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MINING LANDS SECTION

" MAXMIN 11 "

REPORT

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ALLERSTON OPTION

MATHESON - EVELYN TWP.

FOR

ST. JOE CANADA INC.

SEPTEMBER 10th, 1982

J.C. Grant

Exsics Expl. Ltd.

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MAP ENVELOPE:

| GRID 1: | GRID AND CLAIMS |
|----------|---------------------------------|
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| GROUP 1: | MAX MIN II, 444 H_z |
| GROUP 1: | MAX MIN II, 1777 H_z |
| GROUP 2: | MAX MIN II, 444 Hz |
| GROUP 2: | MAX MIN II, 1777 H _z |

INTRODUCTION

This report deals with a maxmin ll survey, carried out by Exsics Exploration Ltd. for St. Joe Canada Inc. The results of the survey are explained, in detail, within this report.

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LOCATION AND ACCESS

The survey area is located approximately 20 miles northeast of Timmins. Access to the grid was by road from Timmins to the Matheson Evelyn Township line. An Argo was used for access to and from the survey grid.

GRID CHARACTERISTICS

The survey grid was divided into two groups. Group 1 covered Lots 7 to 10, Concessions V1 of Matheson Township and Lots 8 to 11, Concession 1 of Evelyn Township. Group 2 covered Lots 4 to 6, Concession V1 of Matheson Township.

The actual claims covered are listed below.

Group 1

Group 2

| P P P P | 632852 632853 452498 452499 | P P P | 393105 393104 393103 452461 | P P P | 393738 393739 393740 393741 |
|------------------|--------------------------------------|-------------|--------------------------------------|-------------|--------------------------------------|
| P | 452500 | Ρ | 452462 | P | 617737 |
| Ρ | 617738 | Ρ | 452463 | P | 628018 |
| Ρ | 624601 | Ρ | 452464 | Р | 628017 |
| Ρ | 624600 | Ρ | 624629 | P | 618931 |
| Ρ | 393110 | Ρ | 624630 | · P | 618 932 |
| Р | 393109 | Р | 617736 | | |
| Ρ | 393108 | P | 617735 | | |
| Ρ | 393107 | Ρ | 617734 | | |
| σ | 202106 | q | 617733 | | |

LINECUTTING

A total of 54 kilometers of grid lines were cut on Group 1. The Baseline azimuth was 090 degrees. Cross lines were chained at 100 meter intervals with station intervals chained at 25 meter intervals.

A total of 23 kilometers of grid lines were cut on Group 2. The Baseline azimuth was 090 degrees. Cross lines were chained at 100 meter intervals with station intervals chained at 25 meter intervals.

The MaxMin 11 survey was carried out using a Apex Parametrics unit. A 150 meter coil seperation was used and frequencies 1777hz and 444hz were read on the following lines.

- <u>Group 1</u>: MaxMin 11 lines surveyed were 0+00, 400ME, 800ME, 1200ME, 1600ME, 2000ME, 2400ME, 2800ME, 3200ME, 3600ME, 4000ME.
- Group 2: MaxMin 11 lines surveyed were 0+00, 400ME, 800ME, 1200ME, 1600ME, 2000ME.

Detailed explanations of the MaxMin ll unit and its characteristics are included in the back of this report as Appendix A.



MaxMin 11 results for <u>Group # 1</u> :

. .

The MaxMin 11 survey located 2 possible main zones called A and B and two minor zones.

<u>Zone A</u>

(L 2000ME L 2400ME @ 1+25MN to 1+40MN)

> <u>L 2000ME</u> 1777hz ---- depth to source of -49 meters ---- conductivity value of 1.5 MHOS

<u>L 2400ME</u> 1777hz ---- depth to source of -60 meters

> ---- conductivity value of 1.5 MHOS

444hz ---- depth to source of -88 meters

> ---- conductivity value of 10MHOS

> > ---- dip of the zone is near vertical

<u>Zone B</u>

(L 2000ME to L 2400ME 475MN to 425MN)

L 2000ME

- 1777hz ____ depth to source -12 meters
 - ___ conductivity value
 of 1 MHOS
- 444hz ____ depth to source of -82 meters
 - ___ conductivity value
 of 6 MHOS

L 2400ME

— conductivity value of 1 MHOS

- 444hz ____ depth to source of -82 meters
 - ____ conductivity value of 6 MHOS
 - ____ dip of this zone
 - is near vertical

of 0.5 MHOS

___ dip is near vertical

| Secondary Zone: | | |
|--|--------|--|
| (L 1600ME, 375MN) | 1+44hz | depth to source |
| | | of -75 meters |
| <i>.</i> . | | <pre> conductivity value of 5 MHOS</pre> |
| <u>Secondary Zone</u> : (1.2400ME, 775MN) | 1777hz | depth to source of -12 meters conductivity value |

.

