

We are committed to providing [accessible customer service](#).

If you need accessible formats or communications supports, please [contact us](#).

Nous tenons à améliorer [l'accessibilité des services à la clientèle](#).

Si vous avez besoin de formats accessibles ou d'aide à la communication, veuillez [nous contacter](#).



**CANADIAN EXPLORATION SERVICES LTD**

**Tim Skjonsby**

**Q2726**

**Grass Roots Prospecting Program**

**C Jason Ploeger, P.Ge.**

**November 25, 2019**

# TIM SKJONSBY

## **Abstract**

CXS was contracted to perform prospecting on the Benoit Property for Tim Skjonsby. The survey was designed to locate historic work and to locate areas for further exploration. To accomplish this, random traverses were performed over the property to try and cover as much ground as possible. Any outcrop encountered had a representative rock sample taken. 9 samples were collected in total.

**TIM SKJONSBY**

**Q2726 – Benoit Prospect  
Grass Roots Prospecting Program**

**C Jason Ploeger, P.Geol.  
November 25, 2019**

**Contributions by Andrew Salerno (B.Sc.)**

**TABLE OF CONTENTS**

**1.0 Survey Details ..... 4**

1.1 Project Name ..... 4

1.2 Client..... 4

1.3 Location ..... 4

1.4 Access ..... 5

1.5 Ownership..... 5

1.6 Previous Work..... 5

1.7 General Geology ..... 8

**2.0 Survey Work Undertaken ..... 10**

2.1 Survey Log..... 10

2.2 Personnel..... 10

2.3 Traverse Specifications ..... 10

**3.0 Overview of survey results ..... 11**

3.1 Summary of Samples Collected ..... 11

3.2 Pictures and Descriptions of Samples Taken..... 13

3.2 Recommendations ..... 30

**LIST OF APPENDICES**

- APPENDIX A: STATEMENT OF QUALIFICATIONS**
- APPENDIX B: INSTRUMENT SPECIFICATIONS**
- APPENDIX C: LIST OF MAPS (IN MAP POCKET)**

**LIST OF TABLES AND FIGURES**

Figure 1: Location of the Powell Property..... 4

Figure 2: Prospecting Traverses (contour plot) ..... 12

Figure 3: Picture of Sample 900944 ..... 13

Figure 4: Field Picture of Sample 900944 with Coordinates..... 14

Figure 5: Picture of Sample 900945 ..... 15

Figure 6: Field Picture of Sample 900945 with Coordinates..... 16

Figure 7: Picture of Sample 900946 ..... 17

Figure 8: Field Picture of Sample 900946 with Coordinates..... 18

Figure 9: Picture of Sample 900947 ..... 19

Figure 10: Field Picture of Sample 900947 with Coordinates..... 20

Figure 11: Picture of Sample 900948 ..... 21

Figure 12: Field Picture of Sample 900948 with Coordinates..... 22

Figure 13: Picture of Sample 900949 ..... 23

Figure 14: Field Picture of Sample 900949 with Coordinates..... 24



---

Figure 15: Picture of Sample 901422 .....	25
Figure 16: Field Picture of Sample 901422 with Coordinates.....	26
Figure 17: Picture of Sample 901423 .....	27
Figure 18: Field Picture of Sample 901423 with Coordinates.....	28
Figure 19: Picture of Sample 901424 .....	29
Figure 20: Field Image of Sample 901424 with Coordinates.....	30
Table 1: Cell Claims and Claim Holder.....	5
Table 2: Prospecting Log .....	10
Table 3: Prospecting Crew Personnel .....	10
Table 4: Summary of Samples Collected .....	11

## 1.0 SURVEY DETAILS

### 1.1 PROJECT NAME

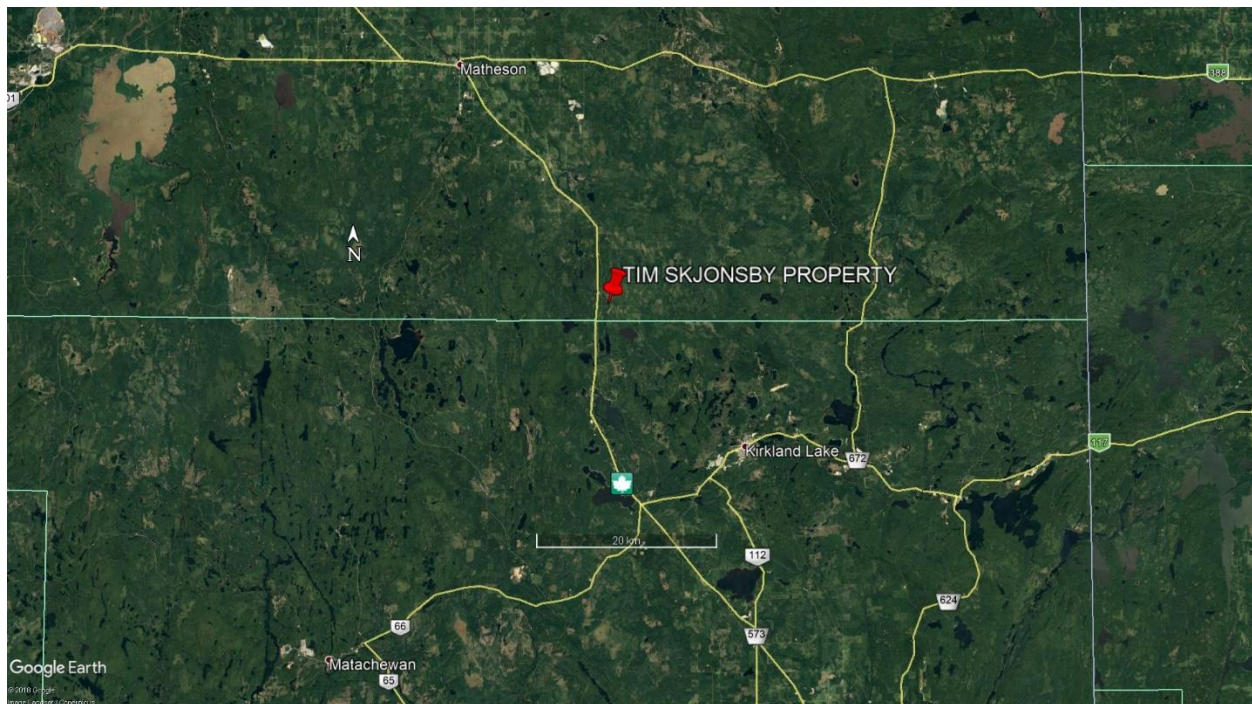
This project is known as the **Benoit Property**.

