



42A06NW8486 2.4323 BRISTOL

TEXASGULF

010

REPORT ON GEOPHYSICAL WORK

BRISTOL TOWNSHIP

N.T.S.: 42-A-5/6

CLAIMS:

ALLERSTON OPTION:

P-451027 - 034; P-451529 - 533
P-451541 - 548; P-480308 - 313
P-480315 - 318;
P-451399 - 400; P-479504 - 508; P-479715
P-517082 - 087; P-522040 - 043; P-525965

BRISTOL 66:

P-528155 - 163; P-528170 - 175;
P-528186 - 208

OCTOBER, 1981

W. A. GASTEIGER

RECEIVED

NOV 25 1981

MINING LANDS SECTION

TEXASGULF CANADA LTD.
REPORT ON GEOPHYSICAL WORK
BRISTOL TOWNSHIP
N.T.S.: 42-A-5/6

INTRODUCTION

During May 1981, a combined airborne electromagnetic and magnetic survey was flown by Texasgulf Inc. over a number of Townships west of Timmins. Two contiguous groups of claims situated in northern Bristol Township were traversed by both east-west and north-south flight lines. One group, the Allerston Option contains 81 claims; the Bristol 66 claim group, wholly owned by Texasgulf Canada Ltd., contains 38 contiguous claims.

Access to the claim groups can be achieved by a four-wheel drive vehicle at most times of the year.

SURVEY DETAILS:

Flight lines traversed the claims in both north-south and east-west orientations. Line spacing in both directions was (1/8) one-eighth mile. The electromagnetic survey used the Barringer/Questor Mark VI Input (R) System. A Sonotek P.M.H. 5010 Proton Magnetometer was used to record the magnetic values. Both instruments are fully described in the Appendix.

SURVEY RESULTS:

BRISTOL 66:

Only the east-west flying has been filed for this property as the north-south survey was filed previously. As with the north-south flying, this survey indicates a conductive zone on the southern edge of the property trending from the south-west to

the north-east. This zone is of moderate conductivity and appears to be lying on the contact between higher magnetic susceptibility rocks to the north (probably mafic volcanics) and lower susceptibility sediments or felsic volcanics to the south.

The magnetic pattern shows two major trends on this property; the north-south trends due to diabase dikes and the more or less east-west trends due to the volcanic stratigraphy.

ALLERSTON OPTION:

Both the north-south and east-west flying are filed for this block; however, the east-west flying extends only over the north half of the claim group.

A great deal of previous work has been done on this property including ground geophysics, geochemistry trenching, overburden drilling, and diamond drilling. There have been hints of gold mineralization but no substantial continuous zones have been detected.

The conductive zone detected on Bristol 66 extends into the eastern end of this claim block. No other conductors were detected. The magnetic pattern is dominated by north-south trending diabase dikes. The government geologic mapping indicates that a major geologic break runs east-west through this property. The airborne magnetics shows no obvious indication of such a structure.

CONCLUSIONS AND RECOMMENDATIONS:

Low values of gold mineralization in trenching and drilling, especially on the Allerston property suggests favourable conditions for the discovery of gold deposits. A program of overburden drilling to detect geochemical indications in basal till samples may be helpful in locating the source areas of gold deposits.



WILL GASTEIGER

APPENDIX

EQUIPMENT

The aircraft is equipped with a Mark VI INPUT (R) airborne E.M. system and Sonotek P.M.H. 5010 Proton Magnetometer. Radar altimeters are used for vertical control. The outputs of these instruments together with fiducial timing marks are recorded by means of galvanometer type recorders using light sensitive paper. Thirty-five millimeter continuous strip cameras are used to record the actual flight path.

(I) BERRINGER/QUESTOR MARK VI INPUT (R) SYSTEM

The Induced Pulse Transient (INPUT) system is particularly well suited to the problems of overburden penetration. Currents are induced into the ground by means of a pulsed primary electromagnetic field which is generated in a transmitting loop around the aircraft. By using half sine wave current pulses and a loop of large turns-area, the high output power needed for deep penetration is achieved.

