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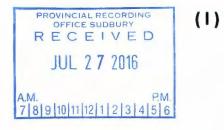


# ASSESSMENT REPORT - PHASE 2 (BREEZY LAKE PROJECT - McTAVISH TOWNSHIP AREA) DISTRICT OF THUNDER BAY - N/W REGION

CLAIMS TB445740, TB445741

**APPLICANT: GERALD BLAKELY, LICENCE - E34580** 

Dated: July 22 2016



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### Purpose and Goal:

The purpose of this project is to further test by stripping and core drilling, to determine if the stone on this site has potential for a dimension stone quarry and if these results are positive, this should warrant a final block extraction and fabricating to "prove the site" for a dimension stone quarry.

The economics, with an expected quarry yield of 20%, would be financially rewarding. We have estimated the quarry cost to be 5.00/cu. ft. = 175.00/cu. M. based on this yield return percent. Selling price ranges are 400.00 to 1,000.00/cu. M.

I have an interested Italian stone trading company, request some sample interior thin stone veneer tiles or slabs 2'X2' to 4'X4' as well as, 2'X6' for specialty table tops and no one that we know of is producing amethyst breccia type thin stone veneers. This interested Italian firm sent a representative Vince Giordano from Toronto, that they referred to as a (Geological Inspector) up in October to view the site he was very overwhelmed with what he saw.

Their stone procurement geologist in Italy (Dr.L. Braghini) stated that the reports were positive on the Granite and Amethyst and recommended that "if my company were to be able to produce within one year, a reasonable amount of Grade A - Blocks, then we would be interested in such production."

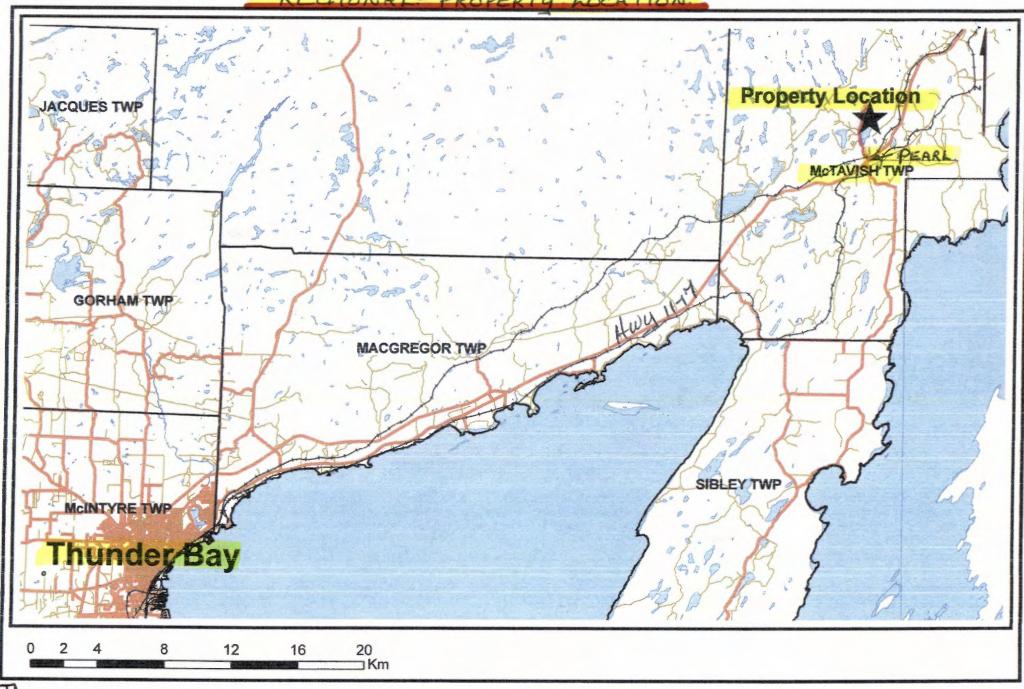
Spliethoff Shipping is offering haul back (Brake Bulk), no containers required, shipping from Thunder Bay Terminal and Duluth Port to US ports in Cleveland, New York and International Ports (Italy) at a reduced back haul rate. This is new to our region as previously blocks had to be trucked to Montreal for International Shipping. This option makes international markets more feasible from our region for the first time.