### 1.2 CLIENT

TIM SKJONSBY  
107 First St.  
Kirkland Lake, Ontario  
P2N 1N6

### 1.3 LOCATION

The Benoit Property is located approximately 22 km northwest of Kirkland Lake, Ontario.



**Figure 1: Location of the Powell Property**

#### 1.4 ACCESS

Access to the property was via a 4x4 pickup truck. Highway 11 was travelled north from the town of Kenogami for 24 kilometers. The property is located on the north side of Bourkes Road approximately 1 kilometer from its intersection with highway 11.

#### 1.5 OWNERSHIP

Claim Number	Holder	Township
255478	Tim Skjonsby	Benoit
188194	Tim Skjonsby	Benoit
275582	Tim Skjonsby	Benoit
220383	Tim Skjonsby	Benoit
117353	Tim Skjonsby	Benoit
117352	Tim Skjonsby	Benoit

**Table 1: Cell Claims and Claim Holder**

#### 1.6 PREVIOUS WORK

Significant historical exploration has been carried out over the years all over the survey area. The following list describes details of the previous geoscience work which was collected by the Mines and Minerals division and provided by OGSEarth (MNDM & OGSEarth, 2018).

- 1972: Bourkes Syndicate, Davidor Mines Ltd, J C Honsberger, Mesabi Gold Mines Ltd (File 42A08SE0120)**  
***Geological Mapping, Dewatering of Underground Workings, Geochemical Assaying and Bulk Sampling – Benoit Township***  
 The mine had been opened on four levels and a total of 1390 feet of drifting and 150 feet of crosscutting has been done. Eight diamond drill holes totaling 1504.5 feet has been bored from the working. A limited amount of surface trenching has been done.
- 1972: Saskoba Mines Inc (File 42A08SE0117)**  
***Ground Magnetic and Electromagnetic Geophysics – Benoit Township***  
 Approximately 11.5 miles of line were cut and surveyed. The readings were taken at 100-foot intervals for a total of 529 stations.
- 1974: Mathan Expl. Inc (File 42A08SE0123)**  
***Diamond Drilling and Geochemical Assaying – Benoit Township***  
 A preliminary diamond drill program was completed on the Benoit Township

---

property. 8 drill holes totaling 2566 linear feet were drilled altogether.

- **1974 to 1975: Mathan Expl. (File 42A08SE0108)**  
***Ground Magnetic and Electromagnetic Geophysics – Benoit Township***  
Approximately 3.5 miles of line were cut and surveyed. The readings were taken at 50-foot intervals along the picket lines.
- **1980: Goliath Mines Ltd (File 42A08SE9011)**  
***Ground Magnetic and VLF Electromagnetic Geophysics – Benoit Township***  
10.5 line-miles of Ground Magnetic and VLF Electromagnetic Surveys were completed. The survey lines were 300 feet apart and readings were taken at 100-foot intervals.
- **1981: Goliath Mines Ltd (File 42A08SE0103)**  
***Diamond Drilling – Benoit Township***  
Work consisted of three diamond drill holes totaling 2118 feet.
- **1987: K E Skjonsby (File 42A08SE0083)**  
***Diamond Drilling – Benoit Township***  
Work consisted of two diamond drill holes totaling 135 feet.
- **1988: K E Skjonsby (File 42A08SE0078)**  
***Diamond Drilling – Benoit Township***  
Work consisted of one diamond drill hole totaling 112 feet.
- **1988: Gold Fields Cdn. Mining Ltd (File 42A08SE0080)**  
***Geochemical Assaying – Benoit Township***  
Work consisted of taking 12 samples along a trench and taking 23 samples in a grid-like fashion. These samples were then assayed for gold.
- **1990: K E Skjonsby (File 42A08SE0069)**  
***Diamond Drilling – Benoit Township***  
Work consisted of three diamond drill holes totaling 306 feet.
- **1990: K E Skjonsby (File 42A08SE0074)**  
***Diamond Drilling – Benoit Township***  
Work consisted of two diamond drill holes totaling 209 feet.
- **1991: K Skjonsby (File 42A08SE0064)**  
***Diamond Drilling and Geochemical Assaying – Benoit Township***  
Work consisted of six diamond drill holes totaling 553.1 feet and the accompanying assays of the drill core.
- **1991 to 1992: (File 42A08SE0113)**  
***Diamond Drilling, Overburden Stripping and Geochemical Assaying – Benoit***

---

### ***Township***

On the north group, two diamond drill holes were completed with core split and sampled. On the south group work consisted of two diamond drill holes, stripping, chip samples taken at stripped area and the core being split and sampled. On claim #11168428 two diamond drill holes were completed and core split and sampled. Stripping was also carried out at this site.