MaxMin 11 results for Group # 2

The MaxMin ll survey showed two main zones which may be continuous to both east and west. There was also a short stronger zone to the north-east striking off the grid.

Characteristics:

| Zone A | | |
|---|----------------------|---|
| L 800ME (125MS) L 1200ME (150MS) | 1777hz: | depth to source of -87 meters conductivity value of 2.5 MHOS dip of zone near vertical |
| | 444hz: | depth to source is undetermined due to the weakness of the response |
| <u>Zone B</u> I, 1200ME (225MN) L1600ME (175MN) | (L 1200ME 1777hz: |) - depth to source of -60 meters - conductivity value of 1 MHOS |
| . • | 444hz: | depth to source of -87 meters conductivity value of 3.5 MHOS dip of zone is near vertical |
| | (L 1600ME 1777hz: |) - depth to source of -30 meters - conductivity value of 1 MHOS |
| | <i>l</i> +44hz: | depth to source of -94 meters cond. value 6 MHOS dip of zone is near vertical to south |

(Group # 2 con't.)

<u>Zone C</u> L 2000ME (425-475MN)

. .

1777hz: - depth to source of -45 meters - conductivity value of 1 MHOS

- 444hz: depth to source of -105 meters -conductivity value of 15-20 MHOS dip of zone is
 - near vertical

<u>Zone A</u>

This may be a continuous zone between lines 2000ME and 2400ME. The zone appears to be of bedrock source.

<u>Zone B</u>

This zone may also be continuous between 2000ME and 2400ME. Because of the consistency in depth and MHO value on the 4444 frequency, the probable source is in bedrock.

<u>Secondary Zone</u>: L 1600ME (375MN) This zone may continue to the east or west and appears to be a legitimate bedrock response.

<u>Secondary Zone</u>: L 2400ME (775MN) This zone appears to be an overburden response only.

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MINING LANDS SECTION

APPENDIX A

Max Min II Specifications



iPECIFICATIONS:

| | | • | | |
|---------------------|--------------------------------------|--------------------------------|------------------------|---|
| requencies: | 222,444,888. | 1777 and 3555 Hz. | Repeatsbility: | ±0.5% to ±1% normally, depend |
| lodes of Operation: | MAX: Transmitt | en coil plane and ne- | | on conditions, frequencies and separation used, . |
| | Ceiven coi (Mex-cour | ved; Horizontal-loop | Transmitter Output: | - 222Hz : 175 Arm ² |
| | mode), Us | ed with refericable. | | - 444Hz : 160 Atm2 |
| | MIN: Transmitt | an coilplans horizon- | | • 255 Hz : 100 Atm ² |
| | ticel (Mi | n-coupled mode). | | • 3555Hz : 30 Atm |
| | Used wit | in reference cable. | Receiver Betteries: | SV trans radio tune homosis- |
| | V.L. : Trenemicc | ar coil plane verti- | | Life: approx. 35hrs. continue |
| | cel and rel zonral (V- | rtical-loop model | | ty (alkaline, 0.5 Ah), less in c |
| | Used wit | thout reference | | weather. |
| | cable, ir | n parallel lines. | Transmitter | |
| Separations | 25 50 000 | | Batteries: | 12V 7.5Ah Gel-Cell rechanges |
| | or 100, 200, 30 | 20,400,600 and | _ | batteries (2×6V in series). |
| | Coil annon annon - | LFJ. NVI mode | Reference Cable : | Light weight 2-conductor tef |
| | stricted to fixed | d values. | | cable for minimum friction, Linshi |
| | | | | at extra coar Blass |
| | - in-Phase and Gu | Jedreture compo- | N 1 | WELL MESSE SPEC |
| | MAX and MIN | econcery field in I modes. | Voice Link: | Built-in intercom system |
| | - Tilt-angle of the | totel field in V.L. | | Ceiver and transmitter operate |
| Padout- | mode. | ŷ | | in MAX and MIN modes, via ference cable. |
| | - Autometic, dir | rect readout on | Indicator Links- | |
| | in MAX | N modes No and | | ing lights to indiana |
| | ing or compens | ation necessary. | | readings, |
| | - Tilt angle and n wise metens in | ull in 90mm edge- N.L.mode. | Temperature Range: | -40°C to+60°C (-40°F to+140 |
| sale Ranges: | hPhase: :201 | 6.2100% by push- | Receiver Weight: | 6kg (13 lbs.) |
| | Guednetune: 220 | A.100% by push- | Transmitter Weight: | 13kg (29 lbs.) |
| • | | un switch. X sloop | Shipping Weight: | Typically 60kg (135 lbs.) dens |
| | Null (VL): Sens | litivity adjustable | • | ing on quantities of referen |
| | by at | spenation switch. | | cable and batteries includ Shipped in two field/shipping man |
| iedepilità: | In-Phase and Qu | adrature ; D.5 % | | |
| _ | Tilt: 1% | | Specifications subject | t to change without natificat |
| | | | | |
| | | A 17 A | | |
| | = X | AHAMI | HICS | LIMITED |
| | | DO STEELCASE AC | D. E., MARKHAM. O | NT. CANADA, LOR 162 |
| | | | | <u>مى مېلىپ اور او </u> |

