



42A16SW0200 2.9875 MOODY

010

ABITIBI DETROYES PROPERTY

NTS: 42 A/15

ASSESSMENT REPORT

on

AIRBORNE MAGNETOMETER SURVEY

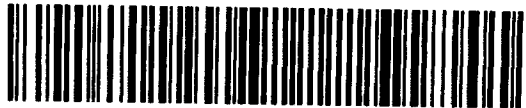
Submitted by:

Peter A. Diorio  
February 25, 1987  
Toronto, Ontario

**RECEIVED**

MAR 13 1987

**MINING LANDS SECTION**



42A16SW0200 2.9875 MOODY

010C

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APPENDIX IV	Interpretation Map (1:25,000)

## 1.0 INTRODUCTION

This report covers helicopter borne magnetometer surveys flown by Sander Geophysics Ltd., Kanata, Ontario over claims referred to here as the ABITIBI DETROYES property. The survey consisted of total field mag and vertical gradiometer and covered all of Sherring, Wesley and Moody townships as well as part of Mortimer, Edwards and Marathon townships. This report refers only to the total field data collected over the ABITIBI DETROYES claim group in the southern part of Wesley and Moody townships (Figure 1). The vertical gradiometer data was used as an aid to interpretation but is not submitted for assessment.

## 2.0 PROPERTY

The ABITIBI DETROYES property consists of a roughly rectangular block of 193 claims (Figure 2) some 20km east of Iroquois Falls, Ontario. Access to the property is afforded by bush road running north-south from the Trans Limit road (this road is passable by two wheel drive truck in summer as far as Trail Lake), by boat or skidoo along the Abitibi River, and by helicopter.

## 3.0 GEOLOGY AND TOPOGRAPHY

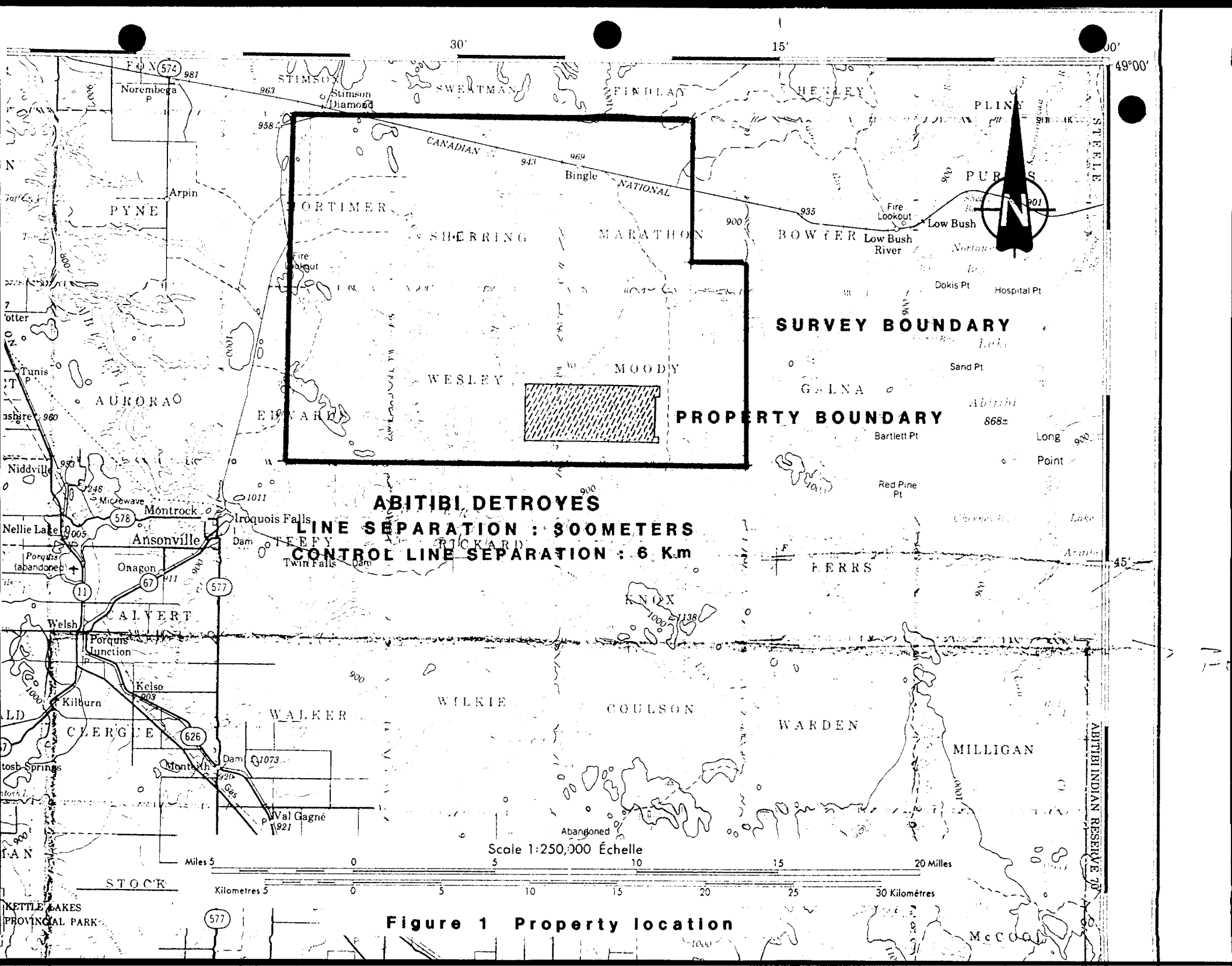
Bedrock exposure is nil and the entire area is blanketed by 100-200 feet of unconsolidated glacial sediments (sands, gravels and varved clays).

Topographic relief is very limited and poses no obstacle to drape flying by fixed wing or helicopter.

## 4.0 EXPLORATION HISTORY

O.D.M. Preliminary maps P776 and P777 (Kirkland Lake Data Series) show that minimal work is recorded within the property bounds. Several TURAM conductors were delineated in the northeastern part of the property area by Mistango River Mines Ltd. No follow-up work is noted.