- **1992: K Skjonsby (File 42A08SE8956)**  
***Diamond Drilling, Geochemical Assaying, Magnetic and VLF Electromagnetic – Benoit Township***  
The 1992 exploration program consisted of 3.5 km of a grid and surveying with VLF-EM and magnetometer instruments, one test line of VLF-EM along Bourkes Road, one diamond drill hole on the South Farm prospect and two drill holes on the Bourkes Mine Prospect.
- **1992: K Skjonsby (File 42A08SE8958)**  
***Diamond Drilling and Geochemical Assaying – Benoit Township***  
Work consisted of six diamond drill holes totaling 241.5 meters with 42 diamond drill core samples taken and assayed.
- **1994: K Skjonsby (File 42A08SE0091)**  
***Diamond Drilling, Overburden Stripping, Bedrock Trenching, VLF Electromagnetic Ground Geophysics and Geochemical Assaying – Benoit Township***  
Work consisted of two diamond drill holes totaling 187.2 meters, 1.2 km of VLF-EM surveying, trenching and sampling on the South Farm Prospect. Proposed work on the Bourkes Mine section was not completed.
- **2003: K Skjonsby (File 42A08SE2011)**  
***Re-cutting Claim Lines and Prospecting – Benoit Township***  
During the summer of 2003, prospecting work was carried out over 3 mining claims in the Benoit Township.
- **2006: Kenneth Skjonsby (File 20000001736)**  
***Overburden Stripping and Geochemical Assaying – Benoit Township***  
A pit was dug around 600 feet south of a historic shaft to test for mineralization. 9 channels were cut in the exposed outcrop to provide samples to assay. 12 grab samples and 44 channel samples in total were taken from the outcrop to assay.
- **2006: Meegwich Consultants Inc (File 20000001514)**  
***Line-cutting, Magnetic Ground Geophysics and Airborne VLF Electromagnetic Geophysics – Benoit Township***  
A total of 2.775 km was surveyed for a total of 112 readings taken at 25-meter stations on lines spaced at 50 to 100 meters.



- **2007 to 2008: Northern Gold Mining Inc (File 20000003474)**  
***Diamond Drilling and Geochemical Assaying – Benoit Township***  
Between October 29, 2007 and February 15, 2008, a 20-hole diamond drill program totaling 2681.4 meters was carried out on Patented Mining Claim P8018 and Unpatented Mining Claim 919907.
- **2011: Ken Skjonsby, Tim Skjonsby (File 20000006949)**  
***Re-cutting Claim Lines, Prospecting and Geochemical Assaying – Benoit Township***  
During the fall of 2011, prospecting work was carried out over 4 mining claims in the Benoit Township. Line cutting of old property boundaries was also completed as well as assaying of the various samples attained from prospecting.
- **2013: (File 20000014817)**  
***Ground Magnetic and VLF Electromagnetic Geophysics – Benoit Township***  
A total of 6.1875-line kilometers of magnetometer and VLF EM was read over the Skjonsby Property on December 4<sup>th</sup> and 5<sup>th</sup>, 2013. This consisted of 495 magnetometer and VLF samples taken at a 12.5m sample interval.
- **2017: Tim Ken Skjonsby (File 20000014871)**  
***Line-cutting and Prospecting – Benoit Township***  
Line cutting and prospecting work was carried out during the fall of 2017 on 4 mining claims located in the Benoit Township.

## 1.7 GENERAL GEOLOGY

The prospect area lies between the Larder Lake and Destor-Porcupine Faults in the broad 'Abitibi' belt of volcanic rocks extending about 400 miles from Timmins, Ontario to Chibougamau, Quebec. The prospect area is underlain by mafic to intermediate Keewatin metavolcanics. Mapping by H.Lovell in 1965 indicates the metavolcanics are tholeiitic in nature and probably belong to the Kinojevis Group. The volcanics are tightly folded along a synclinal axis with a strike of N35°W and a vertical dip. The strike direction of the synclinal axis corresponds to the local strike of the mineralized quartz-carbonate veins and shear on the Bourkes Mine property thus it is probable the regional folding acts as a control to local vein emplacement. The southern tip of a large diorite-gabbro intrusive is interpreted to extend to the northwest from the property (Map 2215, OGS 1971). The flows are reported to be cut by intrusions and diabase dykes running parallel to the shear zone.