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One: (415) 495-1812 Cables: APEXPARA TORONTO

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Telex: 06-966773 NORDVIK TOR

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BRIEF DESCRIPTION OF THE MAXMIN II EM SYSTEM

The MaxMin II is a two-man continuously portable EM system, for which the basic specifications were set down by Mr. Jack Betz following an extensive test programme of eleven continuously portable EM systems in 1972.

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The MaxMin II system is designed to measure both the vertical and horizontal in-phase (IP) and quadrature phase (QP) components of the anomalous field from electrically conductive zones. More accurately, the directions of the measured components are perpendicular and parallel to the mean slope between the transmitting coil (Tx) and the receiving coil (Rx).

The plane of the Tx is kept parallel to the mean slope between the Tx and Rx at all times. This means that the MaxMin II is in effect a horizontal loop (HL) system, when the receiver measure anomalous components perpendicular to the mean slope between the coils. It is a minimum-coupled (Min C) system, when the receiver measure anomalous components parallel to the mean slope between the coils.

Generally the MaxMin II is run in the HL mode with the Min C mode being used in the few instances, where it can improve on the data of the HL mode. The MaxMin II has the following principal features designed into it:

- four system frequencies -222, 444, 888, and 1777 Hz to deal effectively with a wide range of overburden and bedrock conductor conductivities,
- 2) six Tx-Rx separations 25, 50, 100, 150, 200, 250 meters to cope with a wide range of problems from the search for large deep conductive zones to the resolution of shallow, parallel conductive zones,
- 4) A built-in, easy-to-operate intercom system to insure good co-ordination of the transmitter and receiver operators at all times.
- 5) Very advanced electronic (active and digital) filtering in the receiver to reduce the interference effects of power line and atmospheric noise,
- 6) Warning lights to indicate invalid readings,
- 7) Large scale IP and QP meters giving a fine scale reading precision of 1/2% of the primary field strength at the receiver,
- Reference cables with teflon insulation and jacket to insure easy pulling at all times.

- 9) The capability of changing the Rx from the Hl to the Min C mode with no loss of time,
- 10) Balanced reference voltage and compensator circuitry to eliminate stray coupling effects, and
- 11) Two-man portability to reduce operating costs.

MAPS

<u>GRID 1</u>: Topography, Claims; MaxMin 11 Survey

<u>GRID 2</u>: Topography, Claims; MaxMin 11 Survey

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Ministry of Natural Resources

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) <u>Electromagnetic</u> (MaxMin 11) | and the second |
|---|--|
| Township or Area Matheson / Evelyn Twps. | MINING CLAIMS TRAVERSED |
| Claim Holder(s) St. Joe Canada, Inc. | List numerically |
| 159 Bay St. Toronto, Ont. | |
| Survey Company Exsics Exploration Limited | |
| Author of Report John C. Grant | (prefix) (number) |
| Address of Author P.O. Box 1880, Timmins, Ontario | and list attached |
| Covering Dates of Survey May to June, 1982 | see fist attached |
| (uncutting to office) Total Miles of Line Cut 80 km | |
| | |
| SPECIAL PROVISIONS | |
| CREDITS REQUESTED Geophysical per claim | |
| -Electromagnetic 20 | |
| ENTER 40 days (includes line mating) for find | |
| survey. –Radiometric | |
| ENTER 20 days for each -Other | |
| additional survey using Geological | |
| same grid. Geochemical | |
| AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) | |
| MagnetometerElectromagneticRadiometric | |
| (enter days per claim) | |
| DATE: September 5/82 SIGNATURE: John Church | |
| Author of Report or Agent | |
| | |
| Res Geol Qualifications 2-5347 | |
| Previous Surveys | |
| File No. Type Date Claim Holder | |
| | |
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| | |
| | |
| | |
| | |
| | TOTAL CLAIMS |