In 1980, Utah Mines conducted an overburden drill program in Moody township. Ten reverse circulation drill holes were completed on what is now the southeastern part of the Abitibi Detroyes property. The results of this work were not filed for assessment. No



**ABITIBI DETROYES**  
**LINE SEPARATION : 300 METERS**  
**CONTROL LINE SEPARATION : 6 K.m**

Scale 1:250,000 Échelle  
 Miles 5 0 5 10 15 20 25 30 Miles  
 Kilometres 5 0 5 10 15 20 25 30 Kilometres

**Figure 1 Property location**

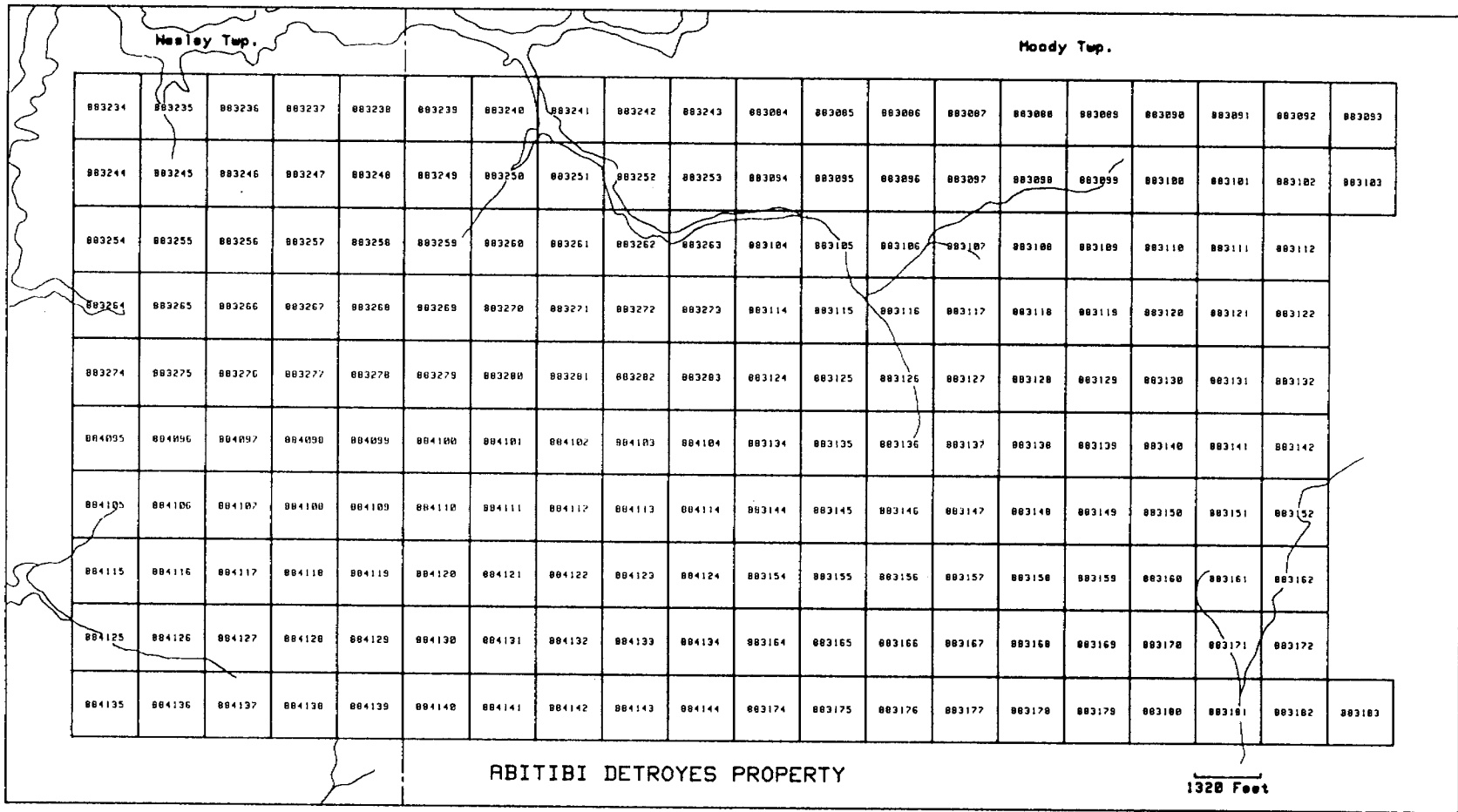
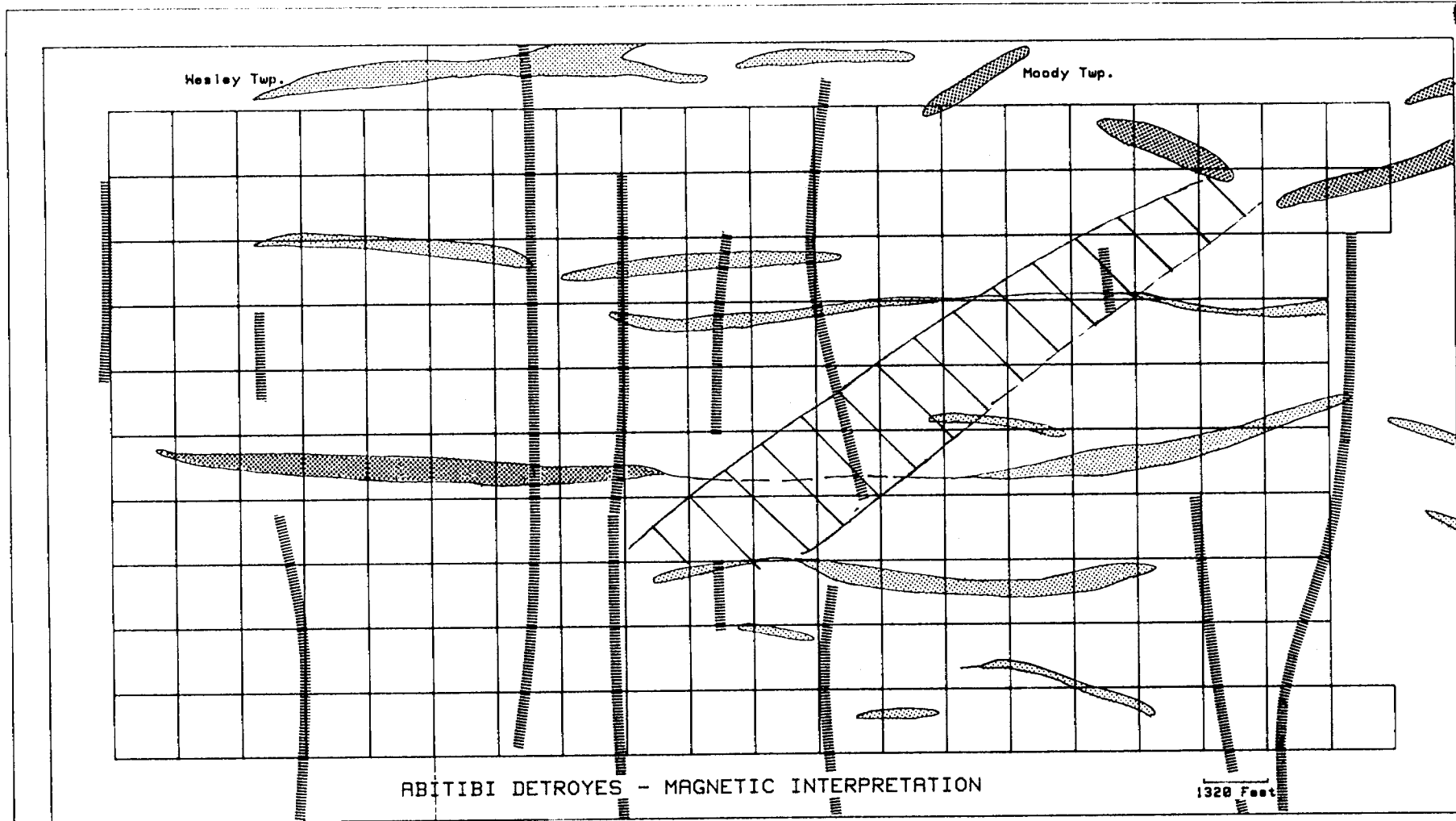


