

2007 EXPLORATION REPORT

SOUTH SIBLEY PROPERTY

NTS 52A/10 & 52A/15

SIBLEY BASIN

THUNDER BAY MINING DIVISION

ONTARIO

For

BENTON RESOURCES CORP.

-by-

Nathan Sims, HBSc

June 13, 2008

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## **Introduction**

This report summarizes exploration activity carried out by Benton Resources Corp. on the Nipigon Uranium, South Sibley mining property in the southern part of the Sibley basin, during the 2007 field season. This property lies within the Thunder Bay Mining District, in Dorion Township. The South Sibley Property is composed of claims staked and held 100% by Benton Resources Corp as well as others acquired by option. This region has been explored extensively over the past 50 years, but recently a Uranium exploration 'boom' has taken place. This report is the second for the property by Benton Resources in 2007, the first reported the results of a VTEM Airborne Survey.

In 2007, the property received extensive attention by Benton Resources Corp. Numerous work programs were carried out to help determine priority targets for a future drill program. A local grid was designed and cut over an area of known Uranium concentration as determined by previous prospecting by the company. This grid was used to perform a ground magnetics survey to provide Benton with a description of the local magnetics, more detailed than the previous airborne survey provided.

Trenching and channel sampling were carried out to better understand the local mineralization of outcrop where uranium occurrence was high.

Total expenditures on the property for the 2007 exploration program amount to \$44517.00. This amount includes only the applicable money spent after claim staking which can be applied as work credits for assessment purposes.

## **Location & Access**

The property is located 60km northeast of Thunder Bay, ON, in the Greenwich Lake Area, McTavish Township and Dorion Township. The South Sibley property can be accessed from Highway 11/17 by heading north on Ouimet Canyon Road for approximately 15km. Access is quite good as the area has undergone extensive logging activity. Figure 1 shows the location of the property with respect to Thunder Bay, Nipigon and surrounding area. The NTS location is 52A 15 SE.

## **Claim Holdings & Property Dispositions**

The South Sibley property consists of 34 unpatented mining claims totaling 487 units, as listed in Table 1. The majority of the claims are held wholly by Benton Resources Corp while 6 are part of an option agreement, the details of which are outlined in Appendix 1. The claims which represent the South Sibley property are labeled and displayed in the claim sketch, Figure 2.

**Table 1. South Sibley Claims**

<b>Claim Number</b>	<b>Units</b>	<b>Claim Due Date</b>	<b>Work Required</b>
4200993	16	2009-Nov-14	\$6,400.00
4200992	16	2009-Nov-14	\$6,400.00
4200995	12	2009-Nov-14	\$4,800.00
4200996	16	2009-Nov-14	\$6,400.00
4200997	16	2008-Nov-14	\$6,400.00
4200998	12	2009-Nov-14	\$4,800.00
4200994	16	2008-Nov-14	\$6,400.00
4200991	16	2008-Nov-14	\$4,201.00
4200987	16	2008-Nov-14	\$6,400.00
4211681	13	2009-Feb-26	\$5,200.00
4214112	12	2009-Feb-26	\$4,800.00
4211689	16	2009-Feb-26	\$6,400.00
4214066	16	2009-Feb-26	\$6,400.00
4214111	16	2009-Feb-26	\$6,400.00
4214113	16	2009-Feb-26	\$6,400.00
4215330	16	2009-Feb-26	\$6,400.00
4215331	12	2009-Feb-26	\$4,800.00
4214114	16	2009-Feb-26	\$6,400.00
4221611*	16	2009-Apr-25	\$6,400.00
4221612*	16	2009-Apr-25	\$6,400.00
4221613*	16	2009-Apr-25	\$6,400.00
4221614*	16	2009-Apr-25	\$6,400.00
4221615*	16	2009-Apr-25	\$6,400.00
4221616*	16	2009-Apr-25	\$6,400.00
3015997	16	2009-Feb-26	\$6,400.00
3016644	12	2009-Feb-26	\$4,800.00
3008464	2	2009-Feb-26	\$800.00
3008463	16	2009-Feb-26	\$6,400.00
3008462	16	2009-Feb-26	\$6,400.00
3019882	12	2009-Feb-26	\$4,800.00
4205398	12	2009-Feb-26	\$4,800.00
4211599	4	2009-Feb-26	\$1,600.00
4207279	16	2009-Feb-26	\$6,400.00
4205404	16	2009-Feb-26	\$6,400.00

\*Claims acquired by option agreement

### **Dorion Area Work History (NTS 52A/15)**

1866: Area was first noted (Tanton, 1931)

1903: First reported work in the area, with the production of 350 tons of concrete

1907 (prior): Dorion Mine opened

1926: Dorion Mine was acquired by Dorion Lead and Zinc Minerals Lmt.

1927: Ogema Mine opened and an old adit at the east of the property was extended along the contact, as well an old mine shaft was cleaned out and exploratory work was carried out, creating numerous trenches and pits (Tanton, 1931).

1961: Sogemines Development Co. initiated diamond drilling within the Ogema Property with 2 holes extending a maximum depth of 322 feet.

1965: Oja Exploration Management initiated diamond drilling within 2 claims in Dorion Township with 3 holes extending a maximum depth of 139 feet.

1966: New Senator-Rouyn Limited produced trenches and took samples related to molybdenite mineralization.

1968: J. Harkoff commenced diamond drilling in the first breccia zone with 4 holes extending a maximum depth of 333 feet.

1977: Shell Resources Canada commenced field studies within Dorion township noting significance of the area and obtaining 910 claims.

1978: Shell Resources Canada began an exploration program that included airborne radiometric survey, ground scintillometer readings, prospecting, stream geochemistry and geological mapping.

1978: Norcen Energy Resources obtained the Coldwater Creek claim and initiated geological mapping, prospecting, scintillometer readings, radiometric and radon surveys, VLF and AFMAG surveys and geochemistry.

1978: John H. Bayko commenced a geological survey including trenching and collection of samples.

1979: Essex Minerals initiated an airborne geophysical survey on the Dorion and Tartan Lake properties with resulting EM, spectrometer, magnetic and radiometric surveys.

1980: Geological Survey of Canada commenced a lake-sampling project in the Dorion North option and resulted in Zn-Cu in the 95<sup>th</sup> percentile and Pb within the 99<sup>th</sup> percentile.

1982: Noranda Mines and Resources obtained the Dorion option and 9 claims and commenced geological mapping and geophysical surveys including IP and magnetometer.

1983: Noranda Mines and Resources commenced a diamond drill program in the Dorion option with 8 winkle holes extending for a maximum depth of 216.5 metres.

1983: Noranda Mines and Resources obtained the Cavern option and commenced linecutting, geological, geochemical (337 soil samples) and geophysical surveys including magnetometer.

1984: Golden Tiger Mining initiated geological and geophysical surveys including VLF and magnetic associated with linecutting and geological mapping. A diamond drill program was also initiated and extended for a maximum depth of 318 metres.

1993: D. Petrunka initiated geological mapping, prospecting, sampling (15 samples) and mineral deposit evaluation for M.A. Weirmer.

1998: D. Petrunka initiated a surface work project within Dorion township that included trenching, hand stripping and samples (total 26) within the north-central portion of the Dorion option striking WSW-ENE.

1999/2000: Ruth Louis Petrunka initiated a surface geology project within Dorion North option. This included sampling (13), prospecting, geochemical analyses, petrography, scanning electron microscope and physical property tests including magnetic susceptibility, density, resistivity and IP charge.

2002/2003: Kenneth R. Haskell initiated a prospecting survey and sample collection within the Dorion option.

## **2007 Exploration Activities**

The South Sibley property was worked extensively in 2007. After staking this land package and acquiring 6 additional claims via option agreement (Appendix 1), the property was extensively examined by prospectors who initially targeted areas where previous uranium occurrences were known. Hand-held Scintometers and Spectrometers were utilized by the crews to determine zones of higher uranium content and grab samples were collected in these areas.

Claim 4221613 had numerous zones where both sampling and spectrometer readings had high uranium counts. These zones were located on various structures that were identified by the VTEM survey flown (and discussed in a previous report). Trenching was done in this target area to identify the underlying geology and structures. The exposed outcrop was extensively sampled as channels and lithology was mapped (Trench Maps in Appendix 2). Based on the prospecting and geologic mapping of exposed outcrop, a tight, 50-100m spaced grid was designed and cut to cover this target area to allow for a larger scale mapping program. With the onset of winter, this mapping has been delayed and will commence during the summer of 2008.

MTEC Geophysics was contracted to conduct a ground magnetic survey on the grid cut over claim 4221613. This survey helped to define a N-S structure that coincided with

targets outlined during prospecting as areas of high uranium occurrences. Processed maps and details of the survey methods are outlined in Appendix 2 & 4 respectively

Maps displaying all work associated with this report follow the conclusions section.

### **Conclusions & Recommendations**

Based on Benton's work performed on the South Sibley Property in 2007, the following recommendations have been made:

- 1) Complete a geologic mapping program to cover the ground where grid lines have been cut to get a better understanding of surficial geology in an area of high uranium concentration.
- 2) Further prospecting should take place along the North-South structure identified by the Ground Magnetics survey
- 3) Deep drilling of numerous targets along known structures and areas where uranium content was high to estimate size of possible ore body.

Benton plans to continue aggressively exploring this uranium prospect. The company is committed to performing extensive ground work in order to determine priority targets for a diamond drill program.

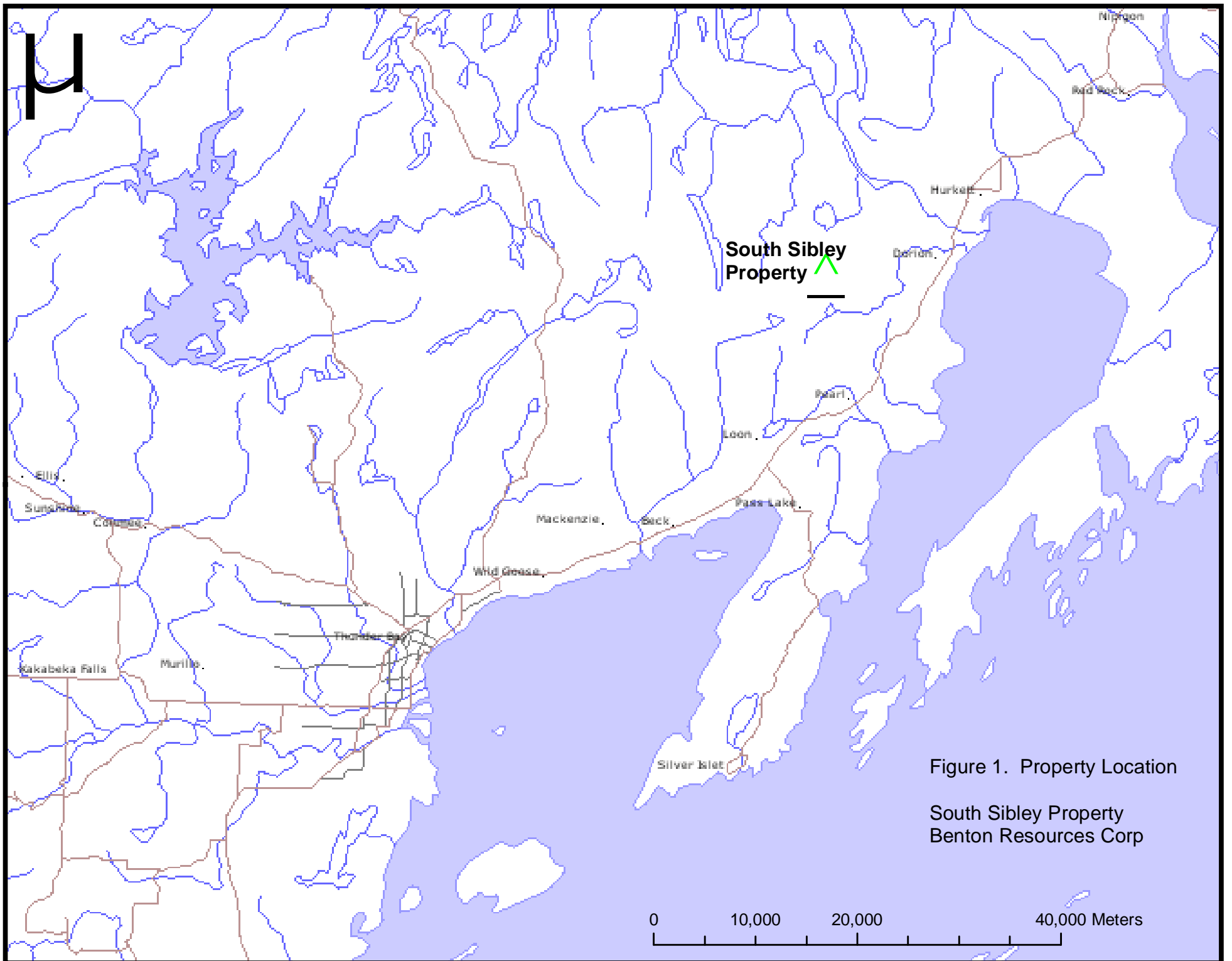
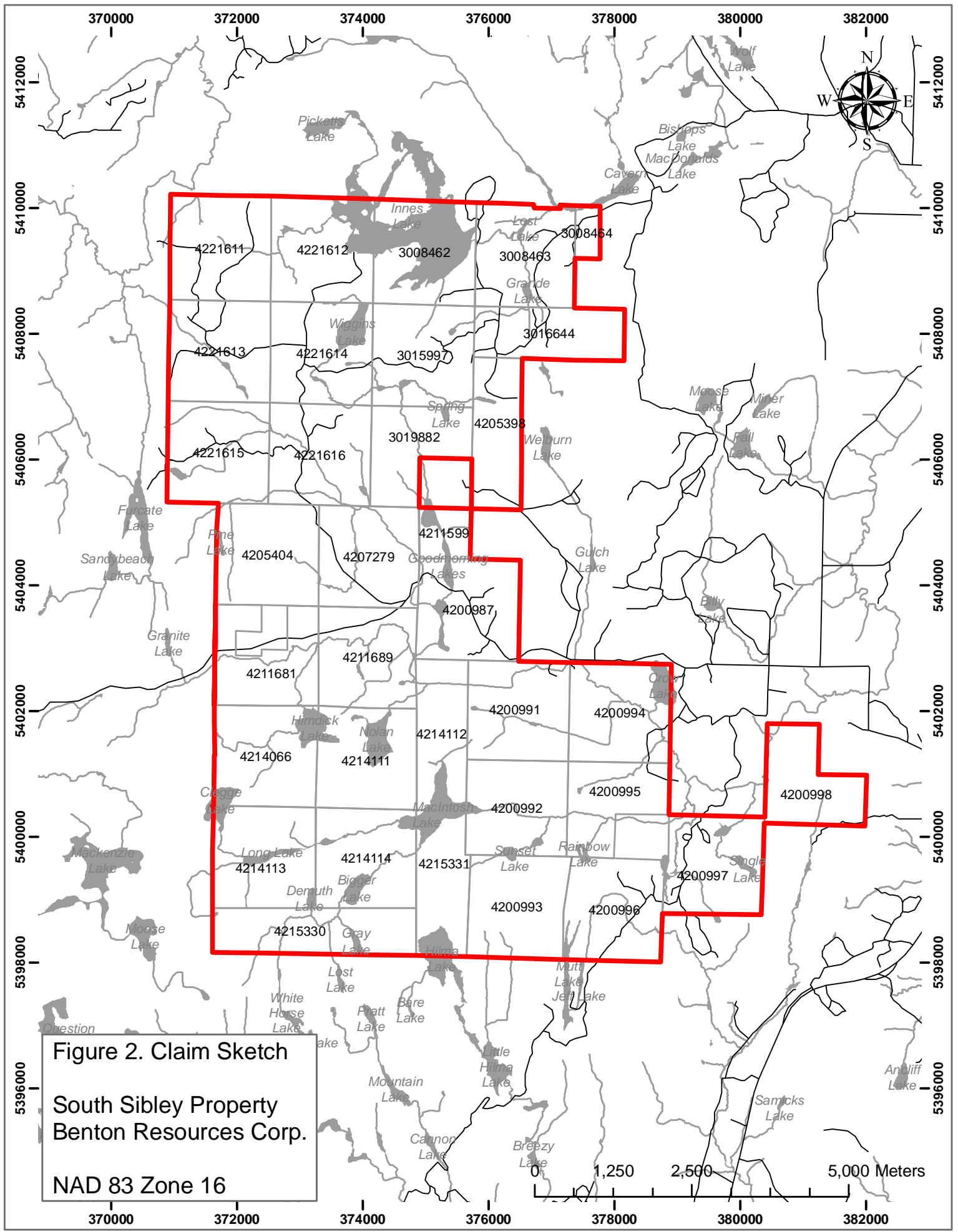


Figure 1. Property Location

South Sibley Property  
Benton Resources Corp

0 10,000 20,000 40,000 Meters





**Appendix 1**

**Goodmorning Lake Claims  
Option Agreement**

# **OPTION AGREEMENT**

dated

**April 27, 2007**

among

**BENTON RESOURCES CORP.**

and

**KEN FENWICK**

and

**DR. DON LEISHMAN**

and

**KARL BJORKMAN**

and

**DON DEVEREAUX**

**OPTION AGREEMENT  
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<b>SCHEDULE "D"</b>	<b>A</b>

**THIS OPTION AGREEMENT** is made as of the 27th day of April, 2007 (the “Agreement Date”)

AMONG:

Ken Fenwick of 84 Velva Avenue, Thunder Bay, Ontario, P7A 6N5  
 (“Fenwick”)

***OF THE FIRST PART***

AND:

Dr. Don Leishman of 204 Anten Street, Thunder Bay, Ontario, P7B 5J6  
 (“Leishman”)

***OF THE SECOND PART***

AND:

Karl Bjorkman of Box 1814, Atikokan, Ontario, P0T 1C0  
 (“Bjorkman”)

***OF THE THIRD PART***

AND:

Don Devereaux of 307 – 405 Waverley Street, Thunder Bay, Ontario, P7B 1B8  
 (“Devereaux”)

***OF THE FOURTH PART***

[Fenwick, Leishman, Bjorkman and Devereaux collectively referred to as the “Optionors”.]

AND:

Benton Resources Corp., a company incorporated under the laws of British Columbia,  
 having a business address at 1780 – 400 Burrard Street, Vancouver, B.C., V6C 3A6

(the “Optionee”)

***OF THE FIFTH PART***

**WHEREAS:**

- A. One or more of the Optionors is the legal and beneficial holder of the mineral claims more particularly described in Schedule “B” attached hereto (the “Property”);
- B. The beneficial interest of each of the individuals comprising the Optionors is more particularly described in Schedule “D” attached hereto (the “Beneficial Interests”);
- C. The Optionors have agreed to grant an exclusive right and option to the Optionee to acquire, subject to the terms and conditions of this Option Agreement, a 100% interest in the Property subject to a 3% NSR royalty as more particularly described in Schedule “C” in favour of the Optionors (the “Option”); and
- D. The Optionee wishes to acquire the Option subject to the terms and conditions of this Option Agreement.

NOW THEREFORE THIS AGREEMENT WITNESSES THAT the parties hereto agree as follows:

## **1. INTERPRETATION**

### **1.01 Definitions**

Where used herein or in any schedule or amendment hereto, unless the context otherwise requires, each of the words and phrases set out in Schedule "A" shall have the meanings set forth therein.

### **1.02 Schedules**

The following are the schedules attached to and incorporated into this Option Agreement by reference and deemed to be part hereof:

Schedule A - Defined Terms  
 Schedule B - Property  
 Schedule C – NSR Royalty  
 Schedule D – Beneficial Interest of each of the Optionors

### **1.03 Governing Law**

This Option Agreement shall in all respects be governed by and be construed in accordance with the laws in force in the Province of British Columbia and subject to the exclusive jurisdiction of the courts of the Province of British Columbia. In addition, this Option Agreement shall be subject to all applicable laws, rules and regulations of public bodies having jurisdiction over the development or operation of the Property.

### **1.04 Severability**

If any one or more of the provisions contained in this Option Agreement should be invalid, illegal or unenforceable in any respect under the laws of any jurisdiction, the validity, legality and enforceability of such provision shall not in any way be affected or impaired thereby under the laws of any other jurisdiction and the validity, legality and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby.

### **1.05 Parties in Interest**

This Option Agreement shall enure to the benefit of and be binding to the parties hereto and their respective successors and permitted assigns.

### **1.06 Included Words**

Wherever the singular or the masculine are used herein the same shall be deemed to include the plural or the feminine or the body politic or corporate where the context or the parties so require, and vice versa.

### **1.07 Headings**

The headings to the Sections and paragraphs of this Option Agreement are inserted for convenience only and shall not affect the construction hereof.