### **Project Access and Location**

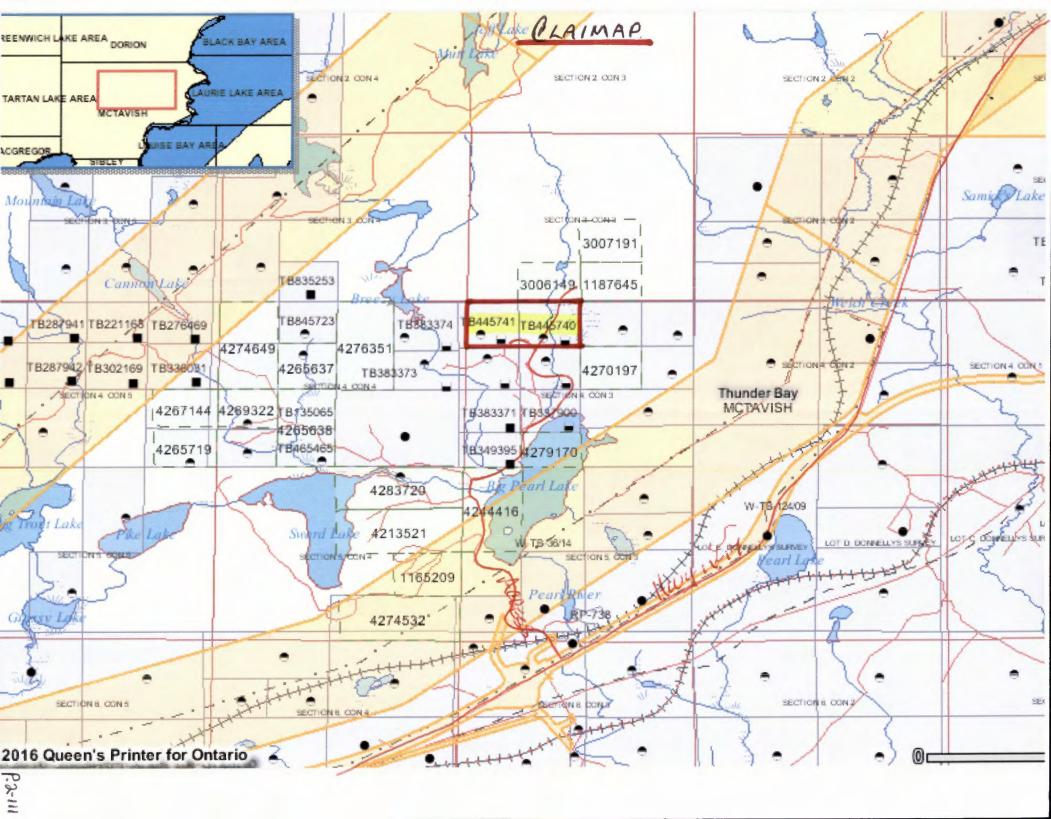
The Pearl Amethyst Project is located approx. 4 kms of driving distance north of Pearl, in McTavish Twp. Pearl (a very small community historically a railway siding with worker's residents) is located almost centrally between Thunder Bay and Nipigon, approx. 50 kms east of Thunder Bay, on Hwy 11-17. Turn North, in Pearl on Road #5 North (sign on highway) GPS location 377719e5391315n and proceed a short distance on this paved road, crossing the CPR railway tracks then you will quickly come to a gravelled amethyst mine road on your left. This GPS location is 377600e5391590n and has several amethyst mining signs at this junction (i.e. Blue Points Amethyst Mine, Bill's Old Amethyst Mine). Proceed on this main gravelled road, which runs basically north for a total of approx. 4 kms to my two gates, one on the main road and one on the left (north) GPS location 377606e539431n. Continue north through this gate on your left for a very short distance to the drill site GPS location 377503e5394452n, located centrally in claims TB 445741 and TB 445740.

See attached Map: (Drill Sites and Stripping Area) - Road Access, next page!

REGIONAL-PROPERTY LOCATION.