Figure 2 Claim map



LEGEND






-  HIGH SUSCEPTIBILITY UNIT (Ultramafic; Mafic or Oxide IF)
-  MODERATE SUSCEPTIBILITY UNIT (Mafic or Int. volcanic)
-  DIABASE DIKE (Metachewan Dike Swarm)
-  CLAIM BOUNDARY
-  TOWNSHIP LINE

FIGURE 3

Interpretation sketch. Zone of reduced magnetite, possibly resulting from carbonization, is shown by hashured area.

other work is known to have been done on the property until it was staked by Utah Mines Ltd. in March, 1986.

#### 5.0 NAVIGATION AND FLIGHT PATH RECOVERY

All surveys were performed with an A-Star AS350D helicopter. Survey lines were flown in a north-south direction at a nominal spacing of 300m. Altitude was maintained at the minimum safe level (nominally 120 feet) and recorded on a King KRA-10 radar altimeter. Navigation was assisted by an on-board inertial navigation system (Litton Systems LTN-51) and recorded in digital form. The flight path was also recorded with a downward looking 16mm discrete frame tracking camera. Flight path recovery was carried out using both the film record and the digitally recorded inertial data. The film recovery was used to determine the drift in the inertial system at discrete points along the flight path. The drift information was then used to correct the digitally recorded inertial data which in turn was used for all subsequent processing.

#### 6.0 SURVEY INSTRUMENTATION

Both the vertical gradiometer and total field magnetometer surveys employed Overhauser magnetometers on a towed bird. For the gradiometer, two sensors rigidly mounted with a 3m separation were used. The total field magnetometer data is the mean of the output from the two sensors. The accuracy of the gradiometer is approximately .01 gamma per metre. The resolution of each magnetometer is .005 gammas.

The Overhauser magnetometers are essentially proton precision magnetometers which are continuously excited. This permits high sampling rates than with conventional proton magnetometers.

#### 7.0 INTERPRETATION

The magnetometer data were plotted as overlays to the photomosaic at a scale of 1:25,000 (Appendix II). In addition, colour plots of total field and vertical gradiometer were prepared at the same scale. The latter were used heavily to prepare the interpretation map (Appendix IV) but are not included here.

ABITIBI DETROYES  
ASSESSMENT REPORT

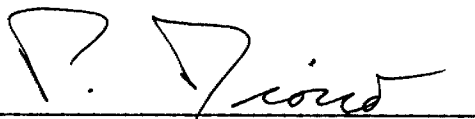
Compared with the rest of the survey area, the ABITIBI DETROYES property is largely underlain by rocks of relatively low susceptibility. Superimposed on this are two distinct orthogonal sets of relatively intense responses. The first of these runs north-south and results undoubtedly from narrow diabase dykes of the Matachewan dyke swarm. The second set trends east-west and results from ultramafics, mafic and intermediate volcanics, and possibly minor oxide iron formation. These have been separated on the interpretation sketch into two groups, one of high susceptibility and one of moderate susceptibility.

The interlacing of the north-south dyke swarm with the east-west greenstone signature produces a crosshatch pattern of anomalies which essentially precludes the possibility of meaningful, detailed anomaly examinations.

With the exception of the dyke, no cross cutting structures are obvious in the mag data.

8.0 RECOMMENDATIONS

Pervasive carbonation usually accompanies gold mineralization in Archean rock. Carbonate alteration is inconsistent with the existence of magnetite. Such processes could be responsible for the abatement of each of the magnetic signature along the inferred north-east trending structure shown in Figure 3. This area is a candidate for prospecting with overburden drilling and, possibly IP.



Peter A. Diorio

PAD/am



Nealey Twp.

Moody Twp.