## **1.08 References**

Unless otherwise stated a reference herein to a numbered or lettered Section or paragraph refers to the section or paragraph bearing that number or letter in this Option Agreement. A reference to “this Option Agreement” or herein, hereof, hereunder or other like words means this Option Agreement, including the Schedules hereto, together with any amendments thereto.

## **1.09 Currency**

All references to currency in this Option Agreement are to the lawful money of Canada unless otherwise stated.

## **2. GRANT OF OPTION AND OPTION TERMS**

### **2.01 Grant of Option**

The Optionors hereby grant to the Optionee the Option. The Optionee may at any time ahead of the due dates referred to in paragraph 2.02, exercise the Option and thereby acquire, subject to the 3% NSR royalty in favour of the Optionors, a 100% undivided interest in the Property by satisfying the requirements referred to in paragraph 2.02. Upon exercise of the Option the Optionors shall transfer to the Optionee all of their right, title and interest in and to the Property.

### **2.02 Option Terms**

This Option Agreement and the Option shall terminate if the Optionee or its assignee fails to complete the following within the time limit as follows:

- (a) making the following cash payments in the aggregate collectively to the Optionors, such payments to be allocated among the Optionors in proportion to their respective Beneficial Interests:
  - (i) \$10,000 on execution of this Option Agreement;
  - (ii) \$15,000 on the first anniversary of execution of this Option Agreement (the “First Anniversary”);
  - (iii) \$25,000 on the second anniversary of execution of this Option Agreement (the “Second Anniversary”); and
  - (iv) \$40,000 on the third anniversary of execution of this Option Agreement (the “Third Anniversary”);
- (b) issuing, subject to paragraph 2.03 below, a total of 160,000 common shares of the Optionee to the Optionors in the following tranches, each tranche to be issued to the individuals comprising the Optionors in accordance with the Beneficial Interests of each individual:
  - (i) 40,000 common shares of the Optionee within seven days of execution of this Option Agreement and receipt of approval from the TSX Venture Exchange;
  - (ii) 40,000 common shares of the Optionee on the First Anniversary;
  - (iii) 40,000 common shares of the Optionee on the Second Anniversary; and



- (iv) 40,000 common shares of the Optionee on the Third Anniversary;
- (c) incurring Expenditures of \$360,000 on the Property by the Fourth Anniversary as follows:
  - (i) \$40,000 by the First Anniversary;
  - (ii) \$120,000 of cumulative Expenditures by the Second Anniversary;
  - (iii) \$200,000 of cumulative Expenditures by the Third Anniversary; and
  - (iv) \$360,000 of cumulative Expenditures by the Fourth Anniversary.

### **2.03 Optioning to Grandcru**

The Optionors confirm and acknowledge that in the event the Optionee enters into an agreement with Grandcru Resources Corporation ("GR") pursuant to which GR assumes the Optionee's obligations under this Option Agreement, the Optionors will accept the issuance of the same number of common shares of GR in substitution of the common shares of the Optionee otherwise issuable under paragraph 2.02(b).

### **2.04 NSR Royalty Buy Back**

The Optionee shall have the right, at any time to purchase up to two-thirds (i.e. up to 2% of the 3% NSR) of the NSR for \$500,000 for every 0.5% NSR purchased, the payments for such purchase to be made payable to the Optionors in accordance with their respective Beneficial Interests.

## **3. REPRESENTATIONS AND WARRANTIES**

### **3.01 The Optionors' Representations and Warranties**

The Optionors represent and warrant to the Optionee that:

- (a) This Option Agreement has been validly and effectively approved and authorized by each of the individuals comprising the Optionors and has been duly executed and delivered by each of the individuals comprising the Optionors;
- (b) One or more of the Optionors are the recorded title holders of the Property and all of the Optionors have good and sufficient right, power and authority to enter into and deliver this Option Agreement and to perform the transactions contemplated hereby, and the provisions hereof constitute legal, valid and binding obligations of the Optionors enforceable in accordance with their terms;
- (c) Neither the execution and delivery of this Option Agreement, nor compliance by the Optionors with any of the provisions hereof conflicts with or results in a breach of or default under any lien, charge, encumbrance or adverse claim against or on the Property under any of the terms, conditions or provisions of any agreement or instrument to which any of the individuals comprising the Optionors is a party or any judgment, order, law or governmental or administrative regulation or restriction applicable to the Optionors;
- (d) There are no actions, suits, claims, proceedings, litigation or investigations pending or to the best of the Optionor's knowledge after due investigation, threatened, or judgments outstanding and

unsatisfied against or affecting the Optionors, any part of or all of the Property, or this Option Agreement;

- (e) The lands comprised in the Property have, to the best of the Optionor's knowledge been duly and validly located and recorded under the law and jurisdiction in which they are situated and to the best of the Optionor's knowledge are in good standing in the appropriate mining recorder's office on the date hereof;
- (f) There are no royalties, fees or monies payable or required to be paid to any person with regard to the Property other than the NSR; and
- (g) To the best of the Optionors' knowledge, information and belief, all previous work conducted on the Property was conducted in compliance with all applicable laws.

### **3.02 The Optionee's Representations and Warranties**

The Optionee represents and warrants to the Optionors that:

- (a) The Optionee is a corporation duly incorporated under the laws of British Columbia and is a valid and subsisting corporation in good standing under the laws of British Columbia;
- (b) This Option Agreement has been validly and effectively approved and authorized by all necessary corporate action on the part of the Optionee and has been duly executed and delivered by the Optionee;
- (c) The Optionee has good and sufficient right, power and authority to enter into and deliver this Option Agreement and to perform the transactions contemplated hereby and this Option Agreement and the provisions hereof constitute legal, valid and binding obligations of the Optionee enforceable in accordance with their terms; and
- (d) Neither the execution and delivery of this Option Agreement, nor compliance by the Optionee with any of the provisions hereof or thereof conflicts with or results in a breach of or default under any lien, charge, encumbrance or adverse claim against or on the Property under any of the terms, conditions or provisions of the constating documents or any directors' or shareholders' resolution of the Optionee or any agreement or instrument to which the Optionee is a party or any judgment, order, law or governmental, or administrative regulation or restriction applicable to it.

### **3.03 Survival of Representations**

All representations and warranties granted or assented to in this Option Agreement, will survive the signing of this Agreement and each such representation and warranty is a condition of this Option Agreement, any or all of which conditions may be waived in whole or in part by the party for whose benefit the representation is made.

## **4. RIGHTS AND COVENANTS RELATING TO THE PROPERTY**

### **4.01 Right to Explore**

Subject to applicable Ontario laws and regulations, during the Term (as that term is defined herein) the Optionee shall have the exclusive right to enter upon the Property and to explore and prospect for ores and minerals thereon, subject to the conditions attaching to the Property. The rights of the Optionee under this Section shall be subject to Ontario laws and regulations and shall include all rights held or exercisable by the Optionors which rights include, but are not limited to, the right to:

- (a) Build roads and erect temporary structures upon the surface of the Property for use by the Optionee and its contractors and their respective personnel and equipment, subject to applicable Ontario Government regulations and permitting requirements;
- (b) Carry out surface and underground exploration on the Property for ores and minerals in respect of which the mineral claim comprising the Property are validly issued including, without limitation, by collecting samples for test metallurgical work;
- (c) Conduct any other geological, geophysical or geochemical evaluation, testing or assaying of the Property;
- (d) Use any surface and underground water rights, if any, in or upon or appurtenant to the Property and make application for any such rights as may be required in the circumstances, and to use all reciprocal rights which any of the Property may have with respect to other Property in the area;
- (e) With the prior approval of the Optionors, in the name of the Optionors, apply for all permits, licenses and other approvals deemed necessary or appropriate by the Optionee in connection with the conduct of exploration activities; and
- (f) Do all things which are incidental to or which may be useful, desirable or convenient in the exercise of rights or in the performance of obligations granted to the Optionee hereunder.

During the Term, the Optionee shall have control of all exploration activities on or for the benefit of the Property and of all equipment supplies, machinery and other assets purchased or otherwise acquired for use in connection with such exploration activities. The Optionee shall pay or cause to be paid the costs of all labour performed upon or material furnished to the Property by it or at its request.

#### **4.02 Site Responsibility**

During the Term of the Option the Optionee shall comply with applicable Ontario laws and regulations, municipal and local laws, regulations, orders and approval of all governmental authorities relating to environmental matters in connection with the use, maintenance and operation of the Property and the conduct of business and operations related thereto. The Optionee shall indemnify and save harmless the Optionors from and against any and all liabilities, losses, claims, damages (including, without limitation, penalties, fines and monetary sanctions but excluding lost profits and any other consequential damages whatsoever), costs, lawyer's fees and disbursements on a solicitor and his own client basis, court costs, accountant's fees and expenses and all other out-of-pocket expenses in connection with or arising in any manner whatsoever out of the breach of the covenant of the Optionee contained in this Section, provided however, that the Optionee's covenant contained in this Section does not apply to environmental matters related to the Property which took place prior to the date of this Option Agreement.

#### **4.03 Reclamation**

The Optionee will be responsible for reclamation of all disturbances caused from activities on the Property, and to the extent possible, the Optionee will conduct reclamation concurrently with disturbance. The Optionee will undertake rehabilitation in terms of Ontario law and regulations and closure monitoring of the Property to the extent required by Ontario laws and regulations. Notwithstanding termination of the Option, the Optionee shall, subject to the Optionors agreeing otherwise, have the obligation within 3 months following the termination of the Option to remove from the Property all buildings, plant equipment, machinery, tools, appliances and supplies that have been brought onto the Property by the Optionee.

## **5. TERM AND TERMINATION**

### **5.01 Term**

The term of this Option Agreement (the "Term") shall be that period commencing on the date of execution of this Option Agreement and ending on the earlier of:

- (a) the date that this Option Agreement is terminated; and
- (b) the date the Optionee exercises the Option in accordance with Section 2.02 herein.

### **5.02 Termination by Notice**

The Optionee may terminate this Option Agreement at any time upon giving not less than thirty (30) days written notice to the Optionors.

### **5.03 Default**

No party will be in default of any of its obligations under this Option Agreement or deprived of any of its rights hereunder until notice of the alleged default has been given to the other party and such default has not been remedied or such other party has not in good faith commenced to take action to remedy such default within 30 days after the receipt of such notice and has not diligently proceeded with such remedying.

## **6. ASSIGNMENT**

### **6.01 Assumption of Obligations**

The Optionee may, at any time during the Term, sell, transfer or otherwise dispose of all or any portion of its interest in and to this Option Agreement provided that any purchaser or transferee of any such interest will have first delivered to the Optionors its agreement related to this Option Agreement containing:

- (a) a covenant by such transferee to perform all the obligations of the Optionee to be performed under this Option Agreement in respect of the interest to be acquired by it from the Optionee to the same extent as if this Option Agreement had been originally executed by the transferee and such transferee as joint and several obligors making joint and several covenants; and
- (b) a provision subjecting any further sale, transfer or other disposition of all or any portion of such interest in this Option Agreement to the restrictions contained in paragraph (a).

## **7. TRANSFER OF PROPERTY**

### **7.01 Delivery of Assignments**

Within 20 business days of receipt of a written request by the Optionee, provided the Option has been exercised, the Optionors agree to deliver to the Optionee such documentation as the Optionee may reasonably require in order to assist the Optionee in applying for approval for the transfer of the Property to the Optionee.

## **8. FORCE MAJEURE**

### **8.01 Extension of Time**

If the Optionee is at any time either during the Term or thereafter prevented or delayed in complying with any provisions of this Agreement by reason of strike, lock-out, labour shortages, power shortages, fuel shortages, fire, war, act of God, governmental regulation restricting normal operations, shipping delays or any other reason or reasons (other than lack of funds) beyond the control of the Optionee, the time limited for the performance by the Optionee of its obligations hereunder shall be extended by a reasonable period of time.

### **8.02 Notice**

The Optionee shall give prompt notice to the Optionors of each event of force majeure and upon cessation of such event shall furnish the Optionors with notice to that effect.

## **9. ARBITRATION**

### **9.01 Disputes**

The parties agree that all questions or matters in dispute shall be submitted to and settled by arbitration pursuant to the terms hereof.

### **9.02 Notice**

It shall be a condition precedent to the right of any party to submit any matter to arbitration pursuant to the provisions hereof, that any party intending to refer any matter to arbitration shall have given not less than 30 days prior written notice of its intention to do so to the other party together with particulars of the matter in dispute. On the expiration of such 30-day period, the party who gave such notice may proceed to refer the dispute to arbitration as provided in paragraph 9.03.

### **9.03 Arbitration**

The party desiring arbitration shall appoint one arbitrator, and shall notify the other party of such appointment, and the other party shall, within 30 days after receiving such notice, appoint an arbitrator and the two arbitrators so named, before proceeding to act, shall, within 30 days of the appointment of the last appointed arbitrator, unanimously agree on the appointment of a third arbitrator to act with them and be chairman of the arbitration herein provided for. If the other party shall fail to appoint an arbitrator within 30 days after receiving notice of the appointment of the first arbitrator, the first arbitrator shall be the only arbitrator, and if the two arbitrators appointed by the parties shall be unable to agree on the appointment of the chairman, the chairman shall be appointed under the provisions of the laws of the Province of British Columbia relating to commercial arbitrations. Except as specifically otherwise provided in this Section, the arbitration herein provided for shall be conducted in accordance with the Commercial Arbitration Act (British Columbia) (the "Arbitration Act"). The chairman, or in the case where only one arbitrator is appointed, the single arbitrator, shall fix a time and place for the purpose of hearing the evidence and representations of the parties, and he shall preside over the arbitration and determine all questions of procedure not provided for under such Arbitration Act. This arbitrator, or the arbitrators, as the case may be, shall make an award and reduce the same to writing, and deliver one copy thereof to each of the parties. The expense of the arbitration shall be paid as specified in the award.

### **9.04 Binding Decision**

The parties agree that the award of a majority of the arbitrators, or in the case of a single arbitrator, of such arbitrator, shall be final and binding upon each of them.

## 10. GENERAL PROVISIONS

### 10.01 No Partnership

This Option Agreement is not intended to, and shall not be deemed to, create any partnership relation between the parties hereto, including without limitation a mining partnership or commercial partnership. The obligations and liabilities of the parties hereunder shall be several and not joint and neither party shall have or purport to have any authority to act for or to assume any obligations or responsibility on behalf of the other party, other than as expressly granted herein. Nothing herein contained shall be deemed to constitute any party the partner, agent or legal representative of the other party or to create any fiduciary relationship between the parties. Each party agrees to indemnify and hold the other party harmless from and against any and all losses, claims, damages and liabilities arising out of any act taken by or on behalf of such first-mentioned party in connection with this Option Agreement, except pursuant to authority expressly granted herein or otherwise agreed to between the parties. For the purposes of such indemnity, the reference to each party includes the directors, officers, employees and agents of that party.

### 10.02 Compliance With Laws

In the conduct of its operations on the Property, the Optionee and Optionors shall be responsible for compliance with applicable laws and regulations, including laws and regulations related to exploration, mining and reclamation; provided that the Optionee shall bear and pay the costs related thereto.

### 10.03 Notice

Any notice, election, proposal, objection or other document required or permitted to be given hereunder ("Notices") shall be in writing addressed to the parties as follows:

c/o To the Optionors: c/o Ken Fenwick  
84 Velva Avenue  
Thunder Bay, Ontario, P7A 6N5

e-mail: ●  
fax: (807) ●

Benton Resources Corp.  
1780 – 400 Burrard Street  
Vancouver, B.C. V6C 3A6

e-mail: gord@fretwell.ca  
fax: (604) 689-1288

All Notices shall be given by personal delivery, or prepaid registered mail, return receipt requested. All Notices shall be effective and shall be deemed delivered as follows:

- (a) If by personal delivery, on the date of delivery if delivered during normal business hours, and, if not delivered during normal business hours, on the next business day following delivery;
- (b) If by prepaid registered mail on the next business day after actual receipt.

A party may at any time change its address for future Notices hereunder by Notice in accordance with this Section 10.03

**10.04 Further Assurances**

Each of the parties hereby covenants and agrees to execute all further and other documents and instruments and to do all further and other things that may be necessary to implement and carry out the intent of this Option Agreement.

**10.05 Confidentiality**

The Optionors and the Optionee will, subject to regulatory requirements, maintain the highest level of confidentiality with respect to this Option Agreement and the Property.

**10.06 Entire Agreement**

This Option Agreement, including the Schedules hereto, shall constitute the entire agreement of the parties with respect to the Property and the subject matter hereof, all previous agreements with respect thereto being expressly rescinded and replaced hereby, and no modification or alteration of this Option Agreement shall be effective unless in writing executed subsequent to the date hereof by both of the parties. No prior written or contemporaneous oral promises, representations or agreements shall be binding upon the parties.

**10.07 Counterparts**

This Agreement may be executed in one or more counterparts and by facsimile, which so executed shall constitute an original and all of which together shall constitute one and the same agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Option Agreement as of the 27<sup>th</sup> day of April, 2007.

**SIGNED, SEALED AND DELIVERED** )

by Ken Fenwick in the presence of: )

Signature of Witness )

\_\_\_\_\_) )  
Address )

\_\_\_\_\_) )  
Occupation )

\_\_\_\_\_  
**KEN FENWICK**

**SIGNED, SEALED AND DELIVERED** )

by Dr. Don Leishman in the presence of: ) )

Signature of Witness )

\_\_\_\_\_) )  
Address )

\_\_\_\_\_) )  
Occupation )

\_\_\_\_\_  
**DR. DON LEISHMAN**

**SIGNED, SEALED AND DELIVERED** )

by Karl Bjorkman in the presence of: )

Signature of Witness )

\_\_\_\_\_  
Address )

\_\_\_\_\_  
Occupation )

\_\_\_\_\_  
**KARL BJORKMAN**



**SIGNED, SEALED AND DELIVERED** )  
 by Don Devereaux in the presence of: )  
 )  
 )  
 Signature of Witness )  
 )  
 \_\_\_\_\_ )  
 Address )  
 )  
 \_\_\_\_\_ )  
 Occupation )

\_\_\_\_\_  
**DON DEVEREAUX**

**BENTON RESOURCES CORP.**

Per:

\_\_\_\_\_  
 Authorized Signatory

\_\_\_\_\_  
 Authorized Signatory

## SCHEDULE "A"

### DEFINED TERMS

For the purposes of this Option Agreement, the following words and phrases shall have the following meanings, namely:

- (a) "Property" means the Property as defined on Schedule "B" including any additional area of interest;
- (b) "Expenditures" means all direct and indirect expenses incurred on or for the benefit of the Property or the Area of Interest, together with any and all costs, fees, and expenses that may be paid to obtain engineering or other studies or reports on or with respect to the Property. For greater certainty Expenditures shall include without limitation the costs, fees and expenses of (i) obtaining and maintaining title, (ii) conducting geological, geochemical, geophysical, and environmental diligence and obtaining necessary authorizations and permits; (iii) reasonable charges by the Optionee for services provided by geologists or others in the employment of the Optionee in evaluating the Property; and (iv) a pro rata portion of all office and administrative expenses of the Optionee's office with primary responsibility for evaluating the Property.
- (c) "NSR" or "Net Smelter Return" means the net smelter returns royalty as defined in Schedule "C" attached to the Option Agreement to which this Schedule "A" is attached.
- (f) "Option" means the option provided to the Optionee to acquire a 100% undivided interest in the Property, subject to the NSR in favour of the Optionors.
- (g) "Party" means a party to this Option Agreement.

**SCHEDULE "B"**

Goodmorning Lake Option Claim List

4221611	16 units
4221612	16 units
4221613	16 units
4221614	16 units
4221615	16 units
4221616	16 units

## SCHEDULE "C"

### NET SMELTER RETURNS ROYALTY

#### 1 DEFINITION

1.01 "Net Smelter Returns" for purposes of the Agreement are defined as follows:

- (a) where all or a portion of the ores or concentrates derived from the Property are sold as ores or concentrates, the Net Smelter Returns shall be the gross amount received from the purchaser following sale thereof after deduction of:
  - (i) if applicable under the sale contract, of all smelter charges, penalties and other deductions;
  - (ii) all costs of transporting and insuring the ores or concentrates from the mine to the smelter or other place of final delivery; and
  - (iii) sales, use, severance, excise, net proceeds of mine, and ad valorem taxes and any tax on or measured by mineral production, but excluding income taxes of the Royaltypayor; and
- (b) where all or a portion of the said ores or concentrates derived from the Property are treated in a smelter and a portion of the metals recovered therefrom are delivered to, and sold by Royaltypayor, the Net Smelter Returns shall be the gross amount received from the purchaser following sale of the metals so delivered, after deduction of:
  - (i) all smelter charges, penalties and other deductions;
  - (ii) all costs of transporting and insuring the ores or concentrates from the mine to the smelter; and
  - (iii) if applicable under the smelter contract, all costs of transporting and insuring the metals from the smelter to the place of final delivery by the purchaser; and
  - (iv) sales, use, severance, excise, net proceeds of mine, and ad valorem taxes and any tax on or measured by mineral production, but excluding income taxes of the Royaltypayor.