The induced current in a conductor produces a secondary electromagnetic field which is detected and measured after the termination of each primary pulse. Detection is accomplished by means of a receiving coil towed behind the aircraft on four hundred feet of cable,

and the received signal is processed and recorded by equipment in the aircraft. Since the measurements are in the time domain rather than the frequency domain common to continuous wave systems, interference effects of the primary transmitted field are eliminated. The secondary field is in the form of a decaying voltage transient originating in time at the termination of the transmitted pulse. The amplitude of the transient is, of course, proportional to the amount of current induced into the conductor and, in turn, this current is proportional to the dimensions, the conductivity and the depth beneath the aircraft.

The rate of decay of the transient is inversely proportional to conductivity. By sampling the decay curve at six different time intervals, and recording the amplitude of each sample, an estimate of the relative conductivity can be obtained. By this means, it is possible to discriminate between the effects due to conductive near-surface materials such as swamps and lake bottom silts, and those due to genuine bedrock sources. The transients due to strong conductors such as sulphides exhibit long decay curves and are therefore commonly recorded on all six channels. Sheet-like surface materials, on the other hand, have short decay curves and will normally only show a response in the first two or three channels.

(iii)

The samples, or gates, are positioned at 310, 490, 760, 1120, 1570 and 2110 micro-seconds after the cessation of the pulse. The widths of the gates are 180, 180, 360, 360, 540, and 540 micro-seconds respectively.

For homogeneous conditions, the transient decay will be exponential and the time constant of decay is equal to the time difference at two successive sampling points divided by the log ratio of the amplitudes at these points.

(II) SONOTEK P.M.H. 5010 PROTON MAGNETOMETER

The magnetometers which measure the total magnetic field have a sensitivity of 1 gamma and a range from 20,000 gammas to 100,000 gammas.

Because of the high intensity field produced by the INPUT transmitter, the magnetometer results are recorded on a time-sharing basis. The magnetometer head is energized while the transmitter is on, but the read-out is obtained during a short period when the transmitter is off. Using this technique, the head is energized for 0.83 seconds while the precession frequency is being recorded and converted to gammas. Thus a magnetic reading is taken every 1.13 second.

For this survey, a lag factor has been applied to the data. Magnetic data recorded on the analogue records at fiducial 10.00 for example would be plotted at fiducial 9.95 on the mosaics.

DATA PRESENTATION

The symbols used to designate the anomalies are shown in the legend on each map sheet, and the anomalies on each line are lettered in alphabetical order in the direction of flight. Their locations are plotted with reference to the fiducial numbers on the analog record.

A sample record is included to indicate the method used for correcting the position of the E.M. Bird and to identify the parameters that are recorded.

All the anomaly locations, magnetic correlations, conductivity-thickness values and the amplitudes of channel number 2 are listed on the data sheets accompanying the final maps.

GENERAL INTERPRETATION

The INPUT system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Differentiation is based on the rate of transient decay, magnetic correlation and the anomaly shape together with the conductor pattern and topography.

Power lines sometimes produce spurious anomalies but these can be identified by reference to the monitor channel.

Railroad and pipeline responses are recognized by studying the film strips.

Graphite or carbonaceous material exhibits a wide range of conductivity. When long conductors without magnetic correlation are located on or parallel to known faults or photographic linears, graphite is most likely the cause.

Contact zones can often be predicted when anomaly trends coincide with the lines of maximum gradient along a flanking magnetic anomaly. It is unfortunate that graphite can also occur as relatively short conductors and produce attractive looking anomalies. With no other information than the airborne results, these must be examined on the ground.

Serpentinized peridotites often produce anomalies with a character that is fairly easy to recognize. The conductivity which is probably caused in part by magnetite, is fairly low so that the anomalies often have fairly large response on channel #1; they decay rapidly, and they have strong magnetic correlation. INPUT E.M. anomalies over massive magnetites show a relationship to the total Fe content. Below 25 - 30%, very little or no response at all is obtained, but as the percentage increases the anomalies become quite strong with a characteristic rate of decay which is usually greater than that produced by massive sulphides.

Commercial sulphide ore bodies are rare, and those that respond to airborne survey methods usually have medium to high conductivity. Limited lateral dimensions are to be expected and many have magnetic correlation caused by magnetite or pyrrhotite. Provided that the ore bodies do not occur within formational conductive zones as mentioned above, the anomalies caused by them will usually be recognized on an E.M. map as priority targets.



