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**N.T.S. 32D05J**

**GEOLOGICAL REPORT ON  
ON A SECTION OF SZ PROPERTY  
IN BEN NEVIS TOWNSHIP  
LARDER LAKE MINING DIVISION  
BEN NEVIS TOWNSHIP, ONTARIO**

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Mount Brydges, Ontario**

**February 27, 2020**

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## **Summary**

This report summarizes a geological survey over a section of the SZ Property in Ben Nevis Township. The survey was completed in 2 days between August 23, 2019 to and August 26, 2019. The survey was completed by property owner and author: Dr. Jim Renaud and assisted by property owner Robert Dillman. A total of 1.8 km was surveyed. The geological survey was completed at the same time geophysical surveys were being performed over the same area.

The geological survey focused on exploring the SZmag-1 Target outlined by the ground magnetic survey as a circular-shaped magnetic high measuring roughly 125 metres in diameter. The target was found to be covered by till and could not be explained. Outcrops in the vicinity to the magnetic feature consist of basaltic units. Petrographic examination of a rock sample from site WP-91, a pyrite occurrence discovered during the survey suggests some of the outcrops consist of vesicular basalt. Pyrite mineralization was found to be anomalous in copper and zinc. Four rock samples were collected from the property.

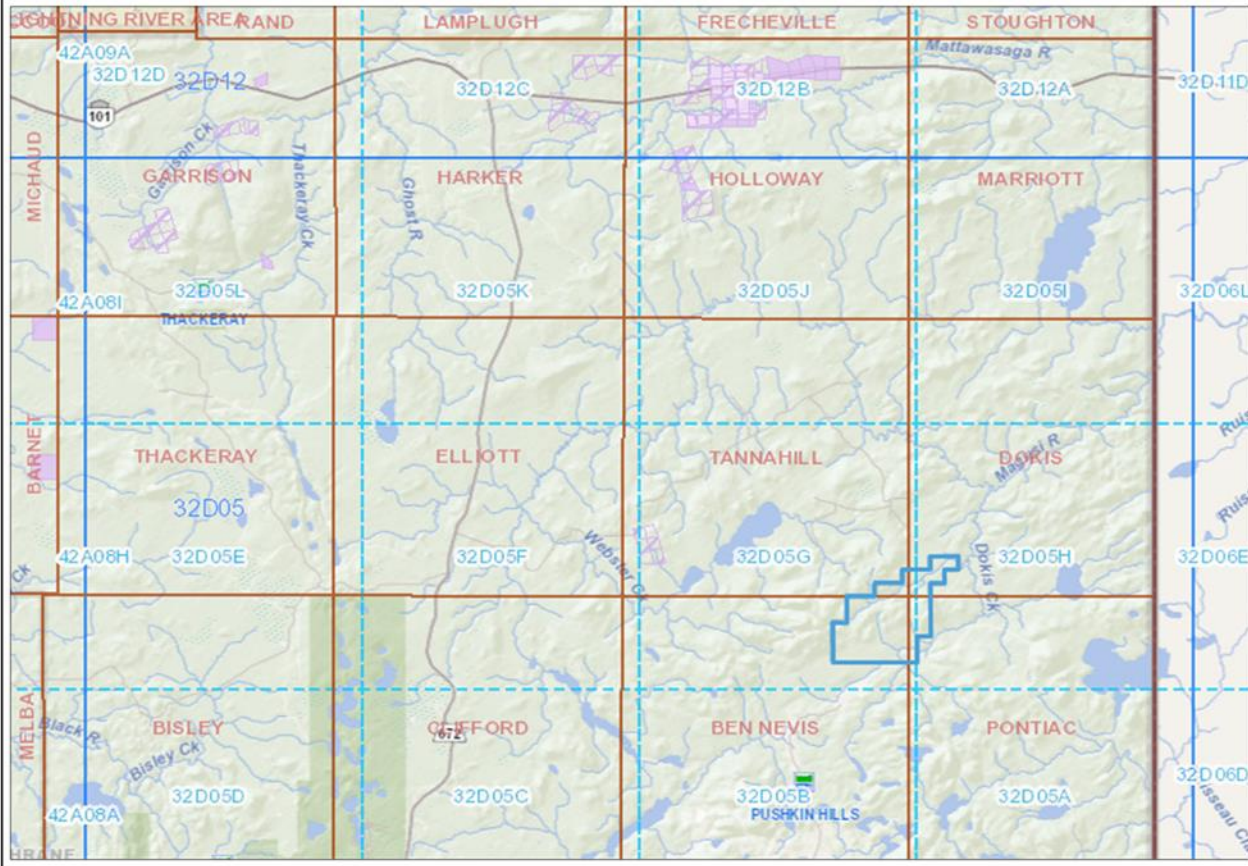
## **Location and Access**

The SZ Property straddles the intersection of Ben Nevis, Pontiac, Dokis and Tannahill Township's in the Larder Lake Mining Division, Ontario. The property is located approximately 27 kilometres north of Larder Lake, Ontario, Canada (Figure 1).

The SZ Property is accessible by truck. It can be reached from the town of Larder Lake by travelling east on Highway 66 for approximately 0.83 km to the intersection of Larder Station – Killamey Road. The southeast corner of the property is crossed by the Larder Station – Killamey Road approximately 35 km north of the intersection with Highway 66.

The north section of the property is also accessible by truck and ATV via logging roads intersecting with the Roscoe Road in Tannahill Township.

The area surveyed is accessible by ATV via a logging road from the Larder Station – Killamey Road.



**Legend**

- Provincial Grid Cell**
  - Available
  - Pending
  - Unavailable
- Mining Claim**
  - Mining Claim
  - Boundary Claim
- Alienation**
  - Withdrawal
  - Notice
- ENDM Administrative Boundaries**
  - ENDM Townships and Areas
  - Geographic Lot Fabric
  - UTM Grid 1K
  - UTM Grid 10K
  - Mining Division
  - Mineral Exploration and Development Region
  - CLUPA Protected Area - Far North
  - Resident Geologist District
  - Federal Land Other
  - Native Reserves
  - AMIS Sites
  - AMIS Features
  - Drill Hole
  - Mineral Occurrences
- MLAS Mining History**
  - Withdrawal - History
  - Notice - History
  - Mining Claim - History
  - Mining Land Tenure - History
  - Legacy Claim
- Provincial Grid**
  - Provincial Grid 250K
  - Provincial Grid 50K
  - Provincial Grid Group
- Land Tenure**
  - Surface Rights
  - Mining Rights
  - Mining and Surface Rights
  - Order-in-Council



Projection: Web Mercator



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## Claim Logistics

Figure 2 outlines the extent of the SZ Property. The property consists of 24 mining claims comprised of 40 contiguous cells. The property covers an approximate area of 847 hectares. . The geological survey was performed on sections of 3 cells within the property. The claims include:

538974	32D05G316
538974	32D05G336
554440	32D05G356

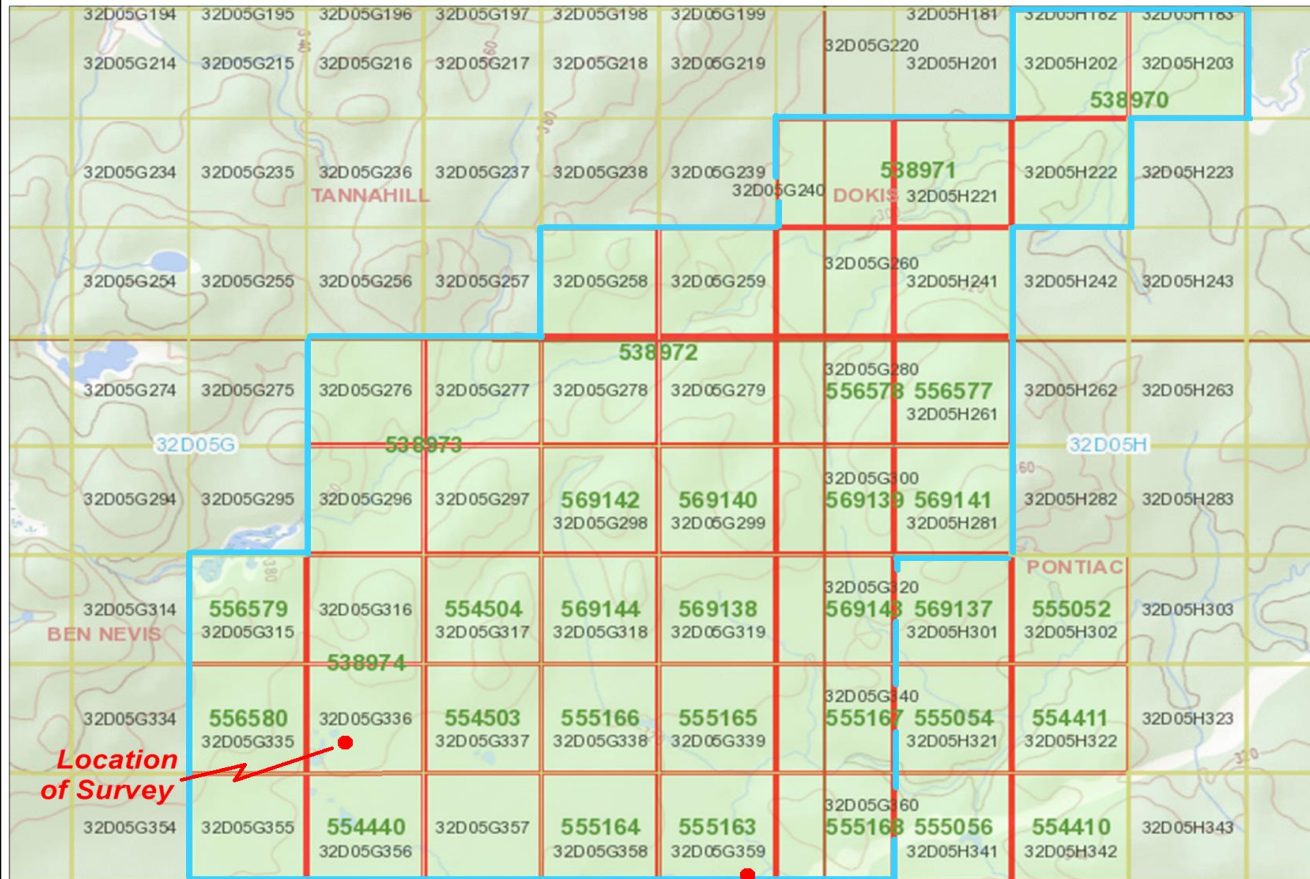
An assay of a rock sample collected in the southeast section of the property is also reported in this report. The sample was collected at the HMC-4 sample site during heavy mineral sampling of a creek on claim:

555163	32D05G359
--------	-----------

All claims comprising the SZ Property are equally owned by:

James M. Chard of Cordova, Ontario  
Dr. Jim Renaud (author) of London, Ontario  
Robert J. Dillman of Mount Brydges, Ontario

Figures 2 and 3. depict the area covered by the surveys.



**Legend**

- Provincial Grid Cell**
  - Available
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  - Unavailable
- Mining Claim**
  - Mining Claim
  - Boundary Claim
- Alienation**
  - Withdrawal
  - Notice
- ENDM Administrative Boundaries**
  - ENDM Townships and Areas
  - Geographic Lot Fabric
  - UTM Grid 1K
  - UTM Grid 10K
  - Mining Division
  - Mineral Exploration and Development Region
  - CLUPA Protected Area - Far North
  - Resident Geologist District
  - Federal Land Other
  - Native Reserves
- AMIS Sites**
  - AMIS Sites
  - AMIS Features
  - Drill Hole
  - Mineral Occurrences
- MLAS Mining History**
  - Withdrawal - History
  - Notice - History
  - Mining Claim - History
  - Mining Land Tenure - History
  - Legacy Claim
- Provincial Grid**
  - Provincial Grid 250K
  - Provincial Grid 50K
  - Provincial Grid Group
- Land Tenure**
  - Surface Rights
  - Mining Rights
  - Mining and Surface Rights
  - Order-in-Council



**HMC-4 Sample Site**

Projection: Web Mercator



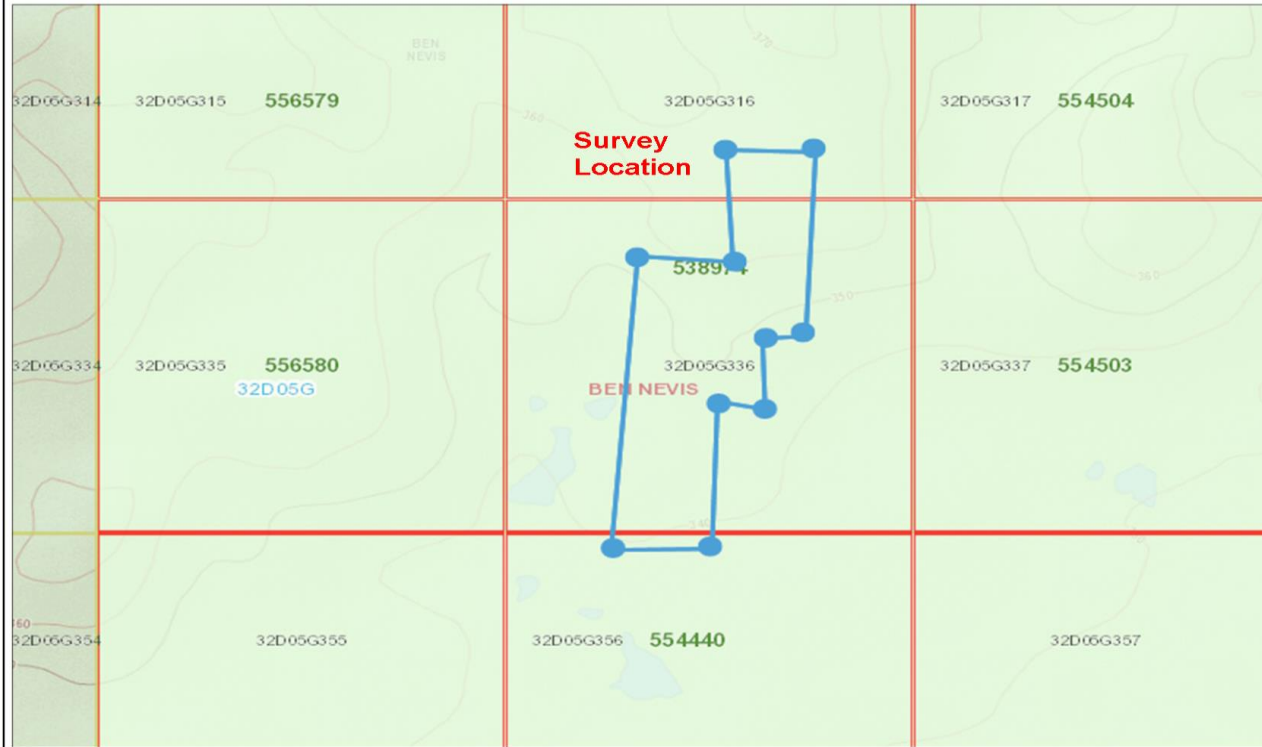
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### Legend

- Provincial Grid Cell**
  - Available
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- Mining Claim**
  - Mining Claim
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- Alienation**
  - Withdrawal
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- MLAS Mining History**
  - Withdrawal - History
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  - Order-in-Council



Projection: Web Mercator



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## **Land Status and Topography**

The area traversed is situated entirely on Crown Land. This section of the property is uninhabited. There are no buildings or hydroelectricity in the area.

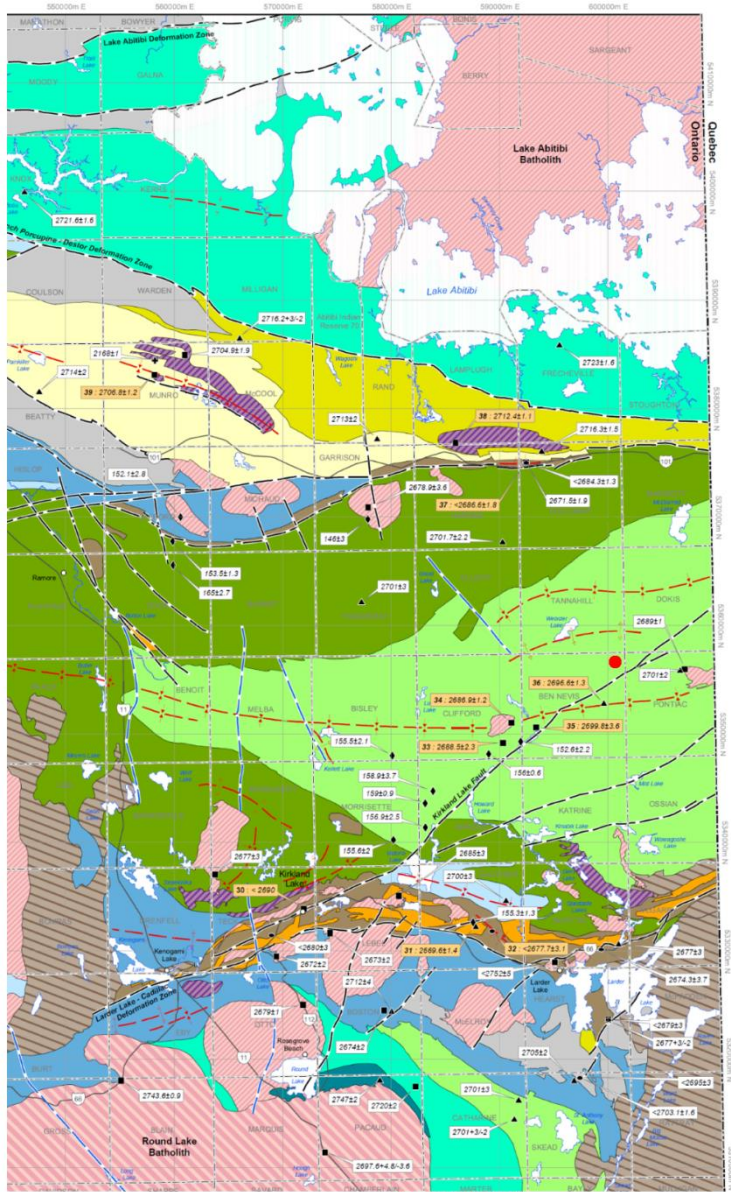
The survey area is at a mean elevation of 350 metres above sea level. The north section of the survey area has the highest elevations ranging approximately 360 metres above sea level. This section has good outcrop exposure. The midsection of the survey area is centered on a fairly steep, till-covered, south-facing slope. The lowest elevations occur in the south section of the area surveyed. A cedar bog sits at the base of the slope. This area is poorly drained by several south-flowing creeks appearing to originate from the bog. Outcrop exposure is poor in this area but better on the east side of the survey area.

