

TITLE PAGE

BC Geological Survey
Assessment Report
39195



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



Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: TECHNICAL - PROSPECTING TOTAL COST: \$ 2742.85
AUTHOR(S): KEN ELLERBECK SIGNATURE(S): *[Signature]*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): YEAR OF WORK: 2020

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event # 5810840 August 22-2020

PROPERTY NAME: BRASSIE CREEK

CLAIM NAME(S) (on which the work was done): 1067655 BRASSIE GOSSAN

COMMODITIES SOUGHT: Au Ag Cu Zn Pb

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092INW018

MINING DIVISION: KAMLOOPS NTS/BCGS: 0921.075

LATITUDE: 50 ° 44 ' 49.6 " LONGITUDE: -121 ° 1 ' 23.3 " (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) OWNER 2)

MAILING ADDRESS:
OWNER'S

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Limestone, Marble, Diorite, Basalt, Skarn, Up Triassic Nicola Undefined Triassic-Jurassic Guichon Creek Batholith
Massive, Vein, Disseminated Skarn, Industrial Min. K03: Fe skarn, K02: Pb-Zn skarn
Underlain by Nicola basaltic flows, lesser limestone/marble, intruded by magnetite-rich diorite of the Guichon Ck batholith
Magnetite, Hematite, Garnet, Epidote, Calcite, Silica, Malachite, Azurite, Skarn, Silicific'n, Oxidation

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
2476, 2772, 2773, 3506, 3743, 5730, 6107, 7531, 10148, 13329, 21625, *24809, 25285, 25502

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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) 250m X 250m		1067655	\$2742.85
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:			\$2742.85

KEN ELLERBECK

(Owner & Operator)

TECHNICAL EXPLORATION REPORT

(Event 5810840)

on

PROSPECTING and EXPLORING

Work done on

Tenures 1067655

of the 7 Claim

BRASSIE CLAIM GROUP

Kamloops Mining Division
BCGS Maps
092I.075

Centre of Work
UTM 10 639483E 5623621N

AUTHOR KEN ELLERBECK, PMP

REPORT SUBMITTED September 15, 2020

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INTRODUCTION

PURPOSE

In September 2020, a prospecting program was completed on Tenure 1067655 of the 5 Claim BRASSIE CLAIM GROUP. The purpose of the prospecting program was to locate, if possible, historic reported geological features (typical Cu, Au, Ag bearing structures in particular) as well as to prospect for unidentified outcrops and showings of significance. Information for this report was obtained from sources cited under Selected References and from a property examination made on August 22, 2020.

ACCESS AND LOCATION

Road access to the Property from Kamloops is westward via Highway #1 for 40 kilometres to the Walhachin junction. Tenure 1067655 is six (6) kilometres south of the junction and is accessible via a series of graveled and dirt roads and crossing the Thompson River and both the Canadian National Railroad main line and the Canadian Pacific Railway railroad main line from Vancouver to Kamloops and beyond. Secondary roads provide access to the northern and the southern portions of the Property.

The Property is located within the dry belt of British Columbia with rainfall between 25 and 30 cm per year. Temperatures during the summer months could reach a high of 35°C and average 25°C with the winter temperatures reaching a low of -10°C and averaging 8°C. On the Brassie Claim Group light to moderate snow cover on the ground could be from December to April and would not hamper a year-round exploration program.

Kamloops, an historic mining center could be a source of experienced and reliable exploration and mining personnel and a supply for most mining related equipment.

Kamloops is serviced daily by commercial airline and is a hub for road and rail transportation. Vancouver, a port city on the southwest corner of, and the largest city in the Province of British Columbia, is four hours distant by road and less than one hour by air from Kamloops.

PROPERTY DESCRIPTION BRASSIE Claim Group

Tenures were acquired by staking by the Owner. "Good to Date" not including this work.

<u>Tenure Number ID</u>	<u>Claim Name</u>	<u>Tenure Type Description</u>	<u>Issue Date</u>	<u>Good to Date</u>	<u>Area in Hectares</u>	<u>Client Number ID</u>	<u>Owner Name</u>	<u>Percent Ownership</u>
1039494	1014024 East	Mineral	10/27/2012	11/8/2020	81.7907	107608	ELLERBECK, KENNETH CECIL	100
1039496	1011864 Brassie	Mineral	10/26/2011	11/8/2020	40.9055	107608	ELLERBECK, KENNETH CECIL	100
1050121	BRASSIE JOIN	Mineral	2/18/2017	11/8/2020	102.2577	107608	ELLERBECK, KENNETH CECIL	100
1056913	BRASSIE WESTOF	Mineral	12/8/2017	11/8/2020	40.9054	107608	ELLERBECK, KENNETH CECIL	100
1067655	BRASSIE GOSSAN	Mineral	4/2/2019	11/8/2020	40.8965	107608	ELLERBECK, KENNETH CECIL	100
1077124	BRASSIE ADD SE	Mineral	7/8/2020	7/8/2021	81.8025	107608	ELLERBECK, KENNETH CECIL	100
1077356	BRASSIE NW	Mineral	7/19/2020	7/19/2021	20.45	107608	ELLERBECK, KENNETH CECIL	100