42A06NW8486 2.4323 BRISTOL

900

December 14, 1981

2.4323

Office of the Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for an Airborne Geophysical
(Electromagnetic and Magnetometer) Survey on Mining Claims
P.451027 et al, in the Township of Bristol.

This material will be examined and assessed and a statement of
assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

J. Skura/bk

cc: Texasgulf Canada Ltd.
Timmins, Ontario
Attention: W.A. Gastieger



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) Geophysical (Airborne)
 Township or Area Bristol Township
 Claim Holder(s) Texasgulf Canada Ltd.
P.O. Box 1140, Timmins, Ontario P4N 7H9
 Survey Company Quastor Surveys
 Author of Report W. A. Gastieger
 Address of Author P.O. Box 1140, Timmins, Ontario P4N 7H9
 Covering Dates of Survey May 1981 - November, 1981
 (linecutting to office) _____
 Total Miles of Line Cut _____

SPECIAL PROVISIONS CREDITS REQUESTED	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic _____	
	-Magnetometer _____	
	-Radiometric _____	
ENTER 20 days for each additional survey using same grid.	-Other _____	
	Geological _____	
	Geochemical _____	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer 40 Electromagnetic 40 Radiometric _____
 (enter days per claim)

DATE: Mar 18/81 SIGNATURE: W. A. Gastieger
 Author of Report or Agent

Res. Geol. _____ Qualifications 2.1798

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED	
List numerically	
P	451027
(prefix)	(number)
P	451028
P	451029
P	451030
P	451031
P	451032
P	451033
P	451034
P	451541
P	451542
P	451543
P	451544
P	451544
P	451545
P	451546
P	451547
P	451548
P	451529
P	451530
P	451531
P	451532
P	451533
(See Attached List)	
TOTAL CLAIMS <u>81</u>	

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) _____ Magnetic and Electromagnetic

Instrument(s) _____ Mag: Sonotek P.M.H. 5010 Proton Magnetometer

(specify for each type of survey) E.M. Barringer (Questor Mark III

Accuracy _____ Mag: \pm 1 gamma E.M.: 30 p.p.m. Input (R) System

(specify for each type of survey)

Aircraft used _____ Britten-Norman Trislander

Sensor altitude _____ \approx 45 metres above ground

Navigation and flight path recovery method _____ S-pattern flight path using $\frac{1}{4}$ mile turns. Recovery

accomplished by comparison of 35mm film with mosaic to locate fiducial points.

Aircraft altitude _____ 122 metres _____ Line Spacing _____ 200 metres

Miles flown over total area _____ 3605 miles _____ Over claims only _____ $\hat{=}$ 80 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 _____

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 _____

P-451399
P-451400
P-479504
P-479505
P-479506
P-479507
P-479508
P-479715
P-480315
P-480316
P-480317
P-480318
P-517082
P-517083
P-517084
P-517085
P-517086
P-517087

P-522040
P-522041
P-522042
P-522043
P-525965
P-480308
P-480309
P-480310
P-480311
P-480312
P-480313

Bristol

P-528155
P-528156
P-528157
P-528158
P-528159
P-528160
P-528161
P-528162
P-528163
P-528170
P-528171
P-528172
P-528173
P-528174
P-528175
P-528186
P-528187
P-528188
P-528189
P-528190
P-528191
P-528192
P-528193
P-528194
P-528195
P-528196
P-528197
P-528198
P-528199
P-528200

P-528201
P-528202
P-528203
P-528204
P-528205
P-528206
P-528207
P-528208



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

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

#429
2.4323
The Mining Act **2.4323**

P.45100

Type of Survey(s) Airborne Geophysical	Township or Area Bristol
Claim Holder(s) Texasgulf Canada Ltd.	Prospector's Licence No. T-1
Survey Company Questor Surveys	Survey Dates (linecutting to office) 01 06 80 07 10 81 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author (of Geo-Technical report) W. A. Gasteiger, P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario P4N 7H9	