## **Regional and Property Geology**

The SZ Property is situated in Kirkland Lake/ Larder Lake section of the Abitibi Greenstone Belt. (Figure 4). The property sits on the north limb of the Blake River Synclinorium and roughly 14.5 km south of the Destor Porcupine Fault Zone.

The property is underlain by Archean units of the Lower and Upper Blake River assemblage dated 2704 to 2696 Ma. Units consist mostly of massive and pillowed flows of mafic metavolcanic rocks, minor arkosic metasedimentary units, gabbroic sills and granite plutons. Regional metamorphism ranges within the greenschist facies. Table 1 summarizes the stratigraphic sequence.

The SZ Property is underlain by mafic and intermediate metavolcanic units belonging to the Upper Blake River Formation dated 2704 to 2696 Ma. These units consist of basalt, andesite and dacite (Figure 5). Locally, the property has been intruded by Archean felsic intrusive rocks consisting of granodiorite stocks and Proterozoic aged diabase dikes. Structurally, rock units on the property trend northeast-southwest and dip moderate to steeply southeast. The southeast section of the property is crossed by the Murdoch Creek – Kennedy Lake Fault. This fault strikes northeast-southwest and is an extension of the Kirkland Lake Fault.



source: OFR 6154

• SZ PROPERTY



Figure 4. Regional Geology Map

**Table 1. Stratigraphic Sequence: Ben Nevis Township, Ontario**

*modified after* : L.S. Jensen (1978)

---

PHANEROZOIC  
CENOZOIC  
QUATERNARY  
PLEISTOCENE AND RECENT  
Till, reworked till, esker sand and gravel, varved clay, dune sand, alluvium and peat

*UNCONFORMITY*

PRECAMBRIAN  
MIDDLE TO LATE PRECAMBRIAN (PROTEROZOIC)  
MAFIC INTRUSIVE ROCKS  
Diabase and quartz diabase

*INTRUSIVE CONTACT*

EARLY PRECAMBRIAN (ARCHEAN)  
FELSIC INTRUSIVE ROCKS  
SYENITIC INTRUSIVE ROCKS  
Equigranular and porphyritic syenodiorite, monzonite, syenite, feldspar porphyry, pegmatite and lamprophyre

*INTRUSIVE CONTACT*

GRANITIC INTRUSIVE ROCKS  
Quartz diorite, granodiorite, trondjemite, feldspar porphyry, and hybrid rocks

*INTRUSIVE CONTACT*

MAFIC INTRUSIVE ROCKS  
Gabbro, quartz gabbro, diorite, quartz diorite, hornblende gabbro, and anorthositic gabbro

*INTRUSIVE CONTACT*

VOLCANIC ROCKS  
RHYOLITIC AND DACITIC VOLCANIC ROCKS  
Calc-Alkaline Suite  
Massive breccia, flow-breccia, pyroclastic breccia, tuff, crystal tuff, amygdaloidal, rhyolitic and dacitic rocks feldspar, and quartz porphyry, rhyolitic and dacitic rocks

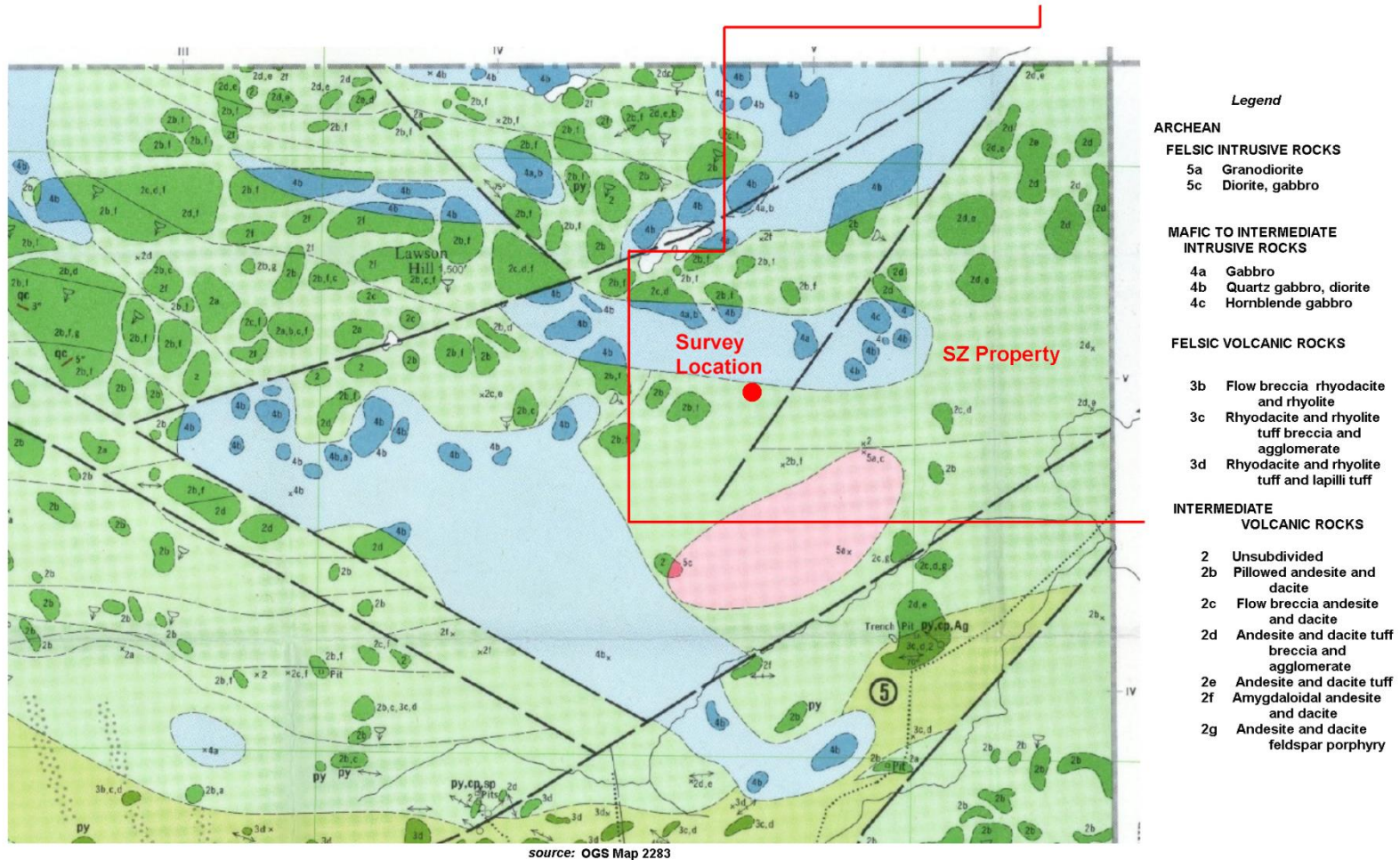
Tholeiitic Suite  
Spherulitic tuff and tuff-breccia, and cherty tuff, rhyolitic and dacitic rocks

BASALTIC AND ANDESITIC VOLCANIC ROCKS  
Calc-Alkaline Suite  
Massive, pillowed breccia, pyroclastic breccia, tuff and lapilli-tuff, amygdaloidal, porphyritic feldspar basaltic and andesitic rocks and greenschist and amphibolite facies, meta-basaltic and meta-andesitic rocks

Tholeiitic Suite  
Black to dark green, high-iron, massive, pillowed flow-top breccia, pillow breccia, hyaloclastic, variolitic and amygdaloidal basaltic and andesitic rocks and interflow sediments

Grey to green, high-magnesium massive, pillowed, flow-top breccia, pillow breccia, hyaloclastic, porphyritic feldspar, variolitic and amygdaloidal basaltic rocks and interflow sediments





- Legend*
- ARCHEAN**
- FELSIC INTRUSIVE ROCKS**
- 5a Granodiorite
  - 5c Diorite, gabbro
- MAFIC TO INTERMEDIATE INTRUSIVE ROCKS**
- 4a Gabbro
  - 4b Quartz gabbro, diorite
  - 4c Hornblende gabbro
- FELSIC VOLCANIC ROCKS**
- 3b Flow breccia rhyodacite and rhyolite
  - 3c Rhyodacite and rhyolite tuff breccia and agglomerate
  - 3d Rhyodacite and rhyolite tuff and lapilli tuff
- INTERMEDIATE VOLCANIC ROCKS**
- 2 Unsubdivided
  - 2b Pillowed andesite and dacite
  - 2c Flow breccia andesite and dacite
  - 2d Andesite and dacite tuff breccia and agglomerate
  - 2e Andesite and dacite tuff
  - 2f Amygdaloidal andesite and dacite
  - 2g Andesite and dacite feldspar porphyry

