



Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

BC Geological Survey Assessment Report 38177



Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: TECHNICAL - PROSPECTING

TOTAL COST: \$2569.95

AUTHOR(S): KEN ELLERBECK

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): EVENT 5728634, JAN 29-2019

PROPERTY NAME: BARN

CLAIM NAME(S) (on which the work was done): 1062610 BARNUM SOUTH

COMMODITIES SOUGHT: Au Ag Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092INE128 MOT

MINING DIVISION: KAMLOOPS

NTS/BCGS: 092I09E 092I070

LATITUDE: 50 ° 37 '22.7 " LONGITUDE: 120 ° 7 '33.5 " (at centre of work)

OWNER(S):

1) KEN ELLERBECK

2) _____

MAILING ADDRESS:

255 BATTLE STREET WEST, KAMLOOPS, BC V2C 1G8

OPERATOR(S) [who paid for the work]:

1) KEN ELLERBECK

2) _____

MAILING ADDRESS:

255 BATTLE STREET WEST, KAMLOOPS, BC V2C 1G8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Argillite, Brecciated Argillite, Feldspar Porphyry Dike, Biotite Feldspar Porphyry, Granodiorite.

Fault-Upper Tr. Nicola Undefined./Jurassic Wild Horse Gd Intrusion. Pyrite, Pyrrhotite, Molybdenite, Quartz, Carbonate

Disseminated, Vein Porphyry, Hydrothermal, Epigenetic Type: I01: Au-quartz veins, L04: Porphyry Cu +/- Mo +/- Au

brecciated argillite cut by a pyritic feldspar porphyry dike containing quartz veinlets.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: _____

3616, *4315, 8635, 8739, 9881, *17556

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			\$2569.95
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
TOTAL COST:			\$2569.95

KEN ELLERBECK

(Owner & Operator)

TECHNICAL EXPLORATION REPORT

(Event # 5728634)
on

PROSPECTING and EXPLORING

Work done on

Tenures 1062610

of the 3 Claim

BARN CLAIM GROUP

Kamloops Mining Division
BCGS Map 092I.070 NTS Map 092I09E

Centre of Work
UTM 10 0703271E 5611854N

AUTHOR KEN ELLERBECK, PMP

REPORT SUBMITTED February 8, 2019

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INTRODUCTION

PURPOSE

In December 2018 a prospecting program was completed on Tenure 1062610 of the 3 claim BARN CLAIM GROUP. The purpose was to locate, if possible, historic reported geological features (Au, Ag, Cu bearing structures) as well as to prospect for unidentified outcrops and showings of significance.

Report information was obtained from Selected References and from a December 17, 2018 property examination.

ACCESS AND LOCATION

The property is located 25 km. east of downtown Kamloops, BC.

Access is via East Trans Canada Highway east from Kamloops, BC to the Barnhartvale turnoff, then southeast on the Barnhartvale Road for 9 km. A network of gravel and dirt roads give access to most areas of the claim. The claim is situated on Crown Land but access is via gravel road crossing private property. Permission is required for access but not for exploration.

PHYSIOGRAPHY

The property is located in the Interior Plateau of southern British Columbia. Topography is gentle to steep and elevation varies from 650 to 699 metres above sea level.

Snowfall is not excessive and water is available from Campbell Creek. Temperatures range from +35C to -25C but are generally moderate.

Vegetation consists of bunch grass, open grassy meadows and lightly forest-covered areas of pine and fir trees.

Kamloops is an historic mining center and is a reliable source of experienced and reliable exploration and mining personnel and mining related equipment.

PROPERTY DESCRIPTION

BARN Claim Group

<u>Tenure Number</u>	<u>Type</u>	<u>Claim Name</u>	<u>Good Until</u>	<u>Area (ha)</u>
1038694	Mineral	BARNUM	20231231	20.499
1042882	Mineral	PT	20231231	20.5008
1062610	Mineral	BARNUM SOUTH	20231231	41.0052

Figure 1 LOCATION MAP from MTO Mapbuilder

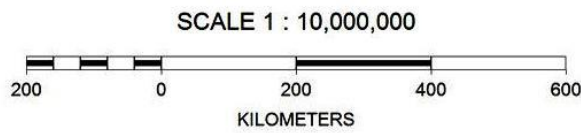


Figure 2 CLAIM LOCATION MAP (Base Map GOOGLE EARTH)

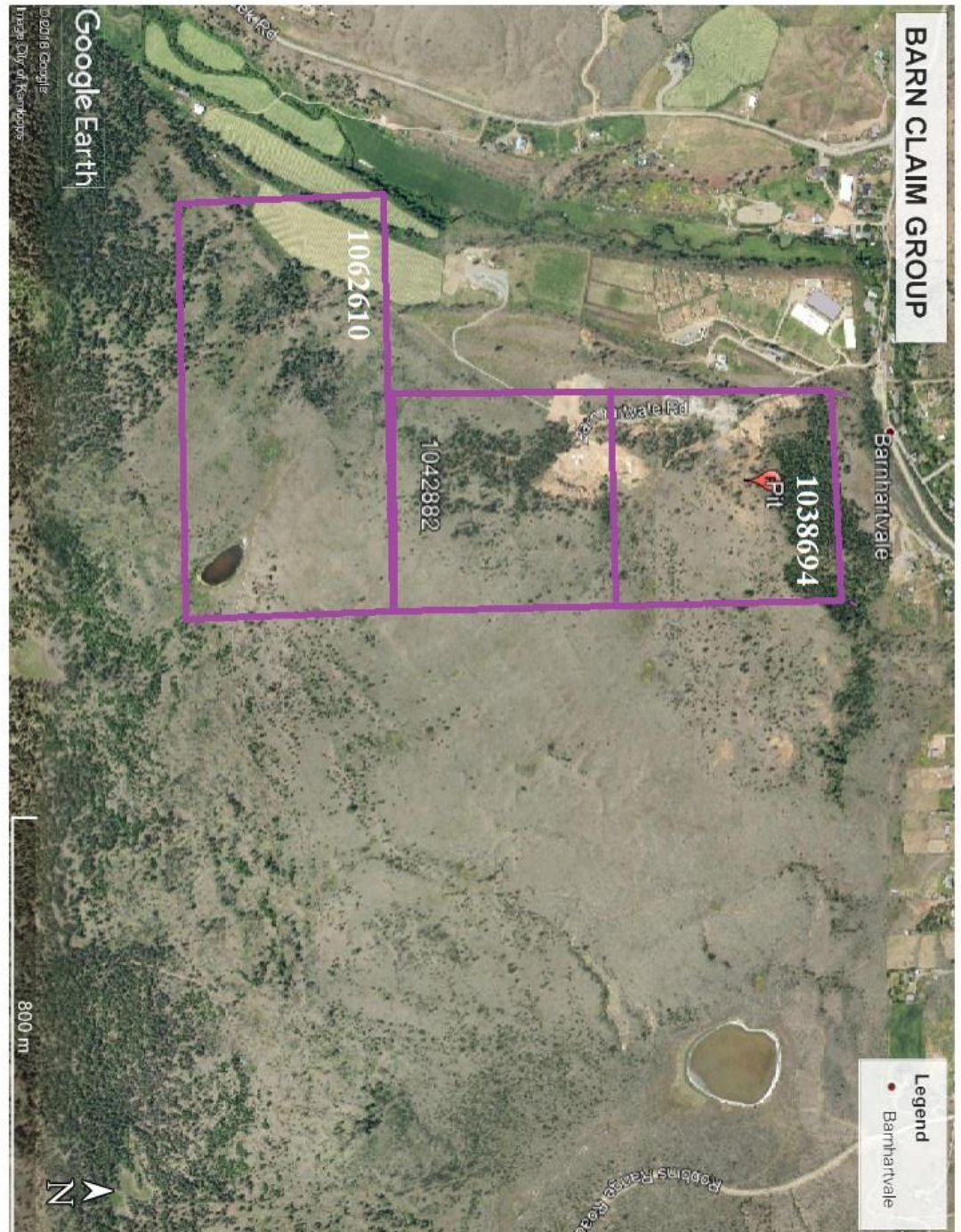


Figure 3 Regional Location Map (Base Map GOOGLE EARTH)