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	479503 (E.M.)	18	P	451547 (E.M.)	18
	451027 (E.M.)	40		517082 (E.M.)	30
	451028 (E.M.)	40		517083 (E.M.)	30
	451029 (E.M.)	40		517084 (E.M.)	30
	451030 (E.M.)	40		517085 (E.M.)	30
	451031 (E.M.)	40		517086 (E.M.)	30
	451032 (E.M.)	40		517087 (E.M.)	30
	451033 (E.M.)	40		451548 (E.M.)	18
	451034 (E.M.)	40		453999 (E.M.)	18
	480308 (E.M.)	40		454000 (E.M.)	18
	480309 (E.M.)	40		479504 (E.M.)	18
	480310 (E.M.)	40		479505 (E.M.)	18
	480311 (E.M.)	40		479506 (E.M.)	18
	480312 (E.M.)	40		479507 (E.M.)	40
	480313 (E.M.)	40		479508 (E.M.)	40
	480315 (E.M.)	40		479715 (E.M.)	40
	480316 (E.M.)	40		522040 (E.M.)	30
	480317 (E.M.)	40		522041 (E.M.)	30
	480318 (E.M.)	18		522042 (E.M.)	30
	451541 (E.M.)	18		522043 (E.M.)	30
	451542 (E.M.)	18		525965 (E.M.)	30
	451543 (E.M.)	18		451529 (E.M.)	40
	451544 (E.M.)	18		451530 (E.M.)	40
	451545 (E.M.)	18		451531 (E.M.)	18
	451546 (E.M.)	18		451532 (E.M.)	18
				451533 (E.M.)	18

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed
Airborne Mag and E.M.

Performed on Claim(s)
ALL

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

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

Report Completed **OCT 15 1981**

Date of Report **Oct. 6/81** Recorded Holder or Agent (Signature) *Neil Gasteiger*

Total number of mining claims covered by this report of work. **51**

FOR OFFICE USE ONLY

Total Days Recorded **2084** Date Recorded **OCT 15 1981** Mining Recorder *[Signature]*

Date Approved as Recorded **10.01.81** Director *[Signature]*

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
W.A. Gasteiger

571 Moneta Ave., P.O. Box 1140, Timmins, Ontario

Date Certified **Oct. 6/81** Certified by (Signature) *Neil Gasteiger*



Ministry of
Natural
Resources

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

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act **2.4323**

Bristol Twp.

R 528/55

#427

Type of Survey(s) Airborne Geophysical		Township or Area Bristol	
Claim Holder(s) Texasgulf Canada Ltd.		Prospector's Licence No. T-1	
Survey Company Questor Surveys		Survey Dates (linecutting to office) 01 06 81 13 10 81 Day Mo. Yr. Day Mo. Yr.	
Name and Address of Author (of Geo-Technical report) W.A. Gasteiger, P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario P4N 7H9		Total Miles of line Cut	

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	528155	40	P	528196	40
	528156	40		528197	40
	528157	40		528198	40
	528158	40		528199	40
	528159	40		528200	40
	528160	40		528201	40
	528161	40		528202	40
	528162	40		528203	40
	528163	40		528204	40
	528170	40		528205	40
	528171	40		528206	40
	528172	40		528207	40
	528173	40		528208	40
	528174	40			
	528175	40			
	528186	40			
	528187	40			
	528188	40			
	528189	40			
	528190	40			
	528191	40			
	528192	40			
	528193	40			
	528194	40			
	528195	40			

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.

<i>Airborne</i>	Days per Claim
Electromagnetic (EM)	20
Magnetometer (Mag)	20
Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed: **GROUPINE MINING DIVISION**

Performed on Claim No. **RECEIVED**

OCT 13 1981

Calculation of Expenditures: **10 9 10 11 12 13 14 15 6**

Total Expenditures: **RECORDED**

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.