0 ————— 1 km

**Figure 5.**  
**Geology of the Southwest Section**  
**of the SZ Property**  
**Ben Nevis Township, Ontario**

## History of Exploration

In 1970, Amax Ltd. completed an airborne magnetometer and electromagnetic survey over northern sections of Ben Nevis Twp. (32D05SE0016)

In 1971, the geology of Clifford and Ben Nevis townships was mapped by L.S. Jenson on behalf of the Ontario Department of Mines. (G.R.132)

In 1973, McIntyre Porcupine Mines Limited completed ground magnetometer and electromagnetic surveys over their claim group in Dokis Township. The northeast section of the SZ Property is covered by part of the geophysical surveys. (32D05SE0025)

In 1974, W.J. Wolfe undertook a geochemical survey on rock samples collected in parts of Ben Nevis and Clifford townships with focus on nickel, copper and zinc. The survey was performed on behalf of the Ontario Division of Mines. (P.915, P.916, P.917)

In 1975, the geology of Pontiac and Ossian townships was mapped by L.S. Jenson on behalf of the Ontario Department of Mines. (G.R.125)

In 1979, the Ontario Geological Survey flew electromagnetic and total intensity magnetic surveys over the Kirkland Lake area which included Ben Nevis (P.2254) and Pontiac (P.2255) townships. The surveys were conducted by fixed-wing aircraft on flight lines spaced 150 metres apart and flown at mean terrain clearance of 400 feet.

In 1986, Walker Exploration Ltd. carried out a ground magnetometer survey over a 21 claim group located in the northeast section of Ben Nevis Twp. The survey was performed on east-west orientated grid lines. The survey was completed on behalf of Lac Minerals Ltd. The west section of the SZ Property covers part of this survey. (32D05SE0043)

In 1988, McAdam Resources Inc. completed ground magnetometer, VLF, Induced Polarization and geological surveys along the Killamey Road. The southeast section of the SZ Property covers some of the area surveyed.

In 1990, Joutel Resources Ltd. flew an airborne survey over the north section of Ben Nevis Twp. The airborne survey included: total magnetics, gradient magnetics, apparent resistivity and VLF – electromagnetics. The surveys were completed by helicopter on flight lines spaced 150 metres apart and flown at a mean terrain clearance of 60 metres. The south section of the SZ Property covers part of the area surveyed. (32D05SE0007)

In 1992, geologist Vital Pearson mapped geology in central and northeast areas of Ben Nevis Twp. His work was performed on behalf of Minnova Inc. The southeast section of SZ Property covers part of the geology survey. (32D05SE0071, 32D05SE0023)

In 2003, Fugro Airborne Surveys flew magnetometer and EM surveys over the Kirkland Lake region and donated the data to the Ontario Geological Survey for interpretation and publication. The survey by Fugro included the area covered by the SZ Property. Residual magnetic data generated from the survey was used to guide the location of this survey (Figure 6).

In June of 2019, property owner Jim Chard sampled gravels in a creek located in cell 32D05G360. This work led to the discovery of Cr-rich green garnets potentially associated with a kimberlite. As a result, additional claims were staked including claim 555168 to cover the sample site.

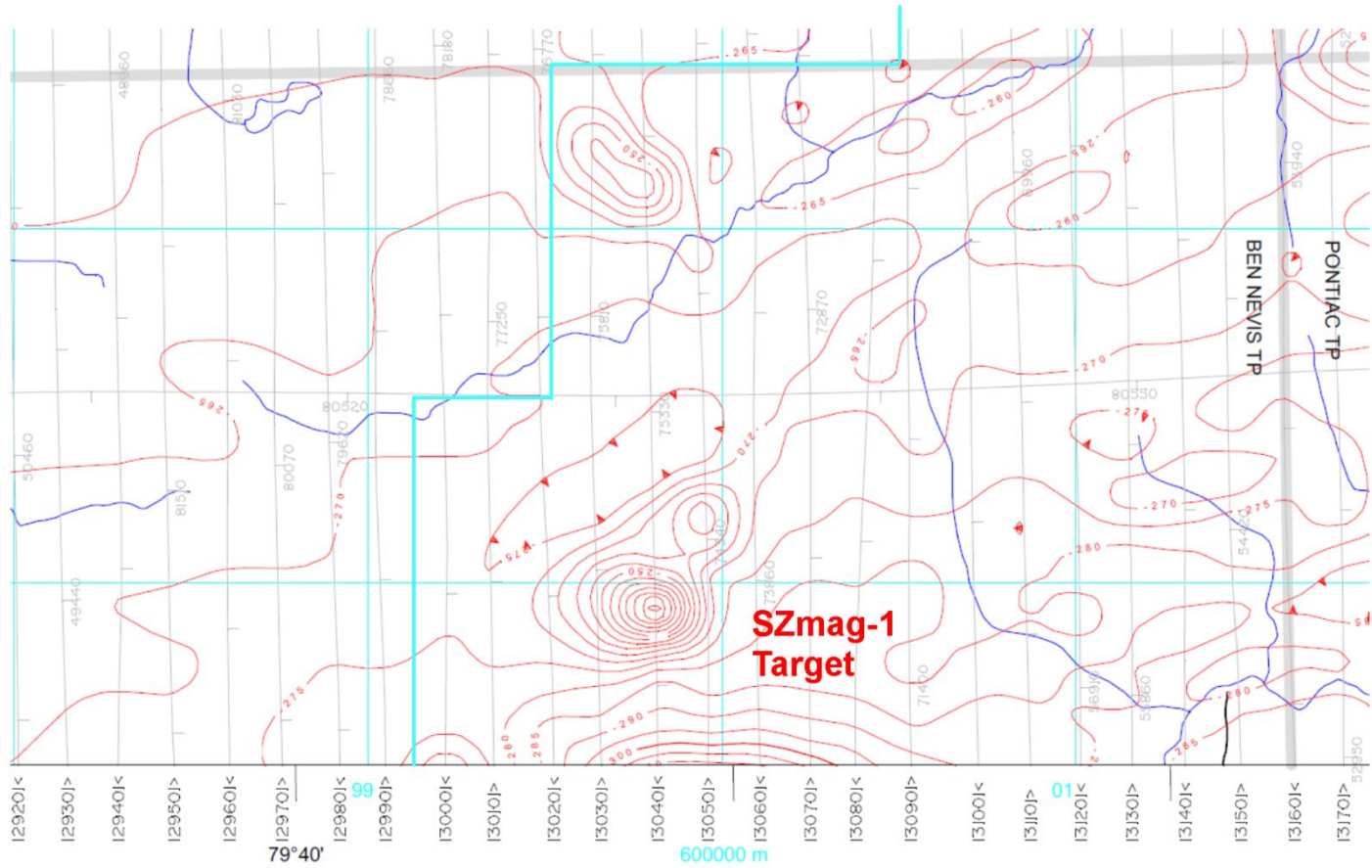
### **Survey Dates and Personnel**

The geological survey on a section of the SZ Property was completed in 4 days between August 23, 2019 and August 26, 2019. The survey was performed by property owners: Dr. Jim Renaud (author) and assisted by Robert Dillman and Jim Chard.

### **Survey Logistics**

The geological traverses were completed on a GPS controlled grid. The UTM coordinates of the survey lines are appended to this report. Waypoints were recorded every 100 metres and at the end of the survey lines. The survey lines were orientated  $0^{\circ}$  –  $180^{\circ}$  and spaced 50 metres apart. The lines range 200 to 550 metres in length. Flags with grid coordinates were hung at 25 metre intervals along the lines. A 200 m long east-west orientated tie-line was established for the survey.





**Figure 6.**  
**Residual Areomagnetic Data**  
**OGS Map: M81776**

A compass and GPS unit were used to navigate and calculate distances between readings. A Garmin GPS model RINO750 was used for the survey. The GPS was set to NAD83, Zone 17.

A total of 1.8 kilometres were traversed.

Four rock samples were collected during the survey for assay. The UTM coordinates for the rock samples are presented in Table 2. and shown on the geology map included with this report. Assay certificates are appended to this report. The samples were assayed at the SGS Minerals lab in Burnaby B.C. All four samples were assayed for Au, Pt and Pd by Fire Assay finished with ICP scan. Three of the samples were further assayed by a 35 element package using a 2-acid leach/ICP finish. Assay certificates are appended to this report.

Several rocks were collected for petrographic examination. Polished thin sections were made from these rocks. Thin sections were carbon coated and examined in transmitted and reflected light with a Zeiss petrographic microscope. Regions of interest were photographed with a digital camera and circled with a diamond scribe to enable relocation of the selected areas when in the microprobe. Samples were examined in detail using a new Oxford Instruments Energy Dispersive System (EDS) mounted on the microprobe and relevant minerals were analyzed using the EDS spectrometer. Backscattered electron detector images of relevant and interesting mineralogical and textural relationships were collected digitally. The scale bar is located below each backscatter image to help evaluate the grain sizes of the various minerals. All minerals were analyzed on a JEOL JXA 733 electron microprobe equipped with an Oxford Instruments EDS and five wavelength spectrometers.