File_

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

| Number of Stations | | Number of Readings | |
|---------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Station interval | 25 meters | Line spacing 400 | meters |
| Profile scale | <u> </u> | $m = \frac{1}{10\%}$ | |
| Contour interval | · | | |
| | | | |
| g Instrument | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| Accuracy – Scale | constant | | 8 |
| Diurnal correction | n method | | |
| Base Station chec | k-in interval (hours) | | |
| Base Station locat | ion and value | · · | |
| . | | : : · · · | 1 |
| | | · | |
| 2 Instrument Ma | axMin 11 (Apex Paramet: | rics) | • · |
| Coil configuration | Horizontal Loop | | · · · · · · · · · · · · · · · · · · · |
| Coil separation | 150 meters | | |
| Accuracy | <u>± 1/2 % to ± 1 %</u> | | |
| Method: | Fixed transmitter | Shoot back XI In line | Darallel line |
| Frequency | 1777 hz and 444 hz | | |
| Para an a tan | (| specify V.L.F. station) | 1994 |
| ratameters measur | ed <u>inpliase and quadrat</u> | cure component of the se | condary field. |
| To star | | | |
| Instrument | | | |
| Scale constant | | | |
| Corrections made_ | | | |
| | | | |
| Base station value a | and location | | |
| | | | |
| Elevation accuracy | · · · · · · · · · · · · · · · · · · · | | |
| | | | |
| Instrument | | | |
| <u>Method</u> 🗆 Time | Domain | 🔲 Frequency Domain | ı |
| Parameters – On ti | me | Frequency | |
| → Off ti | ime | Range | |
| – Delay | / time | | |
| – Integ | ration time | | |
| Power | | | |
| Electrode array | · · · · · · · · · · · · · · · · · · · | | |
| Electrode spacing _ | | | ********* |
| Type of electrode | | | |

GRAVITY

INDUCED POLARIZATION A ISTIVITY

Group 1

| | at cab | <u></u> | |
|---|--------|--------------|--------|
| Ρ | 632852 | Ρ | 393105 |
| Ρ | 632853 | Ρ | 393104 |
| Р | 452498 | Ρ | 393103 |
| Ρ | 452499 | Ρ | 452461 |
| Ρ | 452500 | Ρ | 452462 |
| Ρ | 617738 | Ρ | 452463 |
| Ρ | 624601 | \mathbf{P} | 452464 |
| Ρ | 624600 | Ρ | 393123 |
| Ρ | 393110 | Ρ | 393124 |
| P | 393109 | Ρ | 617736 |
| Ρ | 393108 | Ρ | 617735 |
| Ρ | 393107 | Ρ | 617734 |
| Р | 393106 | Ρ | 617733 |

Group 2

| Ρ | 393738 |
|---|---------|
| Ρ | 393739 |
| Ρ | 393740 |
| Ρ | 393741 |
| Р | 617737 |
| Ρ | 628018 |
| Ρ | 628017 |
| Ρ | 618931 |
| P | 618 932 |

CERTIFICATE

- I, John Grant, hereby certify that:
- I am a 1975 graduate of the three year program in Geological Technology at the Cambrian College of Applied Arts and Technology and I have worked subsequently as Chief Geophysicist for Teck Exploration (5 years) and Exsics Exploration Ltd.
- 2) The field work described in the attached report was carried out under my supervision and the interpretation and conclusions contained therein are based on my training and professional experience.

Inan I

John Grant, Exsics Exploration Ltd.