1.02 Where any ores or concentrates are sold to, or treated in, a smelter owned or controlled by Royaltypayor, the pricing for that sale or treatment will be established by Royaltypayor on an arms-length basis so as to be fairly competitive with pricing, net of transportation, insurance, treatment charges and other related costs, then available on world markets for product of like quantity and quality.

#### 2 PAYMENT OF NET SMELTER RETURNS

2.01 If a party becomes entitled to a Net Smelter Returns royalty pursuant to the Agreement, the party paying the Net Smelter Returns (the "**Royaltypayor**") shall calculate the Net Smelter Returns and the sums to be disbursed to the party receiving the Net Smelter Returns (the "**Royaltyholder**") as at the end of each calendar quarter.

2.02 The Royaltypayor shall, within 60 days of the end of each calendar quarter, as and when any Net Smelter Returns are available for distribution:

- (a) pay or cause to be paid to the Royaltyholder that percentage of the Net Smelter Returns to which the Royaltyholder are entitled under the Agreement;
- (b) deliver to the Royaltyholder a statement indicating:
  - (i) the gross amounts received from the purchaser contemplated in §1.01 of this Schedule C;
  - (ii) the deductions therefrom in accordance with §1.01 of this Schedule C;
  - (iii) the amount of Net Smelter Returns remaining; and
  - (iv) the amount of those Net Smelter Returns to which the Royaltyholder are entitled; supported by such reasonable information as to the tonnage and grade of ores or concentrates shipped as will enable the Royaltyholder to verify the gross amount payable by the smelter or other purchaser.

### **3 ADJUSTMENTS AND VERIFICATION**

3.01 Payment of any Net Smelter Returns by Royaltypayor shall not prejudice the right of Royaltypayor to adjust any statement supporting the payment; provided, however, that all statements presented to the Royaltyholder by Royaltypayor for any quarter shall conclusively be presumed to be true and correct upon the expiration of 12 months following the end of the quarter to which the statement relates, unless within that 12-month period Royaltypayor gives notice to the Royaltyholder claiming an adjustment to the statement which will be reflected in subsequent payment of Net Smelter Returns.

3.02 Royaltypayor shall not adjust any statement in favour of itself more than 12 months following the end of the quarter to which the statement relates.

3.03 The Royaltyholder shall, upon 30 days' notice in advance to Royaltypayor, have the right to request that Royaltypayor have its independent external auditors provide their audit certificate for the statement or adjusted statement, as it may relate to the Agreement and the calculation of Net Smelter Returns.

3.04 The cost of the audit certificate shall be solely for the Royaltyholder's account unless the audit certificate discloses material error in the calculation of Net Smelter Returns, in which case Royaltypayor shall reimburse the Royaltyholder the cost of the audit certificate. Without limiting the generality of the foregoing, a discrepancy of 1% in the calculation of Net Smelter Returns shall be deemed to be material.

### **4 ROYALTYPAYOR TO DETERMINE OPERATIONS**

4.01 The Royaltypayor will have complete discretion concerning the nature, timing and extent of all exploration, development, mining and other operations conducted on or for the benefit of the Property and may suspend operations and production on the Property at any time it considers prudent or appropriate to do so. The Royaltypayor will owe the Royaltyholder no duty to explore, develop or mine the Property, or to do so at any rate or in any manner other than that which the Royaltypayor may determine in its sole and unfettered discretion. The Royaltypayor

may, but will not be obligated to treat, mill, heap leach, sort, concentrate, refine, smelt, or otherwise process, beneficiate or upgrade the ores, concentrates, and other products at sites located on or off the Property, prior to sale, transfer, or conveyance to a purchaser, user, or consumer. The Royaltypayor will not be liable for mineral values lost in processing under sound practices and procedures, and no royalty will be due on any such lost mineral values.

## **5 COMMINGLING**

- 5.01 Ores, concentrates and derivatives mined or retrieved from the Property may be commingled with ores, concentrates or derivatives mined or retrieved from other properties. All determinations required for calculation of Net Smelter Returns, including without limitation the amount of the metals contained in or recovered from ores, solutions, concentrates or derivatives mined or retrieved from the Property, the amount of the metals contained in or recovered from commingled ores, solutions, concentrates or derivatives shall be made in accordance with prudent engineering, metallurgical and cost accounting practices.

## **6 TRADING ACTIVITIES**

- 6.01 The Royaltypayor may, but need not, engage in forward sales, futures trading or commodity options trading, and other price hedging, price protection, and speculative arrangements (“**Trading Activities**”) which may involve the possible delivery of base or precious metals produced from the Property. The parties acknowledge and agree that the Royaltyholder shall not be entitled to participate in the proceeds or be obligated to share in any losses generated by the Trading Activities.

## SCHEDULE "D"

The Property (as that term is defined in the Option Agreement to which this is attached as Schedule "D") is beneficially held by the following individuals in the indicated percentages:

<b>Beneficial Holder</b>	<b>Percentage of Interest</b>
Ken Fenwick	60%
Dr. Don Leishman	20%
Karl Bjorkman	10%
Don Devereaux	10%

**10.04 Further Assurances**

Each of the parties hereby covenants and agrees to execute all further and other documents and instruments and to do all further and other things that may be necessary to implement and carry out the intent of this Option Agreement.

**10.05 Confidentiality**

The Optionors and the Optionee will, subject to regulatory requirements, maintain the highest level of confidentiality with respect to this Option Agreement and the Property.

**10.06 Entire Agreement**

This Option Agreement, including the Schedules hereto, shall constitute the entire agreement of the parties with respect to the Property and the subject matter hereof, all previous agreements with respect thereto being expressly rescinded and replaced hereby, and no modification or alteration of this Option Agreement shall be effective unless in writing executed subsequent to the date hereof by both of the parties. No prior written or contemporaneous oral promises, representations or agreements shall be binding upon the parties.

**10.07 Counterparts**

This Agreement may be executed in one or more counterparts and by facsimile, which so executed shall constitute an original and all of which together shall constitute one and the same agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Option Agreement as of the 27<sup>th</sup> day of April, 2007.


**SIGNED, SEALED AND DELIVERED** )  
by Ken Fenwick in the presence of: )

Signature of Witness )



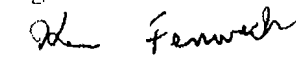
Address 204 ANTON )  
THUNDER BAY ONT )

Occupation MI )

  
KEN FENWICK

**SIGNED, SEALED AND DELIVERED** )  
by Dr. Don Leishman in the presence of: )

Signature of Witness )



Address 84 Uelva Ave, Thunder Bay )

Occupation Geologist )

  
DR. DON LEISHMAN



**SIGNED, SEALED AND DELIVERED**

by Karl Bjorkman in the presence of:

+ *Verniger Bjorkman*

Signature of Witness

Box 1814 Atikokan On  
Address

Office Administrator  
Occupation

MAY 01 2007

*Karl Bjorkman*  
KARL BJORKMAN

**SIGNED, SEALED AND DELIVERED** )  
by Don Devereaux in the presence of: )

Signature of Witness Ken Fenwick )

84 Uclva Ave, Raunby Bay, Ont. )  
Address )

Geologist )  
Occupation )

Don Devereaux  
**DON DEVEREAUX**

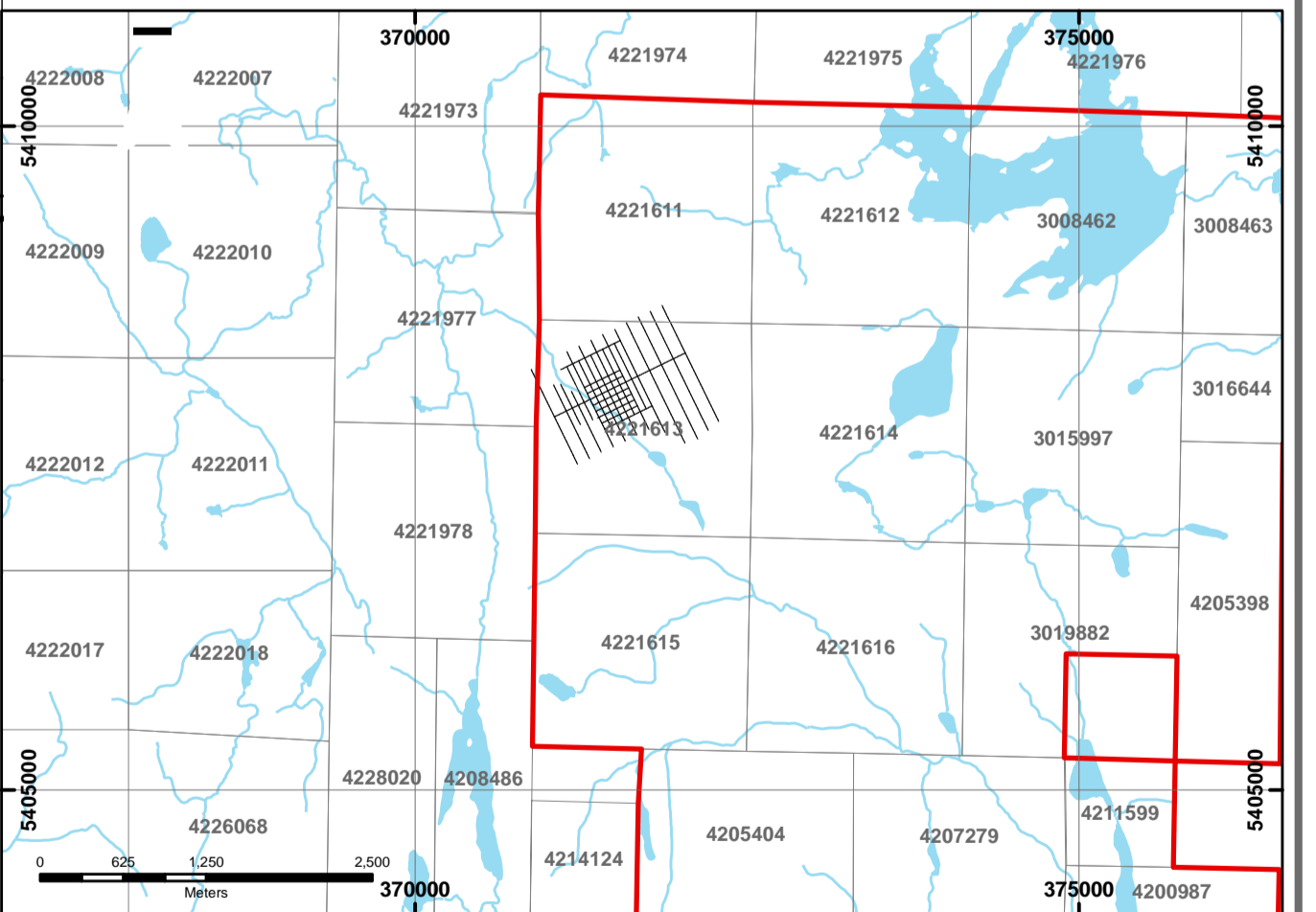
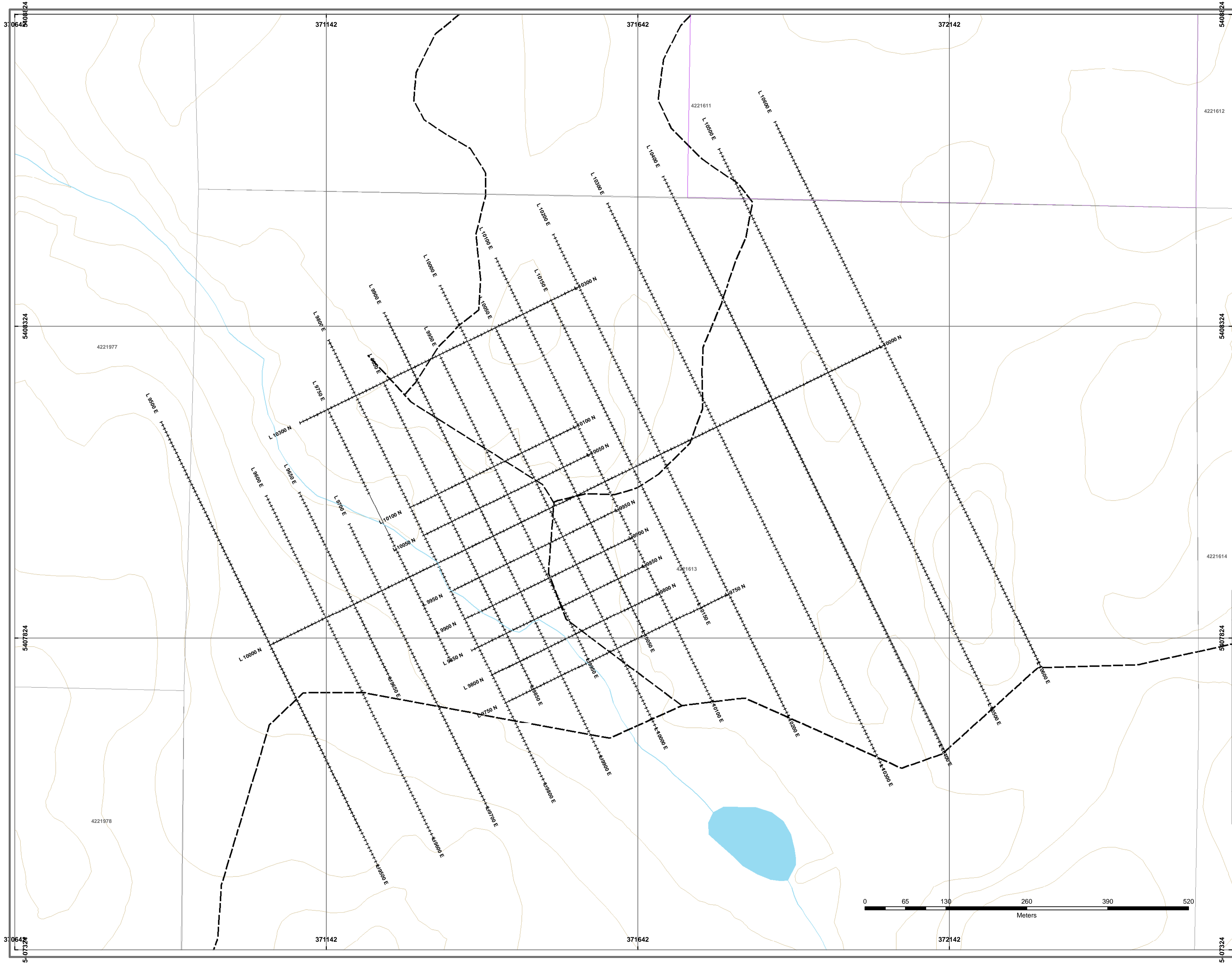
**BENTON RESOURCES CORP.**

Per:

[Signature]  
Authorized Signatory

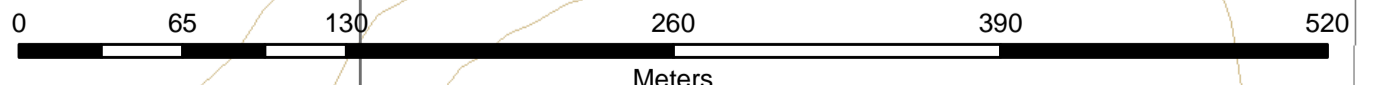
[Signature]  
Authorized Signatory

**Appendix 2**  
**Property Maps**

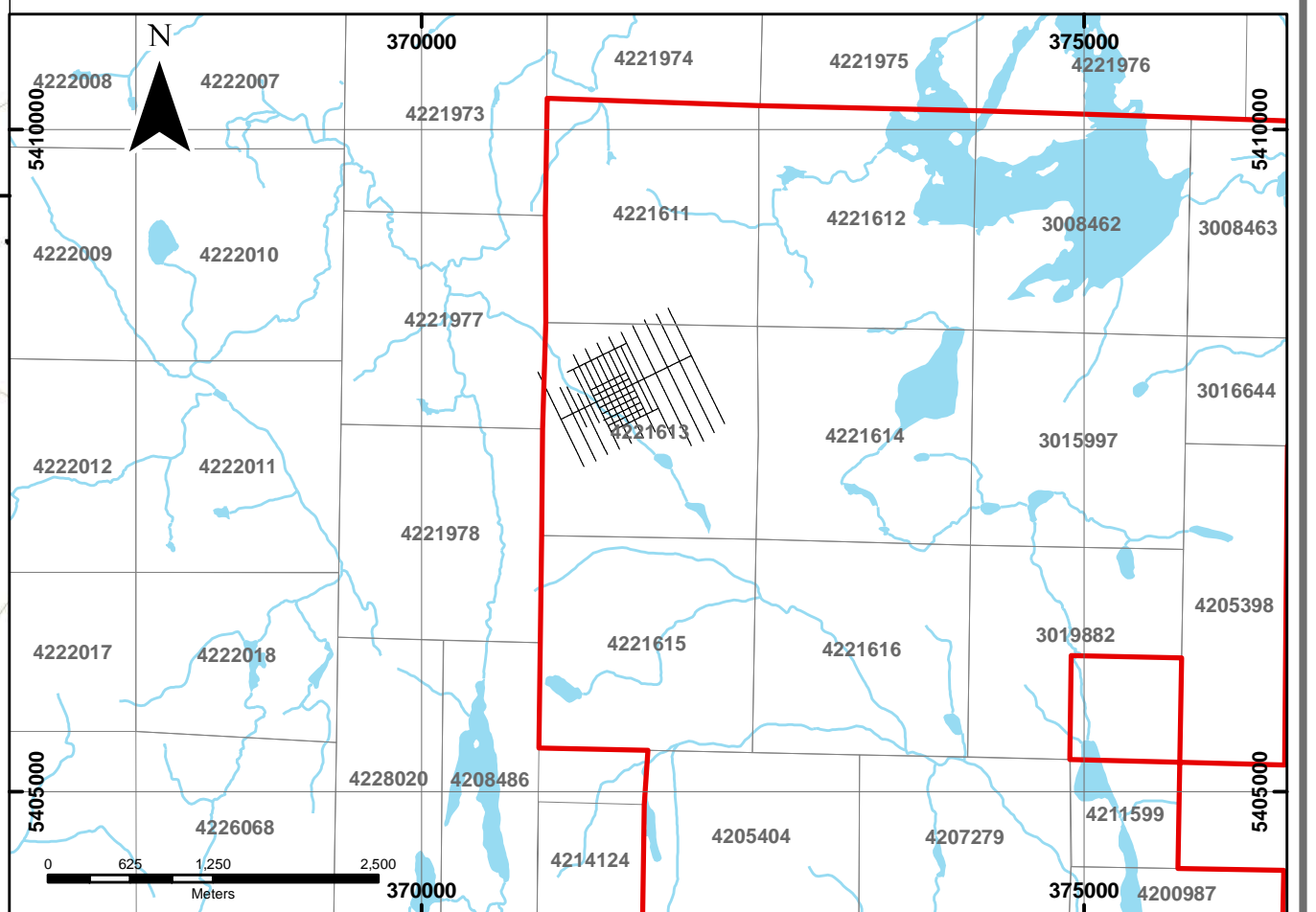
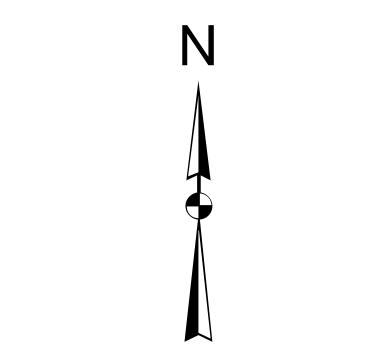
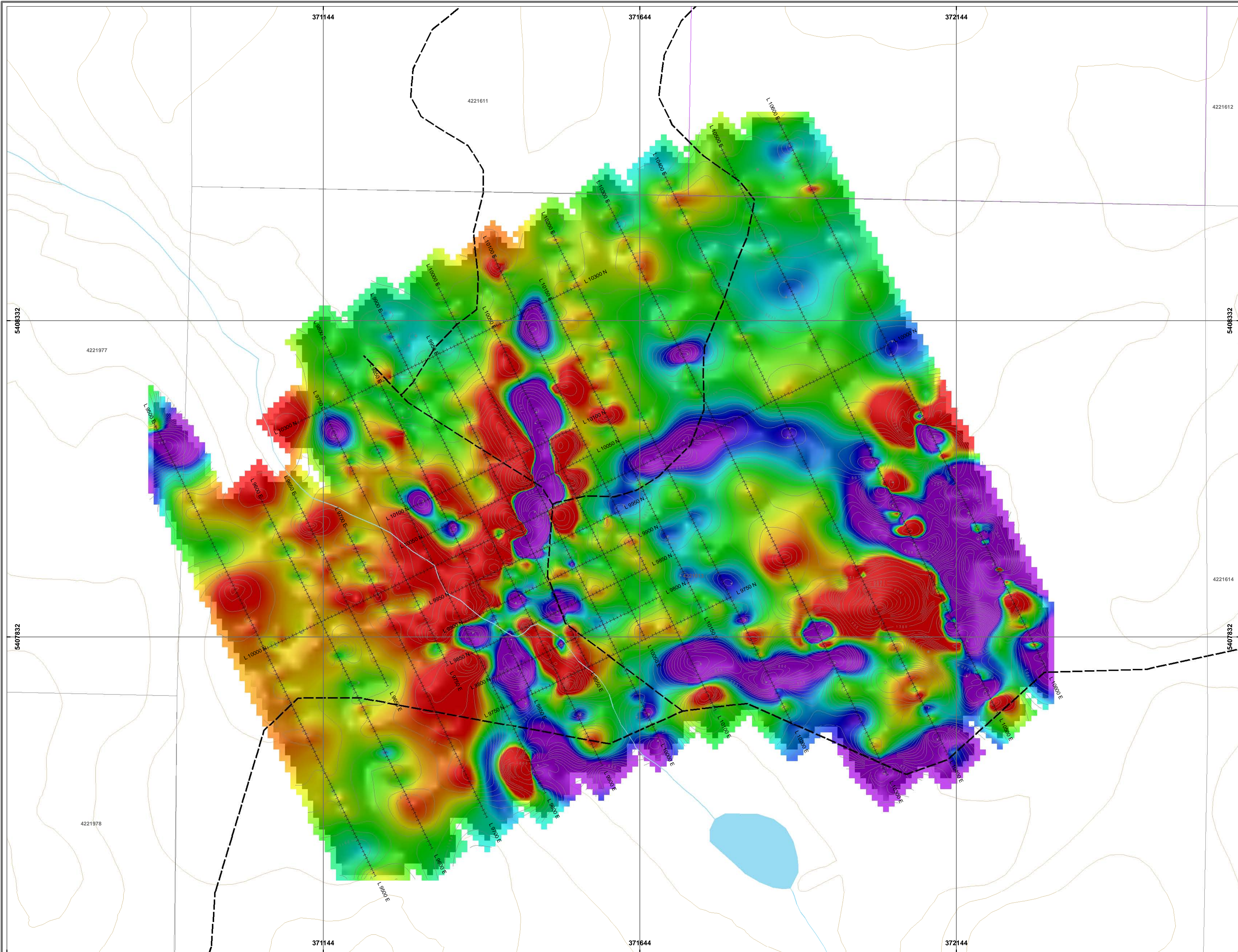