Receipt No. _____

Report Completed

Date of Report: **Oct. 13/81**

Recorded Holder or Agent (Signature): *W.A. Gasteiger*

For Office Use Only

Total Days Cr. Recorded: **1520**

Date Recorded: **Oct 15/81**

Mining Recorder: *[Signature]*

Date Approved for Recording: **83.01.25**

Total number of mining claims covered by this report of work: **38**

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:
W. A. Gasteiger, P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario P4N 7H9

Date Certified: **Oct 13/81**

Certified by (Signature): *W.A. Gasteiger*

RECEIVED
OCT 22 1981
MINING LANDS SECTION



Mining Lands Comments

*please refer to #11, plan on plastic
sheet. there are no outstanding logs
awaiting review with the O.A.
Nishan*

To: Geophysics *Mr Barlow.*

Comments

Approved Wish to see again with corrections Date *Jan 4 / 83* Signature *Roger T. Selw*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections Date Signature

To: Geochemistry

Comments

LD

Approved Wish to see again with corrections Date Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)



Mining Lands Comments

To: Geophysics *Mr. Barlow.*

Comments

- Key map needed
- locate claim posts or other topographic features

Approved Wish to see again with corrections

Date: *Oct 30 / 82* Signature: *Rgn Rln*

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date: Signature:

To: Geochemistry

Comments

Approved Wish to see again with corrections

Date: Signature:

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)



The Mining Act

Type of Survey(s) Airborne Geophysical		Township or Area Bristol	
Claim Holder(s) Texasgulf Canada Ltd.		Prospector's Licence No. T-1	
Survey Company Questor Surveys		Survey Dates (linecutting to office) 01 06 80 07 10 81 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) W. A. Gasteiger, P.O. Box 1140, 571 Moneta Ave., Timmins, Ontario P4N 7H9			

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	479503	18	P	451547	18
	451027	40		517082	30
	451028	40		517083	30
	451029	40		517084	30
	451030	40		517085	30
	451031	40		517086	30
	451032	40		517087	30
	451033	40		451548	18
	451034	40		453999	18
	480308	40		454000	18
	480309	40		479504	18
	480310	40		479505	18
	480311	40		479506	18
	480312	40		479507	40
	480313	40		479508	40
	480315	40		479715	40
	480316	40		522040	30
	480317	40		522041	30
	480318	18		522042	30
	451541	18		522043	30
	451542	18		525965	30
	451543	18		451529	40
	451544	18		451530	40
	451545	18		451531	18
	451546	18		451532	18
				451533	18

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim 40
	Magnetometer	40
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed Airborne Mag and E.M.
Performed on Claim(s) ALL
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.
--

Report Completed OCT 15 1981	Recorded Holder or Agent (Signature) W.A. Gasteiger
Date of Report Oct. 6/81	Receipt No.

FOR OFFICE USE ONLY		Total number of mining claims covered by this report of work. 51
Total Days Recorded 2084	Date Recorded OCT 15 1981	Mining Recorder [Signature]
Date Approved as Recorded OCT 07 1981	Regional/Branch Director	

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 W.A. Gasteiger	Date Certified Oct. 6/81	Certified by (Signature) [Signature]
571 Moneta Ave., P.O. Box 1140, Timmins, Ontario		

Godfrey Twp. - M.284

THE TOWNSHIP OF
OF
BRISTOL

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS ----- ●
- " , SURFACE RIGHTS ONLY ----- ○
- " , MINING RIGHTS ONLY ----- ◐
- LEASE, SURFACE AND MINING RIGHTS ----- ■
- " , SURFACE RIGHTS ONLY ----- □
- " , MINING RIGHTS ONLY ----- ▣
- LICENCE OF OCCUPATION ----- ▼

- ROADS
- IMPROVED ROADS -----
- KING'S HIGHWAYS -----
- RAILWAYS -----
- POWER LINES -----
- MARSH OR MUSKEG -----
- MINES -----
- CANCELLED -----

NOTES

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

Areas withdrawn from staking under Section
43 of the Mining Act (R.S.O. 1970).