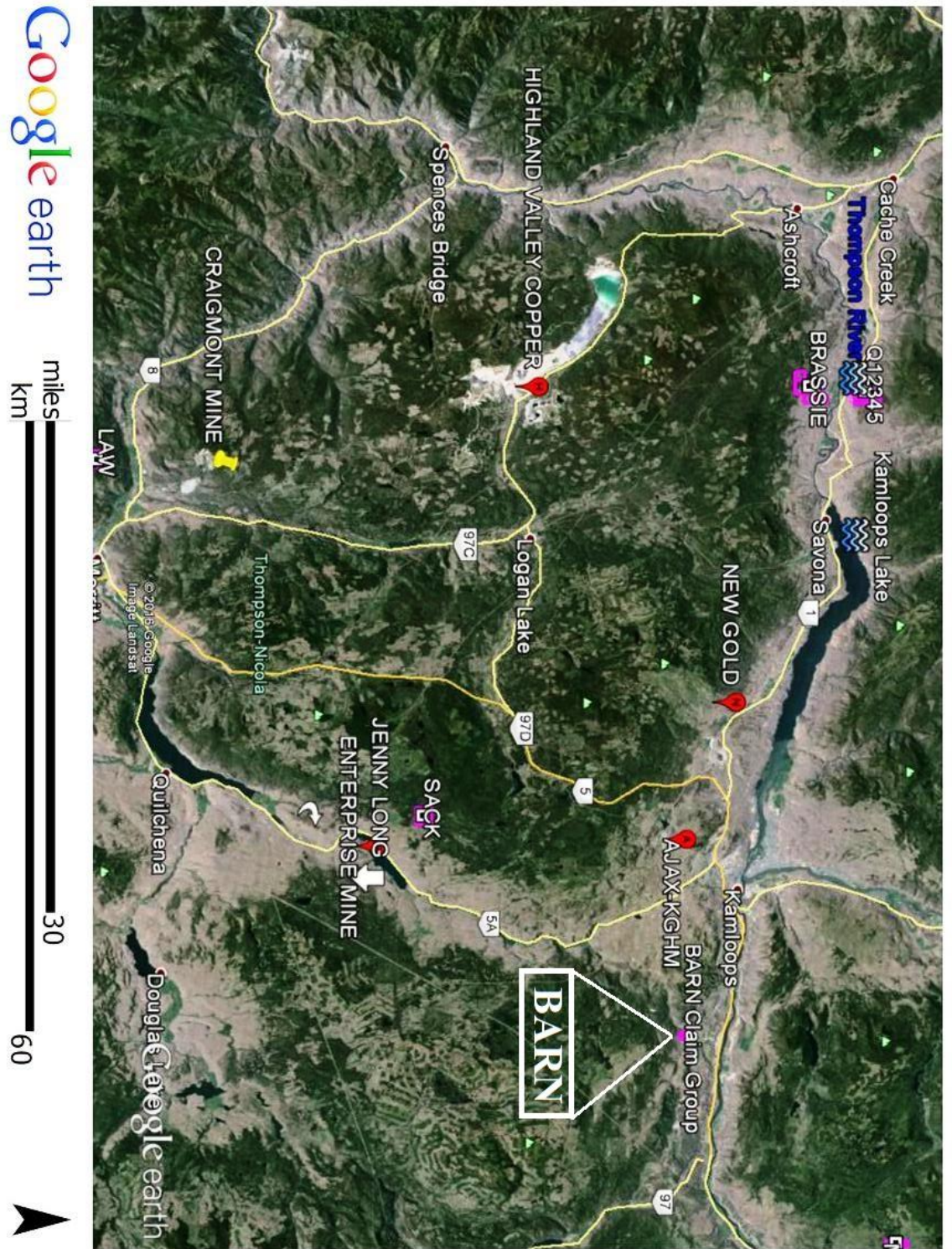
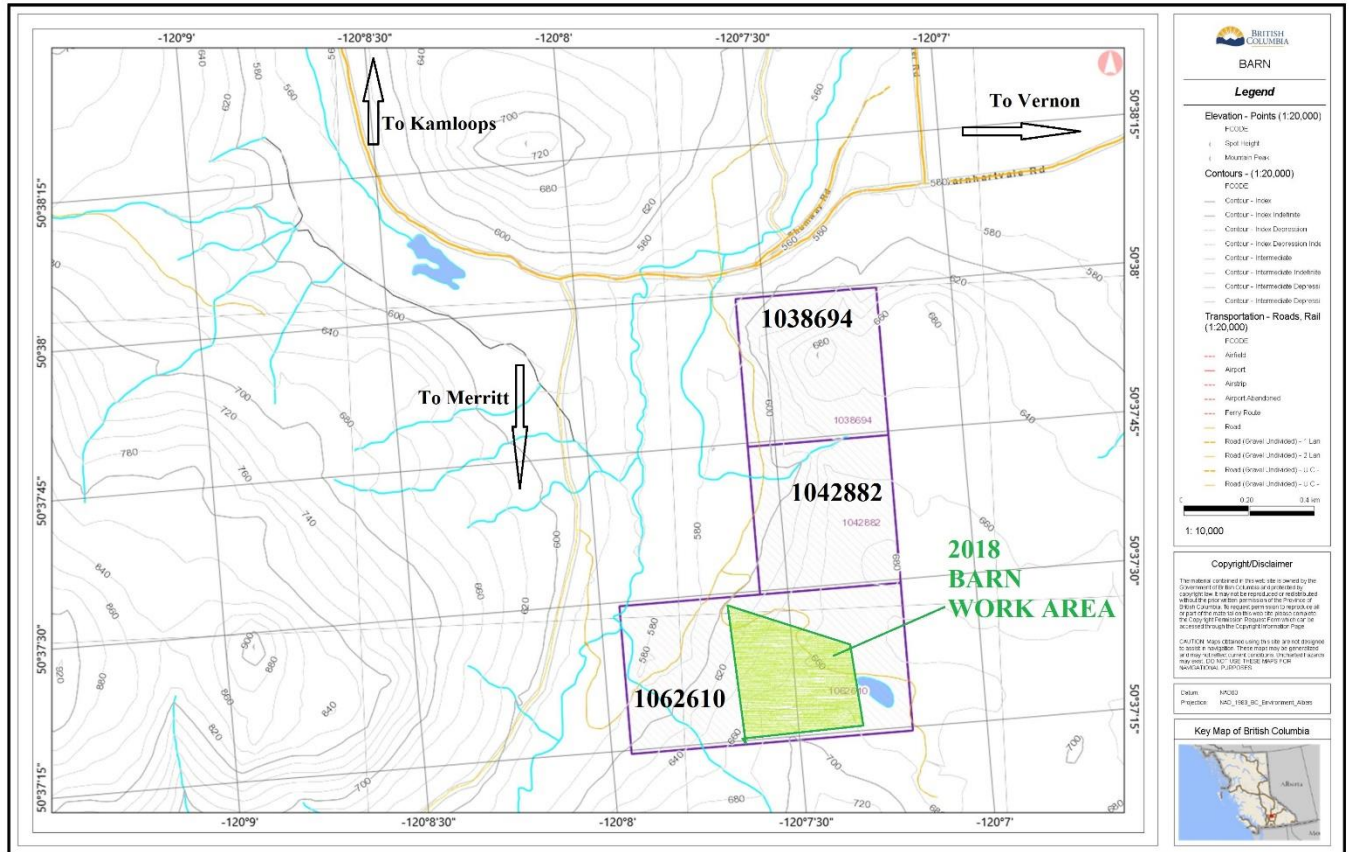


Figure 4 Claim Map and Index Map



HISTORY

From Minfile 092INE128:

The MOT property is located near the fault contact between argillites of the Upper Triassic Nicola Group and granodiorite of the Jurassic Wild Horse batholith. Nicola rocks are highly fractured and brecciated and in places veined with fine quartz stringers and segregations. Feldspar porphyry dikes, with fine pyrite and pyrrhotite, cut the argillites. A 1988 diamond-drill hole (JAG 1-88) intersected highly fractured and brecciated argillite with local zones healed with quartz-carbonate. One of these zones analyzed 8.6 grams per tonne gold over 1.5 metres. Another hole (JAG 4-88) intersected brecciated argillite cut by a pyritic feldspar porphyry dike containing quartz veinlets which analysed up to 1.6 grams per tonne gold (Assessment Report 17556).

About 500 metres northwest of the drilled area, on the north side of the road to Barnhart Vale, some outcrops of biotite feldspar porphyry contain small clots of molybdenite.

Trenching on the property suggests prospecting in the early 1900s but there are no known records of it. In 1971, regional prospecting by Copper Range Exploration Company, Inc. discovered anomalous copper-gold values in rocks and staked the Mot 9-30 claims. Follow-up work consisted of geological mapping and soil (71) and rock chip sampling. In 1973, geological

mapping and soil sampling (61) was conducted by Copper Range Exploration Company, Inc. In 1975, the property was restaked by R.A. Dickenson who carried out a small sampling program. In 1979, the Carlin 2 claim was staked by R.A. Dickenson and in that year prospecting carried out on behalf of T. Alexander. In 1980-81, Vantex Resources Inc. optioned the property and carried out a program of soil sampling and VLF-EM surveys.

In 1988, a program of 31.2 kilometres of VLF-EM and magnetometer surveys, geological mapping, 21.6 kilometres of grid establishment and six diamond-drill holes totalling 361.8 metres were completed on the Barn claim on behalf of Jaguar Equities Inc.

The BARN Claim Group was acquired by online staking by the Author and Current Owner on September 20, 2015 (1038694) and March 16, 2016 (1042882) and August 26, 2018 (1062610). See Page 3 of this report for Tenure list.

SUMMARY OF WORK DONE December 17, 2018

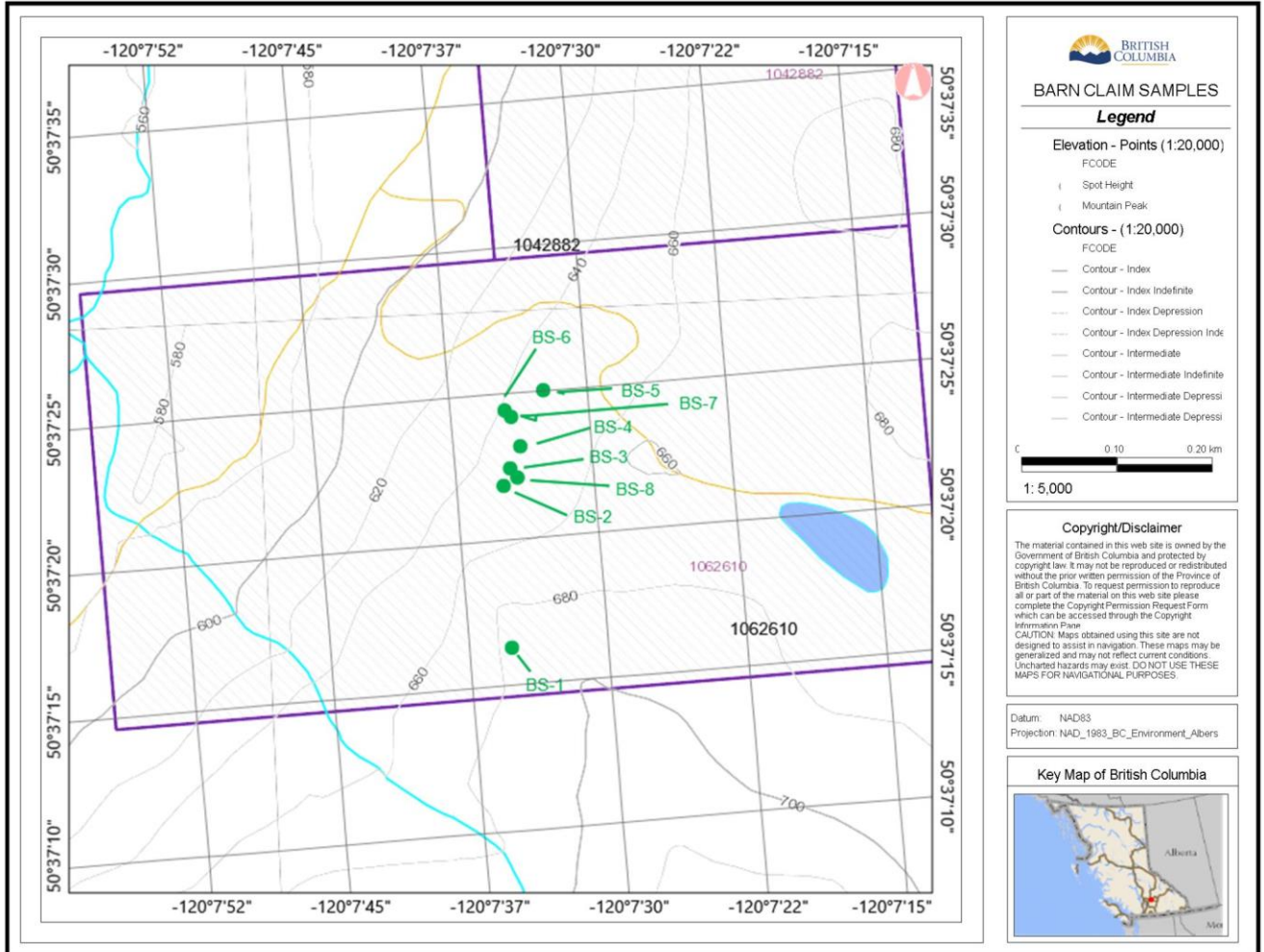
Prospecting was conducted on 1062610 on December 17, 2018. (Figure 4 Index - Work Areas).