South Sibley Property  
Goodmorning Lake Grid  
Thunder Bay Mining District, Ontario

Local Grid Lines  
1:3,000



**BENTON** RESOURCES CORP. BTC-TSX-V  
Cut by: G. Peacock  
Mapping by: N. Sims  
NTS: 52A/15  
UTM NAD83 Zone 16

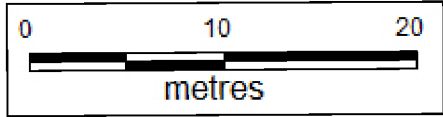
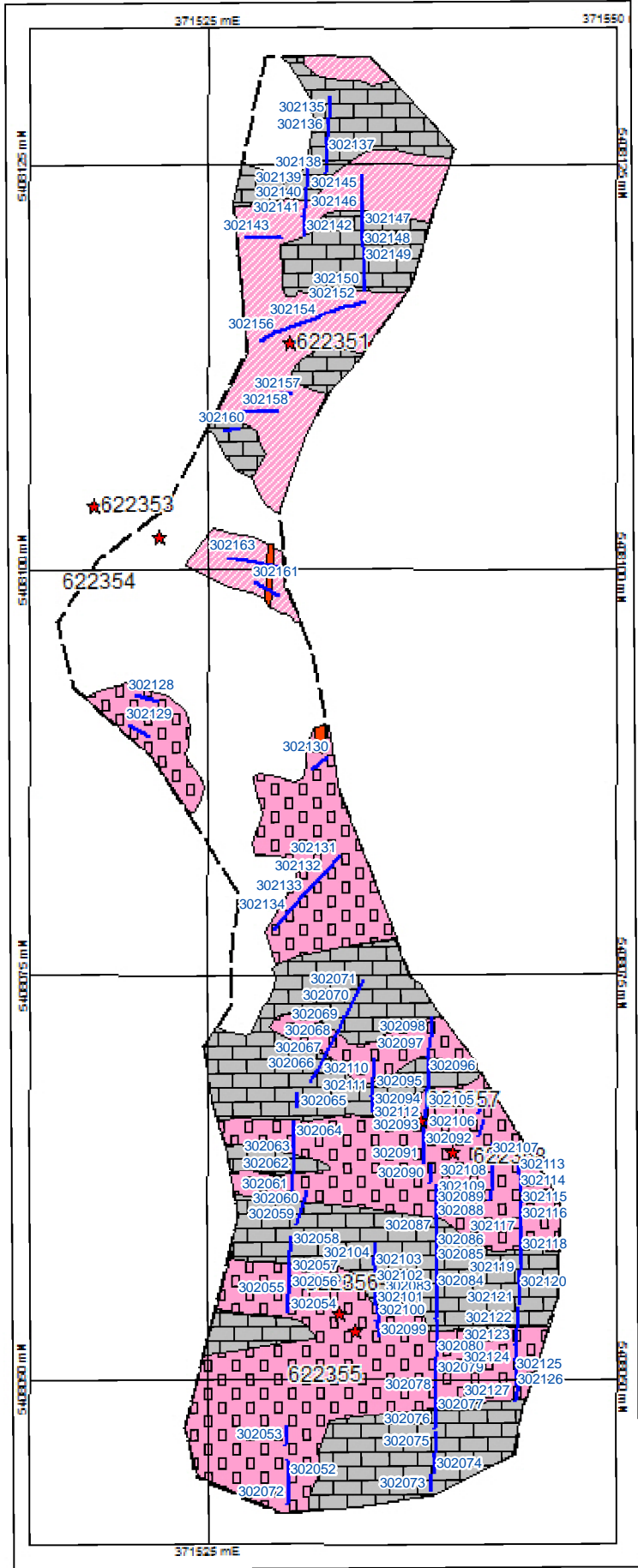


South Sibley Property  
Goodmorning Lake Grid  
Thunder Bay Mining District, Ontario

Ground Geophysical Survey  
Total Magnetics  
1:3,000







**BENTON** RESOURCES CORP. BTC-TSX-V

Surveyed by: MTEC Geophysics  
Mapping by: N. Sims  
NTS: 52A/15  
UTM NAD83 Zone 16



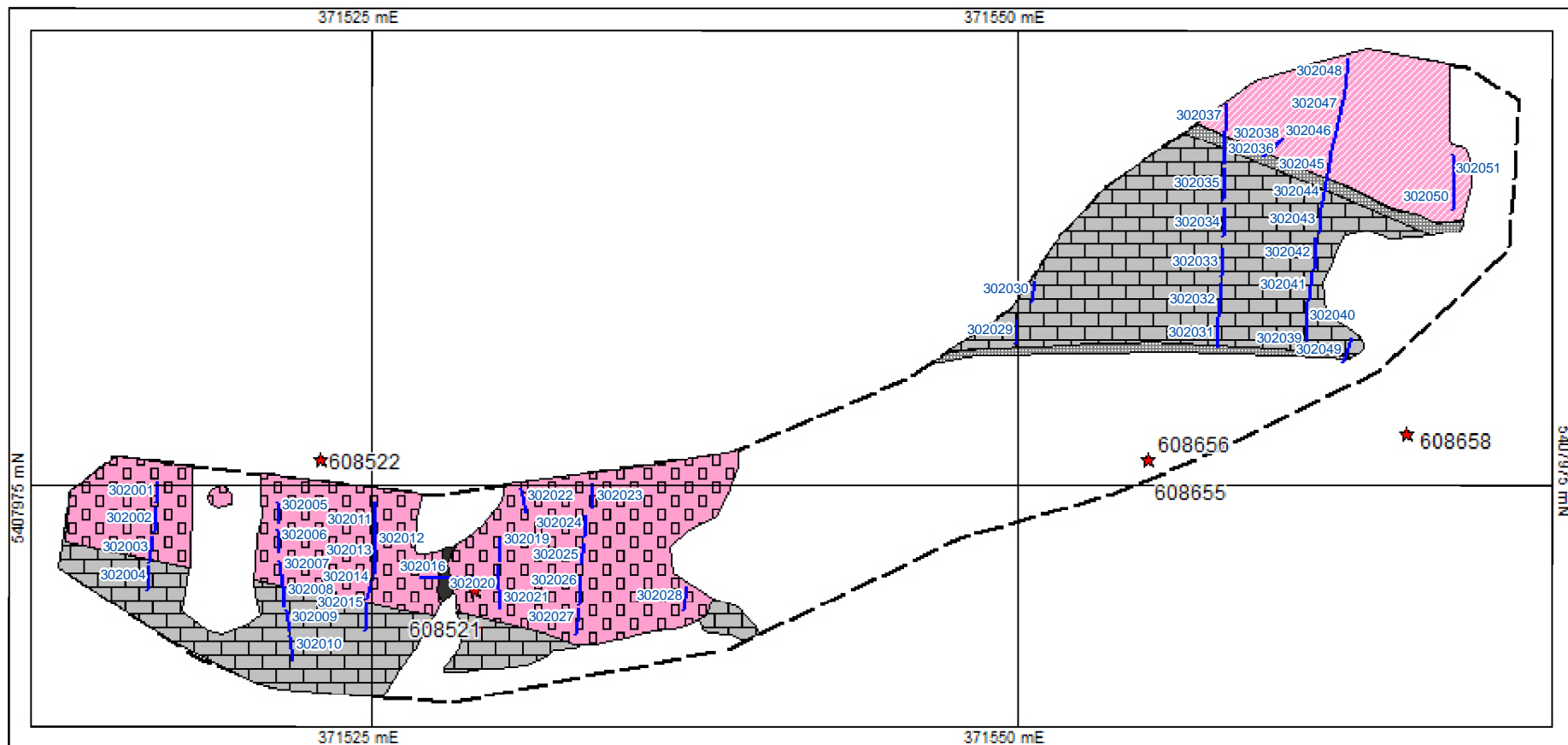
**Legend**

**Trench Geology**

	Quartz Pegmatite		Massive Pyrite Vein
	Mafic Gneiss		Channel Sample
	Granite		Grab Sample

**Benton Resources Corp.**

Date: January 20, 2008	<b>South Sibley Property North Trench</b>
Drawing: Trench Map	
Office: Thunder Bay	
Drawn By: K. Byrnes	
Scale: 1:400	Projection: NAD 83, Zone 16



## Benton Resources Corp.

Date: January 20, 2008

Drawing: Trench Map

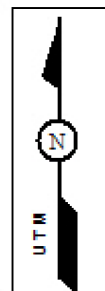
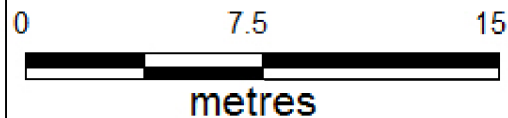
Office: Thunder Bay

Drawn By: K. Byrnes

Scale: 1:250

### South Sibley Property South Trench

Projection: NAD 83, Zone 16



### Legend

#### Trench Geology



Quartz Pegmatite



Massive  
Pyrite Vein



Mafic Gneiss



Channel  
Sample



Granite



Grab Sample

**Appendix 3**  
**Assay Certificates**





1046 Gorham Street  
Thunder Bay, ON  
Canada P7B 5X5

Tel: (807) 626-1630  
Fax: (807) 622-7571

www accurassay.com  
assay@accurassay.com

Benton Resources Corp.  
Date Created: 07-10-01 08:27:34 AM  
Job Number: 200742868  
Date Received: Aug 8, 2007  
Number of Samples: 164  
Type of Sample: Core  
Date Completed: Sep 19, 2007  
Project ID: Nipigon

\* The results included on this report relate only to the items tested  
\* This Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.  
\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur #	Client Tag	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	W	Y	Zn	Hg	S	U	Ce	Ga	Ge	Hf	In	La	Nb	Rb	Sc	Ta	Te	Th	Zr		
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210069	302009	2	2.35	<2	46	145	1	11	0.19	<4	21	174	38	3.20	0.80	78	1.58	345	<1	0.05	62	709	127	<5	<5	0.03	<10	5	584	<1	69	<10	7	28	<1	<0.10	29	51	12	11	14	<1	19	6	22	5	10	17	6	3		
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210071	302010	2	2.36	<2	45	122	1	12	0.31	<4	23	261	51	3.39	0.49	78	1.85	589	<1	0.05	69	856	145	8	<5	0.04	<10	5	1053	<1	71	<10	8	50	<1	<0.10	13	70	12	7	14	<1	29	6	9	5	9	18	7	3		
210072	302011	2	0.52	<2	53	33	<1	4	0.13	<4	3	139	6	0.58	0.22	11	0.24	104	4	0.05	9	394	32	<5	<5	0.04	<10	12	<100	<1	6	<10	2	<1	<1	<0.10	21	28	3	6	14	<1	9	<1	4	<1	7	13	3	8		
210073	302012	1	0.78	<2	49	47	<1	3	0.21	<4	5	258	7	1.12	0.32	16	0.46	145	12	0.05	15	321	49	<5	<5	0.04	<10	13	249	<1	18	<10	3	<1	<1	<0.10	42	36	6	5	14	<1	13	2	12	<1	8	18	5	7		
210074	302013	1	0.40	<2	43	35	<1	8	0.12	<4	3	119	3	0.52	0.17	8	0.21	<100	6	0.05	6	336	23	<5	<5	0.03	<10	13	<100	<1	5	<10	3	<1	<1	<0.10	11	60	2	4	15	5	25	<1	2	<1	7	15	14	16		
210075	302014	3	1.61	<2	46	80	1	10	0.23	<4	13	295	11	2.36	0.44	39	1.20	272	7	0.08	38	321	91	<5	<5	0.04	<10	4	516	<1	48	<10	3	22	<1	<0.10	38	25	11	8	14	<1	9	5	22	4	9	17	1	8		
210076	302015	2	2.16	<2	43	101	1	14	0.29	<4	22	184	57	3.27	0.42	67	1.69	454	<1	0.04	62	825	133	<5	<5	0.04	<10	5	748	<1	65	<10	8	39	<1	<0.10	32	62	12	10	14	<1	26	6	10	4	9	19	6	5		
210077	302016	2	0.43	<2	46	40	<1	7	0.15	<4	3	202	7	0.67	0.19	8	0.23	<100	16	0.05	8	333	37	<5	<5	0.04	<10	14	<100	<1	3	<10	2	<1	<1	<0.10	64	31	3	4	15	<1	10	<1	<1	7	14	8	13			
210078	302017	3	5.00	3	60	154	5	13	0.18	<4	38	101	58	6.26	1.15	199	4.61	467	<1	0.03	63	409	426	<5	<5	0.05	<10	8	1665	<1	257	<10	11	122	<1	<0.10	118	20	21	12	16	<1	8	25	36	34	13	23	2	37		
210079	302018	5	2.11	56	59	1953	2	9	0.79	<4	41	258	21	4.34	0.51	52	1.77	494	3	0.07	40	367	463	<5	<5	0.15	<10	61	356	<1	232	<10	15	24	<1	<0.10	501	144	16	6	18	<1	57	23	5	9	12	20	8	30		
210080	302019	2	2.62	<2	46	57	2	7	0.27	<4	23	238	6	2.42	0.26	99	2.98	303	<1	0.03	72	1127	86	<5	<5	0.08	<10	<3	171	<1	78	<10	4	38	<1	<0.10	39	39	15	12	15	<1	9	7	<1	5	10	16	4	27		
210081	302020	2	2.09	8	49	110	2	8	0.15	<4	17	201	6	1.02	0.48	68	1.81	183	2	0.04	34	515	79	<5	<5	0.08	<10	9	<100	<1	69	<10	6	15	<1	<0.10	80	40	11	9	15	2	7	6	9	4	9	16	12	38		
210082	302020	2	2.00	8	52	105	2	10	0.14	<4	16	190	6	1.56	0.45	65	1.75	176	2	0.04	32	509	77	<5	<5	0.08	<10	8	<100	<1	67	<10	5	16	<1	<0.10	73	39	11	7	15	2	7	6	7	4	8	16	10	36		
210083	302021	1	0.44	2	54	110	<1	3	0.09	<4	3	171	11	0.58	0.17	8	0.30	<100	6	0.06	7	319	30	<5	<5	0.05	<10	17	<100	<1	10	<10	3	<1	<1	<0.10	33	19	2	6	15	<1	5	<1	<1	<1	7	14	6	17		
210084	302022	1	1.95	<2	50	73	<1	7	0.13	<4	16	249	30	2.52	0.28	56	1.79	235	<1	0.05	59	446	882	6	<5	0.05	<10	<3	173	<1	60	<10	5	16	<1	<0.10	25	55	11	7	14	<1	22	5	<1	4	10	16	6	10		
210085	302023	1	1.85	<2	44	204	1	7	0.11	<4	22	176	44	2.90	0.37	51	1.37	273	<1	0.04	59	411	126	5	<5	0.04	<10	4	101	<1	58	<10	4	19	<1	<0.10	33															



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Benton Resources Corp  
Date Created: 07-10-01 08:27:34 AM  
Job Number: 200742868  
Date Received: Aug 8, 2007  
Number of Samples: 164  
Type of Sample: Core  
Date Completed: Sep 19, 2007  
Project ID: Nipigon