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**Explanatory Notes** 

### TENURE ATTRIBUTES

Tenure Type:

Lease

Sub-Tenure Type:

21 Year

Lease or Licence:

107815

Tenure Rights:

Mining Rights Only

Start Date:

2005-Oct-01

Lease Expiry Date:

2026-Sep-30

### LAND ATTRIBUTES

Status:

Active

Area in Hectares:

16.187

Township or Area:

**MCTAVISH** 

Description:

TB445740

Mining Claim TB445740

Location No:

Section or Block No:

Survey Plan:

Part on

**CLM** 

Plan:

No:

**Land Registry Office:** 

THUNDER BAY

Parcel No: 3373LTB

PIN

No:

62488-0230(LT)

Claim Numbers

Lot Concession Claim Numbers

Lot Concession

TB445740

04

03

\*\*\* End of Claim Numbers \*\*\*

### **OWNER ATTRIBUTES**

Owner:

Individual 1 - Data protected in accordance to Freedom of Information and



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**Explanatory Notes** 

### TENURE ATTRIBUTES

Tenure Type: Lease Sub-Tenure Type: 21 Year

Lease or Licence: 107816 Tenure Rights: Mining Rights Only

Start Date: 2005-Oct-01 Lease Expiry Date: 2026-Sep-30

LAND ATTRIBUTES

Status: Active Area in Hectares: 16.187

Township or Area: MCTAVISH

Description: TB445741

Location No: Section or Block No:

Location No. Section of Block No.

Survey Plan:
Plan:
CLM
No:

Land Registry Office: THUNDER BAY Parcel No: 3374LTB PIN No: 62488-0224(LT)

Claim Numbers Lot Concession
TB445741 04 03 \*\*\* End of Claim Numbers \*\*\*

### **OWNER ATTRIBUTES**

Owner: Individual 1 - Data protected in accordance to Freedom of Information and

Privacy Act

## Geology & History Pearl Amethyst Project

In1971, McIlwaine mapped McTavish Township. Garland completed a study in 1994, describing the geology and compiling data of already known amethyst occurrences in the Thunder Bay area. Garland reports the following authors for further reference;

"Regional geology and structure of the Southern Province has been described by Card et al. (1972); Sims et al. (1981); and Wallace (1981). Detailed geology and mineral occurrences for specific regions within the Proterozoic of Lake Superior have been described by: Tanton (1931); Franklin (1970, 1978); Franklin and Mitchell (1977); Franklin et al. (1980); Franklin et al. (1986); Mcilwaine (1971, 1972). A good summary of the regional geology is presented in the Geology of Ontario, volume 1, by Sutcliffe (1991)."

The Pearl Amethyst Project property is underlain by Archean quartz monzonite rocks of the Quetico subprovince (#2) and Proterozoic rocks of the Sibley group (#3). A northeast trending fault mineralized with amethyst (+/-sphalerite, +/-galena, +/-pyrite) trends though the central portion of the property as shown on the map next page (Garland, 1994).

Prospecting for amethyst in the Thunder Bay area dates back to the early 1860's. The Thunder Bay Amethyst Mine Panorama, located approximately 3 km to the northwest of the Pearl Amethyst Project (claims TB 445741 and TB 445740), was discovered in 1935. The discovery led to increased interest for amethyst in McTavish Township (Garland, 1994). Currently there are four deposits in McTavish Township that see small scale extraction of amethyst (Puumala et al, 2013).

GEOLOGY & ROAD ACCESS MAP. - MAIN ROAD PEARL #5 NORTH 375000 376000 379000 381000 3007191 TB129262 5395000 5395000 TB835253 3008149 1187845 TB129265 TB267940 TB28 941 dmy cpy, gr T8845723 . Qtz T8287939 TB287942 TB383372 4257206 B287943 2 /am 4267144 2 gn sph, amy 3001258 amy [ 2 4274530 amy, ba. rbayan sph 4272649 amy, py 2 4274532 4272648 LEGEND Lithologies py : pyrite Logan Diabese Producing (Aggregate Permit) Sibley Group 3/6000 374000 375000 Trend of Amethyst Veins 0.4 0.8 1.6 2.4 3.2 Modified from M. Garland 1994 □Km

### Daily Work Diary and Expenditures

Floating Equipment: MOB - June 28, 2016

Biloski Contracting (Working in Pearl) MOB my Cat D7G Bulldozer from Dorion to Pearl