Figure 1 LOCATION MAP from MTO Mapbuilder



SCALE 1 : 10,000,000

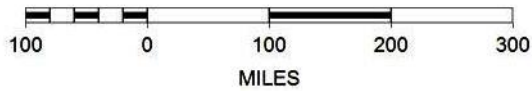


Figure 2 BRASSIE CLAIM LOCATION MAP

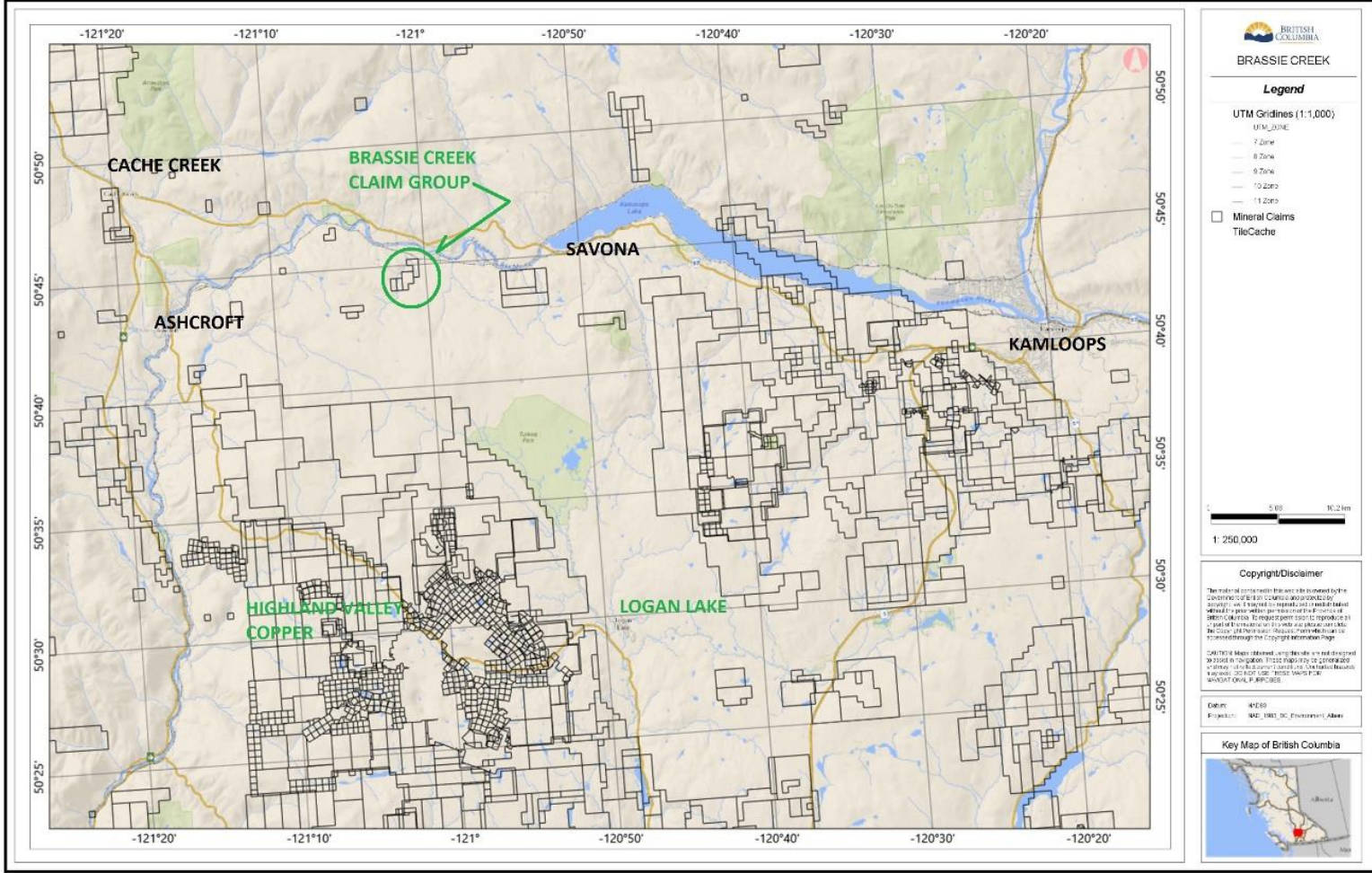


Figure 3 Regional Location Map (Base Map GOOGLE EARTH)