The Electron Microprobe is owned and operated by the author and is located at the facilities of Renaud Geological Consulting Ltd. in London, Ontario. The microprobe uses a high-energy focused beam of electrons to generate X-rays characteristic of the elements within a sample from volumes as small as 3 micrometers ( $10^{-6}$ m) across. The resulting X-rays are diffracted by analyzing crystals (TAP, PET, LIF) and counted using gas-flow and sealed proportional detectors. Chemical composition is determined by comparing the intensity of X-rays from standards (of known composition) with those from unknown materials and correcting for the effects of absorption and fluorescence in the sample.

## Survey Results

A geology map appended to this report summarizes the locations of outcrops and rock types within the survey area. The geological survey was coordinated with a ground magnetometer and VLF survey. The target of this work was the residual aeromagnetic feature, SZmag-1 Target depicted in (Figure 6). It is believed the magnetic feature possibly represents a kimberlite pipe.

Outcrops are abundant in the north and east sections of the area surveyed. These locations generally coincide with areas of higher elevations. All the outcrops observed consisted of basalt containing varying amounts of vesicles/ spherules (Figure 7). The basalt weathers to a light grey colour. On a fresh surface, the basalt is greyish grey and fine-grained. In some outcrops, white and dark vesicles/ spherules ranging < 1.0 cm in size are abundant. The unit is only slightly magnetic at best.

A sample of basalt collected at a site of pyrite mineralization discovered on line 1+00W at 1+25S, (WP-91, 599808mE, 5355774mN) was examined using a petrographic microscope (Figure 8). The sample is typical of outcrops in the area and believed to represent a rapidly quench fine-grained pillowed basalt with variable amounts of vesicles/ spherules. The rock is dominated by microlites of feldspars intergrown with carbonate and epidote with vesicles/ spherules infilled with quartz and feldspar. In some cases, epidote is noted to be replacing Ca-plagioclase. Late-stage micro veinlets of carbonate and epidote are also present.

No faulting, shearing or alteration was observed in the area surveyed. Some flow brecciation is present near the pyrite mineralization at the WP-91 site.

No outcrop was found to explain the cause of the SZmag-1 target. The magnetic feature is situated on a south facing slope which is covered by glacial till and extends from the base of the slope into a cedar bog which is drained by several spring fed creeks. Interestingly, a growth of is coincide with the SZmag-1 target and appear as a vegetation anomaly marking the target.



**WP-91 Sample site**



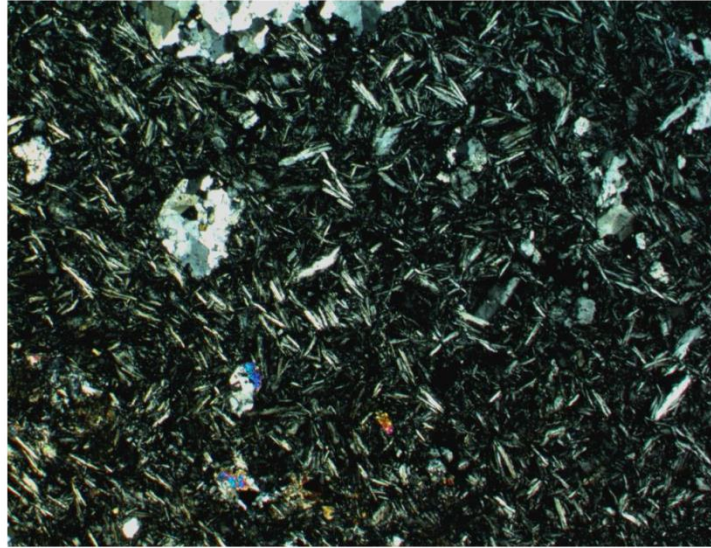
**Vesicular Basalt**



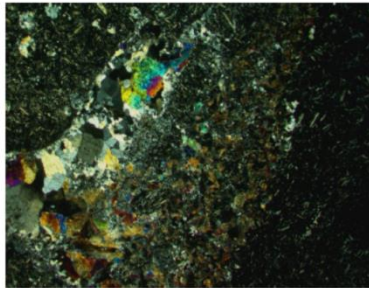
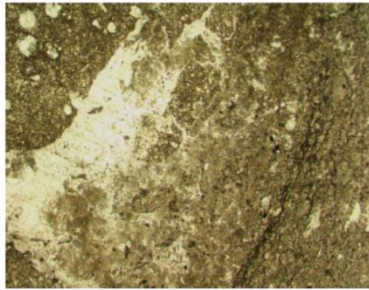
**Flow breccia**

**Figure 7.  
WP-91 Site  
599808mE, 5355774mN  
SZ Property, Ben Nevis Twp.**





Fine grained microlites of feldspar intergrown with birefringent epidote and carbonate. Note the vesicles/spherules infilled with quartz-feldspar.  
Field of View = 1cm



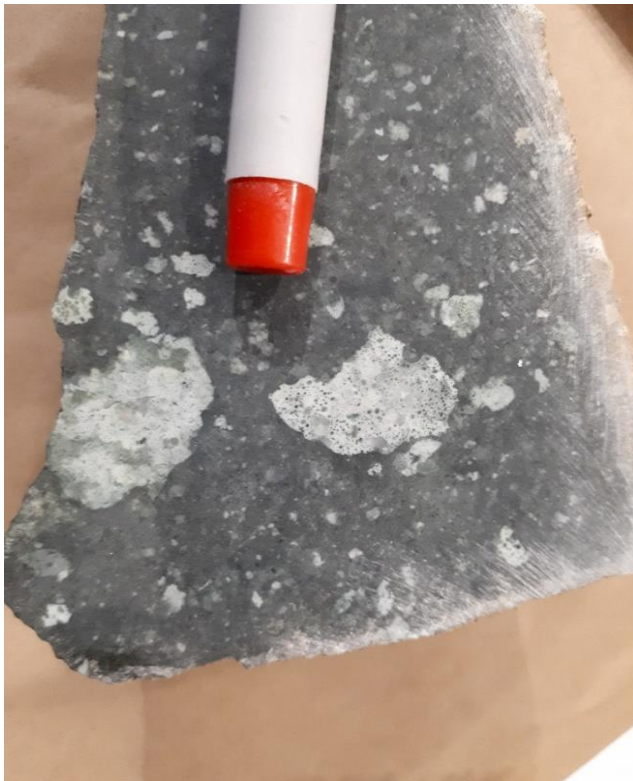
Plane light photomicrograph (top) illustrating carbonate (colourless) with adjacent epidote in a late stage veinlet. Field of View = 1cm.

**Figure 8.**  
**Petrologic Images of a Basalt Sample**  
**599808mE, 5355774mN**  
**SZ Property, Ben Nevis Twp.**

A boulder believed to be lamprophyre was found on the tie line 0+00 at 0+37W (599859mE, 5355897mN) and sampled for petrologic examination due to its location to SZmag-1 magnetic feature (Figure 9). In hand specimen, the rock is green to dark green in colour hosting brecciated fragments of finer grained basalt. Thin section examination revealed a relatively medium to coarse grained epidote-pumpellyite-albite-quartz-sphene-amphibole intermediate to mafic rock. The rock also contains two varieties of spherical/circular features interpreted to be vesicles and/or amygdule. One population of these circular features are infilled with inwardly penetrating quartz crystals. The second population of circular features are pumpellyite-quartz, pumpellyite-albite, or simply pumpellyite. Occasionally, the circular features containing the pumpellyite can host minute grains of chalcopyrite. The host rock contains an inventory of finely disseminated to occasional clusters of fine-grained chalcopyrite, sphalerite, and galena.

The fragments contained in this basaltic host rock are mm-cm scale angular brecciated fragments. The groundmass of these fragments is dominated by fine-grained microlites of well-terminated albite grains intergrown with pumpellyite and chlorite. These albite laths define a flow pattern around growing circular features interpreted as vesicles or more likely spherules or amygdules. There are again two populations of circular features. The one population is infilled with coarse quartz grains with some showing an inwardly penetrating growth pattern. The second population are highly birefringent circular features consisting of epidote and pumpellyite. These ovoids are also commonly zoned with a core of pumpellyite-epidote and a rim of quartz. There was no sulphide inventory associated with the fragments themselves.





**Figure 9. Boulder: 599859mE, 5355897mN  
SZ Property, Ben Nevis, Ontario**

## Result of Rock Sampling

Three rock samples were collected during the geological survey. Table 2 summarizes the locations of the samples and relevant assay results. All 3 samples were collected at the WP-91 site on line 1+00W at 1+25S from pyrite mineralization discovered during this survey (Figure 7, Figure 10). A fourth sample was collected during heavy mineral sampling on the property. The sample consisted of quartz and altered rock fragments present in the coarse fraction of HMC-4, a heavy mineral sample collected in a creek in the southeast section of the property (Figure 11).