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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	W	Y	Zn	Hg	S	U	Ce	Ga	Ge	Hf	In	La	Nb	Rb	Sc	Ta	Te	Th	Zr		
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
210090	302028	1	1.44	<2	50	81	<1	8	0.09	<4	12	282	24	2.08	0.29	37	1.23	208	<1	0.06	44	280	81	<5	<5	0.05	<10	8	224	<1	39	<10	5	18	<1	<0.10	23	63	11	6	15	<1	25	4	1	2	9	16	12	19		
210091	302029	2	2.73	2	50	182	1	6	0.25	<4	21	222	42	3.68	0.78	108	2.02	417	<1	0.06	86	537	147	5	<5	0.04	<10	7	1685	<1	82	<10	6	29	<1	0.10	30	41	13	7	14	<1	17	7	29	7	10	21	4	5		
210092	302030	1	2.23	2	48	253	1	8	0.28	<4	21	285	45	3.07	1.04	53	1.61	412	<1	0.09	63	504	210	6	<5	0.04	<10	19	2371	<1	79	<10	5	90	<1	0.16	24	35	13	7	15	<1	15	7	45	7	10	18	3	3		
210093	302030	2	2.19	<2	50	249	1	8	0.25	<4	21	280	44	3.03	1.01	52	1.59	405	<1	0.08	62	487	206	<5	<5	0.04	<10	19	2329	<1	78	<10	5	90	<1	0.15	24	34	13	6	14	<1	14	7	42	7	9	20	3	3		
210094	302031	4	2.54	<2	55	212	<1	8	0.22	<4	27	187	66	3.94	1.32	52	1.59	561	<1	0.08	87	507	243	<5	<5	0.06	<10	11	2926	<1	111	<10	7	75	<1	0.21	28	48	17	8	15	<1	20	11	108	12	11	21	5	3		
210095	302032	2	2.27	2	53	183	1	8	0.28	<4	22	276	38	3.28	0.85	50	1.65	405	<1	0.06	75	684	184	<5	<5	0.04	<10	7	1549	<1	73	<10	6	45	<1	0.14	31	38	12	8	14	<1	15	7	45	7	10	21	<1	4		
210096	302033	2	1.99	<2	52	135	1	5	0.31	<4	21	195	23	2.68	0.81	41	1.66	373	<1	0.07	70	571	92	<5	<5	0.04	<10	8	1394	<1	64	<10	5	33	<1	<0.10	24	27	11	8	14	<1	11	6	25	5	9	19	2	3		
210097	302034	2	2.63	2	46	458	1	10	1.77	<4	29	300	64	3.27	0.31	63	3.27	887	<1	0.04	164	1798	133	<5	<5	0.08	<10	31	1722	<1	93	<10	11	56	<1	<0.10	<10	72	14	12	15	<1	28	9	<1	10	10	20	6	20		
210098	302035	2	2.31	<2	42	175	1	6	0.25	<4	30	172	51	3.15	0.37	49	2.26	431	<1	0.04	80	791	117	<5	<5	0.04	<10	4	476	<1	74	<10	6	24	<1	0.18	28	55	13	12	14	<1	20	7	5	5	9	17	5	13		
210099	302036	1	1.96	<2	47	61	1	8	0.16	<4	16	218	18	2.71	0.26	54	1.79	568	<1	0.03	37	366	116	<5	<5	0.04	<10	<3	112	<1	49	<10	3	7	<1	<0.10	29	48	11	6	14	<1	17	4	<1	3	9	16	3	9		
210100	302037	1	0.53	<2	44	47	<1	8	0.07	<4	5	115	15	0.79	0.14	8	0.36	105	<1	0.03	6	303	32	<5	<5	0.03	<10	7	<100	<1	7	<10	4	<1	<1	<0.10	<10	86	4	5	15	<1	<1	<1	8	15	18	18				
210101	302038	2	1.48	<2	57	132	2	7	0.11	<4	19	254	248	2.08	0.39	37	1.04	208	1	0.04	29	389	137	5	<5	0.05	<10	8	<100	<1	28	<10	5	13	<1	<0.10	142	51	8	5	15	<1	21	2	10	1	8	17	7	19		
210102	302039	2	2.02	<2	44	163	<1	6	0.21	<4	22	148	47	3.17	0.90	36	1.45	380	<1	0.05	74	474	194	<5	<5	0.04	<10	5	1749	<1	79	<10	6	44	<1	0.15	28	40	14	7	14	<1	16	8	63	7	10	21	3	5		
210103	302040	2	1.80	<2	50	95	1	8	0.22	<4	18	242	22	2.59	0.59	28	1.48	294	<1	0.06	64	475	99	<5	<5	0.04	<10	4	866	<1	56	<10	5	24	<1	<0.10	25	35	12	8	14	<1	15	6	30	5	9	15	3	7		
210104	302041	1	1.78	<2	48	78	1	5	0.26	<4	17	141	6	2.32	0.20	36	1.72	263	<1	0.04	57	552	86	<5	<5	0.04	<10	<3	112	<1	50	<10	5	15	1	<0.10	26	38	12	7	14	<1	16	4	<1	2	8	16	<1	5		
210105	302041	1	1.87	<2	51	83	1	7	0.28	<4	18	148	5	2.43	0.21	38	1.81	276	<1	0.04	60	581	96	<5	<5	0.04	<10	<3	113	<1	52	<10	5	16	<1	<0.10	13	40	12	8	14	1	17	4	<1	2	9	19	<1	5		
210106	302042	1	2.28	2	48	110	2	11	0.19	<4	23	210	29	2.21	0.41	57	2.06	287	<1	0.04	52	392	84	<5	<5	0.05	<10	<3	144	<1	63	<10	7	13	<1	<0.10	34	65	13	10	15	<1	27	6	11	4	8	17	5	15		
210107	302043	2	1.88	<2	60	73	2	4	0.73	<4	20	128	99	2.04	0.31	55	1.52	243	2	0.03	27	371	124	<5	<5	0.05	<10	11	<100	<1	42	<10	16	2	<1	<0.10	151	78	12	7	15	3	36	4	5	3	9	19	6	15		
210108	302044	1	0.51	<2	50	37	<1	4	0.14	<4	9	72	16	0.75	0.07	11	0.41	<100	<1	0.02	7	361	34	<5	<5	0.02	<10	7	<100	<1	7	<10	4	<1	<1	<0.10	<10	73	3	4	15	2	30	<1	<1	<1	7	16	20	16		
210109	302045	1	0.60	<2	47	56	<1	5	0.15	<4	7	129	17	0.75	0.17	12	0.40	145	<1	0.04	6	374	28	<5	<5	0.03	<10	10	<100	<1	5	<10	5	<1	<1	<0.10	<10	96	4	5	15	<1	39	<1	<1	<1	8	14	23	21		
210110	302046	2	0.55	<2	46	61	<1	5	0.24	<4	4	257	30	0.78	0.20	10	0.28	159	1	0.04	12	327	32	<5	<5	0.03	<10	10	<100	<1	5	<10	9	<1	<1	<0.10	14	101	3	5	15	<1	41	<1	<1	<1	8	16	22	25		
210111	302047	1	0.56	<2	45	63	<1	8	0.09	<4	8	162	14	0.85	0.18	9	0.32	158	<1	0.04	7	353	33	<5	<5	0.03	<10	9	<100	<1	4	<10	6	<1	<1	<0.10	<10	115	4	4	15	<1	47	<1	<1	<1	7	16	22	20		
210112	302048	2	0.46	<2	47	41	<1	6	0.16	<4	4	234	9	0.81	0.16	6	0.26	121	<1	0.05	8	336	42	6	<5	0.02	<10	7	<100	<1	3	<10	8	<1	<1	<0.10	<10	81	2	5	15	3	33	<1	<1	<1	8	16	22	18		
210113	302049	2	1.79	2	51	72	1	7	0.20	<4	20	154	30	2.70	0.43	32	1.61	292	2	0.05	67	331	113	<5	<5	0.03	<10	<3	711	<1	66	<10	6	24	<1	<0.10	34	43	15	8	14	<1	17	6	20	5	8	19	5	9		
210114	302050	2	0.88	<2	49	49	<1	1	0.24	<4	7	247	11	1.17	0.19	16	0.64	128	<1	0.05	20	398	48	<5	<5	0.03	<10	9	<100	<1	12	<10	6	<1	<1	<0.10	10	68	6	5	15	<1	26	1	<1	<1	9	15	13	15		
210115	302051	1	0.48	<2	52	43	<1	4	0.32	<4	4	153	6	0.59	0.18	8	0.28	<100	1	0.05	7	406	21	<5	<5	0.02	<10	12	<100	<1	3	<10	8	<1	<1	<0.10	<10	102	3	3	15	<1	40	<1	<1	<1	7	17	26	24		
210116	302051	1	0.49	<2	50	44	<1	<1	0.33	<4	4	160	6	0.60	0.18	7	0.28	<100	<1	0.05	6	414	25	<5	<5	0.03	<10	12	<100	<1	3	<10	8	<1	<1	<0.10	<10	99	3	5	15	3	40	<1	<1	<1	7	15	27	25		
210117	302052	1	0.25	<2	53	21	<1	6	0.11	<4	5	257	15	0.50	0.12	1	0.09	<100	3	0.04	10	424	24	<5	<5	0.02	<10	4	<100	<1	<2	<10	2	3	<1	<0.10	<10	23	1	4	14	<1	8	<1	<1	<1	7	13	2			



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Benton Resources Corp.  
Date Created: 07-10-01 08:27:34 AM  
Job Number: 200742868  
Date Received: Aug 8, 2007  
Number of Samples: 164  
Type of Sample: Core  
Date Completed: Sep 19, 2007  
Project ID: Nipigon

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Accur. #	Client Tag	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	W	Y	Zn	Hg	S	U	Ce	Ga	Ge	Hf	In	La	Nb	Rb	Sc	Ta	Te	Th	Zr		
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
210119	302054	1	0.39	<2	55	50	<1	5	0.27	<4	3	278	8	0.67	0.17	5	0.15	137	16	0.03	10	1102	73	<5	<5	0.05	<10	9	<100	<1	11	<10	14	<1	<1	<0.10	18	28	2	3	15	1	9	1	1	<1	7	15	2	2		
210120	302055	1	0.49	<2	52	37	<1	7	0.23	<4	3	101	3	0.89	0.13	9	0.30	<100	4	0.04	7	493	37	<5	<5	0.03	<10	6	<100	<1	17	<10	7	<1	<1	<0.10	<10	107	3	5	15	<1	44	2	<1	<1	8	15	25	37		
210121	302056	2	0.36	<2	51	43	<1	<1	0.15	<4	4	210	17	0.60	0.14	5	0.17	<100	4	0.04	9	306	40	<5	<5	0.03	<10	6	<100	<1	8	<10	6	3	<1	<0.10	15	56	2	5	15	4	22	1	<1	<1	7	15	12	23		
210122	302057	2	2.81	3	52	197	2	9	1.07	<4	29	92	198	3.12	1.47	38	2.14	313	<1	0.14	38	413	152	<5	<5	0.04	<10	43	1726	<1	80	<10	5	100	<1	0.36	13	18	10	14	<1	7	7	83	3	10	22	<1	3			
210123	302058	1	0.77	<2	51	294	1	4	0.11	<4	5	189	7	1.06	0.18	15	0.77	150	<1	0.05	14	277	43	<5	<5	0.04	<10	8	318	<1	15	<10	4	4	<1	<0.10	<10	41	6	4	14	2	16	2	4	1	8	16	16	15		
210124	302059	2	1.07	<2	52	54	1	9	1.04	<4	10	143	10	1.39	0.26	22	1.54	228	<1	0.05	35	1491	51	<5	<5	0.07	<10	16	401	<1	22	<10	4	10	<1	<0.10	<10	28	6	9	14	3	11	3	8	4	8	17	<1	6		
210125	302060	1	0.89	<2	50	48	<1	8	0.33	<4	12	181	13	1.43	0.17	19	0.70	152	3	0.04	15	1132	77	<5	<5	0.08	<10	7	112	<1	20	<10	13	<1	<1	<0.10	23	41	6	5	14	2	14	2	1	1	8	16	8	11		
210126	302061	1	0.80	<2	51	43	<1	5	0.47	<4	7	145	24	1.15	0.37	12	0.45	179	10	0.06	13	1561	80	<5	<5	0.03	<10	9	540	<1	35	<10	20	156	<1	<0.10	117	47	8	6	15	<1	17	5	19	3	9	16	10	15		
210127	302061	2	0.90	<2	52	47	<1	5	0.52	<4	7	164	23	1.25	0.42	12	0.50	197	11	0.06	14	1702	84	<5	<5	0.05	<10	10	610	<1	39	<10	22	25	<1	<0.10	129	53	7	5	15	<1	19	4	24	3	9	16	11	18		
210128	302062	3	1.47	<2	56	49	<1	12	0.42	<4	12	208	28	2.08	0.71	23	0.83	296	23	0.08	30	1431	191	<5	<5	0.04	<10	7	1167	<1	62	<10	22	23	<1	<0.10	261	38	11	4	15	<1	12	7	49	5	9	18	7	4		
210129	302063	1	1.58	2	54	57	<1	8	0.31	<4	14	164	26	2.27	0.81	24	0.91	277	5	0.06	35	783	113	<5	<5	0.04	<10	5	1387	<1	62	<10	9	26	<1	<0.10	41	45	11	7	15	<1	19	6	67	5	10	14	5	6		
210130	302064	2	1.05	<2	56	59	<1	5	0.16	<4	6	341	15	1.39	0.46	15	0.50	166	7	0.08	21	432	74	<5	<5	0.04	<10	7	522	<1	29	<10	5	3	<1	<0.10	52	39	6	8	15	<1	16	3	23	1	8	18	7	11		
210131	302065	3	2.31	<2	54	104	<1	9	0.20	<4	21	204	20	3.24	0.98	38	1.50	403	1	0.05	54	480	136	<5	<5	0.03	<10	3	1688	<1	85	<10	7	48	<1	<0.10	29	45	13	7	14	<1	19	8	71	8	10	19	5	9		
210132	302066	2	2.33	<2	57	69	1	5	0.10	<4	18	351	24	3.18	1.36	33	1.25	367	6	0.08	57	265	125	<5	<5	0.03	<10	<3	2420	<1	87	<10	4	34	<1	<0.10	29	43	16	7	15	<1	18	9	113	9	11	23	6	13		
210133	302067	2	2.52	2	52	94	<1	6	0.16	<4	19	206	57	3.38	0.87	58	1.88	291	<1	0.06	70	405	184	<5	<5	0.03	<10	<3	1267	<1	83	<10	4	22	<1	0.13	33	42	14	9	14	<1	18	7	44	8	9	20	3	13		
210134	302068	1	1.22	<2	53	52	<1	7	0.25	<4	9	328	37	1.51	0.45	23	0.76	178	<1	0.07	30	250	64	5	<5	0.03	<10	5	479	<1	37	<10	4	7	<1	<0.10	<10	43	9	6	14	<1	18	3	16	3	9	15	4	10		
210135	302069	2	1.92	<2	53	63	1	10	0.20	<4	15	174	23	2.31	0.50	42	1.49	215	<1	0.04	41	426	91	<5	<5	0.04	<10	<3	689	3	53	<10	4	11	<1	<0.10	29	39	10	8	15	1	17	5	24	4	10	19	1	9		
210136	302070	2	2.33	<2	50	117	1	8	0.48	<4	16	307	11	2.47	0.54	60	1.81	250	<1	0.03	60	508	97	6	<5	0.04	<10	<3	396	<1	54	<10	5	5	<1	<0.10	22	37	11	12	15	<1	17	5	18	4	9	16	3	17		
210137	302071	2	1.32	<2	47	42	<1	7	0.14	<4	14	216	13	2.08	0.34	25	1.00	202	<1	0.03	36	249	81	<5	<5	0.03	<10	<3	435	<1	44	<10	3	10	<1	<0.10	18	30	10	7	14	<1	13	4	16	3	9	18	2	13		
210138	302071	2	1.44	<2	51	46	<1	10	0.16	<4	16	235	15	2.27	0.36	28	1.08	221	<1	0.04	39	274	90	<5	<5	0.03	<10	<3	476	<1	49	<10	3	12	<1	<0.10	28	35	9	7	14	<1	15	5	15	3	9	15	4	14		
210139	302072	2	0.60	<2	50	25	<1	4	0.15	<4	5	267	11	0.82	0.23	7	0.28	<100	1	0.04	17	668	31	<5	<5	0.03	<10	5	<100	<1	11	<10	1	<1	<1	<0.10	<10	19	3	4	14	2	5	1	6	<1	8	14	<1	<1		
210140	302073	2	2.82	2	54	302	1	10	0.31	<4	27	272	64	4.22	1.26	88	1.77	332	<1	0.08	74	790	183	<5	<5	0.03	<10	6	1989	<1	104	<10	5	66	<1	0.31	33	38	14	8	15	<1	16	9	32	7	10	22	4	8		
210141	302074	2	2.36	<2	51	205	<1	11	0.33	<4	25	284	46	3.28	1.10	44	1.39	324	<1	0.06	61	604	126	6	<5	0.03	<10	<3	1912	<1	92	<10	6	27	<1	<0.10	17	43	13	7	14	<1	18	9	63	8	10	17	4	5		
210142	302075	3	2.58	<2	51	112	2	10	0.24	<4	23	229	41	3.41	0.91	51	1.54	251	<1	0.08	63	589	142	<5	<5	0.03	<10	<3	1266	<1	81	<10	8	15	<1	<0.10	26	46	13	9	14	<1	20	7	69	7	9	20	3	9		
210143	302076	2	2.69	2	49	210	1	10	0.22	<4	24	232	82	3.80	0.97	73	1.65	317	<1	0.05	72	549	138	5	<5	0.03	<10	<3	1638	<1	90	<10	6	29	<1	<0.10	35	39	12	7	14	<1	17	8	40	8	10	20	3	4		
210144	302077	2	2.81	<2	54	119	1	12	0.56	<4	27	197	34	3.87	0.95	71	1.71	380	<1	0.05	72	618	139	<5	<5	0.03	<10	4	1430	<1	90	<10	10	26	<1	<0.10	22	60	15	6	14	<1	27	8	63	9	9	21	4	8		
210145	302078	1	0.48	2	53	33	<1	2	0.24	<4	4	253	8	0.78	0.17	8	0.25	<100	3	0.04	10	296	39	<5	<5	0.03	<10	5	<100	<1	11	<10	6	8	<1	<0.10	<10	68	3	5	15	2	27	1	<1	<1	8	16	13	16		
210146	302079	2	0.79	<2	54	50	<1	4	0.22	<4	7	161	18	1.03	0.37	11	0.44	130	<1	0.05	15	345	40	<5	<5	0.03	<10	5	410	<1	23	<10	5	2	<1	<0.10	<10	72	4	6	15	<1	30	2	11	<1	8	15	11	19		
210147	302080	2	2.40	<2	52	189	<1	18	0.28	<4	22	312	56	3.72	0.96	53	1.51	327	1	0.06	60	622	243																													



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Benton Resources Corp.  
Date Created: 07-10-01 08:27:34 AM  
Job Number: 200742868  
Date Received: Aug 8, 2007  
Number of Samples: 164  
Type of Sample: Core  
Date Completed: Sep 19, 2007  
Project ID: Nipigon