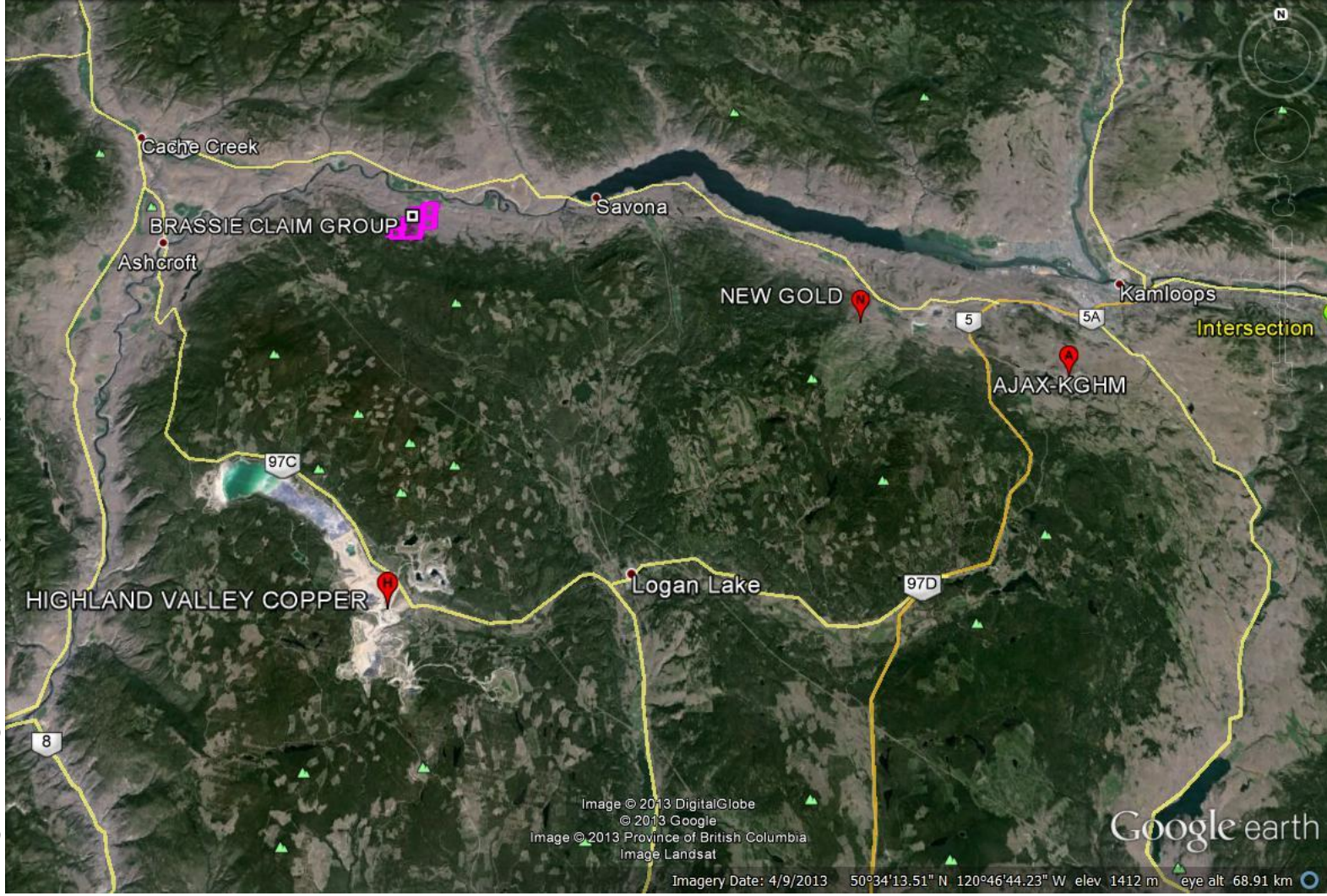


Figure 4 BRASSIE Claim Map and Index Map – UTM 10 – iMapBC