Order No.	File	Date	Disposition
(R)	164584		Surface Rights Only

DATE OF ISSUE
DEC - 6 1982

Ministry of Natural Resources
TORONTO

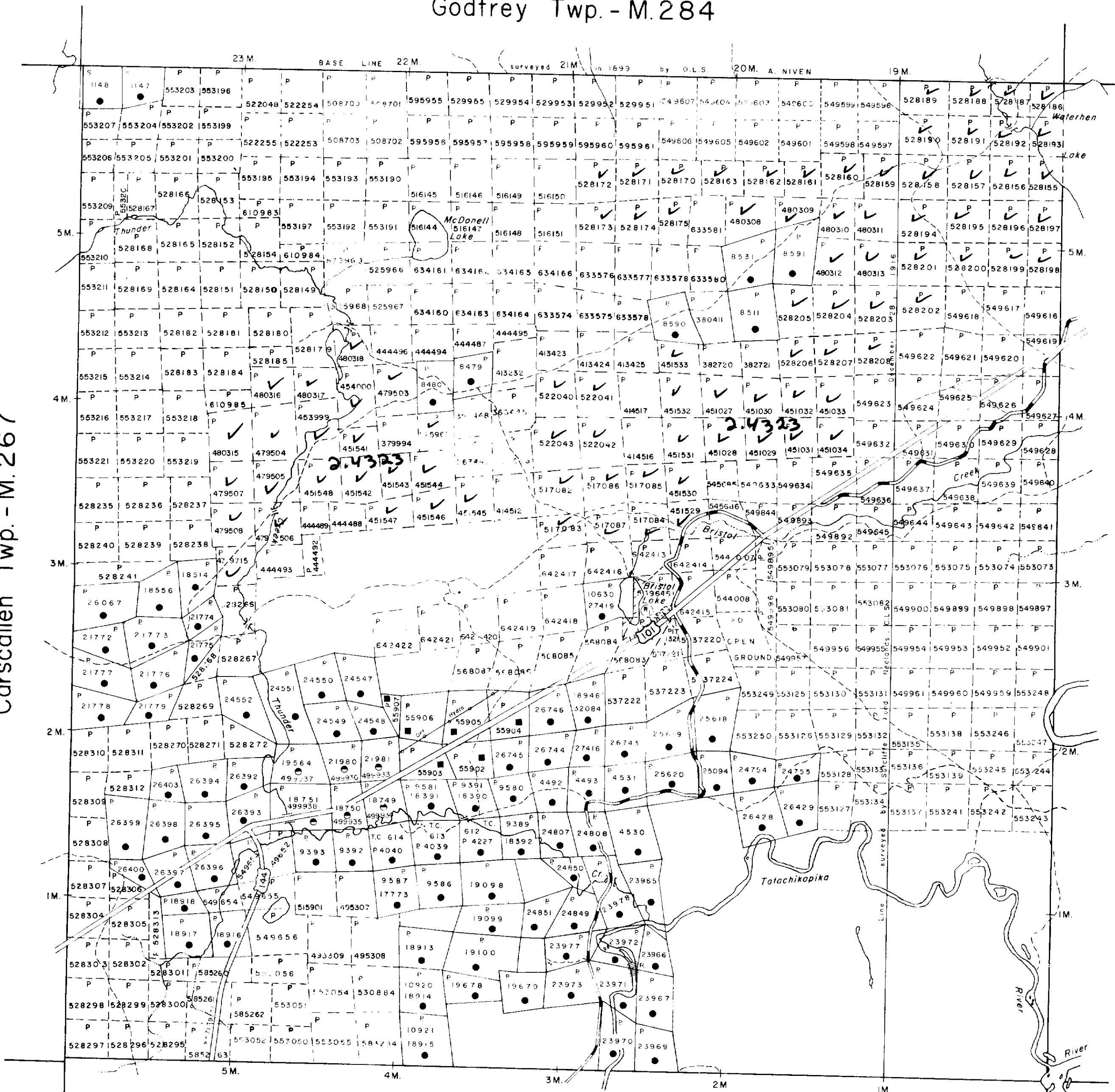
This township lies within the Municipality of
the CITY of TIMMINS.

