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GEOPHYSICAL REPORT

MINING LANDS SECTION

On The

Magnetic and Electromagnetic Surveys

Conducted on

Mining	Claims	L	591079	•	591084
			591099	-	591128
			619175	-	619180
			619461	-	619480
			619181	-	619194
			393758	-	393761
			393766	-	393769
			393777		

Located in

Blakelock and Tweed Townships

in the

Mining Division of Larder Lake Ontario

W. S. Mitchell



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INTRODUCTION

This report provides a description of the magnetic and electromagnetic surveys which were completed by Utah Mines Limited personnel, on mining claims located in Blakelock and Tweed Townships in the mining district of Larder Lake, Ontario. A Total of 85 mining claims in four separate claim groups: A, B, C, and E were covered by the ground geophysical surveys which were completed between January 18 and April 15, 1982.

MINING CLAIMS COVERED BY SURVEY

The 85 mining claims held by Utah Mines Limited in Blakelock and Tweed Townships are in four separate claim groups as follows:

Block A (62 claims) - L591079 - L591084, L591099 -

L591128, L619175 - L619180, L619461 - L619480 Block B (14 claims) - L619181 - L619194 Block C (4 claims) - L393766 - L393769 Block E (5 claims) - L393758 - L393761 & 393777

Claim blocks: A, B, and C are all located within Blakelock Township, and claim block E is located approximately six miles west of these three claim blocks in Tweed Township (Figure 1). All of the claims are within the Larder Lake

Mining Division of Ontario

LOCATION AND ACCESS

The claim groups are located in Blakelock and Tweed Townships approximately 44 miles northeast of Cochrane, Ontario. Block A comprising 62 claims is the largest of the claim blocks and is located just west of Mikwam and Brayley Lakes. 14 claims contained within Block B are located approximately one mile northeast of Block A claims on the east shore of Kanitama Lake. The Block B claims extend from Kanitama Lake southeasterly towards Little Mikwam Lake. Block C is a four claim group which is located on the northeastern shores of Little Mikwam Lake. The five claims of Block E are located in Tweed Township on and south of Spear Lake. The Block E claims are situated immediately east of the Detour Lake road and are approximately six miles distant from the main Block A group of claims.

During summer, float plane or helicopter can be used to access the property from Cochrane. In winter, Block E is readily accessible via the Detour Lake road, which is currently under construction and which branches north of Highway No. 652, at a point approximately twenty miles east of Cochrane. Snowmobile trails allow access to Blocks A, B and C from the Detour Lake road during the winter months.

GENERAL DESCRIPTION OF GEOLOGY, PHYSIOGRAPHY AND VEGETATION

All of the claim groups are covered by glacial drift, and no outcrop has been found on any of the claims. Ontario Department of Mines Map 2161, a four mile geological compilation sheet of the Coral Rapids - Cochrane Area covers Blakelock and Tweed Townships. This map indicates that the southern half of Blakelock and the extreme southeast corner of Tweed Townships are underlain by a series of mafic to felsic metavolcanic rocks and metasediments. The northern part of both Townships is interpreted as being underlain by granitic rocks.

There is very little variation in topographic relief in any of the claim blocks, which are generally thickly wooded with black spruce, poplar, cedar and minor birch. Areas of swamp, common in the northern part of grid A sustain only muskeg and small shrubs.

LINE CUTTING - GRIDS

Prior to completing the geophysical surveys, cut line grids were established on each of the claim blocks. The line cutting was completed between January 18 and March 10 by Dane Inc. of Amos, Quebec, under contract to Utah Mines Limited.

On the largest group of claims, claim Block A, an east-west base line (BL-0) was established from Monday Lake

in the west for 6,550 feet eastwards towards Brayley Lake. To avoid Brayley Lake the base line is offset 300 feet due south at line 64 east, from which point the base line continues east to line 104 east (10,400 feet east). Cross lines spaced at 400 foot intervals were cut from the base line to provide complete coverage of all 62 claims within Block A.

Additional directional control of the cross lines on the Block A grid is provided by four east-west trending tie lines. Two of the tie lines were established 4,000 feet and 8,000 feet north of the base line (lines 40 north and 80 north) while two other tie lines were positioned 4,000 feet and 6,600 south of base line zero (lines 40 south and 66 south). The tie line at line 80 north marks the northern boundary of grid A, while the tie line at 66 south forms the southern boundary.

Tie line 40 north also provided control for cross lines L68E to L92E which were cut on the northern section of grid A between the 4,000 and 8,000 foot tie lines only.

On claim Block B a base line extending 7,600 feet in the northwest-southeast direction provides the necessary control for cross lines of grid B which were cut at 400 foot intervals in a northeast-southwest direction. The base line on claim Block C was also cut in a northwest-southeast direction and extends for 2,800 feet. Cross lines on grid C were also established in a northeast-southwest direction at 400 foot intervals.

The base line for grid E extends 4,800 feet northwest to southeast, again with cross lines cut at 400 foot intervals in a northeast-southwest direction. Tie lines were not utilized on grids B, C or E because of the relatively short length of the cross lines.

Base lines and cross lines on each of the four grids were chained and picketed at 100 foot intervals. Pickets were all clearly marked with their respective grid designations to provide adequate station control for the planned geophysical surveys.