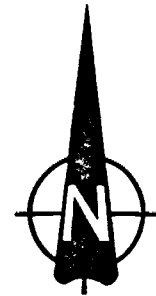
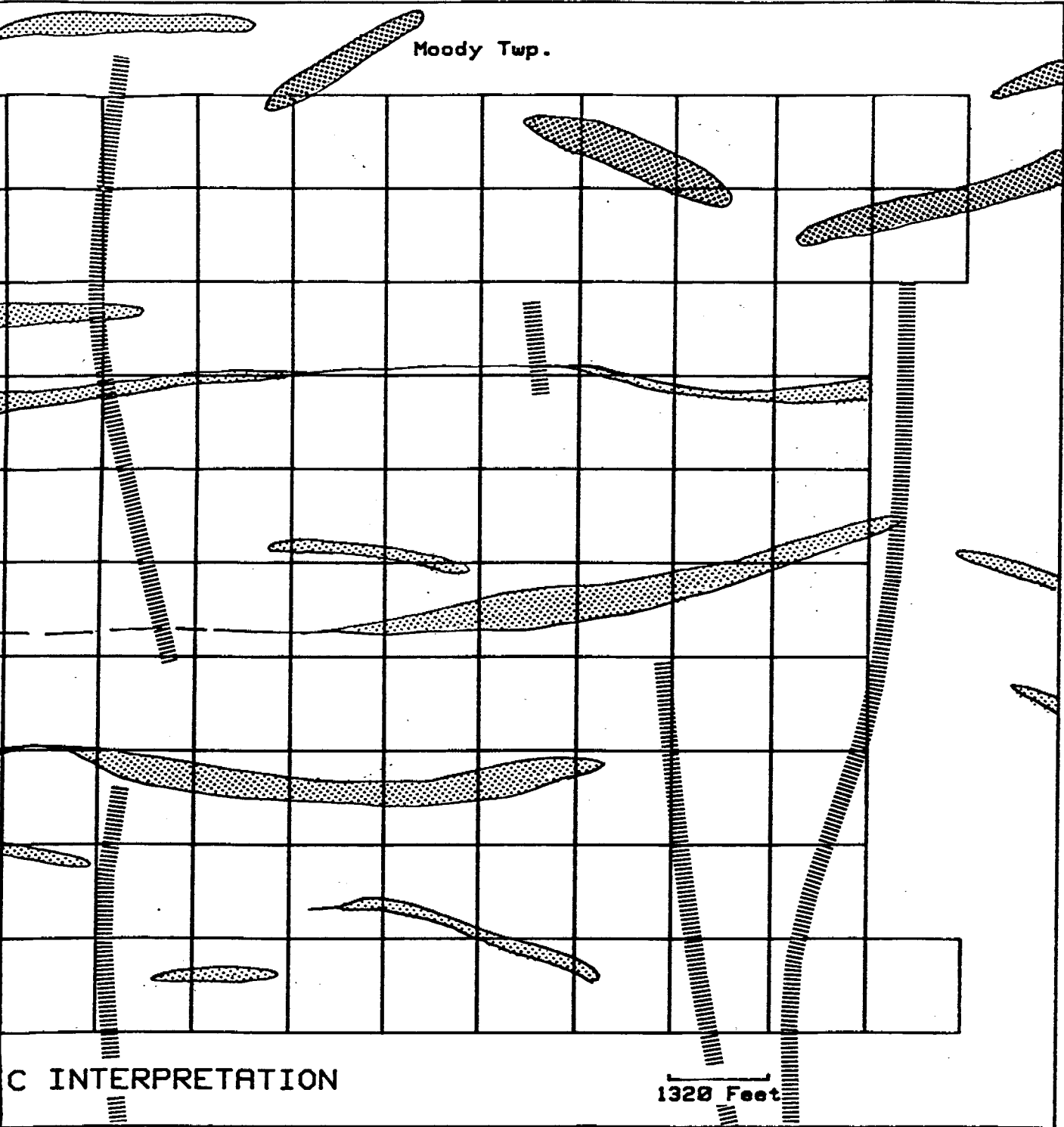
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883244	883245	883246	883247	883248	883249	883250	883251	883252	883253	883094	883095	883096	883097	883098	883099	883100	883101	883102	883103
883254	883255	883256	883257	883258	883259	883260	883261	883262	883263	883104	883105	883106	883107	883108	883109	883110	883111	883112	
883264	883265	883266	883267	883268	883269	883270	883271	883272	883273	883114	883115	883116	883117	883118	883119	883120	883121	883122	
883274	883275	883276	883277	883278	883279	883280	883281	883282	883283	883124	883125	883126	883127	883128	883129	883130	883131	883132	
884095	884096	884097	884098	884099	884100	884101	884102	884103	884104	883134	883135	883136	883137	883138	883139	883140	883141	883142	
884105	884106	884107	884108	884109	884110	884111	884112	884113	884114	883144	883145	883146	883147	883148	883149	883150	883151	883152	
884115	884116	884117	884118	884119	884120	884121	884122	884123	884124	883154	883155	883156	883157	883158	883159	883160	883161	883162	
884125	884126	884127	884128	884129	884130	884131	884132	884133	884134	883164	883165	883166	883167	883168	883169	883170	883171	883172	
884135	884136	884137	884138	884139	884140	884141	884142	884143	884144	883174	883175	883176	883177	883178	883179	883180	883181	883182	883183