**Table 2.**  
**Rock Sample Locations, Descriptions and Assay Results**  
**SZ Property, Ben Nevis Twp., Ontario**

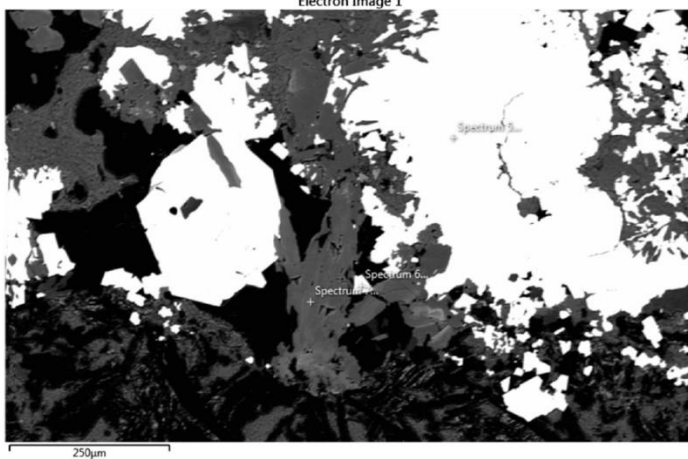
Sample Number	Cell & Claim	UTM	Type	Width	Au ppb	Cu ppm	Cr ppm	Ni ppm	S ppm	V ppm	Zn ppm	Notes
SZ-1	32D05G359 538974	599808mE 5355774mN	Best grab	0.5 m	17	111	136	143	4.15	122	86	Basalt with 5% pyrite
SZ-2	32D05G359 538974	599808mE 5355774mN	Best grab	0.5 m	10	53.3	149	154	2.05	116	67	Basalt with 2% pyrite
SZ-3	32D05G359 538974	599808mE 5355774mN	Best grab	0.5 m	2	149	25	45	1.13	98	35	Flow breccia basalt Trace pyrite.
HMC-4	32D05G359 555163	601320mE 5355190mN	pebbles	--	7	--	--	--	--	--	--	Quartz & hematite-rich altered pyrite bearing rock fragments

Upon assay, two of the basalt samples from the WP site show slightly anomalous Cu, Cr, Ni and V. Petrologic and microprobe analyses of sulphide bearing rocks from the WP-91 site identified veins of carbonate + epidote representing late-stage retrogressive phases also hosting minute grains of pyrite, Fe-Ni sulphide (pyrrhotite), Cu-Fe-Ni sulphides, chalcopyrite and blackjack sphalerite (Fe sphalerite).

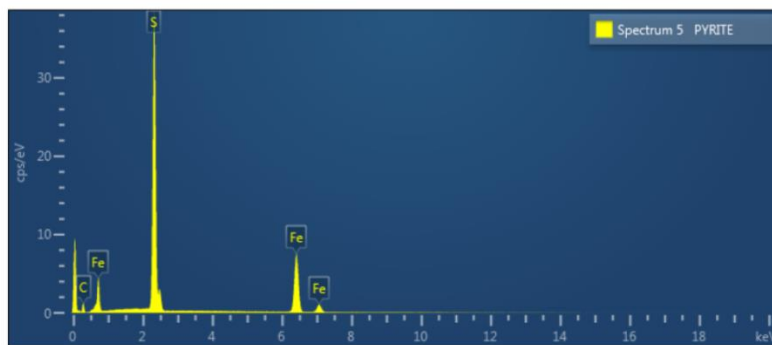
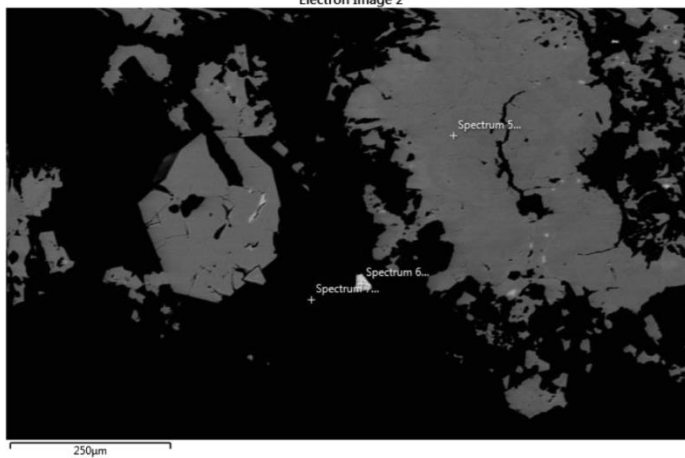


Figure 10. WP-91 Site, Pyrite-bearing basalt

Electron Image 1

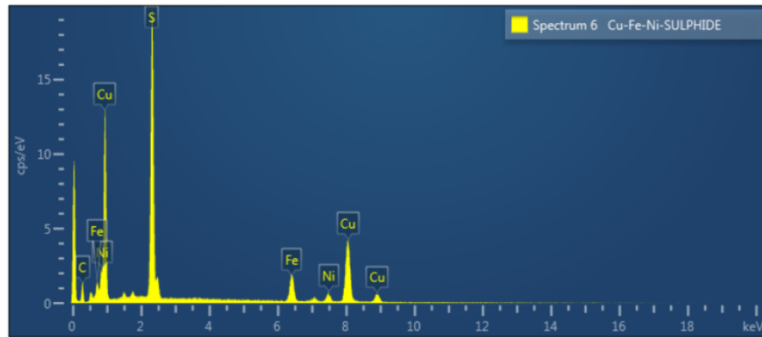


Electron Image 2

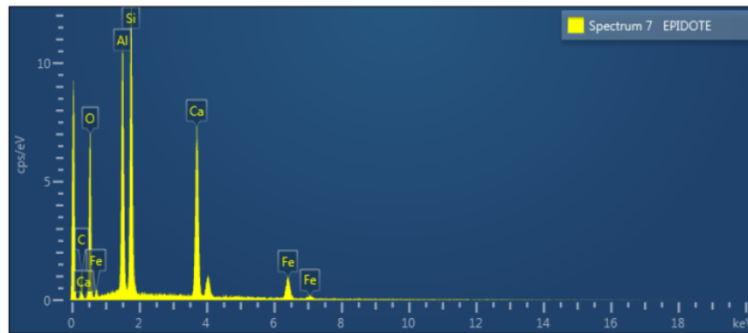


Spectrum 5 PYRITE				
Element	Line Type	Weight %	Weight % Sigma	Atomic %
S	K series	54.65	0.22	67.73
Fe	K series	45.35	0.22	32.27
Total		100.00		100.00



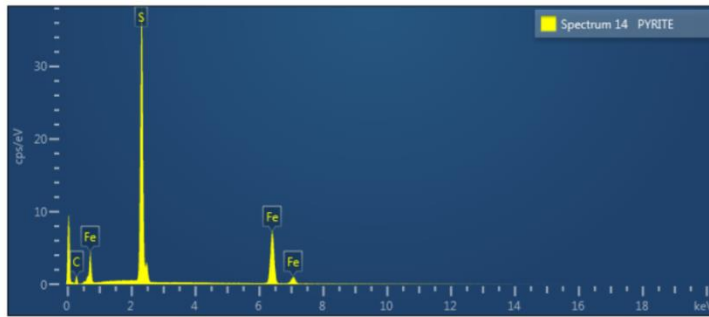
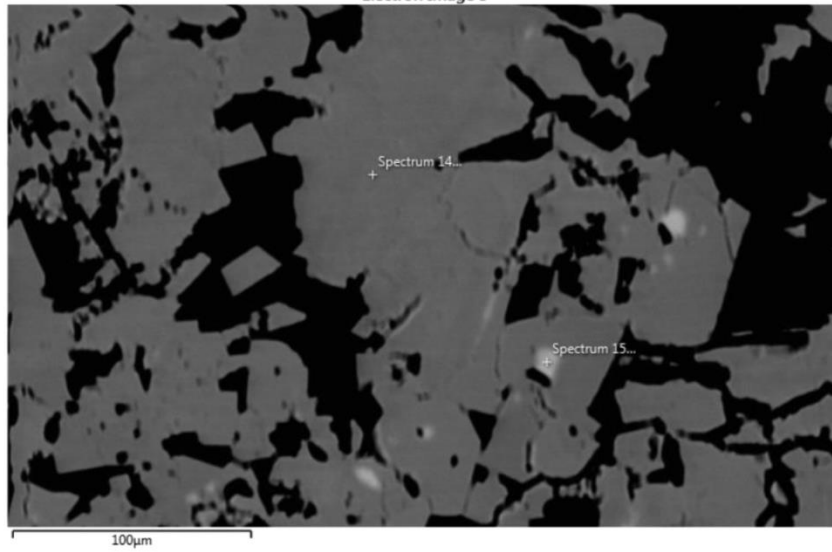


Spectrum 6 Cu-Fe-Ni-SULPHIDE				
Element	Line Type	Weight %	Weight % Sigma	Atomic %
S	K series	34.26	0.35	50.10
Fe	K series	10.59	0.26	8.89
Ni	K series	5.00	0.26	3.99
Cu	K series	50.16	0.44	37.02
Total		100.00		100.00