PLAN NO. **M-264**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

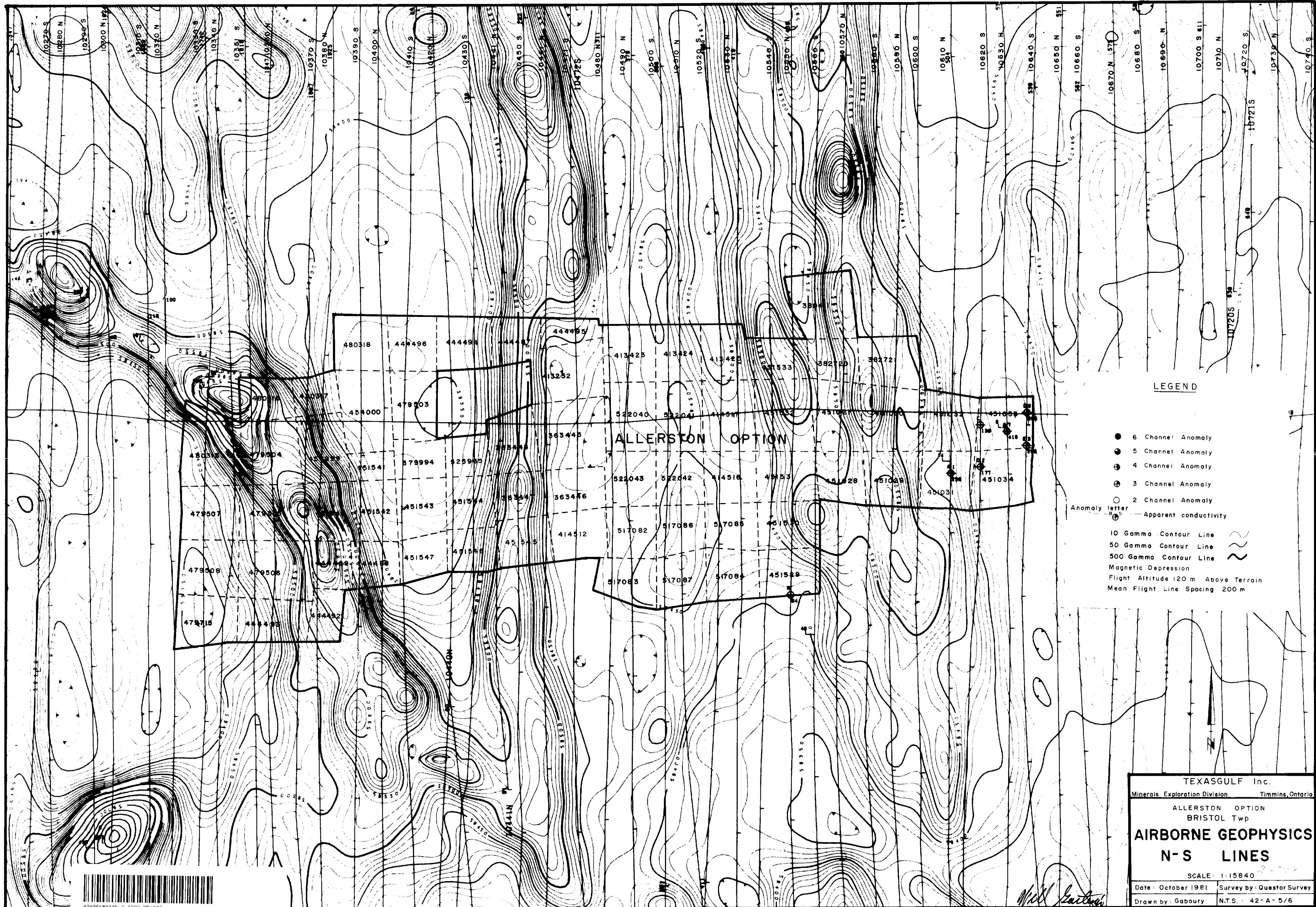
Carscallen Twp. - M.267

Ogden Twp. - M.305



Thorneloe Twp. - M.313





LEGEND

- 6 Channel Anomaly
- 5 Channel Anomaly
- 4 Channel Anomaly
- 3 Channel Anomaly
- 2 Channel Anomaly
- Anomaly letter
- Apparent conductivity
- 10 Gamma Contour Line
- 50 Gamma Contour Line
- 500 Gamma Contour Line
- Magnetic Depression
- Flight Altitude 120 m Above Terrain
- Mean Flight Line Spacing 200 m