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	W	Y	Zn	Hg	S	U	Ce	Ga	Ge	Hf	In	La	Nb	Rb	Sc	Ta	Te	Th	Zr			
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
210148	302081	3	2.75	<2	58	202	1	7	0.23	<4	28	198	71	3.88	1.37	47	1.67	368	<1	0.06	69	554	172	<5	<5	0.03	<10	3	2388	<1	113	<10	7	46	<1	0.12	36	51	16	10	14	2	23	10	72	10	10	10	21	6	5		
210149	302081	3	2.62	3	50	195	1	9	0.23	<4	27	191	68	3.75	1.33	45	1.62	355	<1	0.06	68	550	166	<5	<5	0.03	<10	3	2294	<1	108	<10	6	44	<1	0.11	28	46	14	9	15	<1	21	11	71	10	10	21	5	5			
210150	302082	<1	1.87	3	35	91	<1	5	0.21	<4	14	323	11	2.77	1.15	31	1.08	321	15	0.09	39	411	104	<5	<5	0.03	<10	12	1857	2	86	<10	7	33	<1	<0.10	55	24	15	8	<1	<1	16	7	98	7	19	9	<1	14			
210151	302083	<1	3.12	4	40	318	<1	6	0.33	<4	32	258	57	4.63	1.67	87	1.98	439	6	0.08	74	736	137	<5	<5	0.03	<10	11	2609	1	134	<10	9	104	<1	0.19	<10	27	20	11	<1	<1	17	11	88	12	20	14	<1	9			
210152	302084	1	3.50	4	40	344	<1	1	0.22	<4	30	414	49	5.37	1.35	132	2.04	407	7	0.08	85	630	145	<5	<5	0.03	<10	12	2447	<1	142	<10	10	90	<1	0.12	13	30	20	11	<1	<1	18	12	60	14	20	15	<1	7			
210153	302085	<1	3.08	2	40	304	<1	5	0.23	<4	29	254	63	4.48	1.35	81	1.89	425	5	0.08	77	568	111	<5	<5	0.03	<10	10	2026	1	122	<10	9	62	<1	0.14	<10	28	18	9	<1	<1	17	9	55	12	20	12	<1	6			
210154	302086	<1	1.14	<2	39	73	<1	2	0.73	<4	9	210	29	1.41	0.42	26	0.79	208	20	0.08	19	885	86	<5	<5	0.04	<10	33	537	<1	32	<10	18	4	<1	<0.10	52	27	7	6	<1	<1	13	3	21	1	17	5	<1	13			
210155	302087	<1	1.38	3	41	76	3	<1	1.48	<4	8	102	<1	1.40	0.45	34	1.72	358	3	0.08	23	2195	60	<5	<5	0.07	<10	55	870	<1	27	<10	8	19	<1	<0.10	<10	89	8	7	<1	<1	43	4	31	2	18	7	<1	6			
210156	302088	<1	1.01	<2	42	40	<1	<1	0.99	<4	6	148	<1	1.05	0.31	17	0.89	175	4	0.07	12	800	32	<5	<5	0.04	<10	46	539	<1	17	<10	11	<1	<1	<0.10	<10	65	6	8	1	<1	31	2	13	1	18	8	<1	15			
210157	302089	<1	0.61	2	41	43	<1	2	0.45	<4	3	186	<1	0.73	0.19	10	0.29	145	10	0.10	<1	1098	28	<5	<5	0.03	<10	13	<100	<1	8	<10	12	<1	<1	<0.10	<10	42	4	7	2	<1	21	<1	7	<1	17	6	1	19			
210158	302090	<1	0.33	<2	37	33	<1	<1	0.16	<4	1	312	<1	0.47	0.21	2	0.06	<100	3	0.06	<1	559	17	<5	<5	0.03	<10	13	<100	<1	3	<10	2	<1	<1	<0.10	<10	<1	3	7	2	<1	2	<1	5	<1	17	4	<1	3			
210159	302091	<1	0.43	<2	39	44	<1	4	0.24	<4	1	144	<1	0.48	0.18	6	0.16	113	9	0.06	<1	756	20	<5	<5	0.03	<10	13	<100	2	8	<10	4	<1	<1	<0.10	<10	<1	4	7	2	<1	3	<1	6	<1	16	6	<1	4			
210160	302091	<1	0.42	<2	39	42	<1	3	0.24	<4	1	137	<1	0.46	0.17	6	0.16	110	9	0.05	<1	738	18	<5	<5	0.03	<10	13	<100	<1	8	<10	4	<1	<1	<0.10	<10	<1	2	7	2	<1	2	<1	4	<1	17	6	<1	3			
210161	302092	<1	0.70	<2	44	66	<1	<1	0.59	<4	2	331	<1	0.77	0.28	9	0.20	192	31	0.08	3	2280	59	<5	<5	0.05	<10	19	<100	<1	9	<10	28	<1	<1	<0.10	96	14	5	7	2	<1	6	<1	18	<1	17	5	<1	2			
210162	302093	<1	0.87	2	48	83	<1	5	0.25	<4	5	155	<1	0.83	0.28	17	0.33	120	66	0.05	<1	619	182	<5	<5	0.04	<10	16	<100	<1	19	<10	16	4	<1	<0.10	352	34	7	6	4	<1	14	1	19	<1	17	6	4	10			
210163	302094	2	1.65	4	56	128	<1	5	0.51	<4	12	367	29	1.95	0.81	28	0.74	269	89	0.08	21	903	356	<5	<5	0.04	<10	20	734	<1	47	<10	25	11	<1	<0.10	1295	45	15	6	6	<1	12	3	71	4	19	6	13	12			
210164	302095	<1	3.73	3	39	260	<1	9	0.41	<4	29	223	98	4.80	1.36	76	2.36	371	7	0.05	72	673	96	<5	<5	0.03	<10	9	1724	2	123	<10	10	17	<1	0.12	13	42	20	9	1	<1	24	10	61	12	20	12	<1	10			
210165	302096	1	3.73	4	49	198	<1	13	0.45	<4	30	384	38	4.92	1.70	68	2.24	513	8	0.08	74	667	101	<5	<5	0.03	<10	11	2182	<1	134	<10	11	25	<1	0.15	21	50	22	11	1	<1	29	11	154	14	20	12	<1	15			
210166	302097	<1	1.64	<2	47	74	<1	<1	0.45	<4	13	267	4	2.09	0.75	33	0.98	253	8	0.06	30	420	68	<5	<5	0.03	<10	11	851	<1	58	<10	7	7	<1	<0.10	12	40	12	9	1	<1	22	5	60	5	18	10	<1	24			
210167	302098	<1	0.84	<2	41	80	<1	<1	0.39	<4	4	350	<1	1.08	0.28	19	0.36	152	9	0.04	7	284	42	<5	<5	0.03	<10	10	117	<1	19	<10	5	<1	<1	<0.10	23	14	6	8	2	<1	9	1	9	<1	16	6	<1	20			
210168	302099	1	2.84	2	38	165	<1	4	0.35	<4	28	226	42	4.06	1.63	49	1.72	427	7	0.07	66	625	79	<5	<5	0.03	<10	9	2553	<1	122	<10	9	44	<1	0.13	<10	38	19	10	<1	<1	21	10	121	12	20	12	<1	12			
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210170	302101	<1	2.71	3	40	303	<1	4	0.26	<4	26	232	65	3.95	1.55	55	1.82	390	5	0.08	88	623	124	<5	<5	0.03	<10	11	2439	<1	128	<10	7	86	<1	0.18	<10	29	16	9	<1	<1	18	10	83	11	19	11	<1	9			
210171	302101	2	3.04	2	44	334	<1	4	0.28	<4	30	254	71	4.39	1.70	61	1.99	432	6	0.09	78	657	133	<5	<5	0.04	<10	12	2700	<1	140	<10	8	95	<1	0.22	<10	33	18	10	<1	<1	20	11	89	12	20	11	<1	11			
210172	302102	<1	3.09	3	38	220	<1	4	0.18	<4	25	288	42	4.49	1.31	71	1.94	400	7	0.07	68	504	153	<5	<5	0.03	<10	9	2196	<1	122	<10	9	98	<1	<0.10	12	38	20	11	<1	<1	22	10	76	12	20	13	<1	8			
210173	302103	<1	3.27	<2	44	289	<1	10	0.23	<4	28	254	77	4.46	1.53	64	2.11	472	7	0.08	73	574	218	<5	<5	0.04	<10	11	2369	<1	124	<10	9	83	<1	0.15	10	33	19	10	<1	<1	20	10	98	13	20	11	<1	10			
210174	302104	<1	1.97	3	43	140	<1	2	0.33	<4	19	248	74	2.73	1.04	37	1.30	313	37	0.08	37	374	228	34	<5	0.05	<10	26	1519	2	83	<10	18	46	<1	0.16	412	115	14	7	3	<1	52	7	86	7	19	10	18	40			
210175	302105	<1	1.24	<2	41	1246	<1	2	0.24	<4	17	201	341	2.60	0.29	33	0.56	220	20	0.05	10	646	136	21	<5	0.04	<10	63	<100	<1	11	<10	15	1	<1	0.29	89	15	8	9	2	<1	7	<1	5	<1	18	7	<1	12			
210176	30210																																																				



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Benton Resources Corp.  
Date Created: 07-10-01 08:27:34 AM  
Job Number 200742868  
Date Received: Aug 8, 2007  
Number of Samples: 164  
Type of Sample: Core  
Date Completed: Sep 19, 2007  
Project ID Nipigon

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Accur. #	Client Tag	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl	V	W	Y	Zn	Hg	S	U	Ce	Ga	Ge	Hf	In	La	Nb	Rb	Sc	Ta	Te	Th	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
210177	302107	<1	2.77	4	44	250	<1	15	0.70	<4	22	274	122	5.75	0.81	63	1.55	385	15	0.04	35	638	126	6	<5	0.04	<10	16	543	<1	76	<10	11	4	<1	0.15	31	87	20	12	2	<1	46	5	46	7	20	13	<1	28
210178	302108	<1	1.93	<2	32	78	<1	5	0.48	<4	35	270	32	3.26	0.36	57	0.99	345	9	0.02	23	480	103	<5	<5	0.04	<10	11	<100	<1	30	<10	15	<1	<1	<0.10	22	142	12	8	2	<1	76	2	6	2	18	8	4	35
210179	302109	<1	1.83	2	44	82	<1	1	0.64	<4	29	139	77	2.04	0.45	52	0.80	219	25	0.02	12	820	104	<5	<5	0.05	<10	13	<100	<1	22	<10	20	<1	<1	<0.10	81	94	10	8	2	<1	47	2	28	1	17	7	<1	20
210180	302110	1	1.36	<2	43	70	<1	3	0.25	<4	8	420	6	1.88	0.72	21	0.65	247	21	0.08	20	510	87	<5	<5	0.04	<10	10	933	<1	50	<10	8	6	<1	<0.10	64	18	10	8	<1	<1	11	4	57	3	18	8	<1	13
210181	302111	<1	0.87	2	50	81	<1	1	0.33	<4	4	181	12	0.87	0.36	16	0.60	163	53	0.06	2	1019	189	<5	<5	0.04	<10	13	192	<1	22	<10	25	<1	<1	<0.10	305	22	6	6	3	<1	8	2	24	<1	17	6	<1	7
210182	302111	<1	0.75	<2	43	69	<1	1	0.28	<4	3	157	9	0.74	0.31	13	0.26	139	45	0.04	<1	859	151	<5	<5	0.04	<10	11	175	<1	19	<10	21	<1	<1	<0.10	261	18	5	6	2	<1	7	1	10	<1	17	5	<1	6
210183	302112	1	1.03	<2	47	59	<1	<1	0.39	<4	5	340	14	1.22	0.45	18	0.42	193	27	0.06	9	1141	99	<5	<5	0.05	<10	12	401	<1	28	<10	19	<1	<1	<0.10	104	18	8	8	2	<1	8	2	37	<1	18	6	<1	11
210184	302113	<1	0.81	<2	38	119	<1	<1	0.28	<4	1	290	<1	0.82	0.24	9	0.26	117	5	0.07	4	632	30	<5	<5	0.03	<10	13	<100	<1	10	<10	7	<1	<1	<0.10	<10	29	4	6	2	<1	16	<1	11	<1	17	5	<1	19
210185	302114	<1	1.69	3	38	143	<1	4	0.33	<4	10	405	34	2.33	0.93	28	0.91	316	6	0.07	29	352	66	<5	<5	0.03	<10	12	1258	<1	84	<10	6	20	<1	<0.10	10	36	13	8	<1	<1	22	8	87	5	18	8	<1	22
210186	302115	<1	2.28	3	38	137	<1	7	0.45	<4	16	228	4	3.04	1.04	39	1.36	357	9	0.05	39	444	64	<5	<5	0.03	<10	12	1460	2	89	<10	8	25	<1	<0.10	21	41	16	10	<1	<1	24	8	96	8	19	9	<1	18
210187	302116	<1	1.53	4	40	1239	<1	8	0.37	<4	9	288	56	3.34	0.50	39	0.75	195	27	0.06	13	351	103	<5	<5	0.04	<10	48	414	<1	36	<10	10	<1	<1	0.12	101	38	11	9	2	<1	21	3	32	1	18	9	3	31
210188	302117	<1	1.57	3	37	728	<1	<1	1.01	<4	7	172	20	2.61	0.33	54	0.93	232	12	0.04	5	530	86	<5	<5	0.03	<10	35	<100	1	18	<10	11	<1	<1	0.51	52	44	8	9	1	<1	21	1	6	<1	18	8	<1	22
210189	302118	<1	1.67	2	45	1701	<1	5	0.58	<4	5	366	97	1.89	0.52	42	0.82	194	11	0.10	9	417	71	<5	<5	0.05	<10	59	107	2	22	<10	10	<1	<1	<0.10	51	69	8	9	3	<1	34	2	34	<1	18	7	11	60
210190	302119	<1	1.49	2	44	407	<1	1	0.51	<4	4	361	18	2.01	0.40	38	0.80	234	8	0.05	5	404	65	<5	<5	0.05	<10	21	<100	<1	12	<10	7	<1	<1	<0.10	37	34	8	9	2	<1	18	1	21	<1	17	8	5	38
210191	302120	<1	1.52	<2	55	103	<1	3	1.03	<4	5	454	227	1.85	0.50	34	0.56	316	50	0.07	9	3464	135	<5	<5	0.13	<10	25	<100	<1	19	<10	49	<1	<1	<0.10	85	47	8	8	1	<1	15	<1	21	<1	17	6	<1	6
210192	302121	1	1.53	<2	56	93	<1	8	0.57	<4	9	515	325	1.97	0.49	35	0.53	216	41	0.07	10	1218	124	<5	<5	0.07	<10	18	<100	<1	13	<10	22	<1	<1	<0.10	126	68	9	7	3	<1	31	<1	22	<1	17	7	9	33
210193	302121	<1	1.32	3	46	81	<1	4	0.50	<4	7	445	281	1.72	0.43	30	0.47	188	34	0.06	7	1053	105	<5	<5	0.06	<10	16	<100	<1	11	<10	19	<1	<1	<0.10	108	56	8	7	2	<1	27	<1	6	<1	17	7	8	30
210194	302122	<1	2.50	2	50	108	<1	9	0.41	<4	14	442	115	2.84	0.93	59	1.20	344	22	0.07	26	852	131	<5	<5	0.06	<10	16	571	<1	59	<10	18	9	<1	<0.10	94	41	14	8	2	<1	22	5	69	4	18	9	2	26
210195	302123	2	1.97	4	49	79	<1	<1	0.32	<4	14	511	74	2.06	0.74	47	0.91	242	25	0.06	29	941	118	<5	<5	0.04	<10	12	336	<1	33	<10	12	44	<1	<0.10	111	29	11	8	2	<1	15	3	48	2	17	7	<1	16
210196	302124	<1	2.76	<2	36	91	<1	4	0.50	<4	22	353	52	3.37	1.18	52	1.58	418	25	0.07	53	533	95	<5	<5	0.03	<10	11	1287	<1	91	<10	10	34	<1	0.14	80	38	18	11	1	<1	20	8	91	9	19	9	<1	18
210197	302125	<1	1.94	<2	39	66	<1	<1	0.42	<4	11	355	117	2.37	0.60	43	1.05	270	26	0.06	33	528	94	<5	<5	0.04	<10	13	391	2	55	<10	14	29	<1	<0.10	51	38	13	9	1	<1	20	4	43	3	18	9	<1	15
210198	302126	2	3.07	<2	39	114	<1	5	0.39	<4	29	382	67	3.97	1.09	66	2.17	408	8	0.08	70	668	92	<5	<5	0.04	<10	12	1279	<1	110	<10	8	37	<1	0.22	26	35	19	8	2	<1	21	9	70	9	19	12	<1	16
210199	302127	2	3.80	<2	40	216	<1	3	0.24	<4	31	464	49	5.09	1.78	65	2.20	468	9	0.09	89	542	111	<5	<5	0.03	<10	11	2677	<1	148	<10	9	60	<1	0.14	<10	49	24	12	1	<1	27	13	134	15	20	13	<1	13
210200	302128	<1	1.29	<2	36	318	<1	2	1.20	<4	5	333	15	1.89	0.37	26	0.83	248	6	0.05	7	388	51	<5	<5	0.03	<10	26	<100	<1	14	<10	11	<1	<1	<0.10	<10	92	8	8	2	<1	39	1	5	<1	18	6	14	39
210201	302129	<1	1.23	5	45	57	<1	<1	1.23	<4	4	512	73	1.81	0.32	22	0.74	318	4	0.08	9	430	57	<5	<5	0.04	<10																							



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Benton Resources Corp  
Date Created: 07-10-01 08:27 34 AM  
Job Number: 200742868  
Date Received: Aug 8, 2007  
Number of Samples: 164  
Type of Sample: Core  
Date Completed: Sep 19, 2007  
Project ID: Nipigon

\* The results included on this report relate only to the items tested  
\* This Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.  
\*The methods used for these analysis are not accredited under ISO/IEC 17025

Table with columns: Accur #, Client Tag, Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, W, Y, Zn, Hg, S, U, Ce, Ga, Ge, Hf, In, La, Nb, Rb, Sc, Ta, Te, Th, Zr. Rows contain analytical data for various elements.

Certified By: Derek Demianiuk, H.B.Sc.



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Accur #	Client Tag	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Si	Sn	Sr	Ti	Ti	V	W	Y	Zn	Hg	S	U	Ce	Ga	Ge	Hf	In	La	Nb	Rb	Sc	Ta	Te	Th	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
210235	302160	<1	0.94	3	35	170	<1	8	0.10	<4	4	321	<1	1.51	0.23	15	0.61	<100	8	0.07	4	355	43	<5	<5	0.04	<10	15	<100	<1	9	<10	10	<1	<1	<0.10	<10	89	8	9	3	<1	41	<1	14	<1	17	7	21	47
210236	302161	<1	0.75	2	34	52	<1	5	0.27	<4	4	402	<1	1.29	0.20	13	0.41	146	8	0.06	5	454	33	<5	<5	0.03	<10	11	<100	<1	6	<10	8	<1	<1	<0.10	<10	68	6	7	3	<1	34	<1	13	<1	17	8	9	29
210237	302161	<1	0.69	<2	29	48	<1	<1	0.25	<4	3	370	<1	1.20	0.19	12	0.38	134	5	0.06	4	416	32	<5	<5	0.02	<10	10	<100	<1	5	<10	8	<1	<1	<0.10	<10	62	5	7	2	<1	31	<1	8	<1	17	6	7	28
210238	302162	<1	2.32	3	42	70	<1	20	2.45	<4	33	255	364	8.18	0.41	60	1.40	456	16	0.04	13	979	259	<5	27	0.05	<10	31	160	4	52	<10	18	<1	<1	4.63	271	122	21	14	6	<1	49	2	14	2	20	19	21	90
210239	302163	<1	1.76	2	33	39	<1	7	1.25	<4	11	278	2	3.20	0.26	41	1.15	267	7	0.03	5	723	83	9	<5	0.04	<10	19	<100	2	13	<10	11	<1	<1	<0.10	<10	149	13	11	3	<1	70	1	10	1	18	11	21	48
210240	302164	<1	2.54	4	41	69	<1	14	1.26	<4	19	182	346	6.31	0.58	68	1.84	337	17	0.04	11	737	270	<5	44	0.05	<10	25	240	3	82	<10	24	23	<1	2.98	631	125	20	11	7	<1	47	6	25	1	20	14	27	100

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## **Appendix IV**

### **Geophysical Instruments & Survey Methods**



# Survey Theory - Total Field Magnetism

## Magnetic Survey

### Theory:

The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally occurring magnetic field caused by changes in the magnetization of the rocks in the earth. These changes in magnetization are due mainly to the presence of the magnetic minerals, of which the most common is magnetite, and to a lesser extent illuminite, pyrrhotite, and some less common minerals. Magnetic anomalies in the earth's field are caused by changes in two types of magnetization: (1) Induced, caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals. (2) Remanent magnetism is independent of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc.) in the rocks. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field. The **unit** of measurement (variations in intensity) is commonly known as the Gamma which is equivalent to the nanotesla (nT).

### Method:

The magnetometer, a GEM Systems **GSM-19** with an Overhauser sensor measures the **Total Magnetic Field** (TFM) perpendicular to the earth's field (horizontal position in the polar region). The unit has no moving parts, produces an absolute and relatively high resolution measurement of the field and displays the measurement on a digital lighted display and is recorded (to memory). Initially, the tuning of the instrument should agree with the nominal value of the magnetic field for each particular area. The Overhauser procession magnetometer collected the data with a **0.2 nanoTesla accuracy**. The operator read each and every line at a 12.5 m intervals with the sensor attached to the top of four (56cm), aluminum tubing sections. The readings were corrected for changes in the earth's magnetic field (diurnal drift) with a similar GSM-19 magnetometer, acting as a stationary base station which automatically read and stored the readings at every 15 seconds. The data from both units was then downloaded to PC and base corrected values were computed.

# GSM-19

OVERHAUSER Magnetometer/  
VLF System

## GSM-19

OVERHAUSER Magnetometer/VLF  
System

### Features

- Sensitivity = 0.02 nT
- Absolute Accuracy = 0.2 nT
- Sample Rates up to 5 Hz
- Low Power Consumption

### General

"Overhauser" Once you experience it, you'll never go back to proton. Overhauser technology brings you sensitivities one to two orders of magnitude better than proton, yet in a light weight package. This is because it consumes an order of magnitude less power than proton, allowing a lighter weight for batteries.

What is the Overhauser technique? The Overhauser sensor contains the electrons' fluid that has been added to a hydrogen rich in the form of "free radical". The resulting mixture yields a sensor with 5000 times gain in proton polarization. Since the Overhauser polarization effect does not require static magnetic fields, but uses radio frequency fields transparent to protons, measurement can be done concurrently with polarization. The result is a sensor with much greater sensitivity, that can be sampled much more rapidly than the standard proton sensor.

Overhauser systems therefore maximize resolution while minimizing power consumption. Even with Walking Gradiometer

systems, sampling at rates of once per second or better are possible; Even in cold temperatures of minus 40 zero degrees Celsius and greater, the internal rechargeable battery can still be relied on for a 10 hour day, or longer.

The GSM-19 Overhauser magnetometer is thus truly a *State-of-the-Art* Magnetometer/VLF system. The GSM-19 offers the data quality, reliability, and extensive list of capabilities, and options, that allow it to meet a very wide spectrum of applications.

### Standard Features

The GSM-19 console features a real time graphic display of the current profile. In addition digital display of the current reading, current position, and warning messages are provided. The console design, with internal rechargeable battery pack, allows the unit to be completely sealed against the elements. With the built in heater for the display the GSM-19 is ready to go wherever your surveys may take you.

Tuning is automatic worldwide, with provision for manual override. In high gradient conditions the GSM-19 monitors the signal decay rate and displays a warning message when the gradient becomes too great. Filters for rejection of 50 or 60 Hz noise are provided.

Diurnal corrections may be done in traditional fashion with one unit as a base station and a second unit used as the mobile field unit. At the end of the survey the two units are connected and the field unit creates a corrected data file (which still includes the

raw data file) based on the temporal drift recorded by the base station.

As a standard feature the GSM-19 also offers the capability of making tie point measurements for automatic diurnal corrections. To use this feature the operator records a base value and then loops back to this point periodically during the survey to record another measurement, and thus build a file of the drift. In this way a single instrument may be used to make diurnal corrections.

The RS-232 port on the GSM-19 will output data as it is collected. This allows interface to GPS loggers that will accept RS232 data. The standard GSM-19 may be operated in a remote mode via computer. Memory storage is 512 K in the standard unit, and may be upgraded to 2 MB.