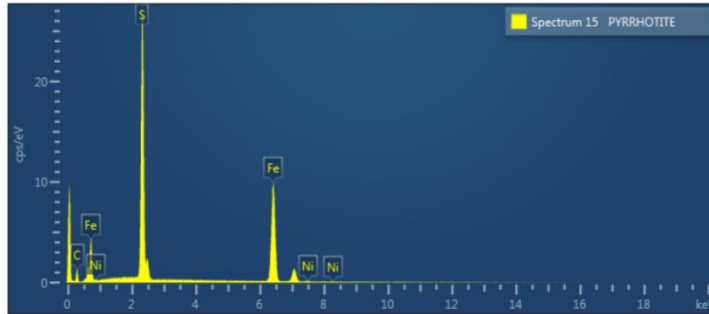


Spectrum 7 EPIDOTE							
Element	Line Type	Weight %	Weight % Sigma	Atomic %	Oxide	Oxide %	Oxide % Sigma
O	K series	42.83	0.30	60.42			
Al	K series	14.62	0.20	12.23	Al <sub>2</sub> O <sub>3</sub>	27.62	0.38
Si	K series	18.32	0.22	14.72	SiO <sub>2</sub>	39.18	0.48
Ca	K series	17.85	0.22	10.05	CaO	24.97	0.31
Fe	K series	6.39	0.24	2.58	FeO	8.22	0.31
Total		100.00		100.00		100.00	

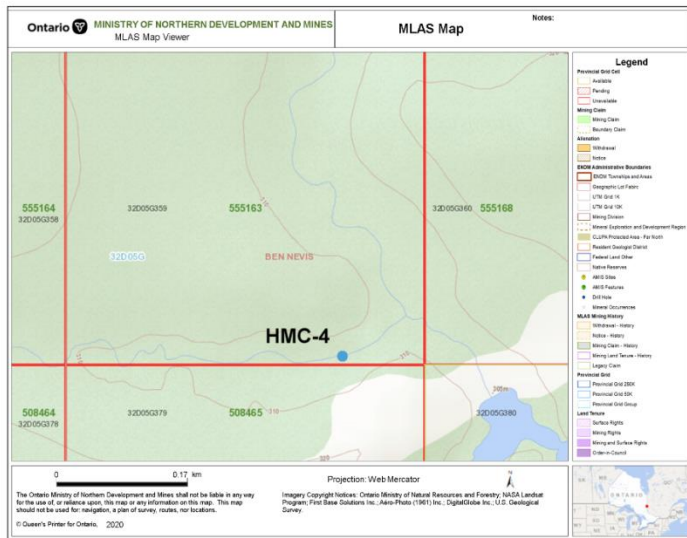
Electron Image 3



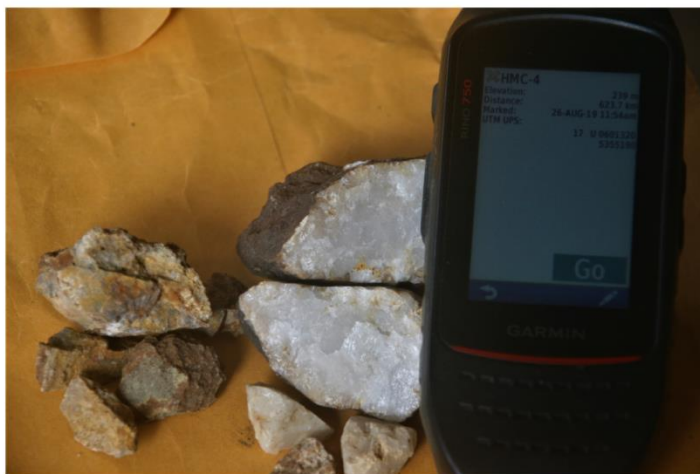
Spectrum 14 PYRITE				
Element	Line Type	Weight %	Weight % Sigma	Atomic %
S	K series	54.77	0.22	67.84
Fe	K series	45.23	0.22	32.16
Total		100.00		100.00



Spectrum 15 PYRRHOTITE				
Element	Line Type	Weight %	Weight % Sigma	Atomic %
S	K series	40.61	0.26	54.37
Fe	K series	58.49	0.27	44.97
Ni	K series	0.90	0.16	0.66
Total		100.00		100.00



Sample Location



Quartz + Hematite-rich altered rock fragments



Hematite-rich altered rock fragment 10x

**Figure 11.**  
**HMC-4 Rock Sample**  
**601320mE, 5355190mN**  
**Cell: 32D0G359**  
**Claim: 555163**



## Discussion of Results

Although a sulphide occurrence was found by this survey, no explanation could be found to explain the SZmag-1 target. The magnetic feature is covered by overburden and appears to be marked by a vegetation anomaly possibly indicating a change in rock types and soil chemistry. As a possible kimberlite target, it should be noted that kimberlite indicator minerals have been found in heavy mineral samples collected on the property including at the HMC-4 site where pyrope garnet, chromite and uvarovite garnets have been identified.

The extent of sulphide mineralization at the WP-91 site is unknown at this time without further overburden stripping. Copper, nickel, chrome, vanadium and zinc detected with the pyrite is considered only slightly anomalous. The relationship of the sulphide mineralization to the SZmag-1 target appears to be only spatial since the site is non-magnetic and magnetite or sufficient quantities of pyrrhotite were not present in the hand samples observed under microscope. Some weak conductors were found by the VLF survey, however could represent other zones of sulphide mineralization.



Based on a poor magnetic response, the boulder of fragmental basalt found just east of the SZmag-1 target is not believed to have any association with the magnetic feature.

The quartz and altered rock fragments found in the creek at the HMC-4 heavy mineral sample site are likely from a local fault/ shear zone. The sample site is believed to be within the Murdoch Creek – Kennedy Lake Fault.

## Conclusions and Recommendations

Additional exploration is required to decipher the cause of the SZmag-1 target and to identify additional zones of sulphide mineralization on the property. Further geological mapping, prospecting, heavy mineral sampling and geophysical surveys are recommended.

Respectfully Submitted,

Dr. Jim Renaud  
February 27, 2020

And,



Robert J. Dillman P.Geo., B.Sc.  
February 27, 2020

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renaugeological@execulink.com

**CERIFICATE of AUTHOR**

I, Jim A. Renaud, **Professional Geologist**, do certify that:

1. I am the President and the holder of a Certificate of Authorization for:

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21272 Denfield Rd  
London, Ontario, Canada,  
N6H 5L2**

2. I am President and CEO of Renaud Geological Consulting Ltd.;
3. That I have the degree of Bachelor of Science (Chemistry and Geology), 1999, from Western University; the degree of Honors Standing in Geology, 2000, from Western University; Masters of Science (Economic Geology), 2003, from Western University; and Doctor of Philosophy in Geology, 2014, from Western University;
4. I am an active member of:  
**Association of Professional Geoscientists of Ontario, APGO, #2211**
5. I have been a licensed Prospector in Ontario since 2000;
6. I have worked continuously as a Geologist for 18 years;
7. That I am a joint author of this report;
8. That I am jointly responsible for all sections of the Technical Report;
9. That I visited the property claims on the dates specified in this report;
10. That, as of the date of this certificate, to the best of my knowledge, information and belief, the report contains all scientific and technical information that is required to be disclosed to make the technical report not misleading;
11. I hereby consent to the filing of the report

Dated at London, Ontario, Canada  
This 10<sup>th</sup> day of November, 2019  
Jim A. Renaud, Ph.D., P.Geo.



Date February 27, 2020

**Robert J. Dillman P.Geo, B.Sc.**  
**ARJADEE PROSPECTING**  
**8901 Reily Drive, Mount Brydges, Ontario, Canada, N0L1W0**  
**Phone/ fax (519) 264-9278**

**CERIFICATE of AUTHOR**

I, **Robert J. Dillman, Professional Geologist**, do certify that:

1. I am the **President** and the holder of a **Certificate of Authorization** for:

**ARJADEE PROSPECTING**  
**8901 Reily Drive**  
**Mount Brydges, Ontario, Canada**  
**N0L1W0**

2. I graduated in 1991 with a **Bachelor of Science Degree** in **Geology** at the **University of Western Ontario**.

3. I am an active member of:

**Association of Professional Geoscientists of Ontario, APGO**  
**Prospectors and Developers Association of Canada, PDAC**

4. I have been a **licensed Prospector in Ontario** since 1985.

5. I have worked continuously as a **Professional Geologist** for 28 years.

6. I am a joint author of this report titled:


**GEOLOGICAL REPORT ON ON THE “B” TARGET**  
**FIELD OF DREAMS PROPERTY, LARDER LAKE MINING DIVISION**  
**HOLLOWAY-TANNAHILL TOWNSHIPS, ONTARIO**

**dated, February 27, 2020**

7. I am jointly responsible for all sections of the Technical Report.

8. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report that is not contained in the Assessment Report and its omission to disclose makes the Assessment Report misleading.