Due to the lack of bedrock exposure in the Bourkes Mine area no detailed mapping exists for the vicinity of the mine. The mineralized zone consists of a series of small

---

lenses for the vicinity of the mine. The mineralized zone consists of a series of small lenses and disrupted veins of quartz-carbonate in a sheared, fragmental flow top. The quartz-carbonate veins where exposed on surface show a maximum width of approximately 1.5' and the shear zone on surface shows a width of approximately 1' to 5'. The veins follow the regional synclinal axis strike of N35°W and are vertical to sub-vertical in dip. The mineralization consists of pyrite, chalcopyrite, petzite (Au-Ag telluride → Ag<sub>3</sub>AuTe<sub>2</sub>) and a little free gold. Minor galena and molybdenite is also reported. Pyrite is the most abundant sulfide mineral and is found as scattered cubes or coarse aggregates in the unaltered mafic volcanics or as fine disseminations to 15% in the bleached, alteration halo immediately adjacent to the quartz-carbonate veins or shear zone, generally within 1' of the vein or shear. Chalcopyrite occurs as coarse aggregates in the quartz-carbonate veins generally as 5% or less abundance of the vein material. The high-grade gold concentrations and petzite are reported to be confined to the quartz-carbonate lenses. Minor ankerite was observed with the quartz-carbonate veins as well as occurring as thin, flat veinlets (≤1") on the immediate west-side of the quartz-carbonate vein shear zone. It is reported that a diabase dyke parallels the vein-shear zone in the underground workings generally forming the east wall of the zone. This diabase dyke on the immediate east side of the mineralized zone was not observed in the recent, stripped area south of the shaft. It is also reported that though the dyke generally follows the flow top, locally the dyke does swing away from the flow top and where this occurs the mineralization follows the flow top. The literally dozens of gold and base metal occurrences on the Northern Gold Mining Inc Benoit and Maisonville Township land package, within a three-mile radius of this prospect, as mapped by Lovell et al. (Geology of Benoit & Maisonville Twps. Map – 2215, 1970) would imply a considerably more complicated and favourable geology than is evident on the sparse bedrock exposures.

*Lovell, H.L. Geology of the Bourkes Area, ODM Report 92, 1971*

## 2.0 SURVEY WORK UNDERTAKEN

### 2.1 SURVEY LOG

Date	Description
November 11, 2019	Began traversing the prospecting area. Collected 9 samples.

**Table 2: Prospecting Log**

### 2.2 PERSONNEL

Crew Member	Resident	Province
Bruce Lavalley	Britt	Ontario
Claudia Moraga	Britt	Ontario

**Table 3: Prospecting Crew Personnel**

### 2.3 TRAVERSE SPECIFICATIONS

The traverse was chosen at random by the crew to maximize property coverage. Two crew members focused on locating and sampling historic showings and on covering new areas.

At each sample site, a long bright orange ribbon was hung with only the sample number listed in black marker. Each sample was taken under it's corresponding ribbon.

Using a rock hammer, rocks were broken up and sampled. Each sample was placed in a plastic sampling bag with a sample tag and taped to seal. Sample numbers were recorded on the sampling bags. The samples were then put into a packsack for transportation.

At each sampling location, a photograph of satellite information shown on the GPS was taken.

At the end of the day, all samples were put into white "rice" bags. These bags were sealed and brought back to Larder Lake to be cut and characterized. The GPS data which identified sample locations and traverse routes were downloaded for mapping.



---

---

### 3.0 OVERVIEW OF SURVEY RESULTS

**ALL SAMPLES WERE TAKEN FOR REFERENCE PURPOSES ONLY! ALL SAMPLES WERE PRESENTED TO TIM SKJONSBY.**

#### 3.1 SUMMARY OF SAMPLES COLLECTED

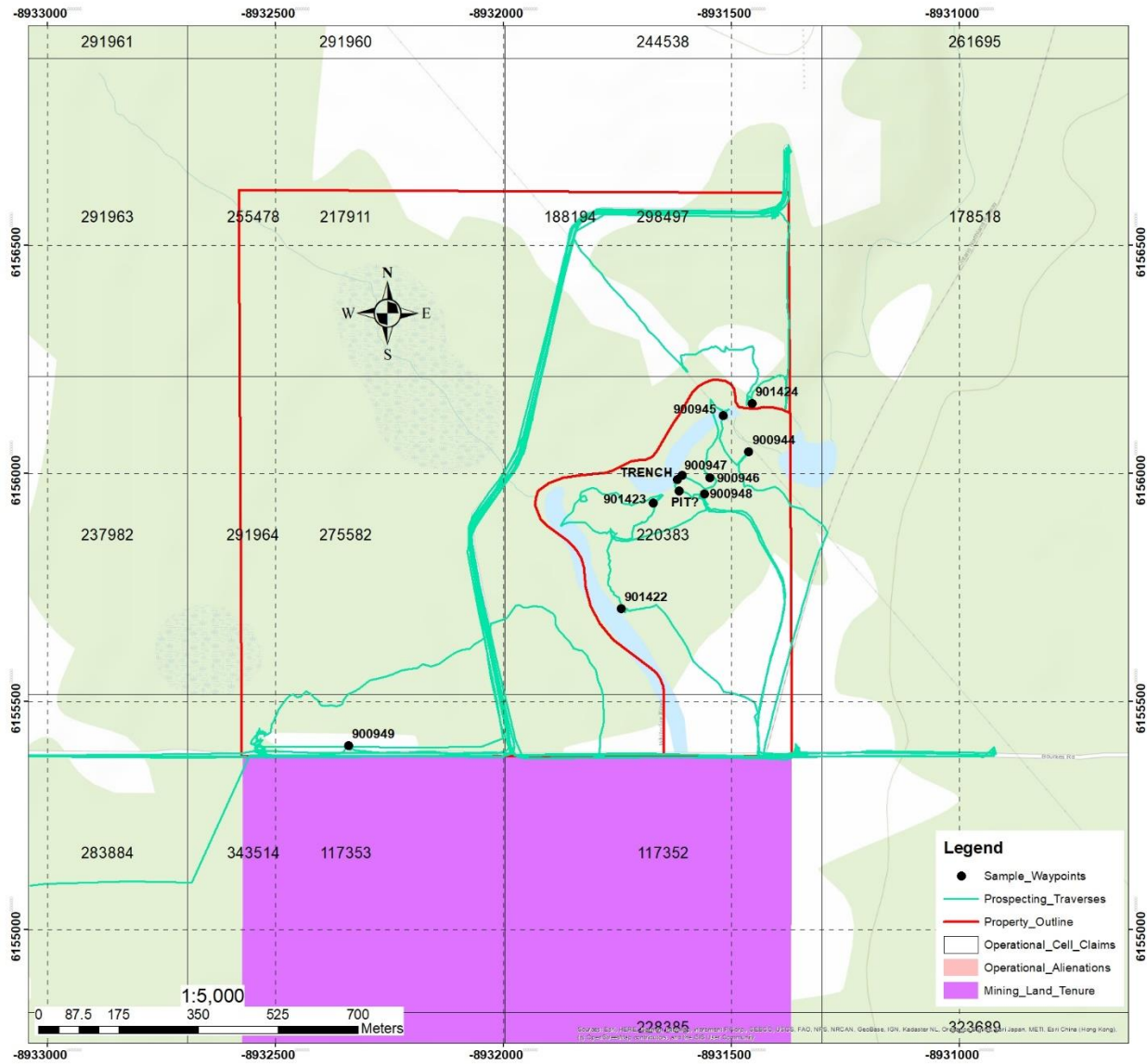
At each sampling location, a picture of satellite information shown on the GPS was taken.