| Ministry of Bon | ort of Work | ر - | | | | | | |
|---|---|-----------------|-------------------------|-------------------|----------------------|----------------------------|----------------------|-----------|
| Natural (Geo tario | physical, Geological, hemical and Expendit | tures) | #4. | | 5406 EVEL VN | | | 300 |
| | | | ۔ | ACALINEODAA 5. | STUD ETELIN | Do not use sh | aded areas below | |
| /pe of Survey(s) | MaarMin TT | | | | Township | eson, E | velyn | |
| Geophysical- | MaxMin II | | | | | Prospector's | Licence No. | |
| St. Joe Cana | ada Inc. | | | | | T1109 | · · | . <u></u> |
| Suite 418,] | L11 Richmond | st. W. | ., Toron | to, Onta | rio M5H | 2J4 | | |
| Trivey Company | | | | Date of Survey | (from & to) 82 01 | Q6,82 | otal Miles of line (| Sut |
| ame and Address of Author (o | f Geo-Technical report) | | | Day Mo. | Yr. Day | MO. Yr. | ····· | |
| John Grant, | P.O. BOX 181 | 50, 111 ight | Mining Clai | ms Traversed | List in nume | rical sequen | ce) | |
| pecial Provisions | Geophysical | Days per | Min | ing Claim | Expend. | Min | ing Claim | Expend |
| For first survey: | Electromagnetic | 20 | Pretix | 632852 · | | P | 617735 | 100 YS (1 |
| Enter 40 days. (This includes line cutting) | - Maonetometer | | | 632853 | | | 617734 | + |
| | Badiometric | | | 452498 | | | 617733 | + |
| For each additional survey: using the same grid: | t, t, Other | <u> </u> | | 452499 | | | 393738 | |
| Enter 20 days (for each) | Geological | | | 452500 | | | 393739 | + |
| | Geochemical | | | 617738 | | | 393740 | |
| Man Days | Geophysical | Days per | | 624601 | | 139424- | 393741 | 1 |
| Complete reverse side | Geophysical | Claim | | 624600 | | e Alexandren - | 617737 | |
| and enter total(s) here | • = lectromagnetic | | 0 3 53 - | 392110 | | | 628018 | |
| | - Magnetometer | | | 203100 | | · 除行- | 628017 | |
| | - Hadiometric | | 13.58 79.55 | 393109 | | | 618931 | |
| | • Other | | | 202107 | | | 618932 | |
| | Georgical | | | | | | | |
| Airborne Credits | Seochemical | Days per | | 393106 | - <u> </u> | | FCE | VE |
| Note: Consist and deter | Flootromonatio | Claim | | 393105 | | | | |
| credits do not apply | | | | 393104 | | | MAR 3 | 1422 |
| to Airborne Surveys. | Padiametria | | | 393103 | | N.J. | INC LAND | S SEC |
| xpenditures (excludes pow | ver strippina) | | | 452462 | | | | |
| Type of Work Performed | | | - | 452462 | | 1 2 27 | YHPEL | |
| Performed on Claim(s) | | | | 452405 | | for the | 1 2 1983 | |
| | | | | 452464 | | Light | 1 | |
| | | | | 624630 | - | A Start | | <u>-</u> |
| Calculation of Expenditure Day | vs Credits | Total | | 617736 | - / | 77 - | | _ |
| Total Expenditures | | /s Credits | | 017750 | | | | |
| <u>ک</u> | | | | | / | claims covi report of v | ered by this | 35 |
| nstructions Total Days Credits may be a | pportioned at the claim | holder's | F | For Office Use | Only | | | >/ |
| in columns at right. | As creates her claim select | | Total Days Recorded | Cr. Date Recorde | 1/22 | Mainer | ertler | 20 |
| Date IRe | orded Holder or Agent | (Signafyre) | Tin | Date Approve | d as Recorded | Branch Dir | ector | |
| Feb. 28/83 | Joeld En | billey | 100 | | 1 | Кедю | | |
| Dertification Verifying Rep | ort of Work | | the facts set fr | orth in the Repor | rt of Work ann | exed hereto, h | aving performed | the work |
| or witnessed same during an | d/or after its completion | and the ann | exed report is t | true. | | | | |
| Name and Postal Address of Pe | rson Certifying | | , | | | | | |
| Nevin Leonard | <u> </u> | er Ave | • <u>•••</u> •••••••••• | Date Cartifle | | Certified b | y (Signature) | |
| Burlington, Ont | tario L7T 212 | 2 | | Hebrua | 44018 | 3 Teve | n dron | <u>a</u> |