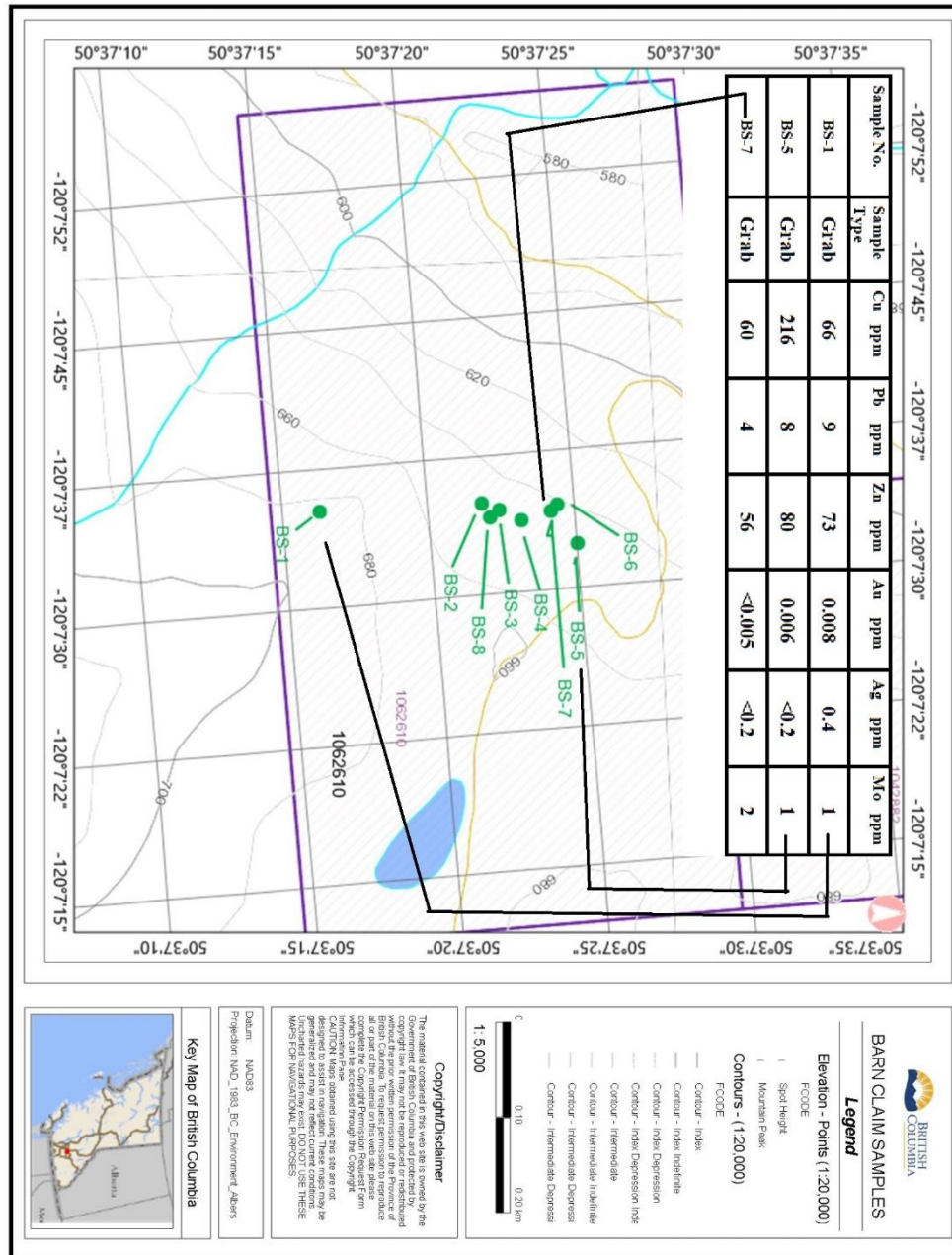
Bedrock/outcrop was sampled within 1062610.

Eight (8) grab samples were collected and three (3) samples were sent to ALS for assaying.

One (1) field day was spent on the claim, including prospecting and travelling to and from the property. One (1) day was spent researching reference material, and a further two (2) days were spent compiling data, drafting and writing this report.

Figure 5 Sample Location Area Map 1062610





December 2018 WORK PROGRAM

Sampling Program - The author was on the BARN Claim Group in December 2018 to select rock samples from Tenure 1062610 to determine if valuable mineralization is present and to understand the geology on the Property. Eight (8) rock grab samples were taken from Tenure 1062610 to check for possible mineralization within the claim group. Three (3) grab samples were submitted for assay.

Table I. Particulars of Grab Samples - ELLERBECK (2018) BARN

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION – OUTCROP
			Unless indicated other
BS-1 to Lab	0703254	5611640	Black argillite-iron stained. Quartz veinlets. Fractured, layered, brittle. Very hard-chertlike. No visible metal. Quartz inclusions - eyes. Dip Strike undetermined. 20 m. length x 10 m. wide outcrop.
BS-2	0702354	5611816	Old stream bank. Highly altered argillite? Porphyry appearance. Black, dark brown. Hematite? E/W strike. Dip unclear. No visible metal.
BS-3	0703260	5611832	Appears to be bedrock. Quartz feldspar porphyry, light tan to pinkish, minor biotite, slight iron stain. Very soft. No visible metal. Dip/strike unclear.
BS-4	0703271	5611854	Outcrop. Mudstone, siltstone. Brownish. Fine grained. Soft. No visible metal. Dip and strike unclear
BS-5 to Lab	0703299	5611912	Breccia/conglomerate/cementation. Iron staining. Black argillite composition. Crumbly/Brittle components/no planes. Irregular cleavage. No Visible metal. Dip/Strike unclear.
BS-6	0703259	5611894	Float. Biotite feldspar porphyry?. Whitish. Surface weathered. No visible metal.
BS-7 To Lab	0703261	5611889	Float. Quartz Feldspar porphyry. No biotite. Blackish. Rust stained. No visible metal.
BS-8	0703260	5611826	Appears outcrop. Grey-green argillite. Highly siliceous. Very hard. Fine grained/no planes. Fractures random-calcite in fractures? No visible metals.

FIGURE 6

LOCATION AND TYPICAL ROCK PICTURES

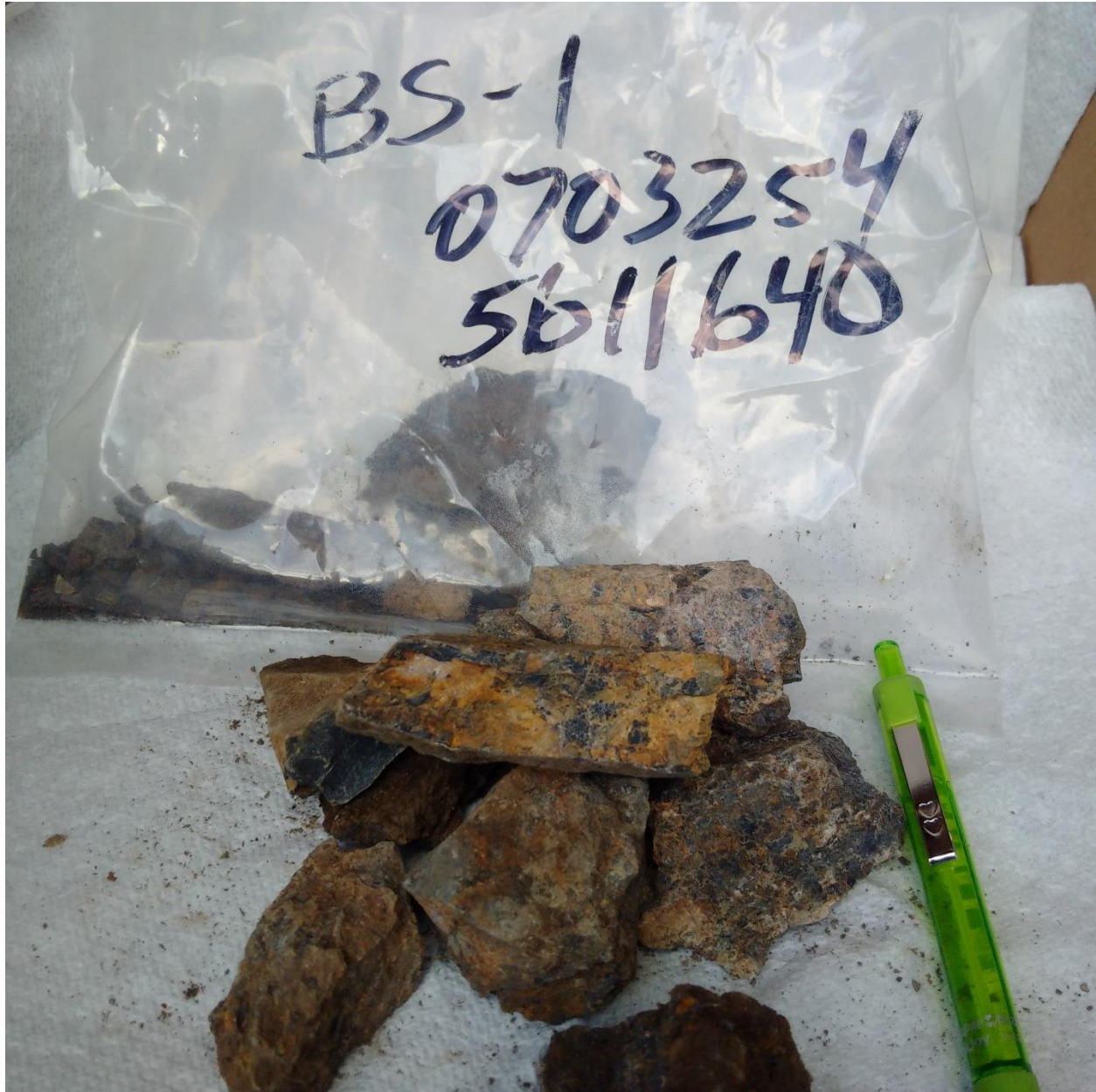
1 LOCATION AND TYPICAL ROCK PICTURE to Lab