At the end of the day, all samples were put into white “rice” bags. These bags were sealed and brought back to Larder Lake to be cut and characterized. The GPS data which identified sample locations and traverse routes were downloaded for mapping.

Date	Sample Number	UTM Easting	UTM Northing
November 5, 2019	900944	556910	5349357
	900945	556872	5349409
	900946	556854	5349319
	900947	556813	5349322
	900948	556846	5349295
	900949	556329	5348924
	901422	556726	5349127
	901423	556772	5349281
	901424	556915	5349428

**Table 4: Summary of Samples Collected**

Tim Skjonsby Property - Prospecting



**Figure 2: Prospecting Traverses (contour plot)**

---

### 3.2 PICTURES AND DESCRIPTIONS OF SAMPLES TAKEN

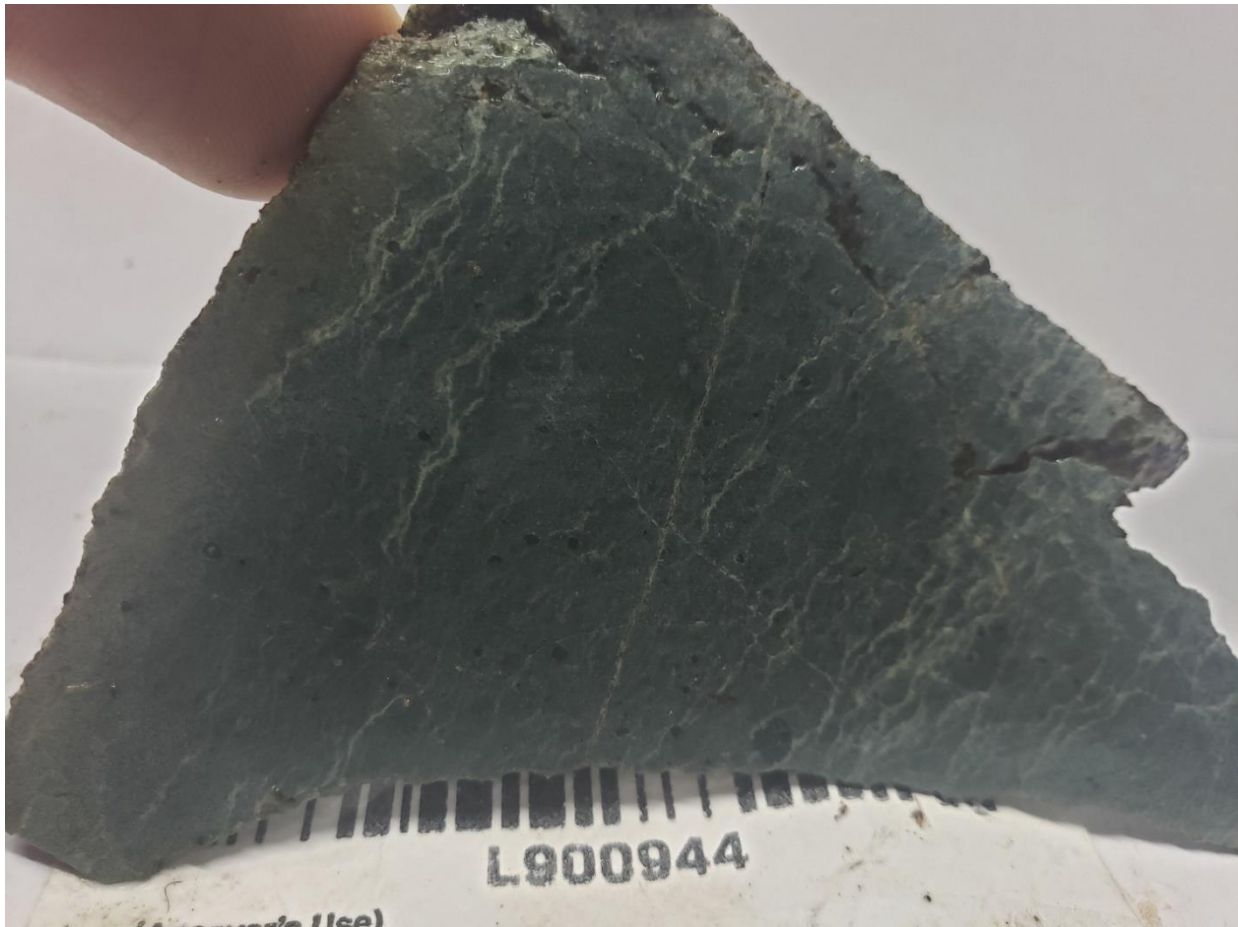
SAMPLES WERE COLLECTED FROM OUTCROP ENCOUNTERED. THESE WERE COLLECTED FOR REFERENCE PURPOSES AND PRESENTED TO THE CLIENT.