ABITIBI DETROYES PROPERTY

2.9875

1320 Feet

△△ Riois



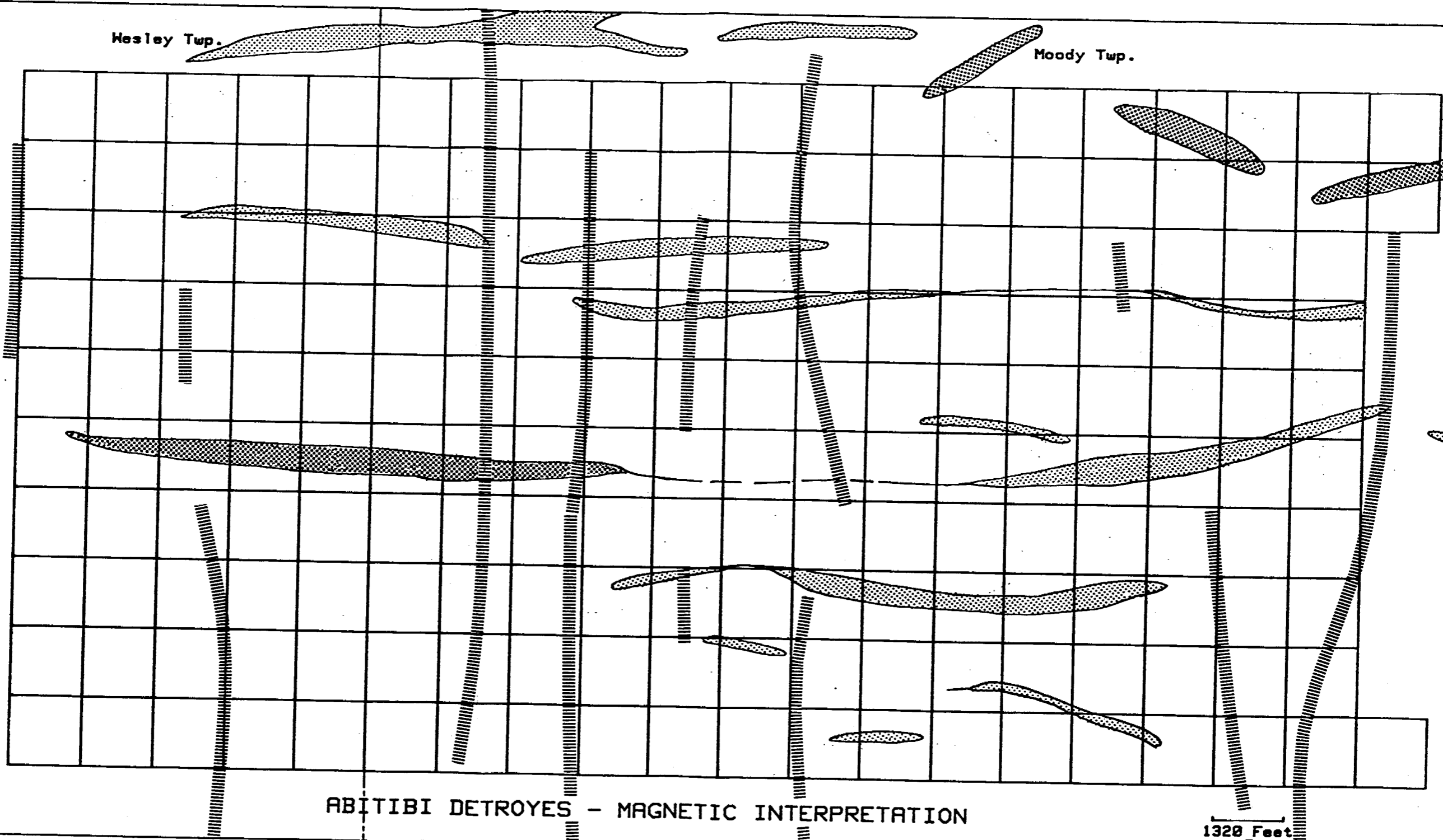
LEGEND

	HIGH SUSCEPTIBILITY UNIT (Ultramafic; Mafic or Oxide IF)
	MODERATE SUSCEPTIBILITY UNIT (Mafic or Int. volcanic)
	DIABASE DIKE (Metachewan Dike Swarm)
	CLAIM BOUNDARY
	TOWNSHIP LINE

*P. Dixon*

Hesley Twp.

Moody Twp.



ABITIBI DETROYES - MAGNETIC INTERPRETATION

1320 Feet



Ministry of  
Natural  
Resources

Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)



42A16SW0200 2.9875 MOODY

900

Type of

AIRBORNE MAGNETOMETER

Township or Area

MOODY AND WESLEY TOWNSHIPS

Claim Holder(s)

UTAH MINES LTD.

Prospector's Licence No.

T-793

Address

900-25 Adelaide Street East, Toronto, Ontario M5C 1Y2

Survey Company

SANDER GEOPHYSICS LTD.

Date of Survey (from & to)

09 05 86 | 25 02 87  
Day Mo. Yr. Day Mo. Yr.

Total Miles of line Cut

0

Name and Address of Author (of Geo-Technical report)

P. Diorio, Utah Mines Ltd. (address as above)

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	15.2
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
(SEE ATTACHED LIST)					
RECEIVED MAR 13 1987 MINING LANDS SECTION					
RECEIVED MAR 5 1987 10.					

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$  ÷ 15 =  Total Days Credits

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work.

193

Date: Feb. 25, 1987

Recorded Holder or Agent (Signature): *P. Diorio*

For Office Use Only

Total Days Cr. Recorded: 29336

Date Recorded: MAR 5 1987

Mining Recorder: *Acting*

Date Approved as Recorded: *5/3/86*

Branch Director: *OK*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Peter Diorio, Utah Mines Ltd. - 900-25 Adelaide Street East

Toronto, Ontario

Date Certified

Feb. 25, 1987

Certified by (Signature)