Amethyst Project, 2hrs. plus tax = \$316.40

I MOB my water truck, water trailer, water pumps, hoses and air compressor Nipigon to Project 10 hrs @ \$85.00/hr = \$850.00

DEMOB Equipment: July 04, 2016

D. Hurd Contracting (from Nipigon) DEMOB Bulldozer Pearl back to Dorion,

3 hrs + tax = \$457.65

I DEMOB my water pumps, hoses, and air compressor back to Nipigon

5 hrs @ \$85.00/hr (Leave water truck and trailer in Pearl, closer for next Project) = \$425.00

Stripping: Using my Cat D7G Bulldozer June 29th, 30th, July 1,2,3rd = 5 days @ 12 hrs/day = 60 hrs @ !35.00/hr = \$8,100.00

Power Washing and general labour: June 29,30, July 1, 2, 3 = 5 days @ 2 men = 10 man days @ \$200.00/day = \$2,000.00

Water Truck, water Trailer, water pumps, hoses and air compressor for power washing and supply drill water, 5 days @ 10/hrs/day = 50 hrs @ \$135.00/hr = \$6,750.00

Drilling: July 2nd, 3rd.

Rental NQ core including MOB and DEMOB - 2 - 20 M Core Holes @ 45 degree = \$5,491.50

Food: 3men @ 7 days June 28th to July 04th = 21 man days @ \$40.00/day = \$840.00

Travel: 75 kms x 2 = 150 kms/day @ 7 days = 1050 kms @ \$0.50/km = \_\_\$525.00

Total Expenditures = \$25,756.00

Summary of Previous Work

Prospecting for amethyst in the Thunder Bay area dates back to the early 1860's.

There was some very minor amounts of amethyst extracted (drilled and blasted) on my claims by the previous owner for gemstones, focal pieces and decorative landscaping stone for a couple seasons by Keith Bartel, up to 2008, when I then purchased the claims off of him. My amethyst was apparently discovered in the 1930's while prospecting for silver with no commercial amethyst operations recorded on my claims before Bartel. The amethyst of commercial value wasn't found on my claim until around 2006, then the stock market crashed in the fall of 2008 and the property went on sale and I was able to purchase it.

Bartel's extraction is located off a vertical wall of amethyst in red granite and also in a vug at the same location, 50 meters east of my proposed drill site. The drill and blast was very minor, to not damage the amethyst being extracted and I think it didn't create any shatter damage very far from the blast. I was there at a few of those extractions with Billy Richardson from Pass Lake, who did the blasting there.

Historically this whole surrounding area has had extensive prospecting for silver, lead and zinc and amethyst, with only a couple of worthwhile commercial size operations in amethyst in operation today; Blue Points Amethyst second claim south of my claim and Panorama in East Loon. If I can thin stone slab the amethyst breccia I would utilize the gemstone quality amethyst and decorative landscape pieces for those markets at the same time!