1 LOCATION AND TYPICAL ROCK PICTURE to Lab



1 LOCATION AND TYPICAL ROCK PICTURE to Lab



2 LOCATION AND TYPICAL ROCK PICTURE



2 LOCATION AND TYPICAL ROCK PICTURE



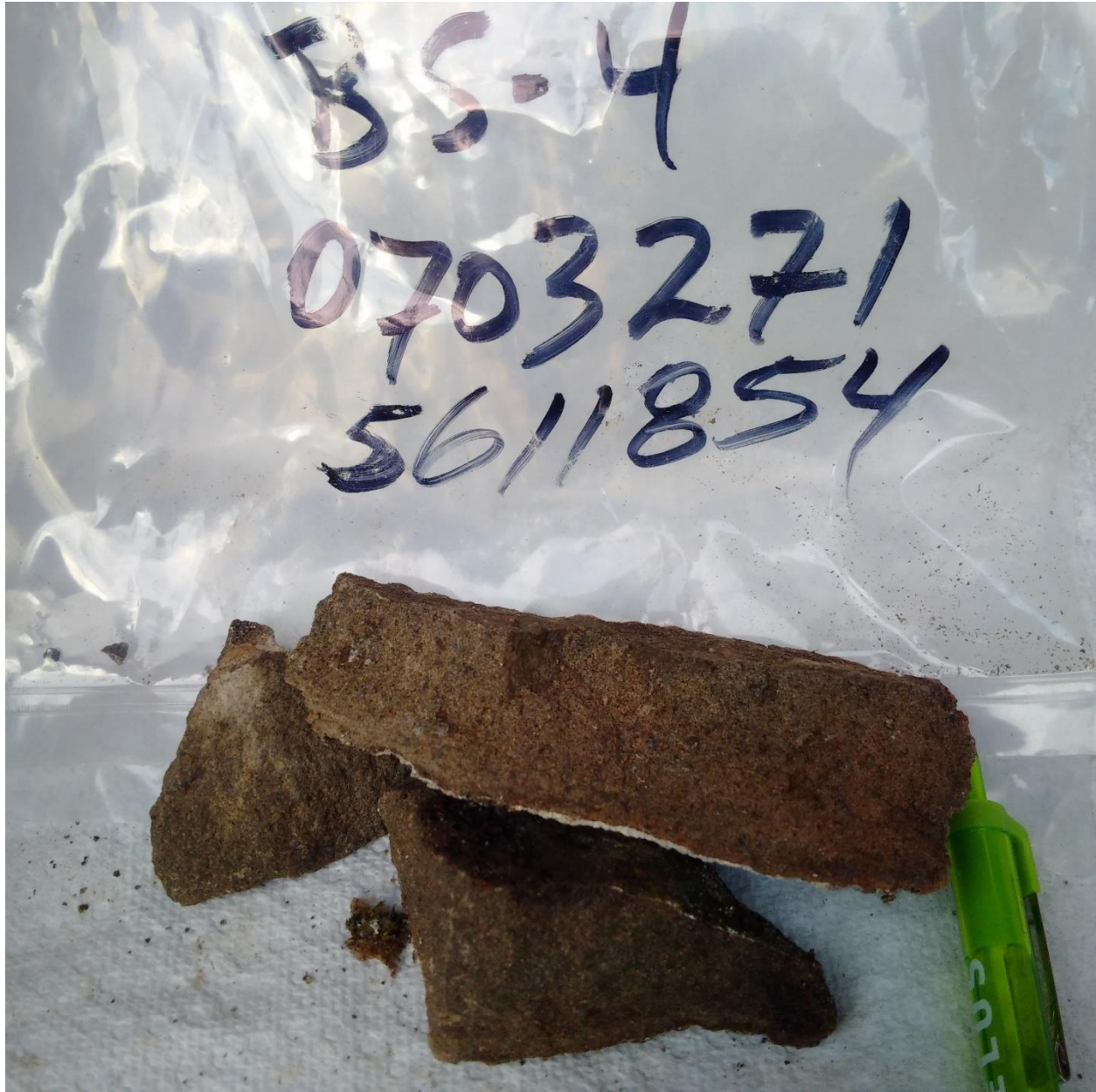
3 LOCATION AND TYPICAL ROCK PICTURE



3 LOCATION AND TYPICAL ROCK PICTURE



4 LOCATION AND TYPICAL ROCK PICTURE



5 LOCATION AND TYPICAL ROCK PICTURE – to Lab



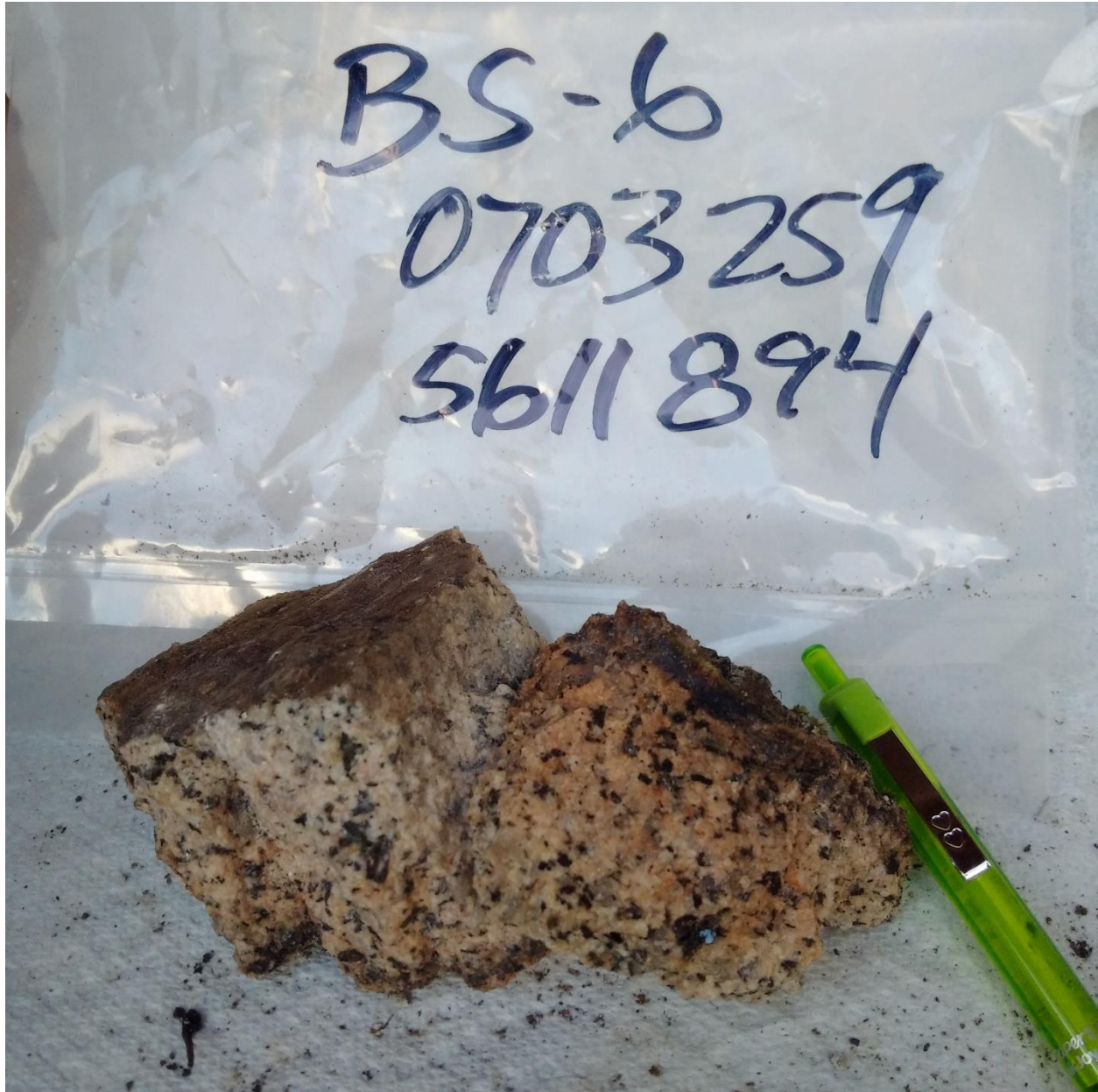
5 LOCATION AND TYPICAL ROCK PICTURE – to Lab



6 LOCATION AND TYPICAL ROCK PICTURE



6 LOCATION AND TYPICAL ROCK PICTURE



7 LOCATION AND TYPICAL ROCK PICTURE – to Lab



8 LOCATION AND TYPICAL ROCK PICTURE



8 LOCATION AND TYPICAL ROCK PICTURE



SUMMARY OF REGIONAL AND PROPERTY GEOLOGY

REGIONAL GEOLOGY

From AR08635, Sawyer Consultants, for T. Alexander, May 1979

GEOLOGY

The Carlin 2 (now in BARN Claim Group) claim area is underlain by a mixed assemblage of Palaeozoic sediments of the Cache Creek group, younger intrusive rocks of presumed Cretaceous age, and Tertiary sediments and volcanic rocks of the Kamloops Group.