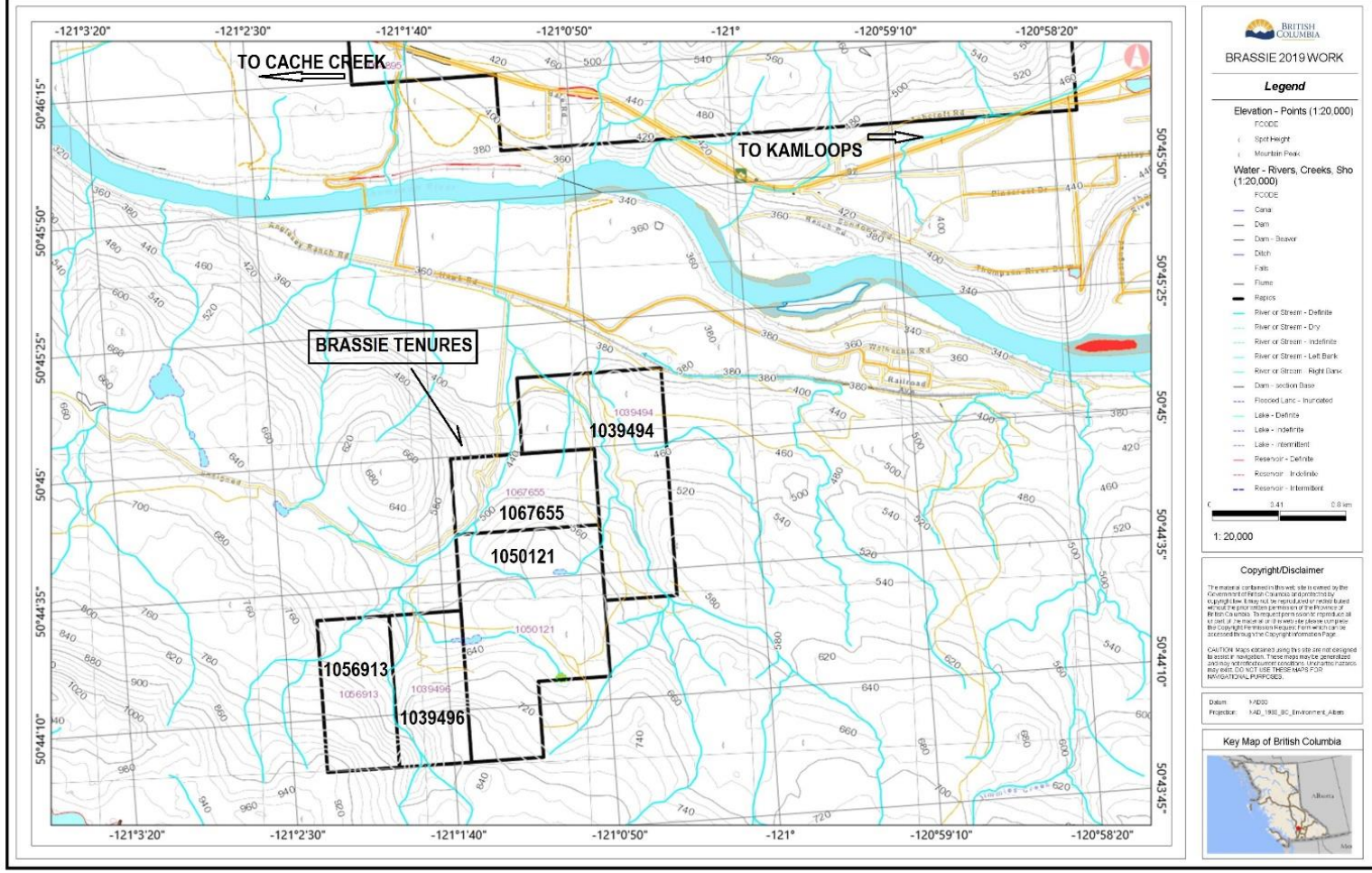
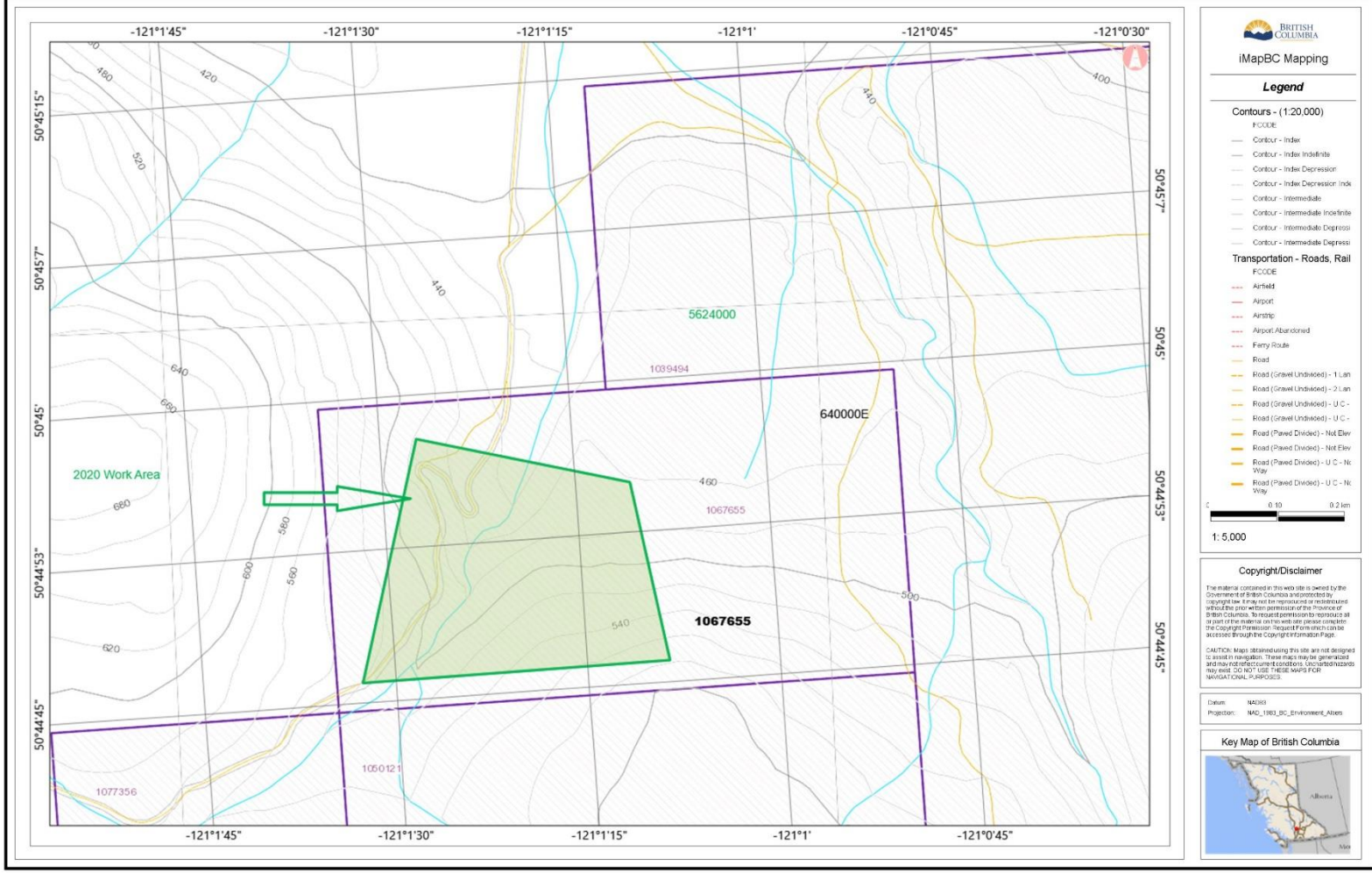