Grid coordinates are stored with either numeric or compass designations. A seven digit number may be used to designate lines and positions. Line and position spacing is entered so that with every reading the position may be automatically updated. An End of Line feature allows the next line to be quickly selected, plus changes the sign on the position spacing. If the previous line had been adding positions as the operator moved, then on the next line, positions will be subtracted as the operator moves. The operator may also easily manually enter his grid position for cases where gaps in the line are necessary.

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**Equatorial Sensor**

In equatorial regions, generally 30 degrees north or south of the equator, magnetic fields reach a nearly horizontal angle with the earth's surface. This requires a conventional proton sensor to be used in an inverted position, and requires the operator to collect data only on east/west lines to maximize the magnetic signal. This is a problem that is a magnitude worse for cesium magnetometers.

The Overhauser technique allows design of an optional sensor completely free of this problem, a sensor that requires no orientation no matter what the latitude of your exploration. This can be a major advantage when working in diverse areas around the world, and when needing to train local operators whose first language may not be your own.

**"Walking Mag Option"**

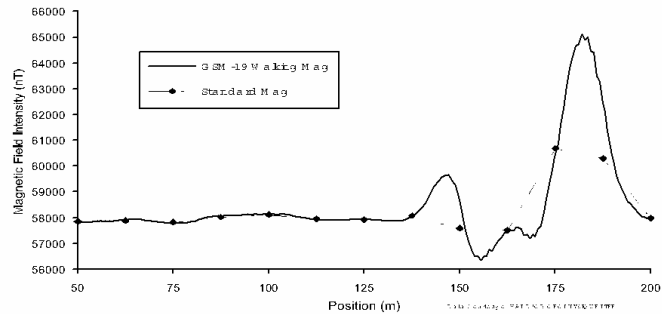
The GSM-19 magnetometer was the first to offer the "Walking Mag" concept. The reason for this is the outstanding advantage the Overhauser sensor has in this application. With the "Walking Mag" option the operator may select a sample rate of up to two samples per second. At this rate Overhauser technology can still deliver a noise level that is quite acceptable, about 0.1 nT, and the lower power consumption means that a full day of surveying can still be done with just the internal rechargeable battery.

As shown in Figure 1 the near continuous data from the "Walking Mag" technique provides increased definition for any type of survey. For surveys with densely spaced grids, such as archaeological or environmental surveys, field productivity is markedly improved, typically by a factor of five.

When in the Walking Mag mode the operator still presets his line and station spacing. When a known station is passed a grid update key is pressed and the current reading is tagged with this station. Readings taken between these marked positions are then linearly interpolated for their grid position when data is transferred to a computer.

A further refinement of the Walking Mag concept is the Hip Chain Option. This option uses a hip chain to trigger the magnetometer to take a reading at discrete intervals. A Hip Chain consists of an optical encoder that records revolutions of a wheel wound with

Near-Continuous Surveys Improve Definition of Magnetic Anomalies



disposable cotton string. The string is tied off at the beginning of a line, and as the operator walks the string is pulled out, and the magnetometer is automatically triggered. With the Hip Chain option sample rates up to five samples per second are supported.

**Omnidirectional VLF**

The GSM-19 VLF features a three coil design, with new larger coils in 1997, to achieve a non orientation capability with excellent sensitivity. Up to three VLF stations may be recorded, along with the magnetic reading, with the pressing of a single key.

As each VLF station is read the total field strength is displayed. This value may be used to determine if a station's signal is strong enough to obtain useful data. At the end of each reading the in phase, out of phase, and horizontal components are displayed and recorded for each station.

To determine what stations are available the Scan feature may be used. The entire VLF spectrum is scanned and stations with their corresponding signal strength are displayed. Automatic tilt compensation is provided up to ten degrees. Beyond this a warning message appears with display of the amount of tilt in each direction, enabling the operator to correct his position and take the reading again.

For Walking Mag applications a Walking VLF option is also available. With this option a single VLF station may be measured at sampling rates up to once per second. In this mode both magnetic and VLF readings may

be collected at the one hertz rate.

**Simultaneous Gradiometer**

Many mining, environmental, and archaeological applications may benefit from using the gradient measurement. For near surface anomalies, generally twenty meters depth or less, the gradient anomaly will be larger, and narrower, than the total field anomaly. This permits the more accurate location of the target, and gives better sensitivity. The gradient measurement has the added value of being free from diurnal drift.

The most accurate gradient measurements are made when both sensors are polarized and measured at precisely the same time. In this way any slight movement of the sensor staff pole will not affect the reading. With the GSM-19 Gradiometer Option the pressing of a single key will initiate measurement of both the total field and gradient. Both readings are displayed and stored.

**Integrated DGPS**

With the GPS Log Option the GSM-19 will display and store GPS data using standard NMEA format. Position accuracy is dependant on the user's DGPS system.

Also offered is an internally mounted GPS board that may be integrated with radio modem for DGPS mode. A range of GPS boards may be offered to meet customer specified accuracy. These are quoted on a case by case basis to take advantage of current technology. Complete systems, with base station, and DGPS software are provided.

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**Extended Remote Control**

As an option the GSM-19 may be completely controlled through the RS232 interface. This option includes all controls available from the keypad, such as power on/off, tuning, etc. This option is most useful for observatory applications.

**Marine Magnetometers**

The Overhauser effect is a major benefit in marine applications. The GSM-19 has been developed into two marine models; the GSM-19M for shallow tow applications with cable lengths of up to 100 meters; and the standard GSM-19 for tow applications with cable lengths of 30 meters. Please see pages ?? for the GSM-19M.

A standard GSM-19 may be used with a marine sensor with up to a 30 meter cable. In this way the same console may be used for both land and marine applications. Users considering this option may want to focus on also including the Walking Mag option so that they will have sample rates that are more appropriate for marine applications.

**Specifications**

**Overhauser Performance**

Resolution: 0.01 nT  
 Relative Sensitivity: 0.02 nT  
 Absolute Accuracy: 0.2nT  
 Range: 20,000 to 120,000 nT  
 Gradient Tolerance: Over 10,000nT/m  
 Operating Temperature: -40°C to +60°C

**Operation Modes**

Manual: Coordinates, time, date and reading stored automatically at min. 3 second interval.  
 Base Station: Time, date and reading stored at 3 to 60 second intervals.

Walking Mag: Time, date and reading stored at coordinates of fiducial.

Remote Control: Optional remote control using RS-232 interface.

Input/Output: RS-232 or analog (optional) output using 6-pin weatherproof connector.

**Operating Parameters**

Power Consumption: Only 2Ws per reading. Operates continuously for 45 hours on standby.  
 Power Source: 12V 2.6Ah sealed lead acid battery standard, other batteries available

Operating Temperature: -50°C to +60°C

**Storage Capacity**

Manual Operation: 29,000 readings standard, with up to 116,000 optional. With 3 VLF stations: 12,000 standard and up to 48,000 optional.

Base Station: 105,000 readings standard, with up to 419,000 optional (88 hours or 14 days uninterrupted operation with 3 sec. intervals)

Gradiometer: 25,000 readings standard, with up to 100,000 optional. With 3 VLF stations: 12,000, with up to 45,000 optional.

**Omnidirectional VLF**

Performance Parameters: Resolution 0.5% and range to +200% of total field. Frequency 15 to 30 kHz.

Measured Parameters: Vertical in-phase & out-of-phase, 2 horizontal components, total field coordinates, date, and time.

Features: Up to 3 stations measured automatically, in-field data review, displays station field strength continuously, and tilt correction for up to +10° tilts.

Dimensions and Weights: 93 x 143 x 150mm and weighs only 1.0kg.

**Dimensions and Weights**

*Dimensions:*

Console: 223 x 69 x 240mm

Sensor: 170 x 71mm diameter cylinder

*Weight:*

Console: 2.1kg

Sensor and Staff Assembly: 2.0kg

**Standard Components**

GSM-19 console, harness, battery charger, shipping case, sensor with cable, staff, instruction manual, data transfer cable and software.

**Ordering Information**

Description	Order Number
GSM-19 Overhauser Mag.....	350-170-0051
Gradiometer Option .....	350-170-0042
VLF Option .....	350-170-0069
GPS Log Option .....	350-170-0170
Memory Upgrade per 512 .....	350-170-0065
Analog Output .....	350-170-0040
Remote Option .....	350-170-0043
Walking Mag Option .....	350-170-0072
GSM-19 Shallow Marine Fish .....	350-170-0105
Equatorial Sensor Option .....	350-170-0114

<b>Terraplug Inc.</b>	Tel: 905-764-5505	Email: terraplug@compuserve.com
52 West Beaver Cr. Rd. #17, Richmond Hill, ON, Canada L4B 1L9	Fax: 905-764-8093	Website: www.terraplug.com

Corrections to Benton Resources Corp's  
Assessment Report on the  
South Sibley Property

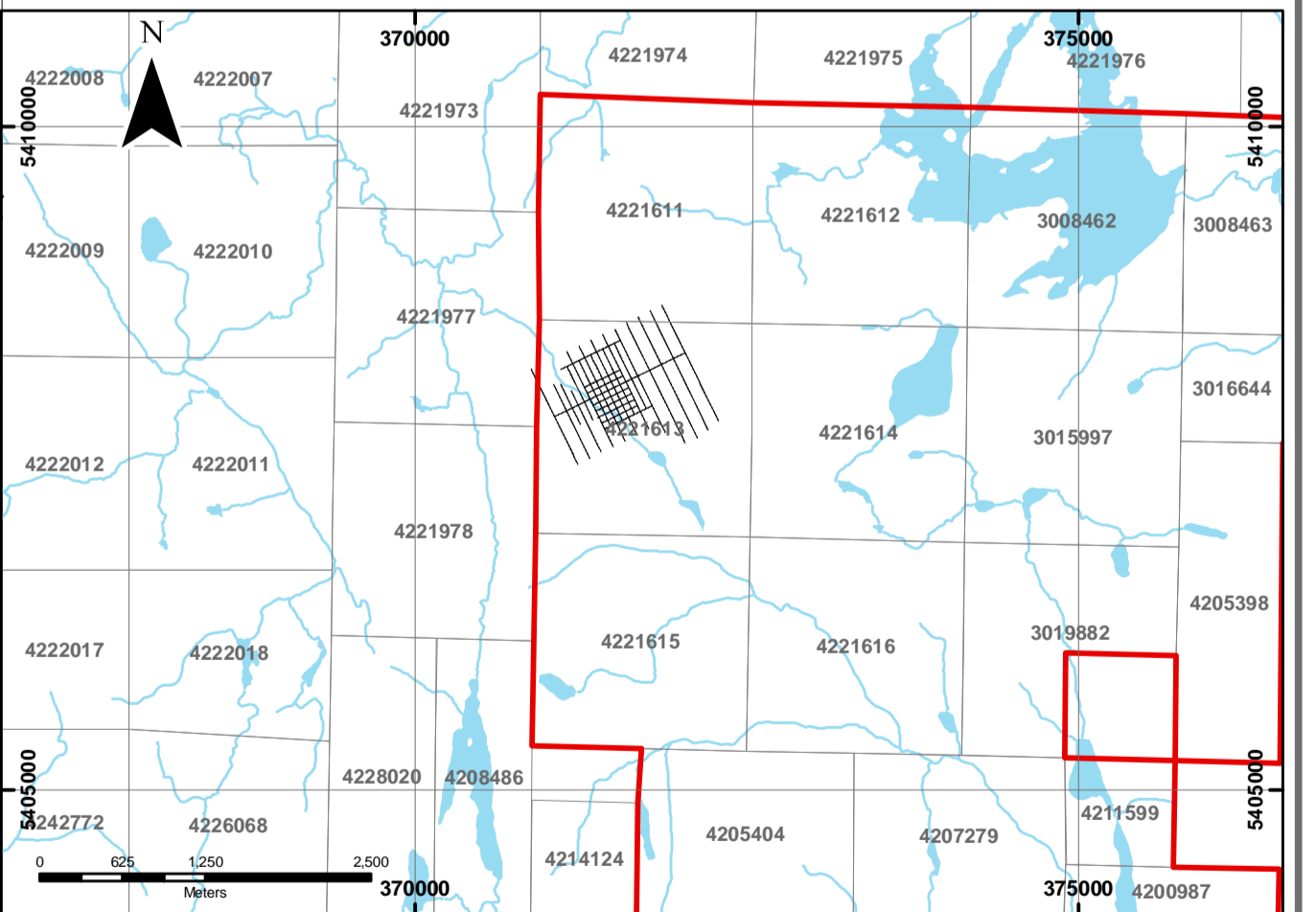
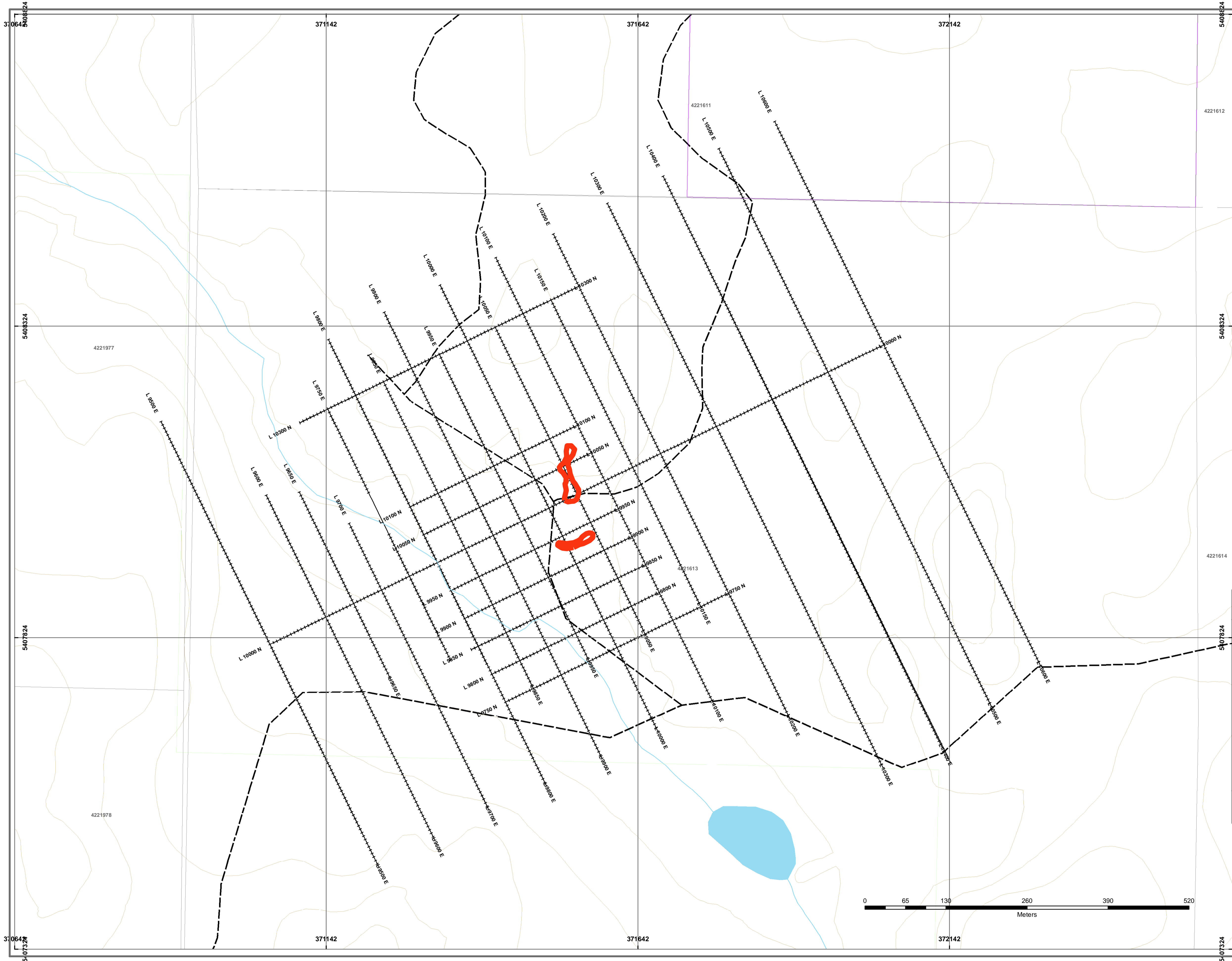
Submission Number: 2.38666  
Transaction: W0840.01491

### Geophysical Requirements

- The total distance of traversed lines for the Ground Magnetic survey was 16.7km
- A north-south structure was identified by the ground mag survey and is of particular interest to Benton Resources Corp. This structure coincides with samples containing higher uranium values and Scintillometer readings. Possible drill targets would be planned to test this structure at various depths.
- As required, a map is attached which shows all the station points and values taken ("Lines with station values.pdf").

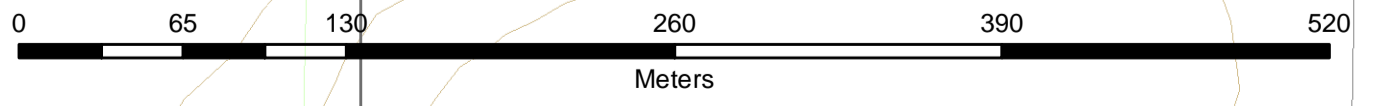
### Physical Work Requirements

- A map showing the trench locations with respect to surrounding claims, topo, parks etc is included as "TrenchKeyMap.pdf"
- The trenching program took place in July of 2007. Pierre Gagne Contracting Ltd used a Caterpillar 229 Excavator for 51 hours to complete both the north and south trench. The trenching was designed to uncover outcrop where scintelometer surveys had shown higher than background uranium counts. The ground magnetic survey performed after the trenching then showed that the trenches were located along the north-south structure identified. The trench geology was included in the initial assessment submission.
- To properly display trench location with respect to Benton Resources Corp's property, a map has been attached: "Trenches with Grid.pdf"
- Two detailed claim maps are also attached: "Claims\_North.pdf" and "Claims\_South.pdf". The scale was set to 1:10 000 due to the large property extent and standard page size (no larger than 42 inches). These maps include the property topo, lakes, rivers, etc. as well as grid lines, trenches and claim numbers.