#### Sample 900944

Location:  
UTM Zone 17T  
556910E  
5349357N

#### Rock Description:

- Highly altered fine grain, intermediate metavolcanic rock or metasedimentary rock
- Contains quartz veins and chlorite grains



**Figure 3: Picture of Sample 900944**



**Figure 4: Field Image of Sample 900944 with Coordinates**



---

Sample 900945

Location:  
UTM Zone 17T  
556872E  
5349409N

Rock Description:

- Fine grain, intermediate to mafic metavolcanic rock or metasedimentary rock
- Contains quartz veins and disseminated pyrite



**Figure 5: Picture of Sample 900945**



**Figure 6: Field Image of Sample 900945 with Coordinates**

---

Sample 900946

Location:  
UTM Zone 17T  
556854E  
5349319N

Rock Description:

- Altered fine grain, intermediate metavolcanic rock or metasedimentary rock



**Figure 7: Picture of Sample 900946**





**Figure 8: Field Image of Sample 900946 with Coordinates**



---

Sample 900947

Location:  
UTM Zone 17T  
556813E  
5349322N

Rock Description:

- Altered fine grain, intermediate metavolcanic rock or metasedimentary rock
- Magnetic
- Contains calcite alteration, disseminated pyrite, quartz and chlorite veins



**Figure 9: Picture of Sample 900947**



**Figure 10: Field Image of Sample 900947 with Coordinates**

---

Sample 900948

Location:  
UTM Zone 17T  
556846E  
5349295N

Rock Description:

- Fine grain, intermediate to mafic metavolcanic rock or metasedimentary rock
- Magnetic
- Contains disseminated pyrite



**Figure 11: Picture of Sample 900948**





**Figure 12: Field Image of Sample 900948 with Coordinates**

---

Sample 900949

Location:  
UTM Zone 17T  
556329E  
5348924N

Rock Description:

- Fine grain, intermediate to mafic metavolcanic rock or metasedimentary rock
- Magnetic
- Contains calcite alteration and pyrite grains