Figure 4 BRASSIE Claim Map and Index Map – UTM 10 – iMapBC



HISTORY

Exploration by others on land near the current BRASSIE Claim Group has been reported. Brassie Claim Group was acquired by online staking by the Author and Current Owner. Tenure 1039494 was acquired October 27, 2012, Tenure 1039496 was acquired October 26, 2011. Tenure 1050121 was acquired February 18, 2017. Tenure 1056913 was acquired December 8, 2017. Tenure 1067655 was acquired April 02, 2019. Tenure 1077124 was acquired July 8, 2020. Tenure 1077356 was acquired July 19, 2020.

In 2012 a Geological Assessment report (AR33229) was filed covering Structural Analysis conducted on areas contained in the current claims. Prospecting was conducted on areas within the current tenures in September 2013 (AR 34217), (AR 35694) 2015, (AR37205) 2017, (AR37582) 2018 and 2019.

Mineral File Number: 092INW055

Name: CHIEF

Mineral File Number: 092INW061

Name: WAL

Mineral File Number: 092INW018

Name: BRASSIE CREEK

The above MINFILE occurrences are within the BRASSIE CLAIM GROUP.

From Sookochoff Consultants Inc. August 26, 2012;

BRASSIE CREEK prospect (*Fe skarn: Pb-Zn skarn*)

MINFILE 092INW018; Within Tenure 1039496

Previous work consisted of a VLF-EM survey, induced polarization survey, geological mapping, three diamond-drill holes totalling 230 metres and a ground magnetometer survey in 1970-71 on behalf of Supertest Investments and Petroleum Ltd. BP Minerals diamond drilled six holes in 1973 but no report was filed. Between the period 1974 to 1987, work on behalf of Bethlehem Copper Corporation, BP Minerals Limited, Ninja Resources Ltd., MineQuest Exploration Associates Ltd. and QPX Minerals Inc., consisted of ground and/or airborne electromagnetic and magnetic surveys, induced polarization surveys, percussion drilling, soil geochemistry and geological mapping mainly focused on the Chief (092INW055) claims area which were adjacent to the Geo claims (now called the Brassie Creek showing). In 1991, geological mapping was carried out on the Brassie Creek showing area on behalf of Amex Exploration Services Ltd. In 1996 and 1997, geological mapping, soil geochemistry, IP and magnetic surveys were carried out on behalf of Christopher James Gold Corp. on the Brassie Creek property. The property was drilled in 1998 where the first hole drilled intersected 3.62 metres grading 11.02 grams per tonne silver, 0.24 per cent copper and 5.9 per cent zinc. A 2.35-metre interval above this intersection yielded 1.24 grams per tonne gold (Press Release, Christopher James Gold Corp., June 10, 1999). The first hole intersected 14 metres grading 0.23 gram per tonne gold, 7.25 grams per tonne silver, 0.24 per cent copper and 1.9 per cent zinc.

CHIEF showing (*Alkalic porphyry Cu-Au*)

MINFILE 092INW055; Within Tenure 1039494

Previous work on the Geo claims (now called Brassie Creek (092INW018) and which adjoined the Chief claims) consisted of a VLF-EM survey, induced polarization survey, geological mapping, three diamond-drill holes totalling 230 metres and a ground magnetometer survey in 1970-71 on behalf of Supertest Investments and Petroleum Ltd. BP Minerals diamond drilled 6 holes in 1973 but no report was filed. Between the period 1974 to 1987, work on the Chief property on behalf of Bethlehem Copper Corporation, BP Minerals Limited, Ninja Resources Ltd., MineQuest Exploration Associates Ltd. and

QPX Minerals Inc. consisted of ground and/or airborne electromagnetic and magnetic surveys, induced polarization surveys, percussion drilling, soil geochemistry and geological mapping.

WAL showing (Porphyry Cu +/- Mo +/- Au)

MINFILE 092INW061; Within Tenure 1039494

A six-hole, 597 metre percussion drilling program was carried out in 1979 by Bethlehem Copper Corporation on the Wal property in order to assess the mineral potential around the periphery of a gossan and to attempt to intersect a mineralized intrusive breccia (Chief, 092INW055) which crops out on the west bank of a creek near the south part of the Wal claim. Hole W-79-1, the northernmost hole, was drilled in the bed of a creek north of the first gossan outcrop. It intersected dark green Nicola volcanics and felsic intrusive quartz porphyry. Both units show strong pyrite mineralization with traces of chalcopyrite and malachite. Copper contents vary from 0.004 to 0.192 per cent with higher grades near the intrusive contact (Assessment Report 7736).

In 1978, Bethlehem Copper Corporation performed geological mapping, an electromagnetic survey over 5.6 kilometres and a geochemical survey.