TEXASGULF Inc.
 Minerals Exploration Division Timmins, Ontario

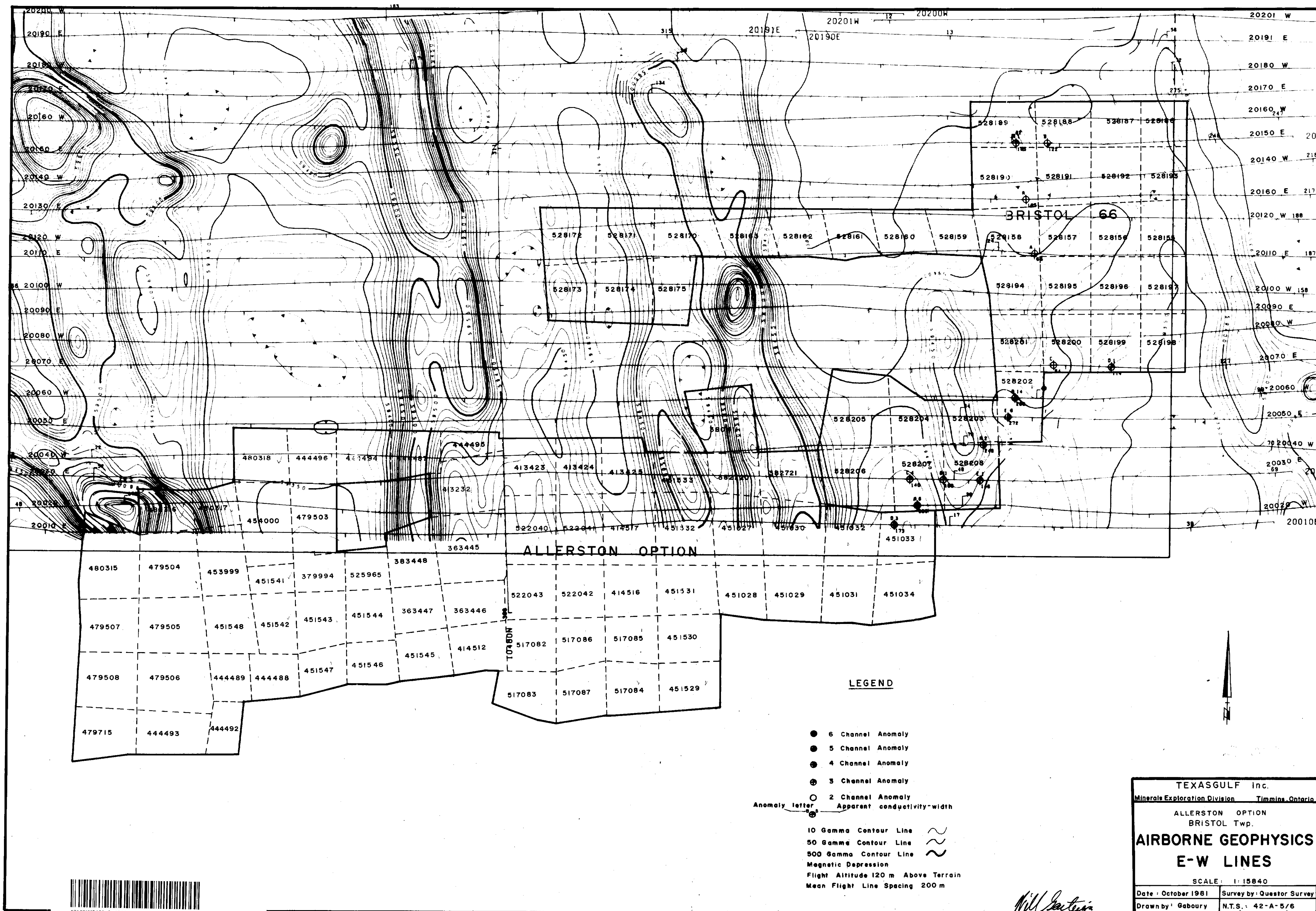
ALLERSTON OPTION
 BRISTOL Twp.

AIRBORNE GEOPHYSICS
N-S LINES

SCALE: 1:15840

Date: October 1981 Survey by: Questor Survey
 Drawn by: Gaboury N.T.S.: 42-A-5/6





TEXASGULF Inc.
 Minerals Exploration Division Timmins, Ontario

ALLERSTON OPTION
 BRISTOL Twp.

**AIRBORNE GEOPHYSICS
 E-W LINES**

SCALE: 1:15840

Date: October 1981 Survey by: Questor Survey
 Drawn by: Gaboury N.T.S.: 42-A-5/6

Will Sartorius