Cache Creek Group

Sediments of this unit underlie the greater part of the Carlin 2 claim area and include medium to dark coloured, fairly thin bedded argillite, with, in places, chert horizons, as well as some beds of a medium grained greywacke and minor limestone. All of the rocks of the Cache Creek group are highly fractured and brecciated.

Intrusive Rocks

The area is host to a number of igneous intrusions which are assumed to be part of the Cretaceous Coast Intrusions. Some of them may be Tertiary in age. A large granodiorite body, Horse Mountain batholith, lies immediately to the west however at this stage this intrusive does not appear to bear any relationship to the alteration and pyritization which is associated with the gold mineralization. Numerous dykes of feldspar porphyry cut the Cache Creek sediments and are generally associated with finely disseminated pyrite and minor pyrrhotite with attendant rusty limonitic weathering. One such dyke intrudes the Cache Creek sediments on the main hill area and is exposed in some of the trenches there. At this location this feldspar porphyry dyke is cut by numerous quartz stringers and veinlets and it is with these rocks that the gold mineralization appears to be associated. According to the later Copper Range Exploration workers a biotite feldspar porphyry intrusive outcrops one quarter mile north of the intersection of the BarnhartVale and Campbell Creek roads and contains fine grains of disseminated pyrite and pyrrhotite and small amounts of molybdenite however it does not exhibit any quartz stockwork.

A more massive intrusive of dioritic appearance outcrops along the main road at Barnhartvale. It has a weathered appearance with the mafic minerals being chloritized but does not appear to include any extensive quartz veining, nor, as far as is known, to be associated with any gold mineralization.

Kamloops Group

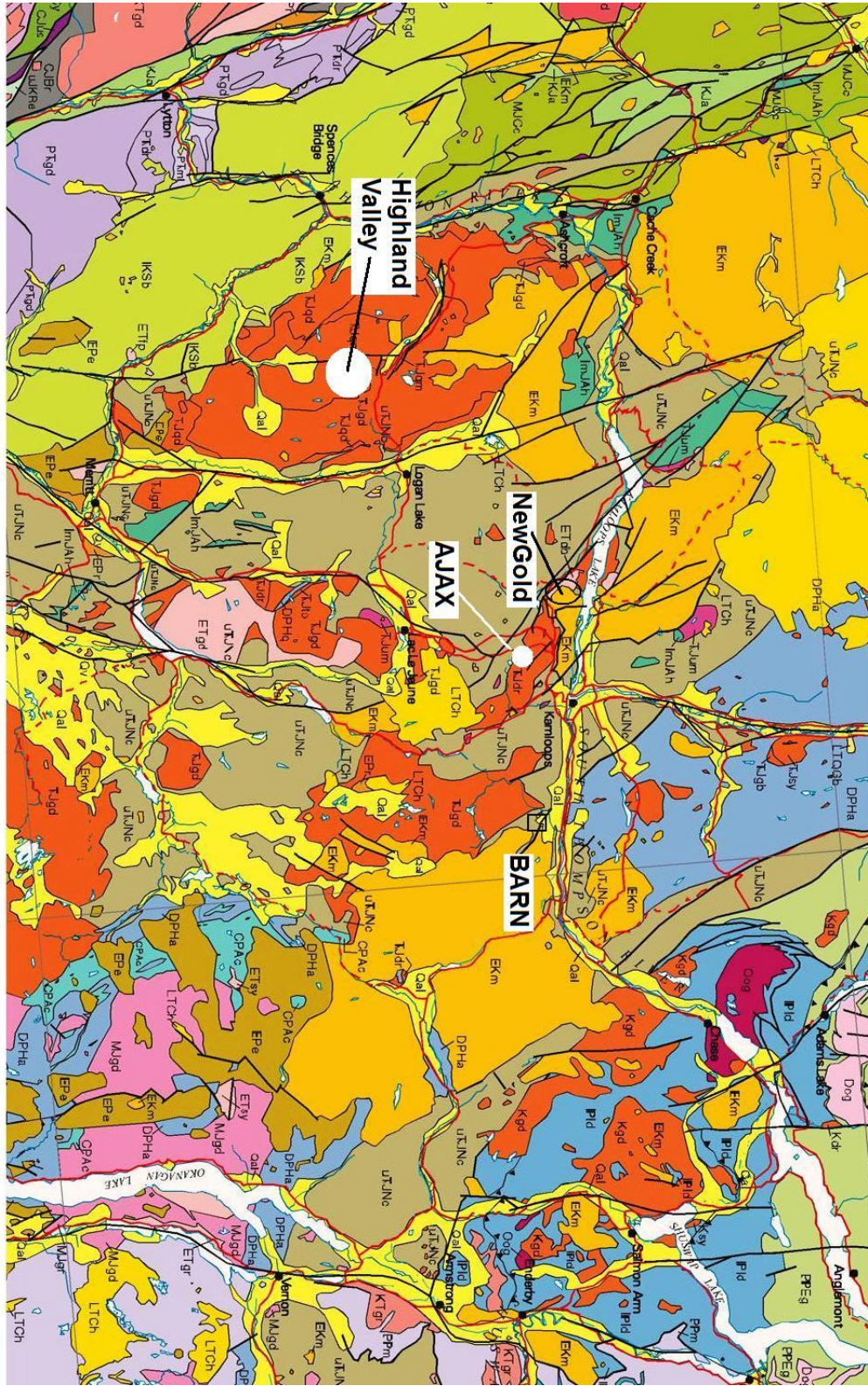
Tranquille Beds - According to Purdy, of Copper Range Exploration Company Inc., beds of Tranquille conglomerate are exposed on the downthrown side of a north-northeast striking fault approximately 1800 feet east of Barnhart Vale.

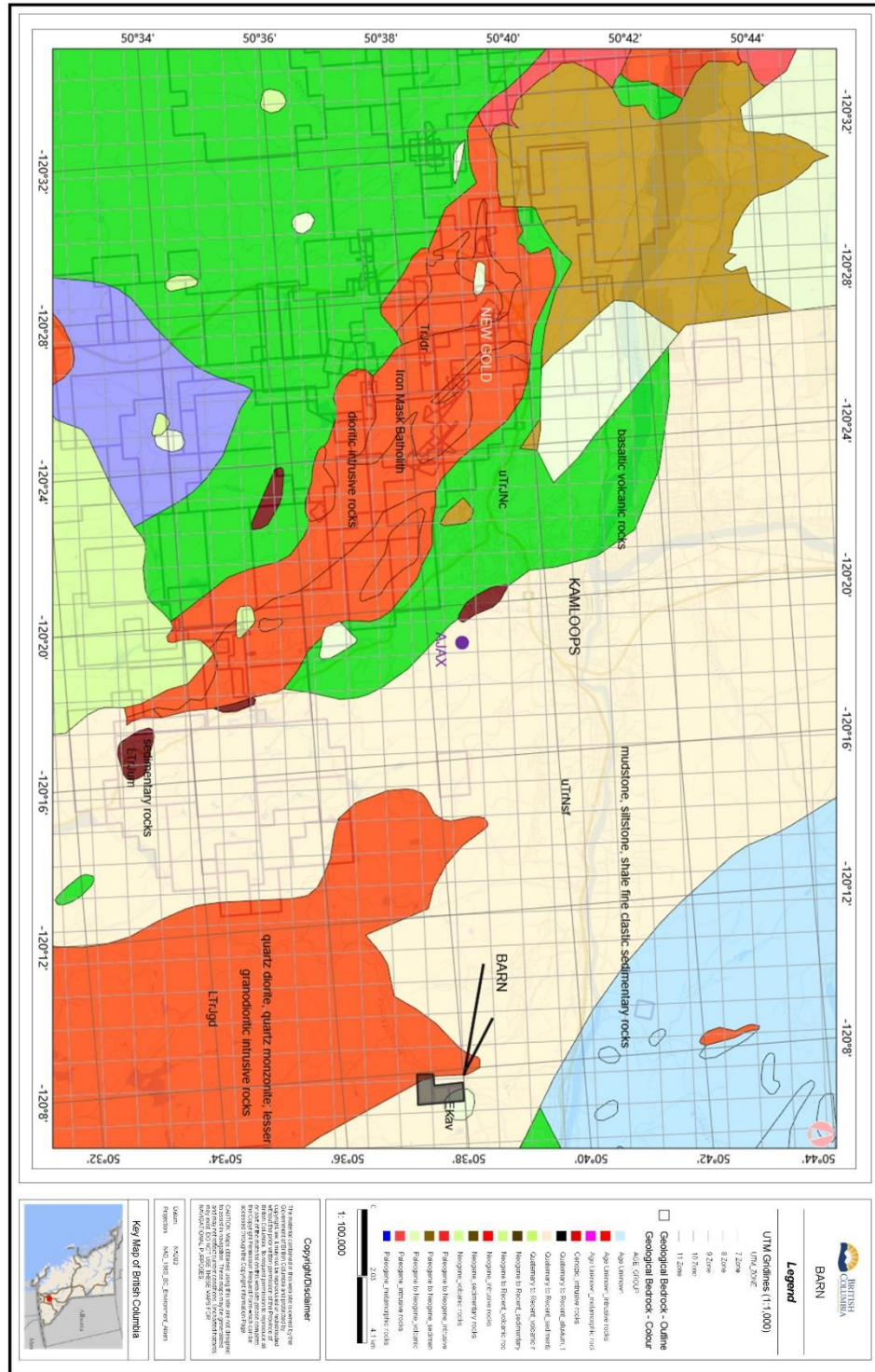
This is an iron stained yellow to brown conglomerate with a sandy matrix enclosing pebbles and cobbles of feldspar porphyry and/or argillite which appear to be the host rocks of the gold mineralization.