SUMMARY OF WORK DONE 2020

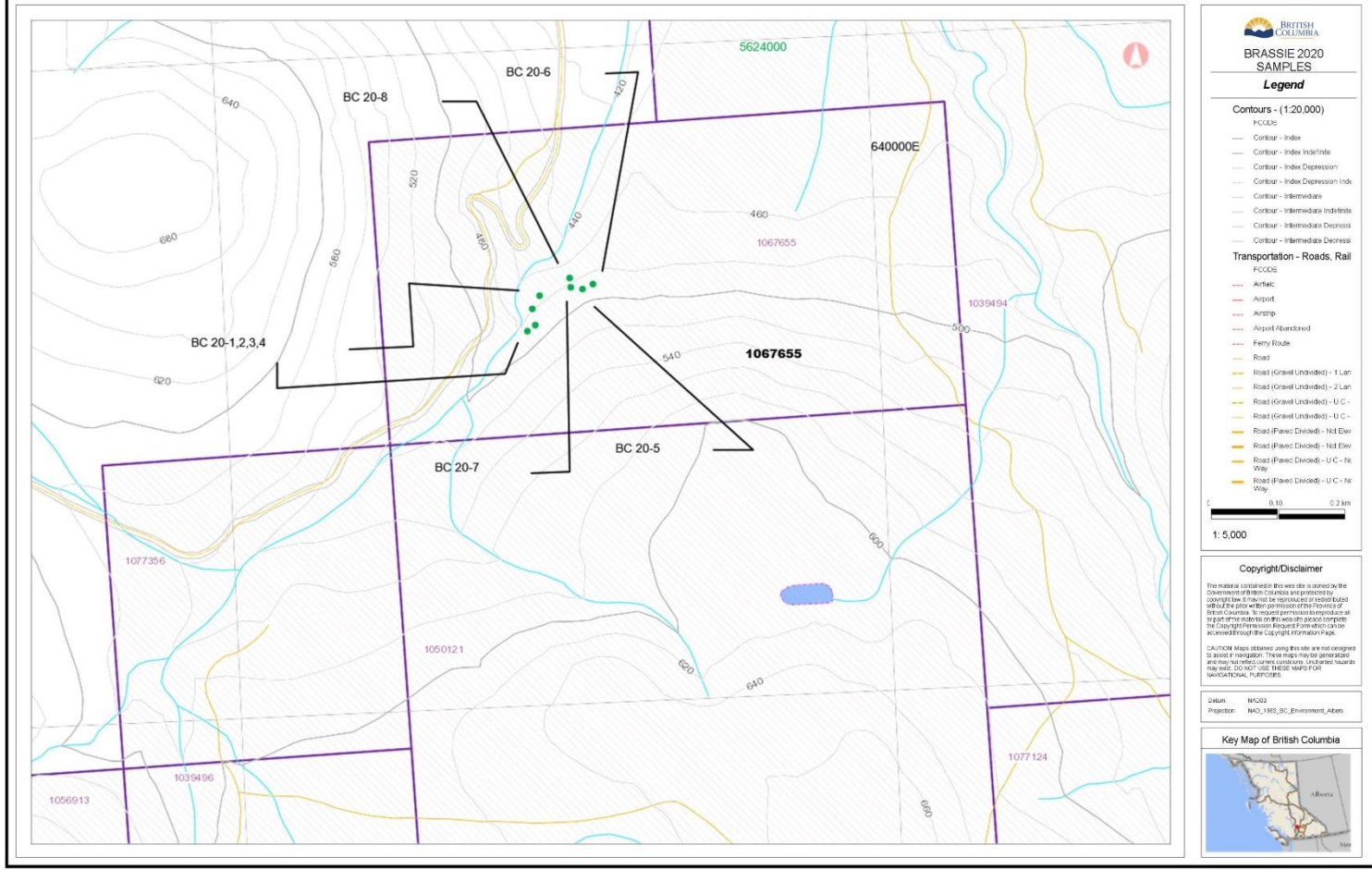
Prospecting was conducted within Tenure 1067655 on August 22, 2020. (Figure 4 Index - Work Areas) to explore for reported geological features, possible mineral showings, and evidence of diamond drilling location(s).