Assessment Work Breakdown

2.540C

| 1. | Type of Survey Max-Min 11 |
|-----|---|
| 2. | Township or Area Matheson and Evelyn Townships |
| 3. | Numbers of Mining Claims Traversed by Survey Group 1 - 9632852, 632853, 452498, |
| | P.452499, 452500, 617738, 624601, 624600, 393110, 393109, 393108, 393107, |
| | P393106, 393105, 393104, 393103, 452461, 452462, 452463, 452464, 393123 |
| F | 393124, 617736, 617735, 617734, 617733; Group 2 P 393738, 393739 |
| | 393740, 393741, 617737, 628018, 628017, 618931, 618932. |
| 4. | Number of Miles of Line Cut |
| *5. | Number of Stations Established |
| *6. | Make and type of Instrument Used Apex lacametrics Max-Min IL Bartable E.M. |
| *7. | Scale Constant or Sensitivity |
| *8. | Frequency Used and Power Output J777 H2.: 60 Atm ; 444 H2.: 160 Atm |
| 9. | Summary of Assessment Credits (details on reverse side) |
| | Total 8 hour Technical Days (Include Consultants, Draughting etc.) |
| | Total 8 hour Line-Cutting DaysQ |
| | Calculation |
| | $\frac{61}{\text{Technical}} \times 7 = \frac{427}{427} + \frac{6}{\text{Line-cutting}} = \frac{427}{127} \div \frac{35}{\text{Number}} = \frac{12}{\text{Assessment credits}}$ |

The dates listed on this form represent working time spent entirely within the limits of the above listed claims 🖵 Check If otherwise, please explain

Dated: Sept. 19th/83 Signed: Kinin Lunard

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Note: (A) * Complete only if applicable. Complete list of names, addresses and dates on reverse, side 102 (B) Submit separate breakdown for each type of survey. (C) (D) Submit in duplicate. MINING LANDS SECTION



FIELD WORK

| | | | Number | of |
|--------------------|----------------------------|--------------------------------|-------------|------------|
| Type of Work | Name & Address | Dates Worked | 8 hour | days |
| E.M. surveying | g.c. Grant P.D. Box | 1880 Timmins May 2- June 4/8. | 2 <i>27</i> | 4 |
| , , | Ont. | | | |
| | · · · · · | 4 | | |
| E.M. surveying | Yuon Callin 85 | Mountjey S. Timminos | | |
| | | • | | |
| | ********************** | | | |
| | | | | |
| | | | | |
| ************** | | | | |
| CONSULTANTS | | | | |
| | | | Number | of |
| Name & Address | Dates Worked (spec | cify in field or office) | 8 hour | days |
| John C. Grant | June 7-10/82. | | | |
| V | V / | | , | |
| ***** | | | | |
| | | | |] |
| | | | | |
| DRAUGHTSMAN, TYPIN | <u>G, OTHERS</u> (specify) | | Nuclear | . <i>E</i> |
| Name & Address | Type of Work | Dates Worked | 8 hour | or days |
| V C. Ilia | dialdian | 0 8-10 | 2 | |
| / | | | · | |
| | | | | |
| | | | | |
| | | | | |
| | | TOTAL 8 HOUR TECHNICAL DAYS | s <u>61</u> | |
| | | | | |
| | | | Number | of |
| Name | Address | Dates Worked | 8 hour | days |
| | | | | |
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| | | | • | |
| 6 - 2 | | | |] |
| | | | | |
| | | | | |
| | | TOTAL 8 HOUR LINE-CUTTING DAYS | 3 | |
| | , i i i | | | |

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1983 11 15

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

Dear Sir:

۰.

RE: Geophysical (Electromagnetic) Survey on Mining Claims P 393103 et al in the Townships of Matheson & Evelyn

The Geophysical (Electromagnetic) Survey assessment work credits as listed with my Notice of Intent dated October 19, 1983 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson Director Land Manggement Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1**8**80

R. Pichette:sc

cc: St. Joe Canada Incorporated Suite 418 111 Richmond Street West Toronto, Ontario M5H 2J4

cc: Resident Geologist Timmins, Ontario



Ministry of Natural Resources

Your file:

Our file: 2.5406

1983 10 19

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

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, 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: 416/965-1316

R. Pichette:mc

Encls:

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cc: St. Joe Canada Incorporated Suite 418 111 Richmond Street West Toronto, Ontario M5H 2J4

cc: Mr. G.H. Ferguson Mining & Lands Commissioner 845 Toronto, Ontario



Ministry of Natural Resources Notice of Intent for Technical Reports

1983 10 **19**

2.5406

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

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828 (83/6)



Work Credits

| _ | | | | | |
|------|------|----|----|-----------|---|
| Date | | | | Mining Re | è |
| | 1023 | 10 | 10 | Work No. | |
| 1 | 1303 | 10 | 12 | | |