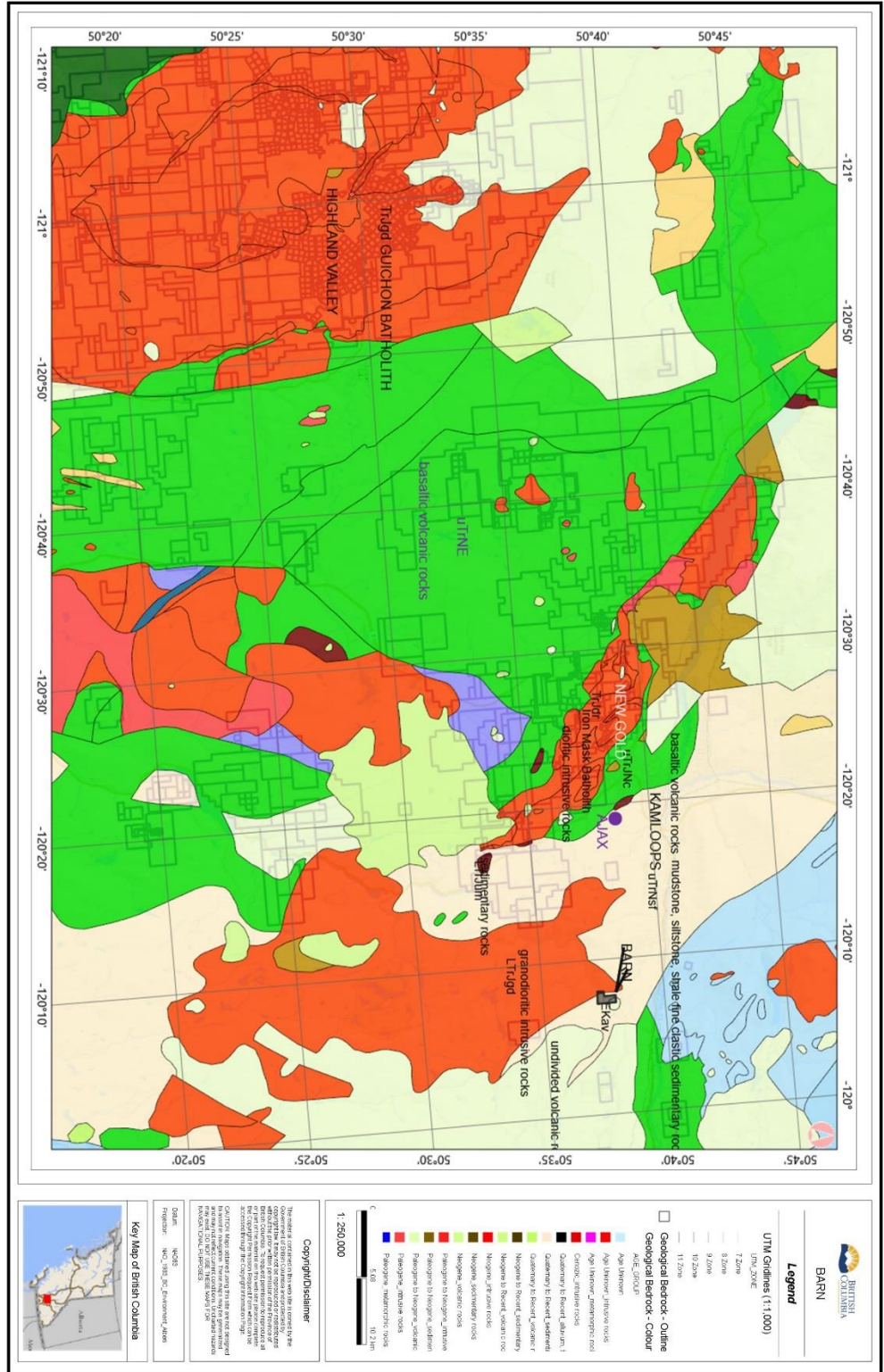
Kamloops Group Volcanics

Rocks of this group, of Tertiary age, include flows of andesitic to basaltic composition and are the youngest rocks of this prospect area. They overlie the earlier rocks and outcrop to the east of the claim area.

Figure 7 BARN CLAIM GROUP Regional Geology







LOCAL GEOLOGY

From Minfile 092INE128

The MOT property is located near the fault contact between argillites of the Upper Triassic Nicola Group and granodiorite of the Jurassic Wild Horse batholith. Nicola rocks are highly fractured and brecciated and in places veined with fine quartz stringers and segregations. Feldspar porphyry dikes, with fine pyrite and pyrrhotite, cut the argillites.

A 1988 diamond-drill hole (JAG 1-88) intersected highly fractured and brecciated argillite with local zones healed with quartz-carbonate. One of these zones analysed 8.6 grams per tonne gold over 1.5 metres. Another hole (JAG 4-88) intersected brecciated argillite cut by a pyritic feldspar porphyry dike containing quartz veinlets which analysed up to 1.6 grams per tonne gold (Assessment Report 17556). About 500 metres northwest of the drilled area, on the north side of the road to Barnhart Vale, some outcrops of biotite feldspar porphyry contain small clots of molybdenite.

Trenching on the property suggests prospecting in the early 1900s but there are no known records of it. In 1971, regional prospecting by Copper Range Exploration Company, Inc. discovered anomalous copper-gold values in rocks and staked the Mot 9-30 claims. Follow-up work consisted of geological mapping and soil (71) and rock chip sampling. In 1973, geological mapping and soil sampling (61) was conducted by Copper Range Exploration Company, Inc. In 1975, the property was restaked by R.A. Dickenson who carried out a small sampling program. In 1979, the Carlin 2 claim was staked by R.A. Dickenson and in that year prospecting carried out on behalf of T. Alexander. In 1980-81, Vantex Resources Inc. optioned the property and carried out a program of soil sampling and VLF-EM surveys. In 1988, a program of 31.2 kilometres of VLF-EM and magnetometer surveys, geological mapping, 21.6 kilometres of grid establishment and six diamond-drill holes totalling 361.8 metres were completed on the Barn claim on behalf of Jaguar Equities Inc.

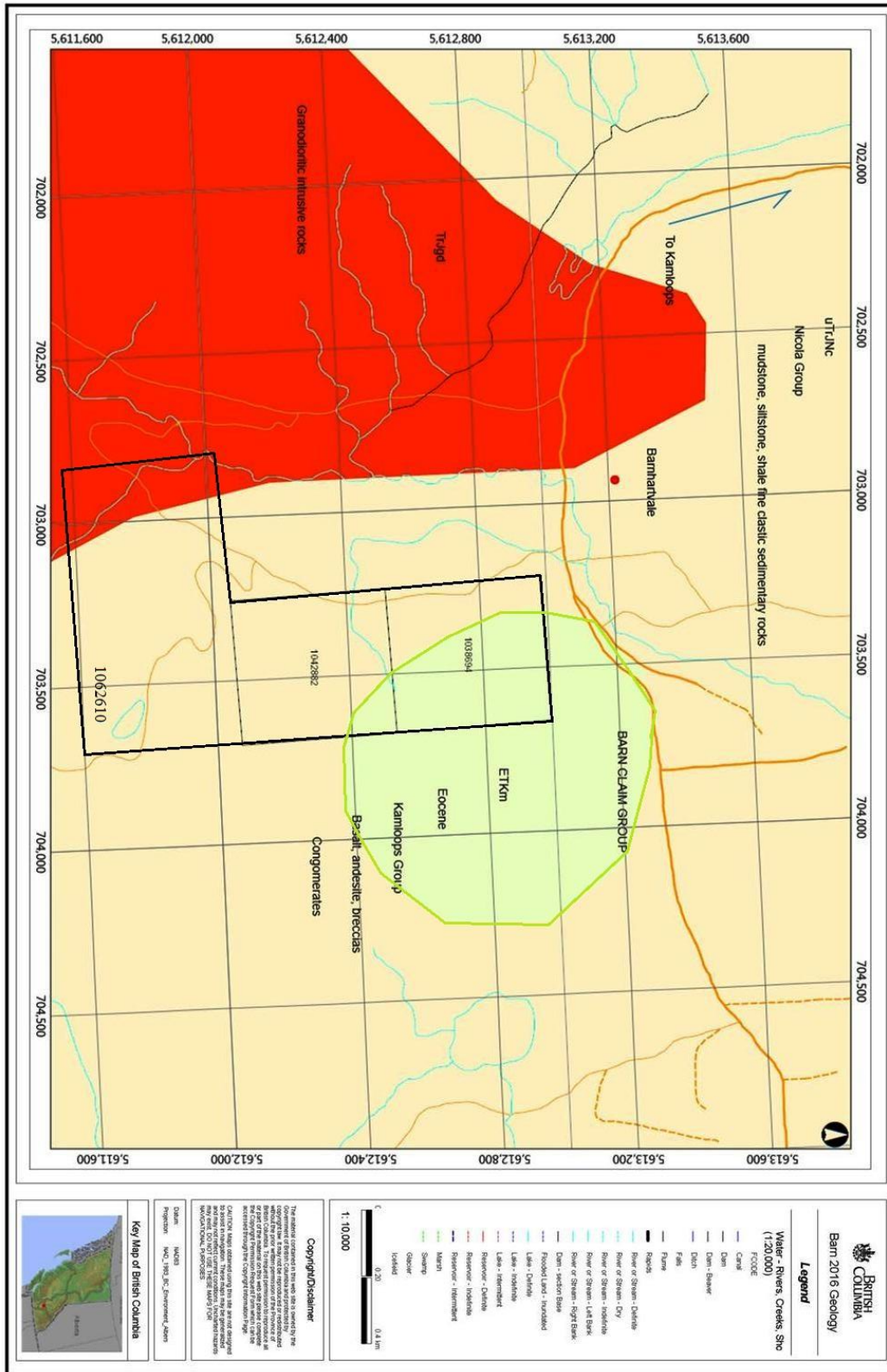
From AR08635, Sawyer Consultants, for T. Alexander, May 1979