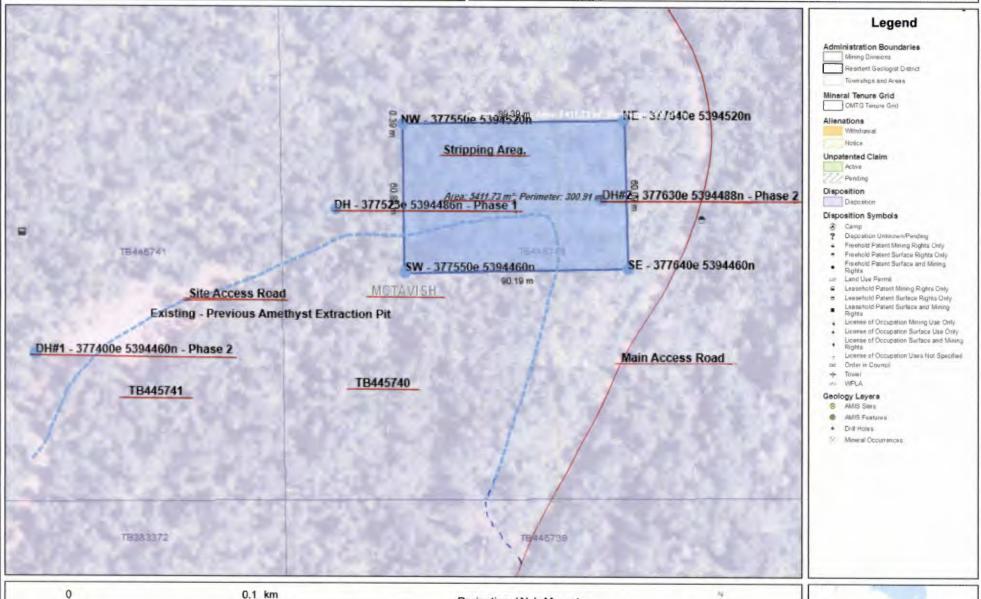
Ontario

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

# Pearl Amethyst Project -Phase 2 - Stripping-Drilling

Notes:

Enter map notes



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### 5. Physical Test Results: Phase Two Stripping and Core Drilling.

Stripping: Phase Two stripping further revealed the amethyst veining runs throughout the claim, located between each drill hole, from the west to east of the stripped boundary, varying from 1 M. to 4 M. in width. One open amethyst vug was revealed just east of our initial 7 M. core hole that we drilled last December. Some nice purple can be see on the walls. Please see attached picture in Appendix.

Verne Smith from the US. president of B-Gel International LLC (Stone Industry) agreed that there would be no problem to produce quarry blocks from the site for the niche coffee table, end table and light backed veneer slab market. The Jointing and Sheeting were only up to 2 meters each at best in only some locations, however due to the special niche market high priced market value it would off set the time consuming extra field preparation and resin vac application required.

Please see Stripping Project Pictures in Appendix.

### Core Drill:

The drill core also showed consistency of attractive mixed colours in an amethyst breccia matrix from surface through out the depth of core in the amethyst veining portion between the surrounding hose bedrock of red granite, red - brown mudstone and breccia. The stone would require special quarry procedure and resin vac with fiber backing or glass resin vac top fabricating.

The most attractive and possible potential quarryable breccia is located in westerly portion of the property where drill hole # 1 is located. We encountered a possible large vug at the very last core in drill hole #2. The last 3M. of core, went from amethyst breccia into 2 M. of mud then back into breccia. We drilled 25 M. deep with NQ. rod at 45 degrees; so we're guessing the core would be about 7 to 8 M. deep where the core went through the vug. The deepest depth of the core vertically from surface would be 9 M. and 16 M. horizontally from start of hole, in drill hole direction. We intend to further check this possible vug out with my little Winky drill some time in the future.

Overall this project was quit exciting and proves greater potential for the site, revealing a large showing previously unknown. This test information will prove very valuable when evaluating the site for quarry development.

Please see Core Drill Samples Picture in Appendix.

### Discussion:

Verne Smith President of B-Gel International LLC (USA Stone Industry) was out to the site at various times and commented that the site has good showings at this early stage of exploration. Verne is a previous business associate of Domenico Brocato (Director of Logistics and Business Development) Cermesoni Group owned by Bruno Zanet who has the Alaska White Quarry in Brazil (one of several quarries); Domenico then sent his fabricator Vincenzo Giordano to come out and visit my various potential quarry sites for a week. Vince sent a reply to Domenico that I may have potential white pegmatite and niche market amethyst breccia for their markets.

Carl Barfoot, Owner of Georgian Bay Marble and Stone Inc. Wiarton Ontario is also associated with me as a potential customer and fabricator and has helped me fabricate cut and polish test samples in the past. Carl is also very interested in marketing this and other stone should they be developed into quarries.

#### Conclusion:

The test results so far are very positive and we are fairly certain that blocks in the .5x1x2 meter or a little larger could be produced by special plaster or resin quarry process. The colour, pattern and amethyst - breccia texture would be desirable for the speciality niche stone market for coffee tables, end tables and back lighted veneer panels.

Several associates in the slab (counter top and veneer) market, as well as patio and landscaping markets have shown real interest in the potential this stone. They all want me to keep in touch and let them know of further testing results and ultimately then, could I supply them with some finished sample pieces.

This Phase Two Project, of more advanced stripping and core drilling further proved the site potential to warrant final Phase Three. Phase Three would consist of test block extraction and fabricated sample panel pieces that would fully prove the stone marketability and the site for dimensional stone quarry production.