METHODS OF GEOPHYSICAL SURVEYS

(A) Magnetic Survey

Magnetic surveys were completed by Utah Mines Limited personnel on grids A,B,C and E during the period January 18, 1982 to April 15, 1982. The instrument used for the magnetic surveys was the Barringer GM-122 Proton Precession Magnetometer. The instrument operates on the principle of measuring the precession frequency of protons contained in a proton rich liquid in a sensor head when an induced magnetic field is abruptly removed. The sensor is mounted on a staff which can be held at arms length from the operator, thus decreasing the effect of any magnetic material that the operator may unknownly be wearing or carrying. The output from the GM-122 portable magnetometer is in the form of a five digit display in gammas. This magnetometer measures the total intensity of the earth's magnetic field with an accuracy of better than \pm 1 gamma and a resolution or sensitivity of 1 gamma. The instrument is portable and battery operated.

6.

Magnetic readings must be corrected for diurnal and instrumental drift. This was done by establishing central base stations on each of the grid as follows:

Grid	Location of Base Station	Base Station Reading (Gammas)
Grid A	L64E, 0+00	59558
Grid B	L40N, 0+00	60020
Grid C	L16N, 0+00	59413
Grid E	L12N, 0+00	59500

The base stations and their corresponding values are shown on the accompanying plan maps. On each of the four grids additional base stations were set up along the full length of the base lines. These base stations were corrected for diurnal and instrumental drift in relation to the central base station pertaining to each grid. All magnetometer readings were then taken at 100 foot intervals along the cross lines which were surveyed in loops from the base line. The operator would commence taking readings along the cross lines and return to the base station to complete his loop. In this way, any diurnal variations in the magnetic field or drift within the instrument could be monitored, and each reading taken along the loop could be corrected for the relative amount of dirunal drift. With base stations set up along the base line, readings along the cross line loops were normally completed and closed within a period of one hour.

All magnetometer readings were taken at 100' intervals over each grid and a total of 3,895 readings were recorded during this survey. After correcting the readings for diurnal and instrumental drift the values were plotted as gamma values on a map of the grid drawn to a scale of 1" to 400'. The plan map for each grid was plotted and contoured using computer methods.

(B) Electromagnetic Survey

The electromagnetic survey was carried out by Utah Mines Limited personnel using an Apex Max-Min II EM system. The Max-Min II EM unit consists of a transmitter coil and console which generates an oscillating primary field at one of four operating frequencies (222,444,888 or 1777 cycles per second). The choice of frequency is made primarily on the type and depth of overburden and the type, size and depth of target being sought. In general a lower frequency

will reduce geological noise, have increased depth penetration, but at the same time will reduce sensitivity of the system.

The transmitter coil of the Apex Max Min unit is connected to the receiving coil and console by a reference cable of suitable length. The choice of cable length is made primarily on the basis of depth to which EM penetration is desired for exploration. Generally, depth of exploration with an EM unit increases with coil separation.

The receiving console, once tuned and nulled for local ground conditions gives an automatic read out of the real and imaginary components of the secondary field as a percentage of the phase shift of the primary field. With no conductor present, no secondary field is produced and only the primary field is detected by the receiving coil with a response of zero, real and quadrature readings.

In the presence of a conductor, a secondary field is produced and negative real and quadrature readings are recorded. As the leading coil approaches the conductor, positive readings are observed which are commonly referred to as the positive shoulder. When the coils have moved to a point where the conductor is approximately mid way between the two coils, a maximum negative response will be observed. As the coils move off the opposite side of the conductor, a second positive shoulder is observed.

The readings obtained are plotted as percentages of the primary field at the midpoint between the transmitter and receiver coils. The values are then profiled to outline the anomalous regions. The shape of the profiles will depend upon the separation of the coils, the nature of the conductor present, and its physical location as well as the frequency at which the primary field is transmitted.

The depth penetration of this instrument is a function of the coil separation and is generally regarded as being one half to two thirds of the separation distance between the coils. The nominal sensitivity of the instrument is about 0.2% of the total field.

All four grids were surveyed with the Max-Min instrument using a 400 foot reference cable. Readings were taken at frequencies of 444 and 1777 cycles per second. The values of real and quadrature readings for each frequency are plotted on the accompanying maps of each grid.

INTERPRETATION OF THE GEOPHYSICAL RESULTS

A. Magnetic Survey

Results of the magnetometer surveys on each of the four grids A,B,C and E, are shown on the accompanying contoured magnetic maps for each respective claim block. The maps are drawn at a scale of 1" = 400' and the magnetic values are contoured at an interval of 100 gammas.

On Block A the most striking magnetic feature is a northeasterly trending zone of relatively high magnetic relief in the southern portion of the property. This magnetic feature coincides with several northeasterly trending electromagnetic anomalies.

Other areas of high magnetic intensity occur in the northwestern part of the claim block and in some cases again coincide with anomalous EM conductivity. A weak north/south trending feature in the western third of the property, possibly reflects a diabase dyke.

The magnetics on Block B indicate a strong northwesterly trending series of magnetic highs. There is again a broad coincidence with magnetic highs and anomalous EM conductivity.

On Block C a distinct zone of high magnetic values occur in the western part of the property. There is no coincident electromagnetic conductivity associated with these magnetic highs which are difficult to interpret because of the total lack of outcrop and undeterminate thickness of glacial overburden in this area.

Apart from a relatively weak easterly magnetic trend near the centre of claim block E, the magnetics over this area are relatively flat. The weak east trending magnetic high coincides with a moderate to weak electromagnetic conductivity anomaly.