**Figure 13: Picture of Sample 900949**





**Figure 14: Field Image of Sample 900949 with Coordinates**

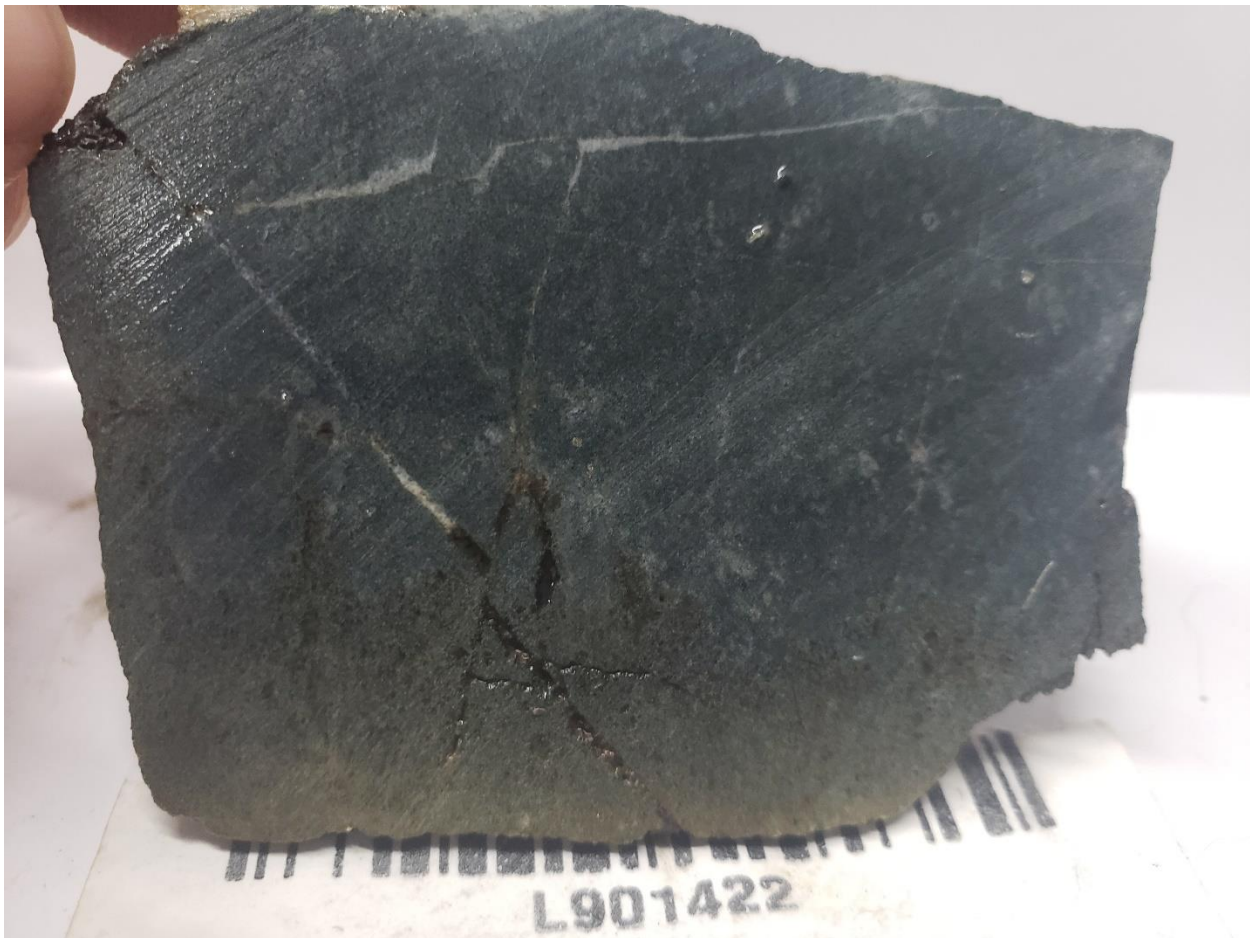
---

Sample 901422

Location:  
UTM Zone 17T  
556726E  
5349127N

Rock Description:

- Altered fine grain, intermediate metavolcanic rock or metasedimentary rock
- Contains calcite veins and calcite alteration



**Figure 15: Field Image of Sample 901422 with Coordinates**





**Figure 16: Picture of Sample 901422**



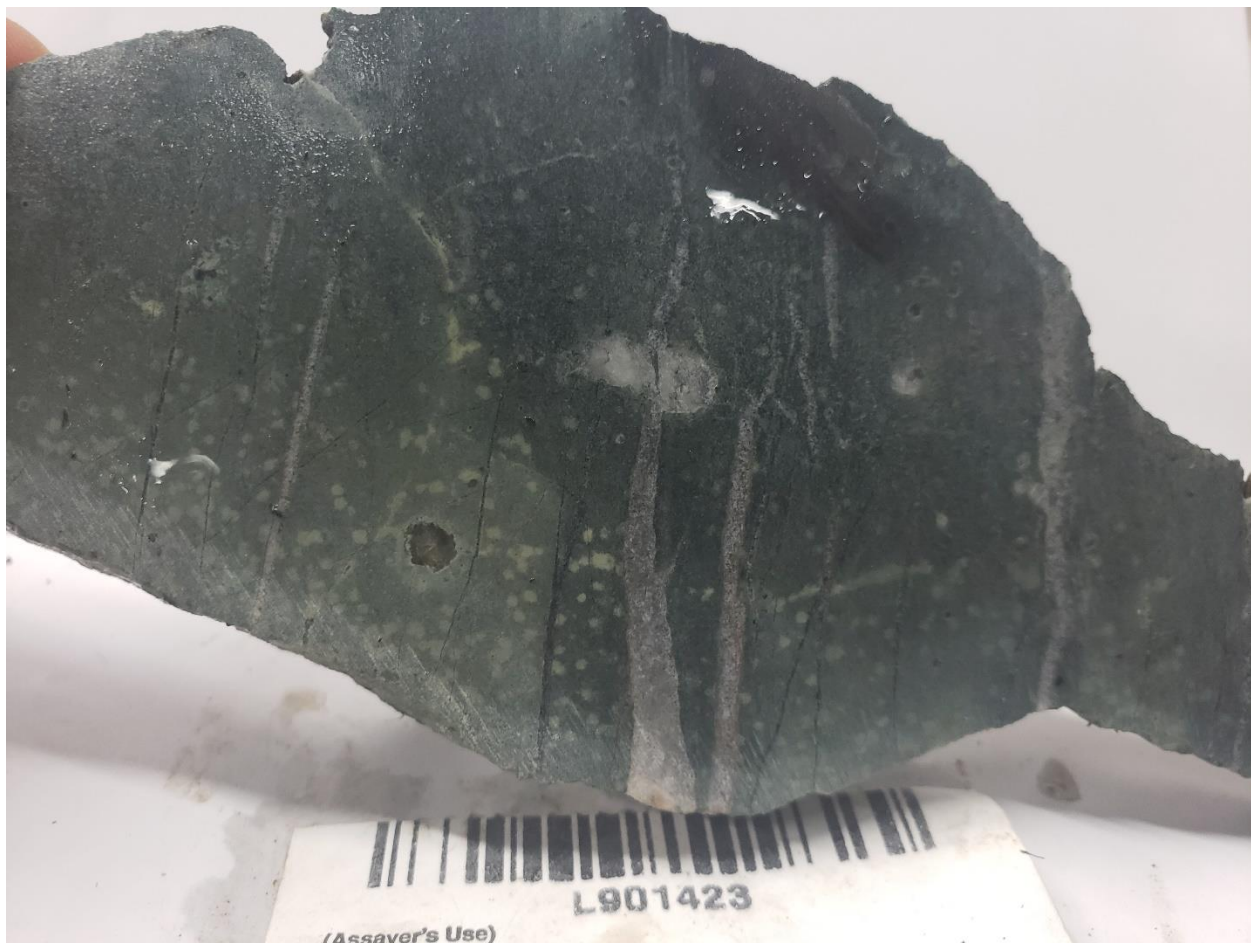
---

Sample 901423

Location:  
UTM Zone 17T  
556772E  
5349281N

Rock Description:

- Altered fine grain, intermediate to mafic metavolcanic rock or metasedimentary rock
- Contains amygdules, calcite and quartz veins



**Figure 17: Picture of Sample 901423**



**Figure 18: Field Image of Sample 901423 with Coordinates**

---

Sample 901424

Location:  
UTM Zone 17T  
556915E  
5349428N

Rock Description:

- Altered fine grain porphyritic, intermediate metavolcanic rock or metasedimentary rock
- Contains large chlorite grains and calcite veins



**Figure 19: Picture of Sample 901424**





**Figure 20: Field Image of Sample 901424 with Coordinates**

### 3.2 RECOMMENDATIONS

Little to no mineralization is apparent in the samples; however strong alteration is apparent. I would recommend sending the samples for multi-element assays.

---

---

## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, C. Jason Ploeger, hereby declare that:

1. I am a professional geophysicist with residence in Larder Lake, Ontario and am presently employed as a Geophysicist and Geophysical Manager of Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I am a Practising Member of the Association of Professional Geoscientists, with membership number 2172.
3. I graduated with a Bachelor of Science degree in geophysics from the University of Western Ontario, in London Ontario, in 1999.
4. I have practiced my profession continuously since graduation in Africa, Bulgaria, Canada, Mexico and Mongolia.
5. I am a member of the Ontario Prospectors Association, a Director of the Northern Prospectors Association and a member of the Society of Exploration Geophysicists.
6. I do not have nor expect an interest in the properties of **Tim Skjonsby**.
7. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.

C. Jason Ploeger, P.Ge., B.Sc.  
Geophysical Manager  
Canadian Exploration Services Ltd.



Larder Lake, ON  
November 25, 2019

---

## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, Andrew Salerno, hereby declare that:

1. I am a soon-to-be Geoscientist-in-Training with residence in Virginiatown, Ontario and am presently employed as a Junior Geologist with Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I graduated with a Bachelor of Science Honors specialization in geology from the University of Waterloo, in Waterloo, Ontario, in 2018.
3. I am currently undergoing the application process to register as a Geoscientist-in-Training to later become a practicing member of the Association of Professional Geoscientists.
4. I do not have nor expect an interest in the properties of **Tim Skjonsby**.
5. I am responsible for assisting with the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.



Andrew Salerno, B.Sc.  
Junior Geologist  
(non-Professional)

Larder Lake, ON  
November 25, 2019

**APPENDIX B**

**GARMIN GPS MAP 62S**



Physical & Performance:	
Unit dimensions, WxHxD:	2.4" x 6.3" x 1.4" (6.1 x 16.0 x 3.6 cm)
Display size, WxH:	1.43" x 2.15" (3.6 x 5.5 cm); 2.6" diag (6.6 cm)
Display resolution, WxH:	160 x 240 pixels
Display type:	transflective, 65-K color TFT
Weight:	9.2 oz (260.1 g) with batteries
Battery:	2 AA batteries (not included); NiMH or Lithium recommended
Battery life:	20 hours
Waterproof:	yes (IPX7)
Floats:	no
High-sensitivity receiver:	yes
Interface:	high-speed USB and NMEA 0183 compatible

Maps & Memory:	
Basemap:	yes
Preloaded maps:	no
Ability to add maps:	yes
Built-in memory:	1.7 GB
Accepts data cards:	microSD™ card (not included)
Waypoints/favorites/locations:	2000
Routes:	200
Track log:	10,000 points, 200 saved tracks
Features & Benefits:	
Automatic routing (turn by turn routing on roads):	yes (with optional mapping for detailed roads)
Electronic compass:	yes (tilt-compensated, 3-axis)
Touchscreen:	no
Barometric altimeter:	yes
Camera:	no
<u>Geocaching-friendly:</u>	yes (paperless)
<u>Custom maps compatible:</u>	yes
Photo navigation (navigate to geotagged photos):	yes
Outdoor GPS games:	no
Hunt/fish calendar:	yes
Sun and moon information:	yes



---

Tide tables:	yes
Area calculation:	yes
Custom POIs (ability to add additional points of interest):	yes
Unit-to-unit transfer (shares data wirelessly with similar units):	yes
Picture viewer:	yes
Garmin Connect™ compatible (online community where you analyze, categorize and share data):	yes

- *Specifications obtained from [www.garmin.com](http://www.garmin.com)*

---

---

## APPENDIX C

### LIST OF MAPS

#### Plan Maps

- 1) Q2726-Skjonsby-Prospecting (1:5000)

**Total Maps = 1**



877.504.2345 | info@cxsltd.com | www.cxsltd.com