Today there is a fabricated amethyst - clear, white, opaque quartz polished panel cut from thin pieces into various computerized fitted shapes and patterns; by an Italian fabricator that sells in very high price range of \$400.00 to \$600.00 US. I was told that with high quality fabrication my panels natural stone panels could enter this market with a much more competitive price with high profit potential.

### P.8 - Appendix:

- P.9 MAAP. Verification Prospector's Licence
- P.10 Exploration Permit
- P.11 Personnel Information Verne Smith
- P.12 Picture Stripped Overburden Western Section
- P.13 Picture Stripped Overburden Eastern Section
- P.14a Picture Drill Core (West Hole #1.) P.14b Picture close-up, West Hole # 1 drill core
- P.15a Picture Drill Core (East Hole # 2.) P.15b Picture close-up, East Hole # 2 drill core
- P.16 Picture exposed Amethyst Breccia



# **Mining Act Awareness Program**

### **Verification of Completion**

This verifies that:

Gerald Blakely

Completed the Mining Act Awareness Program on:

Feb 17, 2013

Verification number:

412C-E6E9-4986-FC34

Ministry of Northern Development and Mines





Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

### **Exploration Permit/Permis** d'exploration

Number/Numero: PR-13-10296R

This permit is issued under the authority of section 78.3 of the Mining Act and the Exploration Plans and Exploration Permits Regulation (O. Reg. 308/12). It is subject to the provisions of the Act and regulation as well as the terms and conditions included in this permit.

Ce permis est emis conformement aux dispositions de section 78.3 de la Loi sur les mines et des reglements et est sujet aux restrictions et dispositions de ce lois et reglements ainsi qu'aux conditions ci-enoncees

does it relieve the permittee from the requirements of any o	ther legislation or guarantee access to the land
Remarque: La deliverance d'un permis n'exonere pas le des etre esigee, non plus qu'elle exempte le detenteur des dispo	mandeur de l'obligation d'obtenir l'autorisation de tout outre
Project Details/ Détails sur le proj	
Project Name/ Titre du projet Breezy Lake Project	Qualified Supervisor/Superviseur qualifié Gerald Blakely
This Permit is issued to: Ce Permi	s est delivré a:
Name of Permittee/Nom du detenteur: Gerald Blakely	
Mailing Address/Addresse postale: 111 8th Street, Nipigon ON POT 2J0	
	éro(s) du claim/bail/permis d'occupation: TB445740 TB445741
Mechanized Drilling (assembled weight >150kg)  Mechanized Stripping (>100m² in 200m radius)/ Cr  Pitting and Trenching (>3m³ in 200m radius)/ Cr  Line Cutting (>1.5m width)/ Découpage des quace  Other (Early exploration activities for which Diredemandé un permis):  Subject to the following conditions:/Et sous les conditions:  1. The Permittee shall keep this permit or a tralierux des travaux.  2. The person in charge of the operation conditions area to any inspector whenever required copie conforme si un inspecteur lui demands.  The requirements outlined in Schedule 1 of générales identifier à l'annexe 1 du Règlem	Décapage mécanisé (> 100 m² dans un rayon de 200 m) eusement de fosses et de tranchées (>3 m³ dans un rayon de 200 m) drillages (<1,5 m de largeur) ector has required a permit)/Autre (Activités d'exploration préliminaires pour laquelle le Directeur a ditions suivanted: the copy thereof on the permit area./Le detenteur conserver ace permis ou une copie conforme sur les ucted under this permit shall produce and show this permit or the true copy kept on the exploration ested by the officer./Le responsible des travaux couverts par se permit doit per duits le
Place of Issue/Emis a: Thunder Bay	
Issued by/Emis par: Mark O'Brien, Director of Exploration	
Date of Issue/Date émis (yyyy/mm/dd, aaaa/mm/jj):	Signature of Director/Signature du directeur:
2016/06/24	Mark S. OB:

### Personnel Information

Russ Baker 52 Brompton Road Box 494 Red Rock, ON POT 2PO

Ph: 807-886-2564

Email: rbdar@outlook.com

Signed

### Contact information

Verne Smith 51745 warbler Dr. Bemidji, MN 56601

ph:

(218) 766-5123

email: bgeltech@gmail.com

Signed / ene