*P. Diorio*

ABITIBI DETROYES PROPERTY

CLAIM NUMBERS

L883084	L883140	L883247	L884111
883085	883141	883248	884112
883086	883142	883249	884113
883087	883144	883250	884114
883088	883145	883251	884115
883089	883146	883252	884116
883090	883147	883253	884117
883091	883148	883254	884118
883092	883149	883255	884119
883093	883150	883256	884120
883094	883151	883257	884121
883095	883152	883258	884122
883096	883154	883259	884123
883097	883155	883260	884124
883098	883156	883261	884125
883099	883157 -	883262	884126
883100	883158 -	883263	884127
883101	883159 -	883264	884128
883102	883160 -	883265	884129
883103	883161 -	883266	844130
883104	883162	883267	884131
883105	883164	883268	884132
883106	883165	883269	884133
883107	883166	883270	884134
883108	883167 -	883271	884135
883109	883168 -	883272	884136
883110	883169 -	883273	884137
883111	883170 -	883274	884138
883112	883171 -	883275	884139
883114	883172	883276	884140
883115	883174	883277	884141
883116	883175	883278	884142
883117	883176	883279	884143
883118	883177 -	883280	884144
883119	883178 -	883281	
883120	883179 -	883282	
883121	883180 -	883283	
883122	883181 -	884095	
883124	883182	884096	
883125	883183 -	884097	
883126	883234	884098	
883127	883235	884099	
883128	883236	884100	
883129	883237	884101	
883130	883238	884102	
883131	883239	884103	
883132	883240	884104	
883134	883241	884105	
883135	883242	884106	
883136	883243	884107	
883137	883244	884108	
883138	883245	884109	
883139	883246	884110	



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) AEROMAG  
Township or Area Wesley Twp. and Moody Twp.  
Claim Holder(s) UTAH MINES LTD.  
  
Survey Company SANDER GEOPHYSICS LTD.  
Author of Report Peter Diorio/Utah Mines Ltd.  
Address of Author 900-25 Adelaide St. E., Toronto M5C 1Y2  
Covering Dates of Survey May 9, 1986 - February 25, 1987  
(linecutting to office)  
Total Miles of Line Cut N11

**MINING CLAIMS TRAVERSED**  
List numerically

(SEE ATTACHED LIST)

(prefix)

(number)

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

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

ENTER 20 days for each  
additional survey using  
same grid.

- Geophysical
  - Electromagnetic \_\_\_\_\_
  - Magnetometer \_\_\_\_\_
  - Radiometric \_\_\_\_\_
  - Other \_\_\_\_\_
- Geological \_\_\_\_\_
- Geochemical \_\_\_\_\_

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

Magnetometer 15.2 Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Feb. 25, 1987 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.4695

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 193

If space insufficient, attach list

OFFICE USE ONLY

**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 \_\_\_\_\_

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) AEROMAGNETIC

Instrument(s) SANDER OVERHAUSER MAGNETOMETER  
(specify for each type of survey)

Accuracy ± .005 gamma resolution, ± .01 gamma accuracy  
(specify for each type of survey)

Aircraft used Aerospatial AS350D Helicopter

Sensor altitude 40 meters

Navigation and flight path recovery method Inertial Navigation with tracking camera/airphoto  
mosaic for drift removal.

Aircraft altitude 70 meters Line Spacing 300 meters

Miles flown over total area 1700 km (approx.) Over claims only 73.25 miles



GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in:      per cent      
   p. p. m.      
   p. p. b.   

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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ABITIBI DETROYES PROPERTY

CLAIM NUMBERS

1883084	1883140	1883247	1884111
883085	883141	883248	884112
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883128	883236	884100	
883129	883237	884101	
883130	883238	884102	
883131	883239	884103	
883132	883240	884104	
883134	883241	884105	
883135	883242	884106	
883136	883243	884107	
883137	883244	884108	
883138	883245	884109	
883139	883246	884110	

PD.