2.5406 Recorder's Report of 43

File

Recorded Holder

ST. JOE CANADA INC

Township or Area MATHESON & EVELYN TOWNSHIPS

| Type of survey and number of · · Assessment days credit per claim | Mining Claims Assessed |
|---|--|
| Geophysical | |
| Electromagnetic 15_ days | P 632852-53 452498 to 500 inclusive |
| Magnetometer days | 617738 624600 |
| Radiometric days | 392103 to 10 inclusive 452463-64 |
| Induced polarization days | 624629-30 617733 to 34 |
| Other days | 393738 393740-41 |
| Section 77 (19) See "Mining Claims Assessed" column | 61//3/ 628017-18 |
| Geological days | 618931-32 |
| Geochemical days | |
| Man days 🖾 🛛 Airborne 🗆 | |
| Special provision 🗌 Ground 🕅 | |
| S Credits have been reduced because of partial coverage of claims. | |
| Credits have been reduced because of corrections to work dates and figures of applicant. | |
| Special credits under section 77 (16) for the following m | ining claims |
| | |
| | n en |
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| | |
| | |
| No credits have been allowed for the following mining cl | aims |
| The not sufficiently covered by the survey | Insufficient technical data filed |
| P 624601 452461-62 | |
| 393739 | |
| 617735-36 | |
| | |
| | |
| | |
| The Mining Recorder may reduce the above credits if nece each claim does not exceed the maximum allowed as followed as followe | ssary in order that the total number of approved assessment days recorded on lows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19)—60: |

September 8, 1983

2.5406

St. Joe Canada Incorporated Suite 418 111 Richmond Street West Toronto, Ontario M5H 2J4

Dear Sir:

RE: Geophysical (Electromagnetic) Survey on Mining Claims P 393103 et al in the Townships of Matheson & Evelyn

We regret having to write to you again, but due to the fact that the line spacing on this survey exceeds 400 feet (125 meters), this survey may not be assessed under the "Special Provisions" method.

Please complete and return the enclosed man-days breakdown form, in duplicate. The survey will then be assessed under the provisions of subsection (9) of Section 77 of the Mining Act, R.S.O. 1980.

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

S. Hurst:mc

Encl.



Geotechnical Report Approval

Aria 1872



Mining Lands Comments

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| Comments | | | | |
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| | Wish to see equin with corrections | Date | Signature | 1 |
| Approved | | ango/ | β | 51 |
| To: Geology - Ex | penditures | (Chy 3) /2 | B Kg VS | |
| To: Geology - Ex | penditures | <u>(Cap 3) / c</u> | m Kg VS | |
| To: Geology - Ex | penditures | <u> (Cup 3) / c</u> | <u>s</u> <u></u> | |
| To: Geology - Ex | penditures | <u>(Cup 3) / c</u> | <u>s</u> 1 2 2 | |
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| To: Geology - Ex Comments | penditures | Date | Signature | |
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| To: Geology - Ex Comments Approved To: Geochemistr Comments | penditures Wish to see again with corrections | Date | Signature | |
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| To: Geology - Ex Comments D Approved To: Geochemistr Comments | penditures Wish to see again with corrections y | Date | Signature | |

August 9, 1983

St. Joe Canada Incorporated Suite 418 111 Richmond Street West Toronto, Ontario M5H 2J4

Attention: Dave Malloy

Dear Sir:

RE: Geophysical (Electromagnetic) Survey on Mining Claims P 393103 et al in the Townships of Matheson and Evelyn

With reference to our letter of August 8, 1983, enclosed is the last page of the report (in duplicate) which was omitted from our first letter. Please have the author of the report sign each copy.

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

S. Hurst:mc

Encl.

2,5406

August 8, 1983

St. Joe Canada Incorporated Suite 418 111 Richmond Street West Toronto, Ontario M5H 2J4

Dear Sir:

RE: Geophysical (Electromagnetic) Survey on Mining Claims P 393103 et al in the Townships of Matheson & Evelyn.

Returned herein are four electromagnetic plans (in duplicate) for the above mentioned survey. On each plan, please show the claim lines and claim numbers.

Also enclosed is the last page of the report (in duplicate). Please have the author of the report sign each copy.

When returning this material, please quote File #2.5406.

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

S. Hurst:sc

Encls:

cc: Mr. John Grant Timmins, Ontario

cc: Mining Recorder Timmins, Ontario 2.5406

| Ontario | Ministryof Natural Resources | Geotechnical Report Approval |
|---------|------------------------------------|------------------------------------|
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Mog 24/83



| Mining Lands Co | omments | | ····· | |
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| To: Geophysics Comments | Mr. Barlow. Report not | segne | J | |
| Approved To: Geology - Ex Comments | Wish to see again with corrections | Laly 20 | 183 Signature Jouglas | H. Piter |
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To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

1983 03 24

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

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 393103 et al in the Township of Matheson and Evelyn.