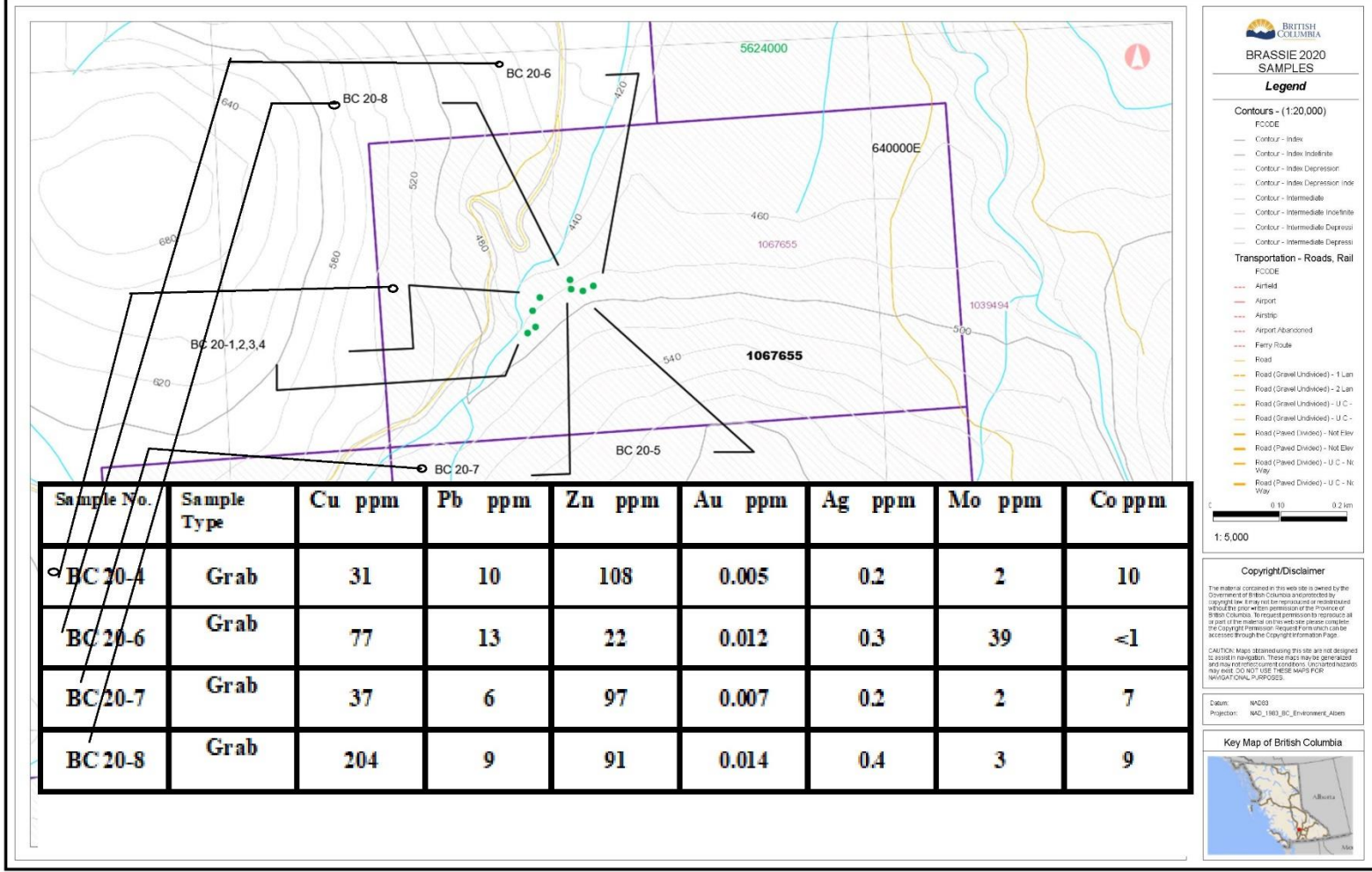
Specifically, the writer was looking for evidence of diamond drilling carried out on and near a “gossan area” in approximately 1973. (from Wells, AR 26155, 2000). (AR 6107 BP Minerals, 1976).

The likely drilling location(s) was located east of a gossan area within Tenure 1067655, but no drill stems found. Float and bedrock were observed and sampled (8 grab samples were obtained).

One (1) field day was spent on 1067655 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 Maps





2020 WORK PROGRAM SUMMARY OF WORK DONE continued

Table I. Particulars of 8 Grab Samples taken by ELLERBECK (2020) BRASSIE CREEK

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
	All OUTCROP unless indicated		
BC 20-1	639463	5623570	Heavily altered Limestone. Iron staining. Iron veinlets. Brittle-sheeted. Breccia/conglomerate. Dark green and purple volcanics. Qtz flooding. Siliceous. No visible metal. Vertical? Strike undetermined
BC 20-2	639470	5623573	Weathered-grey-green-dark limestone. Heavy iron stain. Easily fractured-large vugs. Skarn. Contact with unaltered limestone No visible metal. Dip-vert. Strike-N-S
BC 20-3	639468	5623598	Contact-grey-green volcanic/Limestone. Highly Altered. Gossan appearance. Iron staining. Quartz veinlets with iron in fractures. Multiple quartz flooding events. No visible metal. Hard. Vert. Strike N20E
BC 20-4	639483	5623621	Contact-unaltered Limestone and highly altered limestone. Pale grey. Iron staining in all fractures. Slickenside.. No visible metal. Fractures easily-brittle. Skarn. Thin qtz flooding. Vertical. Strike? Skarn/breccis
BC 20-5	639547	5623625	Highly altered limestone Skarn. Heavy rust stained. No Visible metal. Iron stain in fractures. Crumbly. Near vert. Strike N-S
BC 20-6	639551	5623632	Highly altered Limestone. Iron/Magnetite/hematite veining multiple events. Large vugs. Breccia appearance. Highly fractured. Sulphide staining. No visible metal. Skarn. Dip 70 Strike N20E
BC 20-7	639535	5623628	Highly altered Limestone. Breccia/Skarn. Grey green. Visible metal-pyrite, chalco, magnetite. Vuggy. Iron staining. Qtz flooding. Dip? Strike?
BC 20-8	639527	5623634	Altered grey Limestone. Slickenside. Vugs. Heavy iron staining in fractures, hematite. Crumbly. Red/orange oxide. Contact with lightly altered limestone Dip E20 Strike N-S