MARATHON TP

Marathon Lake

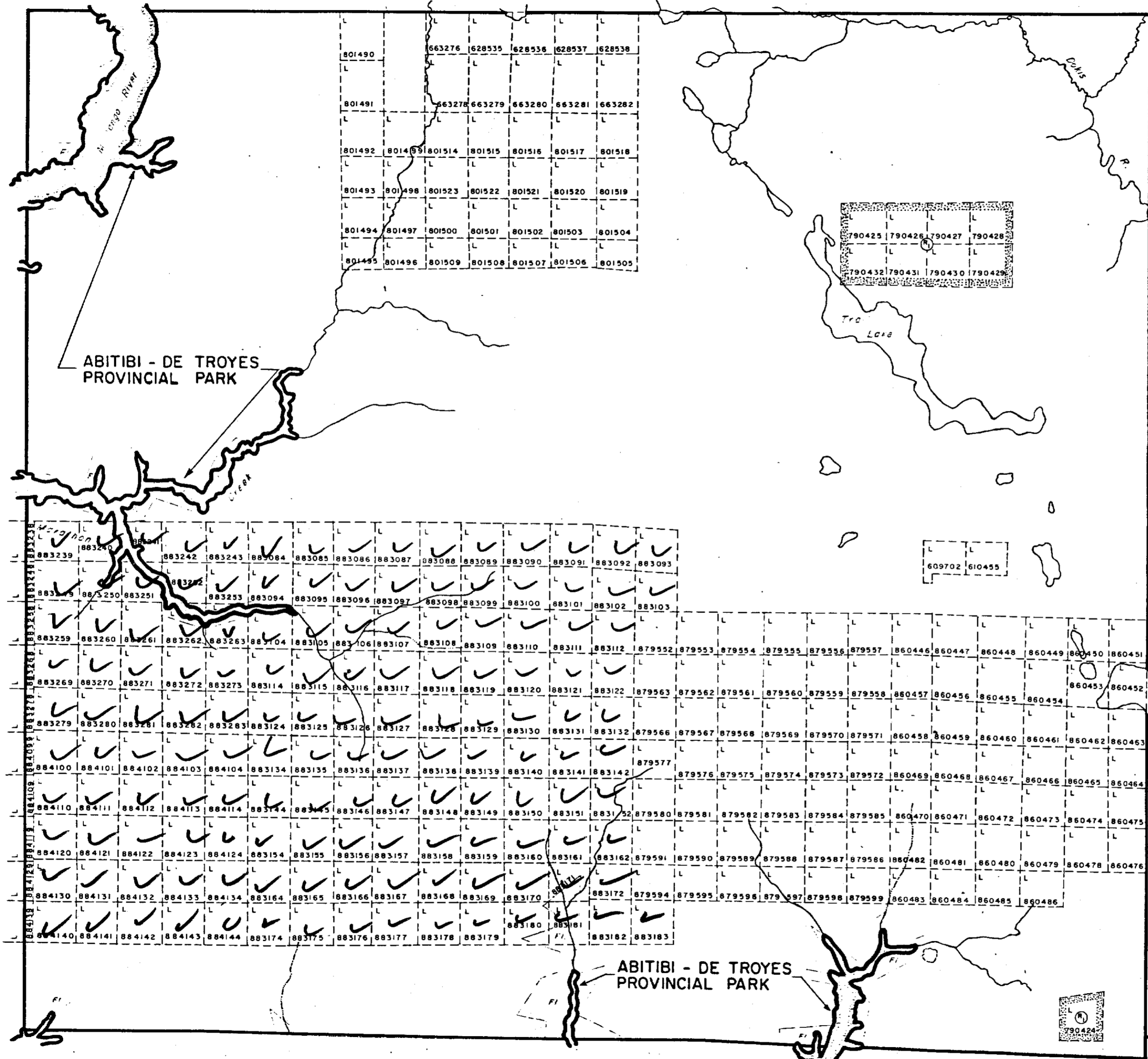
THE TOWNSHIP  
OF NOV 14 1986

MOODY








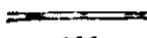
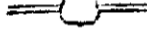






DISTRICT OF  
COCHRANE

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH=40 CHAINS





LEGEND

- PATENTED LAND 
- CROWN LAND SALE 
- LEASES 
- LOCATED LAND 
- LICENSE OF OCCUPATION 
- MINING RIGHTS ONLY 
- SURFACE RIGHTS ONLY 
- ROADS 
- IMPROVED ROADS 
- KING'S HIGHWAYS 
- RAILWAYS 
- POWER LINES 
- MARSH OR MUSKEG 
- MINES 
- CANCELLED 

NOTES

SUBDIVISION OF THIS TOWNSHIP INTO LOTS  
AND CONCESSIONS WAS ANNULLED 29 MAY, 1963.

L.O. 8674 SHOWN THUS:  COVERS LAND  
BELOW 881' CONTOUR. 

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC. 36/80	W. 8/86	20/01/86	M.+S.	



Ministry of Natural Resources and Mines  
Ministry of Northern Development

Date OCTOBER, 1986

Plan No.

G-3544



42A16SW0200 2-9875 MOODY

Sherring Twp.

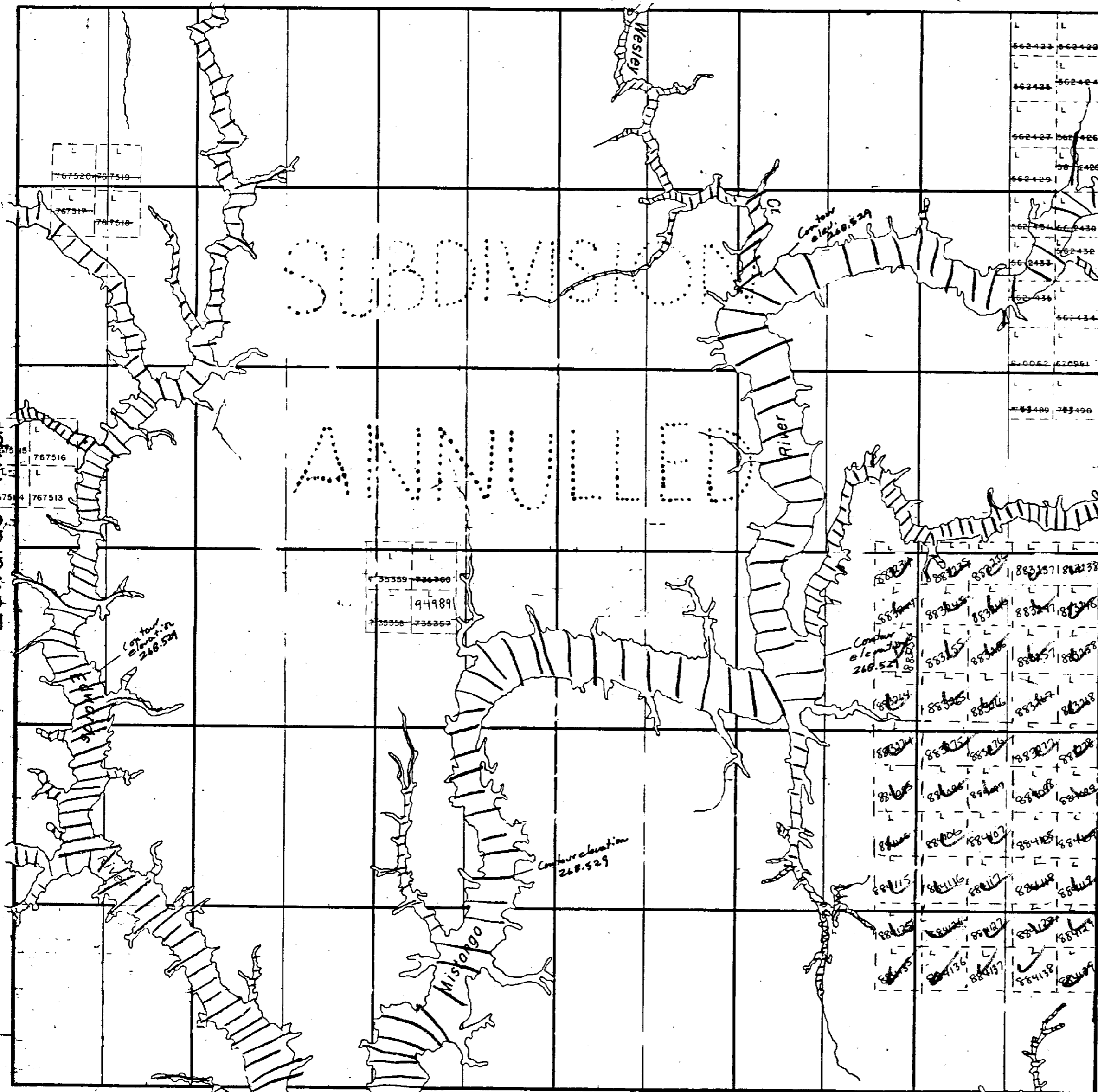
THE TOWNSHIP OF

# WESLEY

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS



Edwards Twp.