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

A. Barr:sc

cc: St. Joe Canada Inc Suite 418 111 Richmond St.W Toronto, Ontario M5H 2J4

cc: Mr. John Grant P.O. Box 1880 Timmins, Ontario P4N 7X1

| Ontario | port of Work ophysical, Geological, chemical and Expend | itures) | | • . | Instructions: – – Note: – | Please type If number exceeds spa Only days "Expenditu in the "E | or print, of mining claim ace on this form, a credits calculat ires" section may xpend, Davs Cr. | s traverse attach a list ad in the be entered "columns |
|--|---|----------------------|---|------------------------------------|---------------------------------|---|---|--|
| Type UI | · · · · · · · · · · · · · · · · · · · | | The Mining | Act | Township | Do not use or Area | shaded areas below | N. |
| Geophysical | -MaxMin II | | | | Math | leson, | Evelyn | |
| St. Joe Can | ada Inc. | | | | | T110 | S Licence No. 9 | |
| Address Suite 418. | 111 Richmond | St. W | Toro | nto. Ont | ario M5F | | | |
| Survey Company | | | ., 1010 | Date of Surve | y (from & to) | | Total Miles of line | Cut |
| EXSICS EXPL Name and Address of Author (c | Oration of Geo-Technical report) | | | Day Mo. | Vr. Day | Mo. Yr. | | |
| John Grant, | P.O. Box 18 | 80, Ti | mmins, | Ontario | | | | |
| Credits Requested per Each | Claim in Columns at r | ight Days per | Mining CI | aims Traversed | (List in nume | erical seque | nce) | 1.5 |
| For first survey: | Electromocel | Claim | Prefix | Number | Days Cr. | Prefix | Number | Days Cr. |
| Enter 40 days. (This includes line cutting) | - Electromagnetic | 20 | P | 632852 | | P | 617735 | |
| , , , , , , , , , , , , , , , , , , , | Magnetometer | | | 632853 | | an a | 617734 | |
| For each additional survey: using the same grid: | - Radiometric | | | 452498 | | | 617733 | |
| Enter 20 days (for each) | - Other | | | 452499 | | | 393738 | _ |
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| and enter total(s) here | - Electromagnetic | | | 624600 | | | 617737 | |
| | Magnetometer | | | 393110 | | 2424 A.M. | 628018 | |
| | Radiometric | | | 393109 | | | 628017 | |
| | - Other | | and the second | 393108 | | | 618931 | |
| | Geological | | | 393107 | | 1 Carrier | 618932 | |
| | Geochemical | | | | | | | |
| Airborne Credits | | Days per Claim | | 393105 | | | | |
| Note: Special provisions credits do not apply | Electromagnetic | | | 393104 | · · · | | | 1 |
| to Airborne Surveys. | Magnetometer | | | 393103 | | | | 1 |
| | Radiometric | | | 452461 | | | | |
| Expenditures (excludes pow Type of Work Performed | er stripping) |] | | 452462 | | | ECEIV | ED |
| | | | | 452463 | | | HH 2 8 100 | |
| Performed on Claim(s) | | | | 452464 | | | 190 | 9 |
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| Calculation of Expenditure Days | s Credits | | | 624630 | | | | 1000 |
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| Instructions Total Days Credits may be ap | portioned at the claim h | older's | r | | | report of v | vork. | |
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Patric Annant TWP Survey Date: June/1982 EXSICS EXPLORATION Limited Canada Inc. Drafted By: Y. Collin 10mho - 25m ITTT Hz. PROJECT: MATHESON, EVELYN E 6280 Timmins, Ont. Hydro Line Bush Road MaxMin II 61137 Claim Line 618932 Drill Hole 6280 222 4 Trail Road LOCATION MAP 1 inch= 1/2 mile Lot (705) 267-4151 393741 61893I 628017 Matheson Twp. LE GEND 6222/7 6222/7 622218 393739 393740 KΕΥ . SURVEY: MaxMin ́ П -- Ò-JOE L of 5 Apex: 1 cm = 10 % 1880 528387 Interpretation: J.C. Grant Quadrature Profile: - -In Phase Profile: 93738 Conductor Axis: Claim Post, Wit Post ST Scale: 1:2500 V \sim Conductivity Depth BOX GRID: NO. Unit: CLIENT: @ Building Scale: Outcrop Swamp Creek Lake \geq TL 800 MN OOMS Б В 0 LZODOME ÷ 0 0 0 ~ 0 0 0 Ŧ 7 4 F 1 MHD ~ 45 M 7 Ś 8018 てて 932

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