**Dated this 27th day of February, 2020**

  
Robert James Dillman P.Geo  
Arjadee Prospecting





**Appendix 1.**

**UTM Coordinates for Survey Lines: SZmag-1 Target**

**SZ Property**

**Ben Nevis Township, Ontario**

**NAD 87, Zone 17**

<b>Line</b>	<b>3+00S</b>	<b>2+00S</b>	<b>1+00S</b>	<b>0+00</b>	<b>1+00N</b>	<b>2+00N</b>	<b>2+50N</b>
0+00				599898mE 5355895mN	599902mE 5356000mN	599903mE 5356103mN	599905mE 5356152mN
0+50W			599854mE 5355789mN	599857mE 5355888mN	599856mE 5355989mN		
1+00W	599797mE 5355597mN	599798mE 5355700mN	599803mE 5355795mN	599809mE 5355897mN	599818mE 5355994mN	599813mE 5356068mN	599805mE 5356147mN
1+50W			599745mE 5355792mN	599747mE 5355893mN	599754mE 5355992mN		
2+00W	599687mE 5355591mN	599696mE 5355697mN	599687mE 5355791mN	599698mE 5355894mN	599707mE 5355996mN		



**ANALYSIS REPORT BBM20-01945**

To COD SGS MINERALS - GEOCHEM VANCOUVER  
RJD EXPLORATIONS - ROBERT DILLMAN  
SGS CANADA INC  
WEST WING 5825 EXPLORER DRIVE  
MISSISSAUGA L4W 5P6  
ON  
CANADA

Order Number	PO:	Date Received	17-Jan-2020
Submission Number	RJD Explorations/ 7 Core	Date Analysed	24-Jan-2020 - 02-Jul-2020
Number of Samples	7	Date Completed	10-Feb-2020
		SGS Order Number	BBM20-01945

**Methods Summary**

Number of Sample	Method Code	Description
7 4	G_LOG	Sample Registration Fee
7 4	G_WGH_KG	Weight of samples received
7 4	GE_FAI50V5	Au, Pt, Pd, FAS, exploration grade, ICP-AES, 50g-5mL
7 4	GE_ICP22B20	2 Acid Digest (HCL/HNO3); ICP-AES, 0.25g-20mL
7 2	GE_ICP91A50	Na2O2/NaOH Fusion, 500°C, HNO3, ICPAES, 0.1g-50ml, Glassy Carbon cruci
7 2	GE_IMS91A50	Na2O2/NaOH Fusion, ICP-MS, 0.1g-50ml, Glassy Carbon crucibles
7 4	PERC_PUL	Percent passing screen after pulverizing
7 4	PERC_CRU	Percent passing screen after crushing

**NOTE: Samples SZ-1 to SZ-3, HMC-4 and only pages 1 to 4 and 8 pertain to this report.**

Authorised Signatory

John Chiang  
Laboratory Operations  
Manager

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- not analysed | - element not determined | I.S. insufficient sample | L.N.R. listed not received

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Page 1 of 8

MIN-M\_COA\_ROW-Last Modified Date: 05-Nov-2019

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Order Number PO:  
 Submission Number RJD Explorations/ 7 Core  
 Number of Samples 7

**ANALYSIS REPORT BBM20-01945**

Element	Wt/kg	@Au	@Pt	@Pd	Ag	Al
Method	G_WGH_KG	GE_FAI50V5	GE_FAI50V5	GE_FAI50V5	GE_ICP22B20	GE_ICP22B20
Lower Limit	0.01	1	10	1	2	0.01
Upper Limit	-	10,000	10,000	10,000	10	15
Unit	kg	ppb	ppb	ppb	ppm m / m	%
SZ-1	0.80	17	<10	1	<2	4.16
SZ-2	0.42	10	<10	1	<2	3.98
SZ-3	0.87	2	<10	<1	<2	3.38
HMC-4	0.59	7	<10	<1	-	-
*Std PGMS-27	-	5150	1370	2150	-	-
*Rep SZ-4	-	134	<10	<1	-	-
*Blk BLANK	-	2	<10	<1	-	-
*Rep SZ-3	-	-	-	-	<2	3.49
*Blk BLANK	-	-	-	-	<2	<0.01
*Std OREAS 502b	-	-	-	-	2	1.95

Element	As	Ba	Be	Bi	Ca	Cd
Method	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20
Lower Limit	3	5	0.5	5	0.01	1
Upper Limit	10,000	10,000	2,500	10,000	15	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	%	ppm m / m
SZ-1	19	<5	<0.5	<5	2.01	1
SZ-2	10	<5	<0.5	<5	2.18	<1
SZ-3	<3	45	<0.5	<5	1.57	<1
*Rep SZ-3	<3	45	<0.5	<5	1.58	<1
*Blk BLANK	<3	<5	<0.5	<5	<0.01	<1
*Std OREAS 502b	24	334	<0.5	<5	1.00	<1

- not analysed | -- element not determined | I.S. Insufficient sample | L.N.R. listed not received



Order Number PO:  
 Submission Number RJD Explorations/ 7 Core  
 Number of Samples 7

**ANALYSIS REPORT BBM20-01945**

Element	Co	Cr	Cu	Fe	Hg	K
Method	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20
Lower Limit	1	1	0.5	0.01	1	0.01
Upper Limit	10,000	10,000	10,000	15	10,000	15
Unit	ppm m / m	ppm m / m	ppm m / m	%	ppm m / m	%
SZ-1	45	136	111	8.68	<1	0.01
SZ-2	38	149	53.3	6.29	<1	0.01
SZ-3	25	25	149	4.74	<1	0.12
*Rep SZ-3	24	26	149	4.86	<1	0.13
*Blk BLANK	<1	<1	<0.5	<0.01	<1	<0.01
*Std OREAS 502b	16	79	7692	4.87	<1	0.91

Element	La	Li	Mg	Mn	Mo	Na
Method	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20
Lower Limit	0.5	1	0.01	2	1	0.01
Upper Limit	10,000	10,000	15	10,000	10,000	15
Unit	ppm m / m	ppm m / m	%	ppm m / m	ppm m / m	%
SZ-1	2.2	16	1.89	762	<1	0.08
SZ-2	2.2	15	1.74	705	<1	0.09
SZ-3	3.5	15	2.59	555	<1	0.08
*Rep SZ-3	3.5	16	2.67	571	1	0.08
*Blk BLANK	<0.5	<1	<0.01	<2	<1	0.01
*Std OREAS 502b	29.2	29	1.18	361	220	0.12

Element	Ni	P	Pb	S	Sb	Sc
Method	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20
Lower Limit	1	0.01	2	0.01	5	0.5
Upper Limit	10,000	15	10,000	5	10,000	10,000
Unit	ppm m / m	%	ppm m / m	%	ppm m / m	ppm m / m
SZ-1	143	0.04	14	4.15	<5	9.2
SZ-2	154	0.04	8	2.05	<5	9.2
SZ-3	45	0.04	4	1.13	<5	5.0
*Rep SZ-3	44	0.05	5	1.10	<5	4.9
*Blk BLANK	<1	<0.01	<2	<0.01	<5	<0.5
*Std OREAS 502b	35	0.10	23	1.02	<5	6.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

10-Feb-2020 2:58PM BBM\_U0001752146

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MIN-M\_COA\_ROW-Last Modified Date: 05-Nov-2019

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Order Number  
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Number of Samples

PO:  
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7

**ANALYSIS REPORT BBM20-01945**

Element	Sn	Sr	Ti	V	W	Y
Method	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20	GE_ICP22B20
Lower Limit	10	0.5	0.01	1	10	0.5
Upper Limit	10,000	10,000	15	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	%	ppm m / m	ppm m / m	ppm m / m
SZ-1	<10	7.3	0.25	122	<10	5.7
SZ-2	<10	7.2	0.22	116	<10	5.9
SZ-3	<10	20.3	0.31	98	<10	3.3
*Rep SZ-3	<10	21.0	0.31	97	<10	3.4
*Blk BLANK	<10	<0.5	<0.01	<1	<10	<0.5
*Std OREAS 502b	<10	57.7	0.28	118	<10	12.9

Element	Zn	Zr	@Al	@Ba	@Be	@Ca
Method	GE_ICP22B20	GE_ICP22B20	GE_ICP91A50	GE_ICP91A50	GE_ICP91A50	GE_ICP91A50
Lower Limit	1	0.5	0.01	10	5	0.1
Upper Limit	10,000	10,000	25	10,000	2,500	25
Unit	ppm m / m	ppm m / m	%	ppm m / m	ppm m / m	%
SZ-1	86	20.7	-	-	-	-
SZ-2	67	19.8	-	-	-	-
SZ-3	35	8.6	-	-	-	-
FELSIC-1	-	-	5.12	138	<5	0.3
FELSIC-2	-	-	5.09	165	<5	0.3
*Blk BLANK	-	-	<0.01	<10	<5	<0.1
*Rep FELSIC-1	-	-	4.99	138	<5	0.3
*Std OREAS 681	-	-	7.69	455	<5	6.3
*Rep SZ-3	36	8.2	-	-	-	-
*Blk BLANK	<1	<0.5	-	-	-	-
*Std OREAS 502b	114	9.7	-	-	-	-

Element	@Cr	@Cu	@Fe	@K	@Li	@Mg
Method	GE_ICP91A50	GE_ICP91A50	GE_ICP91A50	GE_ICP91A50	GE_ICP91A50	GE_ICP91A50
Lower Limit	10	10	0.01	0.1	10	0.01
Upper Limit	50,000	10,000	25	25	50,000	25
Unit	ppm m / m	ppm m / m	%	%	ppm m / m	%

- not analysed | - element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number PO:  
Submission Number RJD Explorations/ 7 Core  
Number of Samples 7

## ANALYSIS REPORT BBM20-01945

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at <https://www.scc.ca/en/search/laboratories/sgs>  
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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