B. Electromagnetic Survey.

Max-Min II data are plotted as a series of profiles on the accompanying plan maps of the grids drawn at a scale of 1" = 400'. The profile scale is 40% per inch for both frequencies 444 and 1777 Hertz. Areas of conductivity are shown on each of the maps and the anomalies are noted alphabetically.

On Block A anomalies A & B have significant strike length and as noted previously are located in the southern portion of the claim group coincident with an area of northeasterly trending magnetic highs. Also on Block A are a series of short strike length conductive anomalies C to H inclusive.

A long continuous conductive zone (anomaly I) trends northwest, southeast, across Block B and coincides with a similar trending zone of relatively high magnetic relief. A short strike length anomaly J, also with high magnetic expression is located approximatley 600' away from the main conductor at its northwestern limit.

B. Electromagnetic Survey (Continued)

Max-Min II data on Block C, indicates only weak deflection on the out-of-phase readings. This deflection probably represents overburden response or bedrock topography.

Two conductive anomalies were detected on Block E. These anomalies K and L, trend approximately eastwest and have weak coincident magnetic expression.

Conclusions

Conductive and magnetic anomalies located on Block's A, B, and E, appear to be untested anomalies and drill testing of the higher priority anomalies is warranted.

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W.S. Mitchell District Geologist Eastern Canada

WSM/ca

APPENDIX I

GEOPHYSICAL TECHNICAL DATA STATEMENT





FIGURE 2 LOCATION MAP CLAIM BLOCK A

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FIGURE 3 LOCATION MAP AND GRID PLAN CLAIM BLOCK B

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FIGURE 4 LOCATION MAP AND GRID PLAN CLAIM BLOCK C

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FIGURE 5 LOCATION MAP AND CRID PLAN CLAIM BLOCK E



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Utah Mines Ltd Suite 1406 4 King Street West Toronto, Ontario M5H 1B6

Attention: W.S. Mitchell

Dear Sirs:

RE: Geophysical (Electromagnetic and Magnetometer) Survey submitted on Mining Claims 1591079 et al in the Townships of Blakelock and Tweed

Enclosed are the plans, in duplicate, for the above-mentioned survey. Please plot on the plans, the original values at each station for both the Electromagnetic and Magnetometer Surveys and return the plans to this office.

For further information, please contact Mr.F.W. Matthews at (416)965-1380.

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

R. Pichette:mc

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cc: Mining Recorder Kirkland Lake, Ontario 900

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UTAH MINES LTD.

MINERAL EXPLORATION

SUITE 1406, 4 KING STREET WEST, TORONTO, ONTARIO, CANADA M5H 1B6

(416) 368-3884

Date: August 11, 1983

File: 2.4963

E.F. Anderson Whitney Block, Room 6450 Queen's Park, Toronto, Ontario M7A IW3

Dear Sir:

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In compliance with your request of June 17, the enclosed, signed plan maps in duplicate are being returned with data values posted at each station. In order to accommodate this the total number of maps and the titles for various map sheets have been altered. Since this affects the "Table of Contents" of the associated report, it is included in duplicate, for insertion to the report.

Sincerely yours,

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P.A. Diorio Geophysicist

PAD/ca

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Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 591079 et al in the Townships of Blakelock and Tweed.

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: 416/965-1316

J. Skura:sc

cc: Utah Mines Limited Toronto, Ontario Attn: W.S. Mitchell.

UTAH MINES LTD.

MINERAL EXPLORATION

SUITE 1406, 4 KING STREET WEST, TORONTO, ONTARIO, CANADA M5H 1B6 (416) 368-3884

RECEIVED

JUL 2 7 1982

MINING LANDS SECTION

Ministry of Natural Resources, Mining Lands Section, Room 6450, 99 Wellesley Street, West, Whitney Block, Queen's Park Toronto, Ontario M7A 1W3

Attention: Mr. Arthur Barr

Dear Sir:

July 26, 1982

Please find enclosed two complete signed copies of an Assessment Work Report, covering mining claims located in Tweed and Blakelock townships, Ontario. The Geophysical Assessment Reports hereby submitted pertain to the claims listed in the attached copy of the report of work form filed with the Ministry of Natural Resources, in Larder Lake on May 28, 1982.

I trust that you will find everything in order.

Sincerely yours,

W.S. Abotchell

W.S. Mitchell District Geologist Eastern Canada

WSM/ca Enclosures:

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Dane Inc. – Linecutting only D8 01 8218 50 482 92 Name and Addiess of Author (of Ge-Technical report) W.S. Mitchell, Builte 1406, 4 King Street, West, Toronto, Ontario, MSH 186 Special Provisions Credits Requested Days per fails Mining Claims Traversel (List in numerical sequence) Instructions Daphysical Claim For first survey: Electromagnetic Mining Claims Traversel (List in numerical sequence) For each additional survey: Electromagnetic Days per fails For each additional survey: Facilometric Spi108 Instructions Osciphysical Claim For each additional survey: Facilometric Spi108 Ener 20 days (for each) Osciphysical Spi108 Geological Spi108 Spi102 Geological Spi100 Spi122 Geological Spi100 Spi122 Airborne Credits Days per credits Spi109 Net: Special provisions erredits do not apply to Airborne Survey. Electromagnetic Spi102 View of the ordit do not apply to Airborne Survey. Electromagnetic Spi100 Spi100 Spi110 Spi124 Spi100 Spi110 Spi124 Spi100 Spi109 Spi110 Spi100 Spi110 Spi1	• Cut
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W.S. Mitchell, Suite 1406, 4 King Street, West, Toronto, Ontario, M5H 186 Special Provisions Credits Requested Support Instructions Geophysical Days print For first survey: Electromagnetic 40 For seak additional survey: Electromagnetic 40 Include line cuting! Magnetometric 591079 For seak additional survey: Realometric 591080 Enter 20 days (for each) Oseophysical 591081 Geophamical Geophysical 591082 Man Days Special Provisions Special Survey: Instructions Geophysical Special Provisions Geophysical Days per Claim Special Provisions Geophysical Days per Claim Special Provisions Man Days Electromagnetic Special Provisions Instructions Capital Special Provisions Other Capital Special Provisions Special Provisions Electromagnetic Special Provisions Complete reverse side Special Provisions Special Provisions Cotopical Capital Special Provisions Special Pro	
Special Provisions Credits Requested	•
Instructions Geophysical Day per Colaim - Electromagnetic Day per 40 For each additional survey: includes line cutting? Mining Claim - Service Mining Claim - Perix Mining Claim - Perix Mining Claim - Perix Mining Claim - Perix For each additional survey: using the same grid: - Enter 20 days (for each) - Enter 20 days (for each) - Enter 20 days (for each) - Online - Service - Service<	
For first survey: - Electromagnetic 40 Enter 40 deys. (This included line cutting) - Magnetometer 20 591080 - For survey: - Rediometric 20 591080 - 591120 - Enter 20 deys (for each) - Other - - 591082 - - - Enter 20 deys (for each) - Other - <td></td>	
Enter 40 deyr. (This	1-
For each additional survey: using the same grid: - Enter 20 days (for each) - Enter 20 days (for each) - Enter 20 days (for each) - Other - Padiometric - Other - S91109 - S91120 - S91121 - S91121 - S91121 - S91122 - S91121 - S91122 - S91123 - S91122 - S91123 - S91122 - S91123 - S91122 - S91123 - S91123 - S91122 - S91124 - S91123 - S91123 - S91124 - S91123 - S91124 - S91124 - S91124 - S91125 - S91126 - S91126<	
For each edditional survey: using the same grid: Enter 20 days (for each) Enter 20 days (for each) Geological S91082 591122 Geological S91083 S91122 Geochemical S91083 S91123 Man Days Geophysical Days per Claim S91099 S91123 Instructione Geophysical Days per Claim S91100 S91123 Man Days Electromagnetic S91100 S91126 S91100 S91125 S91101 S91126 S91101 S91102 S91126 S91126 S91102 S91102 S91126 S91126 S91102 S91102 S91126 S91127 S91102 S91102 S91126 S91126 S91103 Geological S91102 S91126 S91105 Geological S91105 Glap175 Geological S91105 S91106 Glap176 S91106 S91107 Glap178 Glap161 S91107 S91108 S91109 Glap162 S91100 S91100 S91110 Glap162 S91110 S91110 <td< td=""><td>1</td></td<>	1
Lesing the same grin: Soluar Enter 20 days (for each) Geological Geochemical S91082 Man Days Geochemical Tratuctions Geophysical Complete reverse side and enter total(d) here Electromagnetic - Magnatometer S91102 - Magnatometer S91102 - Other S91103 - Other S91103 - Other S91105 - Other S91106 - Other S91107 - S91108 - Other S91109 - Other S91108 - Other S91108 - S91109 S91108 - S91109 S91108 - S91109 S91110 - S91109 S91111 - Type	:
Geological Spins Man Days Geophysical Spins	
Man Days S91083 S91122 Man Days Geophysical Days per Claim S91099 S91123 Complete reverse side and enter total(l) here Electromagnetic S91100 S91126 - Magnetometer - Magnetometer S91102 S91127 - Radiometric - Magnetometer S91103 S91126 - Other - Other S91103 S91126 - Other - S91103 S91126 S91127 - Other - S91103 S91126 S91127 - Other - S91103 S91126 S91128 - Other - S91103 S91128 S91128 - Other - S91105 S91105 G19175 - Geological - S91106 S91107 G19178 - S91108 - S91108 G19179 G19180 - L A R D Entertiometer - S91100 S91110 G19462 - Type of Work P * foldid IS W IS IV IS - S91112 G19463 - S91111 - G19464 - S91113 G19464 - Type of Work P * fol	
Geochemical Spl 084 Spl 123 Instructions Geophysical Days per Claim Spl 099 Spl 124 Complete reverse side and enter total(s) here Electromagnatic Spl 100 Spl 124 Airborne total(s) here - Magnetometer Spl 100 Spl 125 Badiometric - Magnetometer Spl 100 Spl 126 Geological - Other Spl 103 Spl 126 Geological - Spl 104 Gig 175 Spl 106 Airborne Credits Geological Spl 106 Gig 1976 Note: Special provisions credits do not apply to Airborne Survey. Electromagnetic Spl 108 Gig 19179 L A R D Englionitisk K E Spl 100 Spl 110 Gl 9461 Gl 9461 Type of Work R Price Hold IS U I U I I Spl 102 Spl 113 Gl 9463 Performed on Caim(s) MAY 2 8 1982:1 Spl 113 Gl 9464 Am PM 718 19101112 112 13 14 15 16 Spl 114 Gl 9465	<u> </u>
Man Days Geophysical Days per Calm 591099 591124 Complete reverse side and enter total(s) here Electromagnetic 591100 591125 and enter total(s) here Magnetometer 591102 591126 Badiometric S91100 591127 591127 Badiometric S91103 591128 591127 Other Geological S91104 619175 Geological S91106 619175 619176 Geological S91106 619176 619176 Mote: Special provisions credits do not apply to Airborne Surveys. Electromagnetic S91108 619179 L A R D Englioritistic C Work Price of Work	<u>. </u>
Complete reverse side Electromagnetic 591100 591125 and enter total(s) here - Magnetometer 591101 591126 - Magnetometer - Magnetometer 591102 591127 - Radiometric - Other 591103 591128 - Other - Other 591103 591128 - Other - S91103 591128 591128 - Other - S91103 - S91128 591128 - Other - S91103 - S91128 - S91128 - Other - S91105 - Geological - S91105 - G19175 - Geochamical - Dave - S91106 - G19177 - G19177 Note: Special provisions credits do not apply to Airborne Survey. Electromagnetic - S91108 - G19180 - G19180 - L A R D Enteriometer - S91110 - S91110 - G19461 - S91111 - G19461 Type of Work Print Hold - G I G I U U G - MAY 2 8 19021 - S91113 - G19463 - S91114 - G19463 Ferformed on Celm(s) - MAY 2 8 19021 - S911	4
