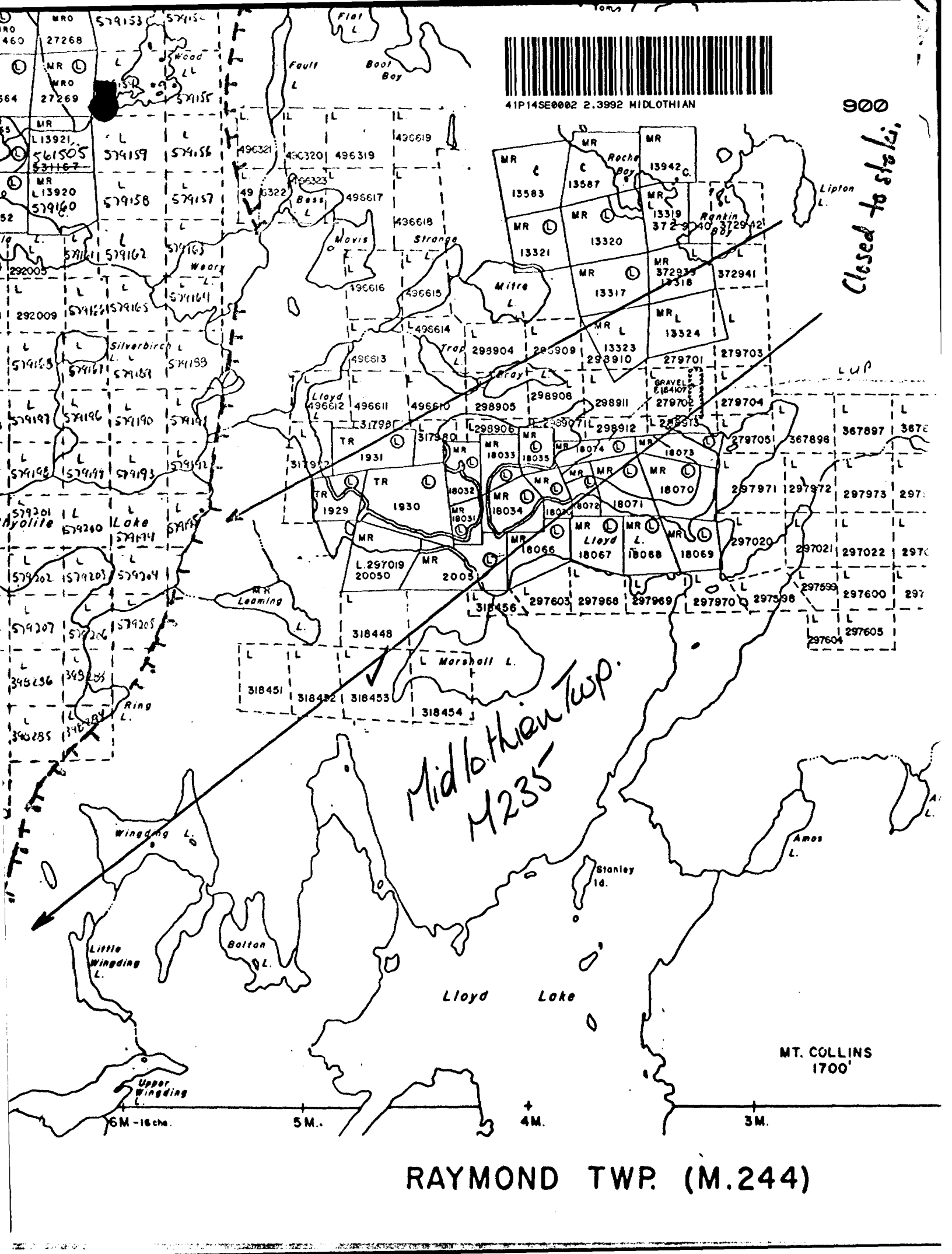
CLAIM NO. L-318453 June 9, 1981

| DATE | NAME | HRS | TOTAL HRS | DESCRIPTION OF WORK |
|---|---|---|---|---|
| May 21 | J. Hagan<br>D. Cannon<br>D. George | 4 | 12 | Portage Lloyd Lake to Marshall<br>Mapped surveyed claim line from P-1 to P-4 traverse by pace and compass from W to E on North end of claim. |
| May 22 | J. Hagan<br>D. Cannon<br>D. George | 4 | 12 | Portage Lloyd Lake to Marshall<br>Mapped surveyed claim line P-4 to P-3 Made 3 traverses N. and central part of claim by pace and compass. |
| May 26 | J. Hagan<br>D. George | 5 | 10 | Via Lloyd Lake to P-3 CL-318453<br>Mapped CL-Line from P-3 to P-2 Made 3 E-W traverses by pace and compass on South end. |
| May 27 | J. Hagan<br>D. George | 4 | 8 | Via Lloyd L. to P-3<br>Traversed muskeg from Lloyd Lake to Leaming Lake. |
| May 28 | J. Hagan | 3 | 3 | Made base map of traverses |
| May 29 | J. Hagan | 3 | 3 | Made tracing and copies of it. |
| | Total Hours | | 48 | |
| | Total 8 hr. days | | 6 | |



J. D. Hagan

J.D. Hagan




RAYMOND TWP. (M.244)

Ontario

# Ministry of Natural Resources

File _____

## GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

**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 Middlothian

Claim Holder(s) GLEN M. HOGG
UNITED ASBESTOS INC.

Survey Company —— United Asbestos

Author of Report J.D. Hogan Pek 1110

Address of Author P.O Box 99 - Matachewan - Ont.

Covering Dates of Survey May 21 81 to May 29 81
(linecutting to office)

Total Miles of Line Cut N.I - Used Claim Survey Lines

**SPECIAL PROVISIONS CREDITS REQUESTED**

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

| | DAYS per claim |
|---|---|
| Geophysical | |
| –Electromagnetic | |
| –Magnetometer | |
| –Radiometric | |
| –Other | |
| Geological | |
| Geochemical | |

**AIRBORNE CREDITS** (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: June 10, 1981 SIGNATURE: J.D. Hogan P.Eng. 63,1295
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

| File No. | Type | Date | Claim Holder |
|---|---|---|---|
| | | | LD |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

**MINING CLAIMS TRAVERSED**
**List numerically**

| (prefix) | (number) |
|---|---|
| L- | 318453 |

If space insufficient, attach list

TOTAL CLAIMS _____

OFFICE USE ONLY

837 (5/79)

# 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 _____

N

pyrite sparks

several 18" white pine

Sandy yellow loam with angular boulders

dense shrubs

minor spruce and pine

L-318453

Sandy Yellow loam

Cedars

Yellow loam with boulders

Cedars

Cedars

Alder Swamp

LEAMING LAKE

PT. B

PT. A

Cedars

low Swampy ground

Cedars

NOTT LAKE FAULT

L-318452

dense shrubs

angular boulders

TRAVERSE ST. CANOE

LLOYD LAKE

D Waste

G Gabbro

Fault

Outcrop

Swamp

Traverse

UNITED ASBESTOS INC.
MIDLOTHIAN MINE
GEOLOGICAL PLAN
MIDLOTHIAN TWP

| | |
|---|---|
| DATE: MAY 1981 | DRWG. NO. |
| SCALE: 1" = 200' | |
| DRWN BY: T.D. Hagan. | |

Revised Aug. 1981

T.D. Hagan, P.Eng.

41P145E0002 2.3992 MIDLOTHIAN

1/200