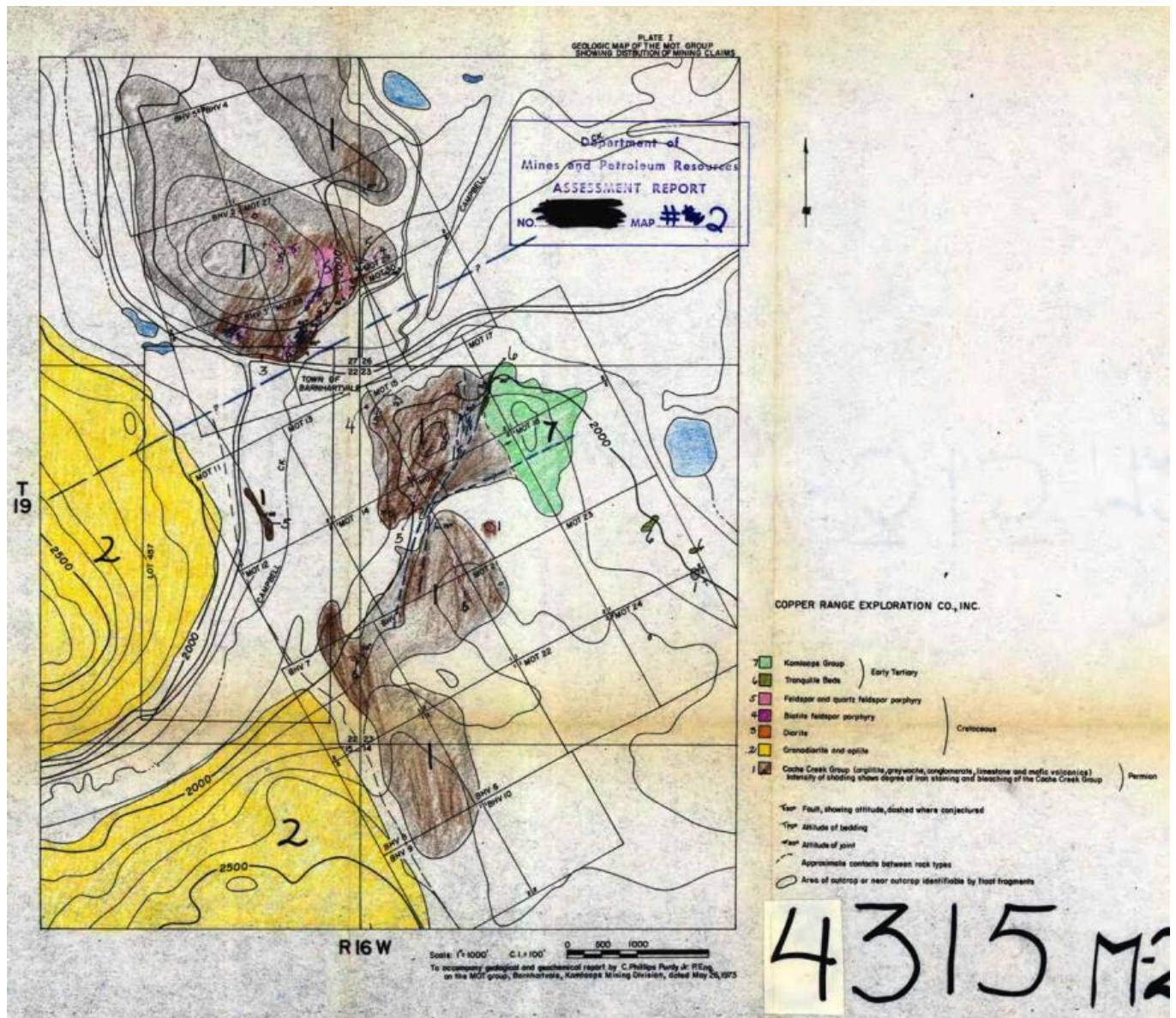
MINERALIZATION

Actual sulphide mineralization observed on the ground is relatively minor in amount and is predominantly pyrite associated with the fractured porphyry intrusive and in places in adjacent Cache Creek rocks. Minor pyrrhotite and chalcopyrite also occur in places. From the sampling done by Copper Range Exploration and by Dickinson and McClaren the major zones of gold mineralization detected so far appear to be related quite specifically to these fractured pyritic zones, and are thus assumed to have a genetic relationship with the feldspar porphyry intrusions.

There is some evidence to suggest also that there may have been some mechanical processes at work in localizing or concentrating the gold in fractures or fissures, thus chip sampling of surface may return values which are lower than true values.

Figure 8 BARN CLAIM GROUP Local Geology





SUMMARY OF REGIONAL AND PROPERTY GEOLOGY (.....continued)

Prospecting on the BARN Claim Group on December 17, 2018 confirmed the presence of rock types and mineralization similar to those historically reported in the claim area. The newly discovered alteration zone is exposed in a quarry south of the historic MOT showing. The Author did not locate the historic BARN (MOT) showings/trenches referred to in historic reports.

Elevated levels of Au were found in Samples BS-1, BS-5. (slight)

Elevated levels of Ag were found in Samples BS-1.

Elevated levels of Cu were found in Samples BS-1, BS-5, BS-7.

Elevated levels of Zn were found in Samples BS-1, BS-5, BS-7.

Table I. Particulars - Grab Samples taken by ELLERBECK (December 2018) BARN

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION – OUTCROP
			Unless indicated other
BS-1 to Lab	0703254	5611640	Black argillite-iron stained. Quartz veinlets. Fractured, layered, brittle. Very hard-chert-like. No visible metal. Quartz inclusions - eyes. Dip Strike undetermined. 20 m. length x 10 m. wide outcrop.
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BS-7 To Lab	0703261	5611889	Float. Quartz Feldspar porphyry. No biotite. Blackish. Rust stained. No visible metal.
BS-8	0703260	5611826	Appears outcrop. Grey-green argillite. Highly siliceous. Very hard. Fine grained/no planes. Fractures random-calcite in fractures? No visible metals.

TECHNICAL DATA AND INTERPRETATION**Table II. Summarized Assay Results- Grab Samples-Ellerbeck (December 2018) – BARN**

Sample No.	Sample Type	Cu ppm	Pb ppm	Zn ppm	Au ppm	Ag ppm	Mo ppm
BS-1	Grab	66	9	73	0.008	0.4	1
BS-5	Grab	216	8	80	0.006	<0.2	1
BS-7	Grab	60	4	56	<0.005	<0.2	2

PURPOSE

In December 2018 a prospecting program was completed on Tenure 1062610 of the 3-claim BARN CLAIM GROUP. The purpose was to locate, if possible, historic reported geological features (Au, Ag, Cu bearing structures) as well as to prospect for unidentified outcrops and showings of significance. Report information was obtained from Selected References and from a December 17, 2019 property examination.

PROSPECTING RESULTS - Outcrops

Sample BS-1 to BS-8 inclusive: confirmed historic local/property and regional geological mapping.

ASSAY RESULTS

Elevated levels of Au were found in Samples BS-1, BS-5. (slight)

Elevated levels of Ag were found in Samples BS-1.

Elevated levels of Cu were found in Samples BS-1, BS-5, BS-7.

Elevated levels of Zn were found in Samples BS-1, BS-5, BS-7.

INTERPRETATIONS AND CONCLUSIONS

Mineralization described in historic ARIS assessment report references is believed to be hosted in old trenches and drill holes located within the current BARN Claim Group.

Mineralization and geology within the BARN Claim Group was confirmed by sampling and assaying rocks from various outcroppings during the December 2018 prospecting program on Tenures 1062610. This mineralization and geology appears to be similar to the previously reported mineralization on the BARN (MOT) property. The old trenches reported to be located within the BARN (MOT) claim group were not examined in December 2018.

SUMMARY AND RECOMMENDATIONS

The December 2018 field program confirmed historic reported geology and showed that mineralization is present in both feldspar porphyry intrusive rocks as well as argillite rocks (e.g. Ag in argillite, BS-1 and Cu in BS-1, BS-5, BS-7 in argillite and feldspar porphyry) within the host Cache Creek sediments within the BARN property.

There are numerous reported mineral occurrences within the BARN property which have not been examined by the writer.

A continuing program to locate and sample those is recommended. There is detailed geological mapping of the area by previous Operators which needs to be relocated in the field.

The 2018 field program assay results and the noted similarities of mineralization and host rocks to historic references indicate that a careful examination of the BARN property is warranted.

Therefore, it is recommended by the Author that a comprehensive prospecting plan be created and executed in the field as soon as practical in order to locate and sample the historic reported mineralization within the BARN Claim Group.

There is indicative historical geological information available to indicate the potential occurrence of a mineral deposit on the Barnum Property. While the information is more indicative of a potential copper-gold-molybdenum porphyry, other deposit types related to a porphyry may occur.