Moody Twp.

VI

V

IV

III

II

I

### LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- ROADS
- IMPROVED ROADS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG

### NOTES

License of Occupation 8674 covers land below 826' & 881' level along shores of Abitibi River, Mistango River, Edwards Cr. & Wesley Cr.

Claims adjoining Mistango R., Edwards R. & Wesley Cr. subject to flooding rights

400' Surface Rights Reservation around all Lakes and Rivers

*Abitibi Detroyes Provincial Park*  
To Contour elevation 268.529

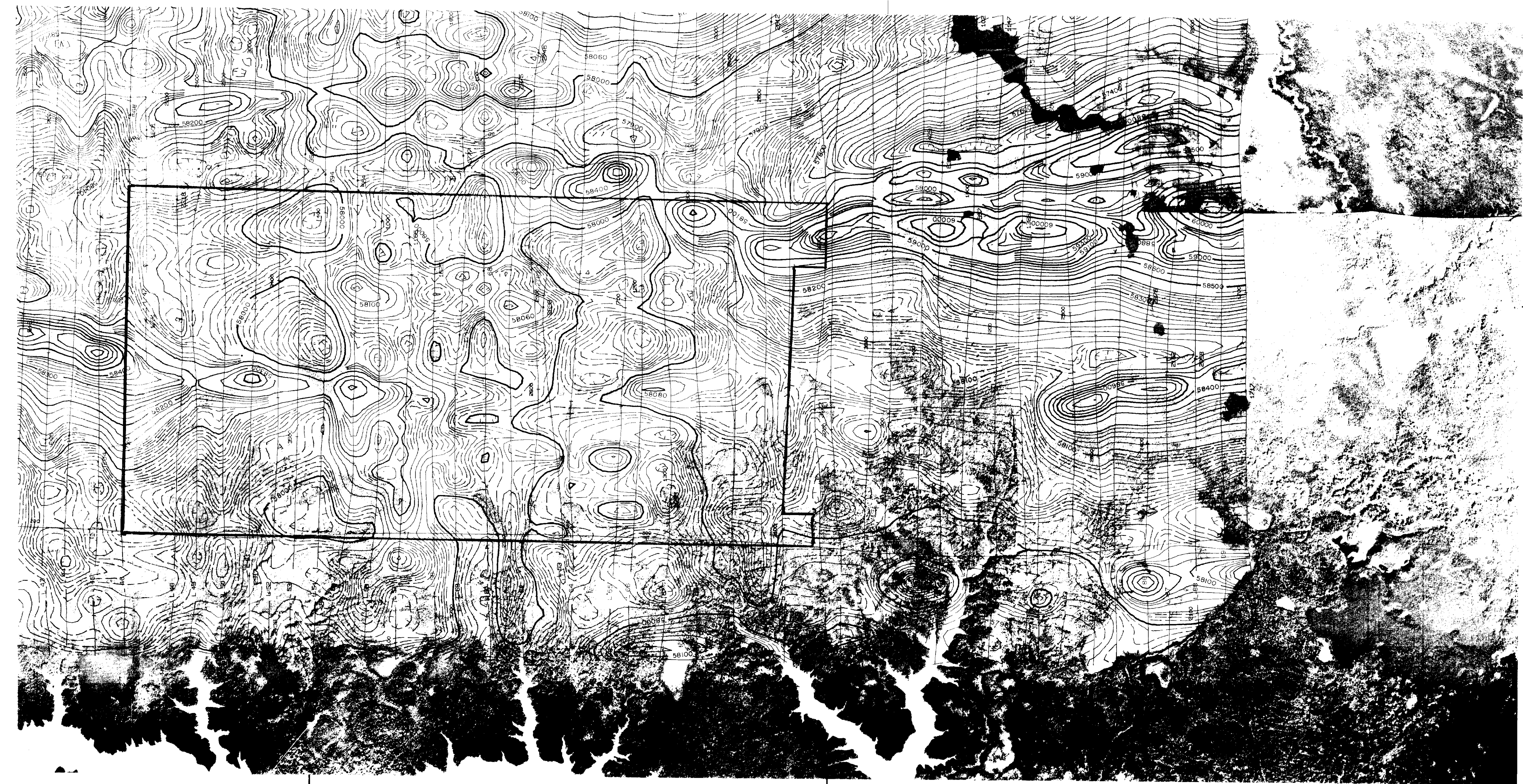
JAN 21 1987

PLAN NO - M-613

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

Rickard Twp.





80°25'


80°20'

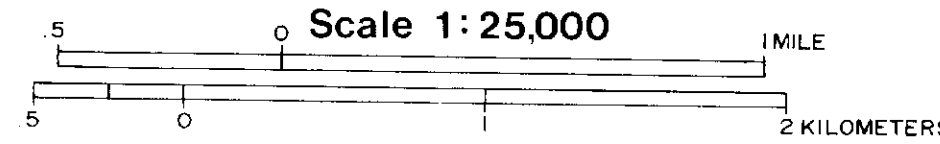
80°15'

48°50'



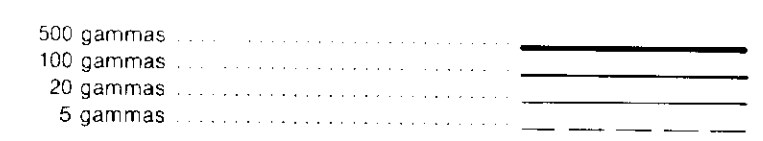
**UTAH MINES LTD.**  
**Abitibi Detroyes**  
 HELICOPTER-BORNE GEOPHYSICAL SURVEY

 Flown and compiled by  
 SANDER GEOPHYSICS LTD., KANATA, ONTARIO


**Scale 1:25,000**  
 MILE  
 2 KILOMETERS

May 1986

**AEROMAGNETIC  
 TOTAL FIELD MAP**



(1 gamma = 1 nanotesla in SI units)

*2.18.75*

*Dicio*