Complete reverse side Electromagnetic 591100 591125 and enter total(s) here - Magnetometer 591101 591127 - Radiometric - S91102 591127 - Radiometric - Other 591103 591128 - Other - S91104 619175 619175 Geological - S91106 - 619176 619176 Baochemical - Days per - S91108 619177 Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic - 591108 619179 Magnetometer - S91100 - 619180 619179 619180 Expenditures (exchrospower prippingits) - 591110 - 619461 619462 Type of Work P folded G G G S 1 V G - 591112 - 619463 - 619463 Performed on Calm(s) MAY 2 8 19021 - 591113 - 619463 AM - 7 18 191101112 112 314 1516 - 591114 - 619465	:
- Magnatometer - S91101 - S91126 - Radiometric - S91102 - S91128 - Other - Other - S91103 - S91128 - Other - S91103 - S91128 - S91128 Geological - S91103 - S91103 - S91128 Airborne Credits - Geochamical - S91105 - G19175 Note: Special provisions credits do not apply to Airborne Surveys. Days per Claim - S91106 - G19177 Magnatometer - Days per Claim - S91107 - G19178 - G19179 L A R D Frieriongster - S91108 - G19461 - G19461 - G19462 Type of Work Perior - MAY 2 8 19821 - G19462 - G19463 - G19463 Performed on C alm(s) - MAY 2 8 19821 - G19463 - G19464 - G19464 - 7 8 191011112 - 1 2 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	<u>· · · · · · · · · · · · · · · · · · · </u>
- Radiometric 591102 591127 - Other 591103 591128 - Other 591103 619175 Geological 591105 619175 Geological 591106 619176 Airborne Credits 591106 619177 Note: Special provisions credits do not apply to Airborne Surveys. Days per Claim 591108 619179 Magnetometer 591109 591101 619179 619180 L A R D Et exiomagnetic 591109 591101 619461 Type of Work Performet of U E U E U E 591111 619462 Seption of La R D Et exiomagnetic 591112 619463 619463 Type of Work Performet of U E U E U E 591112 619463 AM PM 71819101112(112(172(172(172(172(172(172(172(172	1
- Radiometric - Other 591103 591128 - Other - Other 591104 619175 - Geological - S91105 619176 - 619176 - Geochemical - S91106 - 619177 - 619178 - Airborne Credits - S91106 - 619177 - 619178 - Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic - 591107 - 619178 - Magnetometer - S91109 - - 591109 - - 619180 - 619461 - Expenditures (exchpdes,power etripping) - 591110 - - 619461 - - 619462 - Type of Work Performed on Celim(a) MAY - 2 8 1982 - - 591113 - 619463 - AM PM - 7 18 191101112 112 13 14 15 16 - - 591114 - 619465 -	
- Other - Other - S91103 - S91128 Geological Geochamical - S91105 - G19175 - G19175 - G19176 - G19176 - G19176 - G19177 Airborne Credits S91105 - G19175 - G19176 - G19177 - G19178 - G19178 Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic - S91107 - G19178 - G19178 L A R D Environmeter Magnetometer - S91109 - G19180 - G19180 - G19180 - G19180 - G19161 - G19461 - G19461 - G19461 - G19461 - G19461 - G19463 - G19463 - G19464 - G19464 - G19464 - G19465	
Geological 591104 619175 - Airborne Credits Geochemical 591106 619176 - Airborne Credits Sechemical 591106 619177 Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic 591108 619179 L A R D ERR/iometer S91108 591109 619169 L A R D ERR/iometer S91100 619461 619461 Type of Work Perfored ds U s U v s MAY 2 8 19821 591112 619463 Performed on Celm(s) MAY 2 8 19821 591113 619464 AM PM 591114 591114 619465	
Beochemical Sg1105 619176 Airborne Credits 591106 619177 Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic Magnetometer 591107 619178 L A R D Environetar K E 591109 619180 619161 Expenditures (excludes prover stripping) 591101 619461 619462 Type of Work Performed on Celim(s) MAY 2 8 19821 591112 619463 AM PM 591114 619465	
Beochemical 591106 619177 Airborne Credits Days per Claim 591107 619178 Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic 591108 619179 Magnetometer 591109 619180 619180 619180 L A R D Environeter 591100 619461 619461 Expenditures (excredes power stripping) 591110 619462 619462 Type of Work Prifold G G G G S MAY 2 8 19821 591112 619463 AM PM 591114 619464	
Airborne Credits Days per Claim 591107 619178 Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic 591108 619179 Magnetometer 591109 619180 619180 L A R D Enerionetter 591100 619461 Expenditures (exotopies power stripping) 591110 619462 Type of Work Periol MAY 2 8 1982 591112 619463 Performed on Celm(a) MAY 2 8 1982 591113 619464 AM PM 591114 619465	
Note: Special provisions credits do not apply to Airborne Surveys. Electromagnetic 591107 619178 L A R D Expenditures (exot proces, power, f3r ippring)_ Type of Work Performed on Celm(s) Magnetometer 591109 619180 619180 Performed on Celm(s) MAY 2 8 19821 AM PM 591112 619463 7 18 19 10 11 112 112 13 14 15 16 591114 619465	1
credits do not apply to Airborne Surveys. Electromagnetic 591108. 619179 L A R D Environmeter 591109 619461 L A R D Environmeter 591110 619461 Expenditures (excredes power stripping) 591111 619462 Type of Work Performed on Celm(s) MAY 2 8 1982; 591113 619464 AM PM 591114 619465	
Magnetometer 591109 619180 L A R D Endiometer 591109 619461 Expenditures (excharges, power, stripping) 591110 619462 Type of Work Prito Hd LS U LS U LS 591112 619463 Performed on Celm(s) MAY 2 8 1982; 591113 619464 7 181911011112111213141516 591114 619465	
LARD Expenditures 591110 619461 Expenditures excretes, power, strippingl 591111 619462 Type of Work Performed on Celm(s) MAY 28 19821 591113 619464 AM PM 591114 619465	
Expenditures (excrptles, power, stripping) 591110 619461 Type of Work Performed on Celm(s) MAY 2 8 1982, 591112 619463 Performed on Celm(s) MAY 2 8 1982, 591113 619464 7 181911011112111213141516 591114 619465	
Expenditures excluses reactives rea	1.
May PM 591112 619463 Performed on Celm(s) MAY 2.8 1982, 619464 AM PM 591113 619464 7 181911011112111213141516 591114 619465	+
Performed on Celm(e) MAY 2 0 1902; AM PM 7 18 19 10 11 12 1 1 2 13 14 15 16 591114 591114	<u> </u>
AM PM 7 18191101111211213141516 591114 619465	
	- <u> </u>
Calculation of Expenditure Days Credits	1
Total Expenditures Days Credits 591116	· ``
5 15 15 15 16 17	ache
Instructions Total Days Credits may be apportioned at the claim holder's renormal claims covered by this renormal claims covered by this	84
choice. Enter number of days credits per claim selected	
Report Completed	
Dete of Report Recorded Holder or Agent (Signer ()	<u>,</u>
May 27, 1982 W.D. Matchell 13:09.36 Quinton 50	4