The basis for a concealed copper-gold-molybdenum porphyry are:

1) Copper-gold-molybdenum porphyry:

- The anomalous arsenic and mercury in soils (Hopkins, 1971 Fig. 3 AR 3616) (Figure 8 in this report) could be an indication of a sub-surface mineral zone.
- The anomalous rock chip samples from (Hopkins, 1971 Fig. 6 AR 3616) could be indication of mineral fluids migrating to surface from a structurally tapped mineral laden magma chamber.
- The biotite feldspar porphyry with disseminated sulfides without molybdenite, outcrops a quarter mile to the south Barnhartvale (Purdy, 1973) and within the Barnum property and is similar to an outcrop north of Barnhartvale with clots of molybdenite.
- Sawyer (1979) reports that, "*There seems little doubt that there is gold associated with some of the intrusive as well as some of the Cache Creek rocks in this area ...*"
- Roberts (1980) reports an extension to the Barn anomaly, "*The property has been found to have a long, strong, geochemical - geophysical anomaly with approximate dimensions of 1,000m by 150 m ...*"
- The geological map (Plate I AR 8739) shows a northerly trending structure. This structure could be the VLF-EM conductive zone, "*... with an average width of 150 metres. This zone is roughly coincident with the main geochemical anomaly, but much longer ...*" (Roberts, 1980).
- The core from the diamond drilling showed that:
"The fractures and breccia were healed with quartz and quartz carbonate. Mineralization consisted of disseminated crystals of iron pyrite and extremely fine pyrite in the fractures which is thought to be the mineralization carrier. The density of these latter fractures apparently varies as the gold values. Other than perhaps silver no relationship appears to be related to the other mineralization."

and:

"At first it was believed that the gold values would all occur in the altered dike material as it does in Pit 4 with galena and in Pit 3. However, the occurrence in DDH 1 was entirely in silicified argillite; in DDH 4 entirely in the altered dike; and in DDH 6 where it appears entirely in a heavily silicified argillite." (Roberts, 1988; AR 17556).

2) The potential for other deposit types:

1. Skarn: Potential skarn mineralization may occur between the intrusives and/or ascending mineral fluids and the limestone. The limestone occurs in the sedimentary sequence as shown by Ellerbeck (Ellerbeck, 2016; AR 36039) in the sampling of a newly discovered mineral zone at the southwest of the Barn anomaly.

2. Auriferous polymetallic veins: These veins are reported on the Campbell Creek (*Minfile 092INE047*), the Riverside (*Minfile 092INE046*), and the Clairdon (*Minfile 092INE103*) properties proximal to the Barnum Property area, and under ideal geological and mineralogical conditions, could be developed as a mineral resource. The veins could also indicate a porphyry resource as this type of vein, as epithermal veins could also be related to a mineralized porphyry.

ITEMIZED COST STATEMENT

Exploration Work type	BARN	Days		Totals	
PROSPECTING & EXPLORATION					
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Ken Ellerbeck / Owner	December 17, 2018	1	\$500.00	\$500.00	
Q. Ellerbeck / Helper	December 17, 2018	1	\$250.00	\$250.00	
			\$500.00	\$0.00	
			\$250.00	\$0.00	
				\$0.00	
				\$0.00	
				\$750.00	
				\$750.00	
Office Studies	List Personnel (note - Office only, do not include field days)				
Literature search	Ken Ellerbeck	1.0	\$500.00	\$500.00	
Database compilation	Ken Ellerbeck	0.5	\$500.00	\$250.00	
General research	Ken Ellerbeck	0.5	\$500.00	\$250.00	
Report preparation	Ken Ellerbeck	1.0	\$500.00	\$500.00	
Other (specify)				\$0.00	
				\$1,500.00	
				\$1,500.00	
Ground Exploration Surveys	Area in Hectares/List Personnel				
Prospect	see Personnel Field Days				
Underground					
Trenches				\$0.00	
				\$0.00	
Geochemical Surveying	Number of Samples		No.	Rate	Subtotal
Soil	ALS MINERALS Vancouver		0.0	\$49.46	\$0.00
Rock	ALS MINERALS Vancouver		3.0	\$48.00	\$144.00
					\$144.00
					\$144.00
Transportation		No.	Rate	Subtotal	
KM Kamloops-Property-return		50.00	\$0.95	\$47.50	
KM SAMPLES TO LAB	January 30, 2019	51.00	\$0.95	\$48.45	
				\$0.00	
				\$95.95	
				\$95.95	
Accommodation & Food	Rates per day				
Hotel			\$0.00	\$0.00	
Camp			\$0.00	\$0.00	
Meals	2 man-days @\$40/day	2.00	\$40.00	\$80.00	
				\$80.00	
				\$80.00	
Miscellaneous					
Telephone			\$0.00	\$0.00	
Other (Specify)					
				\$0.00	
				\$0.00	
Equipment Rentals					
Field Gear (Specify)			\$0.00	\$0.00	
Other (Specify)					
				\$0.00	
				\$0.00	
Freight, rock samples					
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$0.00	
				\$0.00	
TOTAL Expenditures				\$2,569.95	

STATEMENT OF AUTHOR'S QUALIFICATIONS

STATEMENT OF AUTHOR'S QUALIFICATIONS**KENNETH C. ELLERBECK, PMP**

I hold a BSc in Mechanical Engineering, University of Alberta, Edmonton, 1973.

I have completed University level introductory geology courses.

I hold a Certificate in Project Management from University of British Columbia, Sauder School of Business, 2010.

I hold a Project Management Professional designation – PMP – 1391810 – 2011.

I have been actively involved in all aspects of mineral exploration since 1980 in the Province of British Columbia.

I have managed staking and exploration programs since 1980 on my own mineral tenures as well as for tenures held by both private and publicly-held junior exploration companies.

My mineral exploration experience includes staking, prospecting, trenching, trench mapping, line cutting and grid construction, geochemical surveys, geophysical surveys, diamond drilling supervision and general exploration program supervision.

SIGNED



KENNETH C. ELLERBECK

LIST OF SELECTED REFERENCES

EMPR PF (Evaluation Report on the Barn Claim by A.F. Roberts. 1986 in Prospectus, Jaguar Equities Inc.)

BC Geological Survey, MEMPR, MINFILE No 092INE128
British Columbia Survey Branch, The Map Place.

Map 886 A, Nicola, (Geol.) Sc. Accomp. Memoir 249, Geol. Survey of Canada (1948).

Roberts, A.F., P.Eng., October 31, 1980 – AR 9881, Geochemical-Geophysical - Carlin 2 Claims, Vantex Resources Inc.,

Hopkins, D.E., B.A., P.Eng., AR3616, December 7, 1971, Geochemical Report, Copper Range.

Purdy C.P. P Eng., AR 4315, May 26, 1973, Geology and Geochemistry, Copper Range.

J B P Sawyer, P Eng., May 11 1976, Report on the Carlin 2 Claim Kamloops M D for United Mineral Services.

LIST OF SOFTWARE PROGRAMS USED

ADOBE PHOTOSHOP 7.0

PAINT for WINDOWS

ARIS MAPBUILDER – Map Data downloads

Imap BC – Map Data downloads

MtOnline - MINFILE downloads.

APPENDIX 1 SAMPLE PREPARATION AND METHOD OF ANALYSIS



ALS Canada Ltd.
 2103 Delliston Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: KEN ELLERBECK
 255 WEST BATTLE STREET
 KAMLOOPS BC V2C 1G8

Page: 1
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2019
 Account: ELLERK

CERTIFICATE K119023192

This report is for 9 Rock samples submitted to our lab in Kamloops, BC, Canada on 29-JAN-2019.
 The following have access to data associated with this certificate:
 KEN ELLERBECK

ALS CODE	DESCRIPTION
MEI-21	Received Sample Weight
LOC-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% < 2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% < 75 um

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	33 Element Aqua Regia ICP- AAS	ICP- AAS
AU-AA23	AU 30g FA- AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.
 ***** See Appendix Page for comments regarding this certificate *****

Signature:
 Colin Ramshaw, Vancouver Laboratory Manager



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KAMLOOPS BC V2C 1G8

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 8-FEB-2019
Account: ELLERK

CERTIFICATE OF ANALYSIS KLI9023192

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.	
	CRU-31	LOC-22
	PUL-QC	WEI-21
		PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.	
	Au-AA23	ME-ICPA1



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Page: 2 - 8
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 8- FEB- 2019
 Account: ELLERK

CERTIFICATE OF ANALYSIS K119023192

Sample Description	Method Analyte Units LOD	Ca	Hg	K	La	Hg	Mn	Mg	Mo	Na	Ni	P	Pb	S	Se	Sr
SP- 1	ME-ICP41	10	1	0.16	10	3.00	1050	0.01	<1	0.49	33	1850	6	0.03	19	224
SP- 4	ME-ICP41	10	<1	0.15	10	3.82	1020	0.01	<1	0.08	95	980	2	0.02	24	184
SP- 5	ME-ICP41	10	17	0.10	<10	4.14	1850	0.01	2	0.02	44	120	2060	1.33	4	101
JH- 2	ME-ICP41	<10	<1	0.16	<10	0.85	3450	0.01	<1	0.01	3	380	7	0.03	5	226
JH- 4	ME-ICP41	<10	<1	0.34	10	2.72	1470	0.01	<1	0.01	13	1700	3	0.02	17	144
JH- 6	ME-ICP41	<10	<1	0.44	10	3.22	1520	0.01	1	<0.01	16	1850	7	0.04	20	191
SP- 1	ME-ICP41	10	<1	0.26	10	1.36	718	0.01	1	0.04	43	680	9	0.03	7	320
SP- 5	ME-ICP41	10	<1	0.17	10	1.41	800	0.01	1	0.11	15	2140	8	0.01	10	148
SP- 7	ME-ICP41	10	<1	0.63	10	0.70	519	0.01	2		4	1450	4	0.01	4	31

***** See Appendix Page for comments regarding this certificate *****



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Page: 2 - C
 Total # Pages: 2 (A - C)
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 Finalized Date: 8- FEB- 2019
 Account: ELLERK

CERTIFICATE OF ANALYSIS KL19023192

Sample Description	Method Analyte Units LOD	NE-ICP41		NE-ICP41		NE-ICP41		NE-ICP41		NE-ICP41	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Zn ppm	Zn ppm	Zn ppm
SP- 1	<20	0.23		<10	<10	2222	<10	<10	65		
SP- 4	<20	0.02		<10	<10	188	<10	<10	70		
SP- 5	<20	-0.01		<10	<10	74	<10	<10	2700		
JH- 2	<20	-0.01		<10	<10	56	<10	<10	22		
JH- 4	<20	0.01		<10	<10	79	<10	<10	52		
JH- 6	<20	0.02		<10	<10	108	<10	<10	60		
SP- 1	<20	0.02		<10	<10	51	<10	<10	73		
SP- 5	<20	0.16		<10	<10	130	<10	<10	80		
SP- 7	<20	0.22		<10	<10	106	<10	<10	56		

***** See Appendix Page for comments regarding this certificate *****