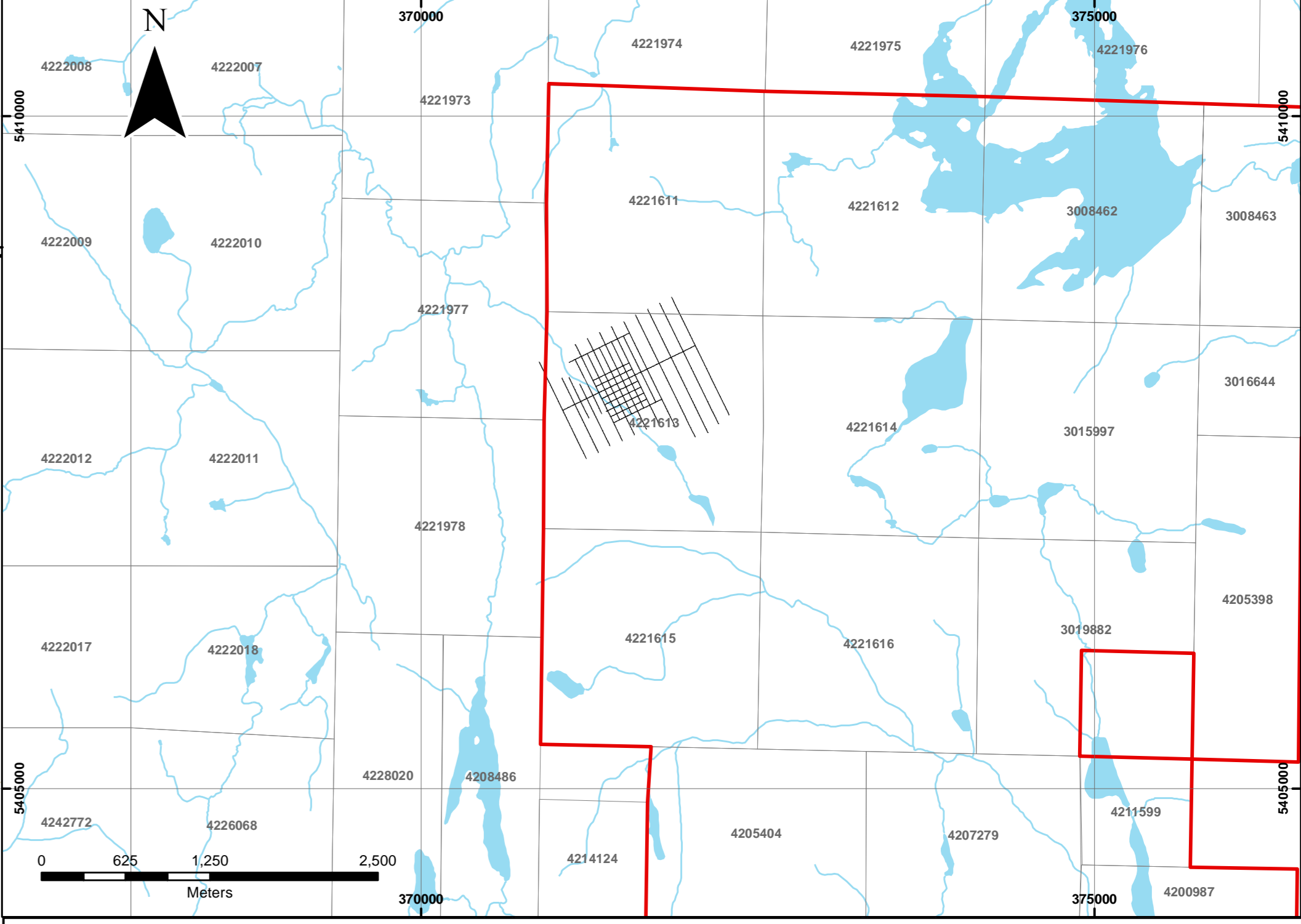
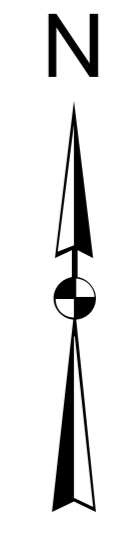
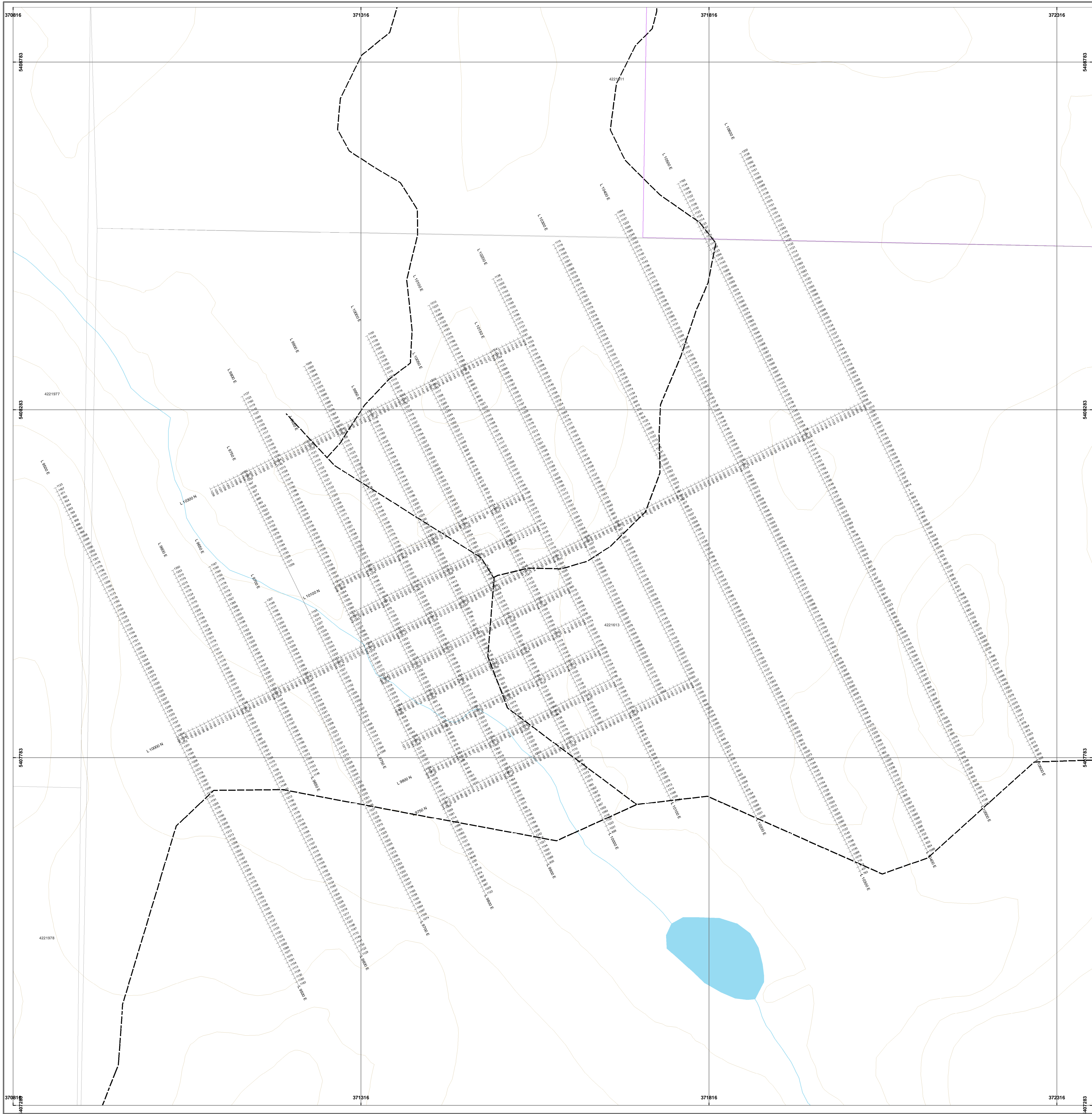
South Sibley Property  
 Goodmorning Lake Grid  
 Thunder Bay Mining District, Ontario

Local Grid Lines  
 1:3,000



**BENTON** RESOURCES CORP. BTC-TSX-V

Cut by: G. Peacock  
 Mapping by: N. Sims  
 NTS: 52A/15  
 UTM NAD83 Zone 16



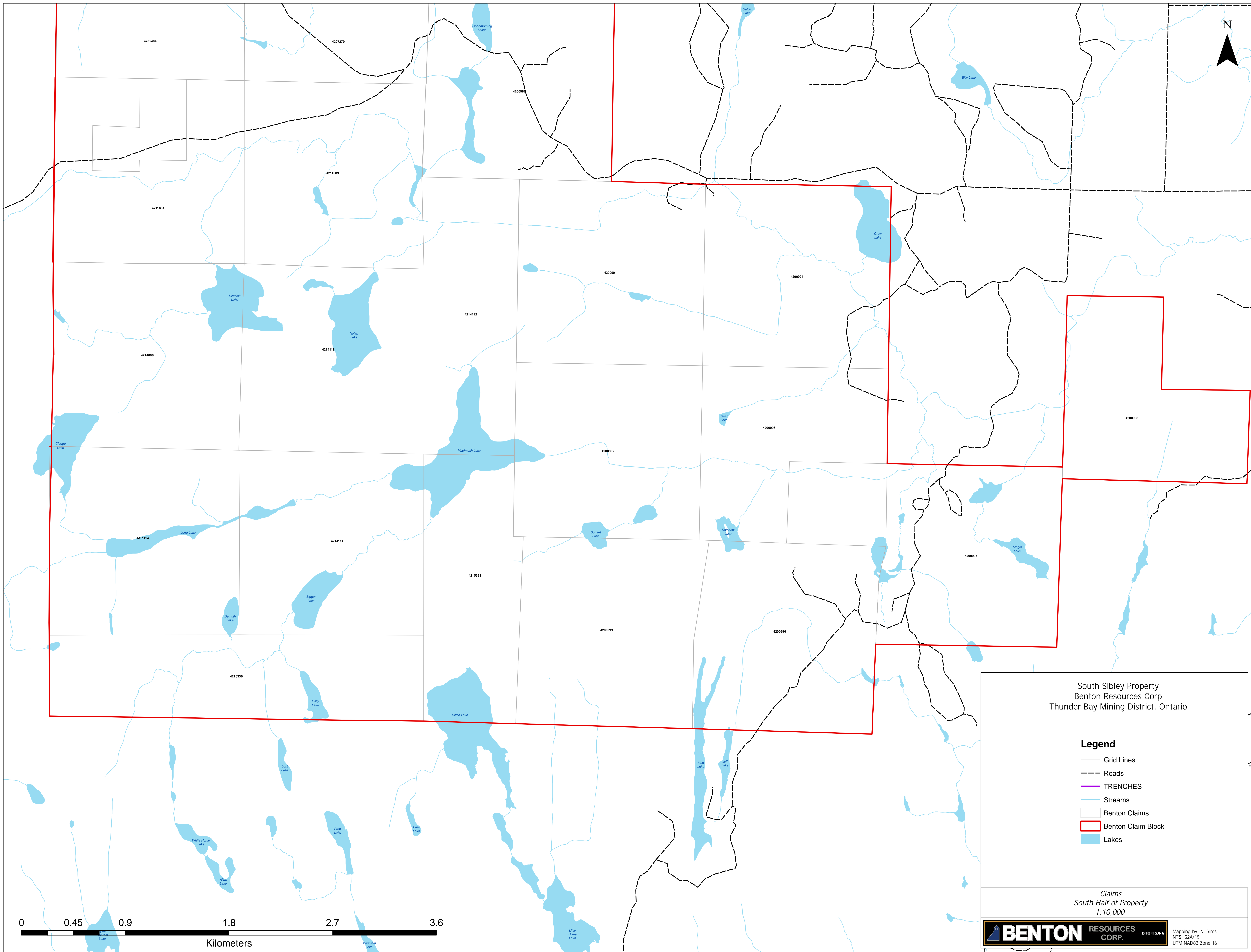
**BENTON**  
RESOURCES CORP.

South Sibley Property  
Goodmorning Lake Grid  
Thunder Bay Mining District, Ontario

Ground Geophysical Survey  
Station Readings (nT)

1:2,000

Surveyed by: MTEC Geophysics  
Mapping by: N. Sims  
NTS: 52A/15  
UTM NAD83 Zone 16



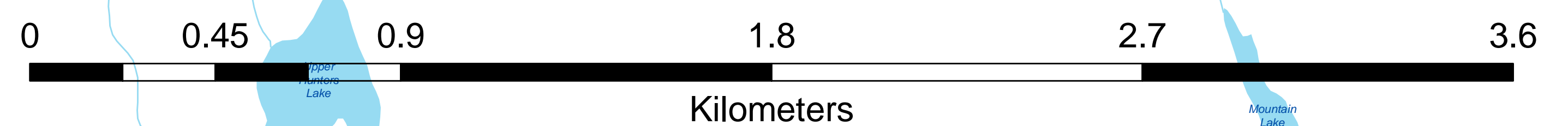
South Sibley Property  
 Benton Resources Corp  
 Thunder Bay Mining District, Ontario

- Legend**
- Grid Lines
  - - - Roads
  - TRENCHES
  - Streams
  - Benton Claims
  - Benton Claim Block
  - Lakes

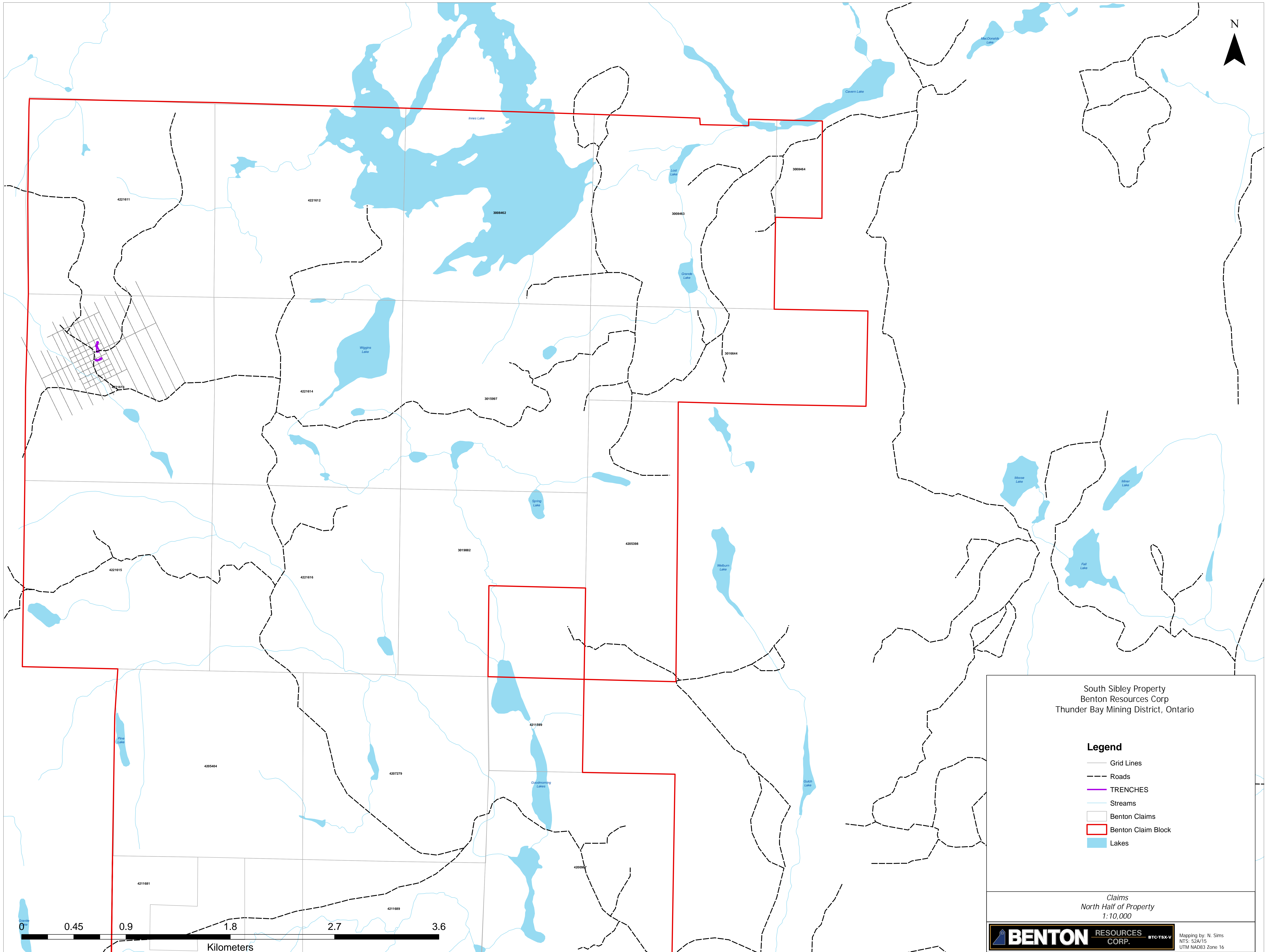
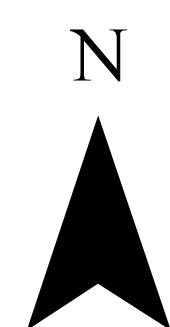
Claims  
 South Half of Property  
 1:10,000

**BENTON** RESOURCES CORP. BTC-TSX-V

Mapping by: N. Sims  
 NTS: 52A/15  
 UTM NAD83 Zone 16





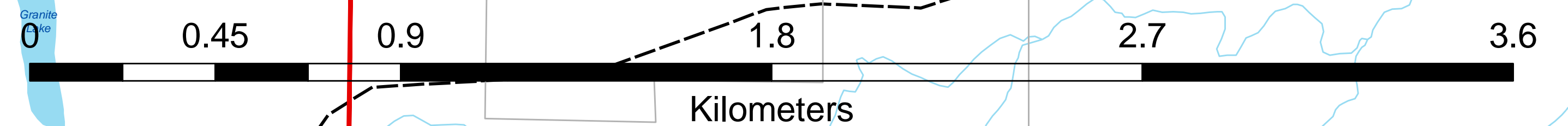


South Sibley Property  
Benton Resources Corp  
Thunder Bay Mining District, Ontario

**Legend**

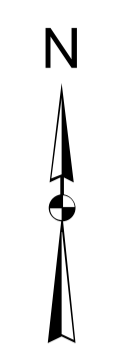
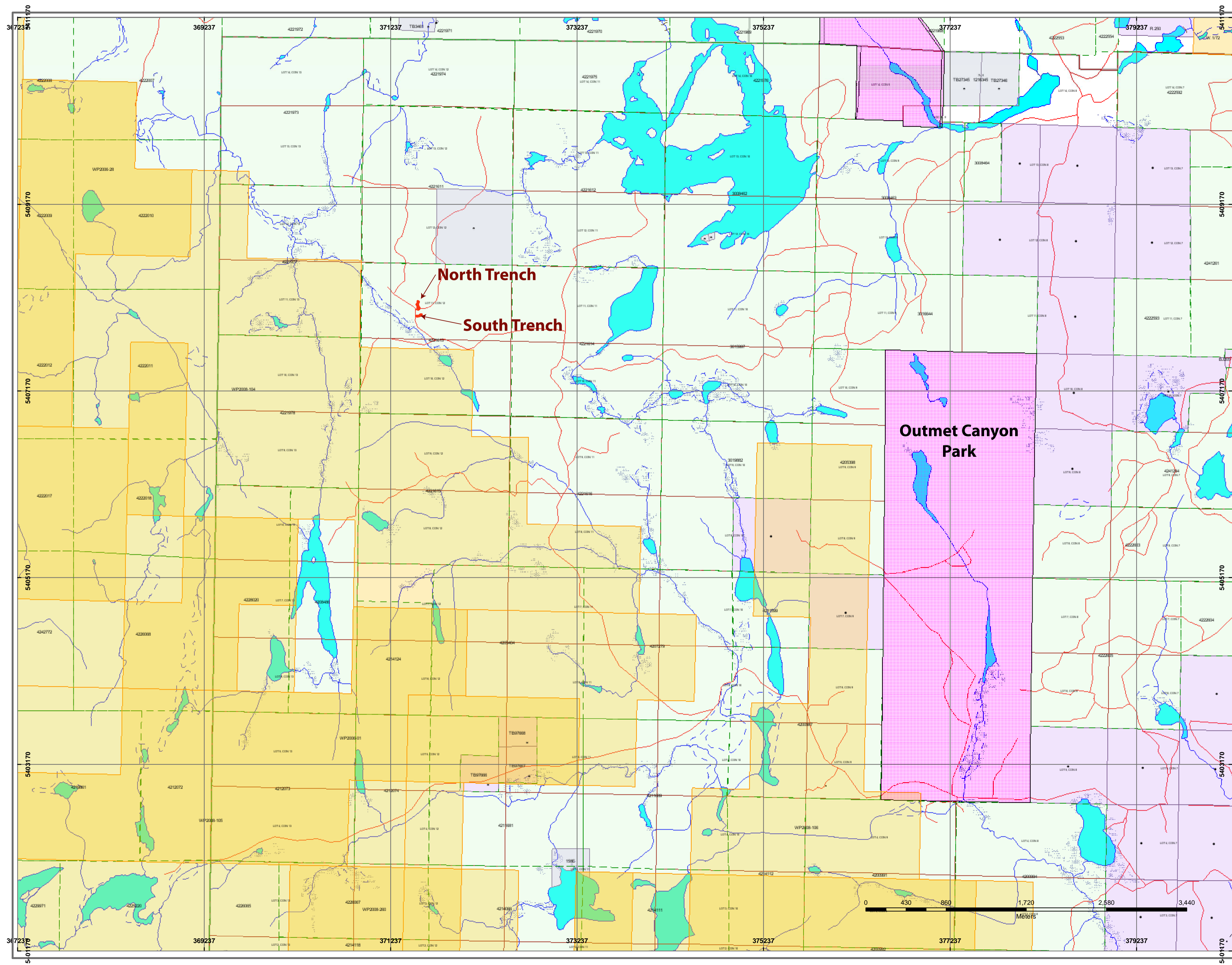
- Grid Lines
- - - Roads
- TRENCHES
- Streams
- Benton Claims
- Benton Claim Block
- Lakes

Claims  
North Half of Property  
1:10,000



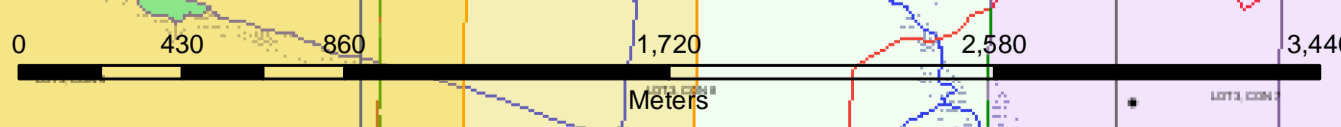
**BENTON** RESOURCES CORP. BTC-TSX-V

Mapping by: N. Sims  
NTS: 52A/15  
UTM NAD83 Zone 16



South Sibley Property  
 Goodmorning Lake Grid  
 Thunder Bay Mining District, Ontario

Trench Locations  
 1:20,000



**BENTON** RESOURCES CORP. BTC-TSX-V Mapping by: N. Sims  
 NTS: 52A/15  
 UTM NAD83 Zone 16