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

APPENDED LIST OF CLAIMS SCHEDULE A

May 27, 1982

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		Expend Days CR			Expend Days CR	
L	619468	60	L	619186	60	
L	619469	•	L	619187		
L	619470		L	619188		
L	619471		L	619189		
L	619472		L	619190		
\mathbf{L}	619473		L	619191		
L	619474		L	619192		
L	619475		L	619193		
L	619476		L	619194		
\mathbf{L}	619477		L	393758	TOTIVED	
L	619478		L	393759	RECEIV	
L	619479		L	393760	1111 27 1982	
L	619480		L	393761	JUL -	0
L	619481 (Ţω.N.	L	393766	MINING LANDS SLEE	
L	619482 \$	J.J.N.	L	393767		
L	619483 🗸	- J. N.	L	393768		
L	619484	J. W. N.	L	393769		
L	619485 🕻	ī.ω. λ.			•	





Ministry of Natural Resources

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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) MAGNETOMETER - ELECTROMAGNETIC	
Township or Area BLAKELOCK AND TWEED TWSP.	
Claim Holder(s) UTAH MINES LIMITED LIC.T793	List numerically
Survey Company DANE INC. (LINECUTTING ONLY)	
Author of Report W.S. MITCHELL	(prefix) (number) L; 591080
Address of Author STE. 1406, 4 KING ST.W., TORONTO	-
Covering Dates of Survey JAN 18/82 - APR 15/82 (linecutting to office)	
Total Miles of Line Cut 85	
	L. 591083
SPECIAL PROVISIONS DAYS	L. 591084
CREDITS REQUESTED Geophysical	L. 591099
ENTER 40 days (includes –Electromagnetic 40	
line cutting) for firstMagnetometer20	
survey. –Radiometric	L
additional survey using Coological	L. 591102
same grid. Geochemical	L. 591103
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	T
Magnetometer Electromagnetic Radiometric	
(enter days per claim)	L. 591105
DATE: July 26 1982 SIGNATURE: W.A. Mothell	L591106
	= La. 591107
$\sim \sim 2/2$	T., 591108
Res. Geol Qualifications 2 162	
Previous Surveys	
File No. Type Date Claim Holder	
	·· L
	591113
	. + attached list

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GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey



			58YD
Station interval	100 feet	Line spacing	100 feet
Profile scale	1" = 400 feet		
Contour interval	.100 gammas		
		(a) A set of the se	
Instrument <u>Bar</u>	ringer Proton Preces	sion Magnetometer Total	Field
Accuracy – Scale	constant + 1, gammas	Bernard M. S. Starter and S. S. Starter and S.	
Diurnal correction	n method Linear Loop B	ase Station Control	
Base Station chec	k-in interval (hours) 1.0 ho	urs	
Base Station locat	ion and value Grid A L 6	4 E base station 0+00-5	9558 gammas :
Grid B L 4	0 N 0+00-60020 gamma	s; Grid C L 16 N 0+00	-59413 gammas;
Grid E L 1	.2 N 0+00-59500 gamma	S	
InstrumentAPE	X MAX MIN II		La La Construite y la complete d'Attable d'Attable de la construite de la construite de la construite de
Coil configuration	HORIZONTAL LOOP	a a series a A series a s	
Coil separation	400 feet	n an	
Accuracy <u>+ 1</u>	.8		
Method:	🗆 Fixed transmitter	Shoot back	: 🗖 Parallel lin
Frequency 444	1777 h.		
Instrument			
Instrument Scale constant			
Instrument Scale constant Corrections made			
Instrument Scale constant Corrections made			
Instrument Scale constant Corrections made Base station value	and location		
Instrument Scale constant Corrections made Base station value	and location		
Instrument Scale constant Corrections made Base station value Elevation accurac	and location		
Instrument Scale constant Corrections made Base station value Elevation accurac	and locationy		
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument	and locationy		
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument Method [] Tim	and locationy	Trequency Don	nain
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument Method Tim Parameters - On	and location y ne Domain time	Frequency Don Frequency Don Frequency _	nain
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument Method [] Tim Parameters - On - Off	and location y ne Domain time time	Frequency Don Frequency Range	nain
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument Method [] Tim Parameters - On - Off - Dela	y and location y time time ay time	Frequency Don Frequency Range	nain
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument Method [] Tim Parameters - On - Off - Dela - Inte	and location y ne Domain time time ay time egration time	Frequency Don Frequency Range	nain
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument Method Tim Parameters - On - Off - Dela Power	and location y time time time ay time egration time	Frequency Don Frequency Range	nain
Instrument Scale constant Corrections made Base station value Elevation accuract Instrument Method Tim Parameters - On Off Dela Electrode array	and location y time time time ay time cgration time	Frequency Don Frequency Range	nain
Instrument Scale constant Corrections made Base station value Elevation accurace Instrument Method Tim Parameters - On f Off Dela Electrode array Electrode spacing	and location y time ay time cgration time	Frequency Don Frequency Range	nain

SELF POTENTIAL Instrument_____ _ Range _ Survey Method _____ And the second Corrections made_____ RADIOMETRIC 영향은 이번 -영향의 전에 관련되어 있는 것이 있다. Instrument____ Values measured _____ Energy windows (levels)_____ Height of instrument_____Background Count_____ Size of detector_____ 나는 그렇는 말을 가는 것이. Overburden_____ (type, depth - include outcrop map) 。 1971年1月1日(1913年)。 1971年月日第二日第二日第二日第三日日 1971年日 - 1971年年年月日(1971年月日)(1971年月日)(1971年日)(1971年日)(1971年日)(1971年日)(1971年日)(1971年日)(1971年日)(1971年日)(1971年日)(1 **OTHERS** (SEISMIC, DRILL WELL LOGGING ETC.) Type of survey_____ Instrument _____ Accuracy_____ Parameters measured_____ Additional information (for understanding results)_____ • SANG NG SA AIRBORNE SURVEYS Type of survey(s)_____ Instrument(s) _____ (specify for each type of survey) tini. Na seriesta Accuracy_____ (specify for each type of survey) Aircraft used_____ 1. 1964 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 -Sensor altitude_____ Navigation and flight path recovery method Aircraft altitude_____Line Spacing_____Line Spacing______ ____Over claims only____ Miles flown over total area_____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken	The second se
rumbers of claims from which samples taken	
Total Number of Samples	ANAL VICAL METHODS
Type of Sample	Values expressed in:
(Nature of Material)	
Average Sample weight	p , p , b , C
	Cu, Pb, Zn, ~Ni, Co, Ag, Mo, As, (citcle)
Soil Horizon Sampled	Óthers
Jorizon Daulonment	Field Analysis (
Sample Donth	Extraction Method
Correin	Analytical Method
	Reagents Used
Prainage Development	Field Laboratory Analysis
Istimated Bange of Overburden Thickness	No. (
12	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drving, screening, crushing, ashing)	Commercial Laboratory (test
Aesh size of fraction used for analysis	Name of Laboratory
· · · · · · · · · · · · · · · · · · ·	Extraction Method
	Analytical Method
	Reagents Used
General	General
Anno 2010 - 10 - 10 - 10 - 10 - 10 - 10 - 10	

GEOPHYSICAL-GEOLOGICAL-GEOCHEMICAL TECHNICAL DATA STATEMENT

APPENDED LIST OF CLAIMS SCHEDULE A

L.	591114	L.	619472
L.	591115	L.	619473
L.	591116	L.	619474
L.	591117	L.	619475
L.	591118	L.	619476
L.	591119	L.	619477
L.	591120	L.	619478
L.	591121	L.	619479
L.	591122	L.	619480
L.	591123	L.	619181
L.	591124	L.	619182
L.	591125	L.	619183
L.	591126	L.	619184
L.	591127	L.	619185
L.	591128	L.	619186
L.	619175	L.	619187
L.	619176	L.	619188
L.	619177	L.	619189
L.	619178	L.	619190
L.	619179	L.	619191
L.	619180	L.	619192
L.	619461	L.	619193
L.	619462	L.	619194
L.	619463	L.	393758
L.	619464	L.	393759
L.	619465	L.	393760
L.	619466	L.	393761
L.	619467	L.	393766
L.	619468	L.	393767
L.	619469	L.	393768
L.	619470	L.	393769
L.	619471	L.	393777



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+ 53595 + 53594 + 53576
+ 53377 + 53262 + 53267 + 5326 + 5326 + 53267 + 53361 + 53361 + 53267 + 5364 + 53362 + 5364 + 53267 + 5364 + 5337 + 5364 + 53267 + 5364 + 5367 + 5364 + 5337 + 5364 + 5
+ 53317 + 53219 + 5321
+ 53257 + 53269
+ 53276 + 53190 + 53208
+ 53256 + 53251 + 53257
10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 100
Conversion Faster Faster <thfaster< th=""> Faster Faster</thfaster<>
+ 53 + 53224 + 53224 + 53244 +
+ 52264 + 53274 + 53262 + 53373 + 5337
+ 53224 + 53253 + 53326 + 53256 + 5326
+ 59233 + 59362 + 59262 + 59262 + 59263 + 59373 + 59369 + 5946
+ 532 13 + 532 65 + 532 65 + 532 65 + 532 65 + 533 62 + 533 77 1 + 536 62 + 537 77 1 + 536 62 + 537 77 1 + 536 76 + 536
40N + 532213 40N + 5347g + 53764 + 533354 + 533264 + 533267 + 5347g + 533354 + 5347g + 533354 + 53356 + 5347g + 5
+ 53325 + 53318 + 53318 + 53318 + 533262 + 53318 + 53262 + 53345 + 53425 + 53435 + 53426 + 534
+ 53252 + 53355 + 53252 + 53355 + 53252 + 53252 + 53451 + 53466 + 62757 + 53262 + 53356 + 53475 + 5347
+ 59252 + 59462 + 59253 + 59462 + 59253 + 59462 + 59253 + 59462 + 5946
+ 33 23 + 53 24 + 53 24 + 53 545 + 53 425 +
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LSEE 4 L56£ + LEGE+ 1.646+ L72E-n+ L76E-n+ LEGE-n+ L84E-n + +-2,2 +-2,2 +-2,3 +-2,5 +-1,4 +-1,5 +₩-1.6 |1.6 +-1.6 -.1 * 1.8 + 7^{2.7} +-2.5 +-2.5 |.5 |.5 |.5 |.4 |.4 |.4 |.4 5 5 5 5 5 5 + Je 1.9 + Je 1. +-1.7 -2.1 -2 2.8 2.7 2.8 2.8 2.8 4.5 1 619 +L1.7 E.3 +L1.3 2.6 4-1.4 -1.4 +-1.7 -5.2 +-4 -7.5 +-7.5 +-8.5 +-7.5 + };; |;;} 59**107**9 日 日本947 . . +-3 .2 619461 +515 +515 +10. +10. +16 619180 *1:7 + 1.5 1.7 + 1.0 1.7 + 2.2 3.7 + 2.0 3 + 2.5 2.3 + 1.6 8.3 + 2.2 1.5 + 72 3.6 +-1.3 9.5 +-1.4 8.9 -1.2 1,1 **] [**].e +-1.5 +-1.5 +-1.5 +-1.5 +-1.5 6 -15 $\begin{pmatrix} 1 & -1 & 1 \\ 2 & -1 & 1 \\ 2 & -1 & 0 \\ -1 & 0 \\ -1 & 0 \\ + & -1 & 0 \\ + & -1 & 0 \\ -1 & 0$ 4.7 +5|1 +7.4 +7.4 +-22.5 -6.5 +-37 -14.3 -11.5 P = 1 + - 2 E.5 + - 1.5 R.7 + - 1.5 + 2.3 -.5 + -11.1 4.5 7 -1.7 4 7 -1.2 †\$?.s 2.4 + -.5 2.6 + -1.3 +5 +-1.4 S 591080 1.2 ++1.3 +.5 +1.5 60N+114 HE 1 SER BEN d 50N + 2 F-.6 F.5 11:5 50N - 11:5 11:5 11:5 11:5 619479 50N 33 4.5 619472 SON 1.1 GBN || | | | 1 **61946** 4.5 8 3 6191 和 619176 415 415 645 4-18 645 4-1.8 545 4-1.8 45 1 . 4 1 . 7 1 . 1 1 . 5 4.9 4.9 (7... (-...,G 4 3 | |.e /3.e +-3.5 -.7 +-12.5 -3. 591081 61947,8 +-17 -3.8 +-1.2 +-1.5 +-1.5 |-... ++1.7 619479 1: 15.0**)** 117 |;"| (+-,|.5 \$↓4 619468 1:5

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