Sample No.	Sample Type	Cu ppm	Pb ppm	Zn ppm	Au ppm	Ag ppm	Mo ppm	Co ppm
BC 20-4	Grab	31	10	108	0.005	0.2	2	10
BC 20-6	Grab	77	13	22	0.012	0.3	39	<1
BC 20-7	Grab	37	6	97	0.007	0.2	2	7
BC 20-8	Grab	204	9	91	0.014	0.4	3	9

**FIGURE 6 LOCATION AND TYPICAL ROCK PICTURES
BC 20-1 TYPICAL ROCK PICTURE**



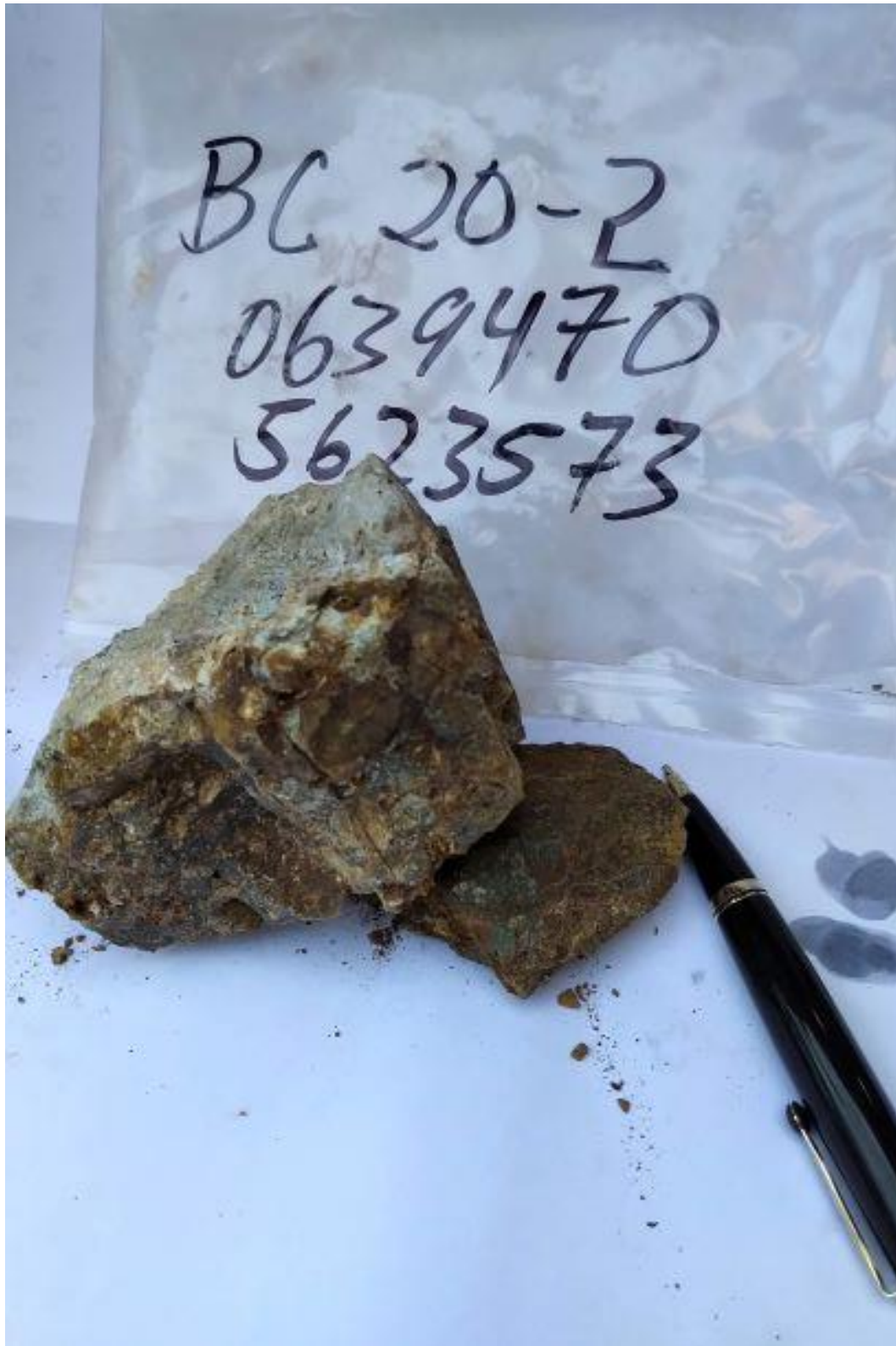
BC 20-1 TYPICAL ROCK PICTURE



BC 20-2 TYPICAL ROCK PICTURE



BC 20-2 TYPICAL ROCK PICTURE



BC 20-3 TYPICAL ROCK PICTURE



BC 20-3 TYPICAL ROCK PICTURE



BC 20-4 TYPICAL ROCK PICTURE



BC 20-4 TYPICAL ROCK PICTURE



BC 20-5 TYPICAL ROCK PICTURE



BC 20-5 TYPICAL ROCK PICTURE



BC 20-6 TYPICAL ROCK PICTURE



BC 20-6 TYPICAL ROCK PICTURE



BC 20-7 TYPICAL ROCK PICTURE



BC 20-7 TYPICAL ROCK PICTURE



BC 20-8 TYPICAL ROCK PICTURE



BC 20-8 TYPICAL ROCK PICTURE



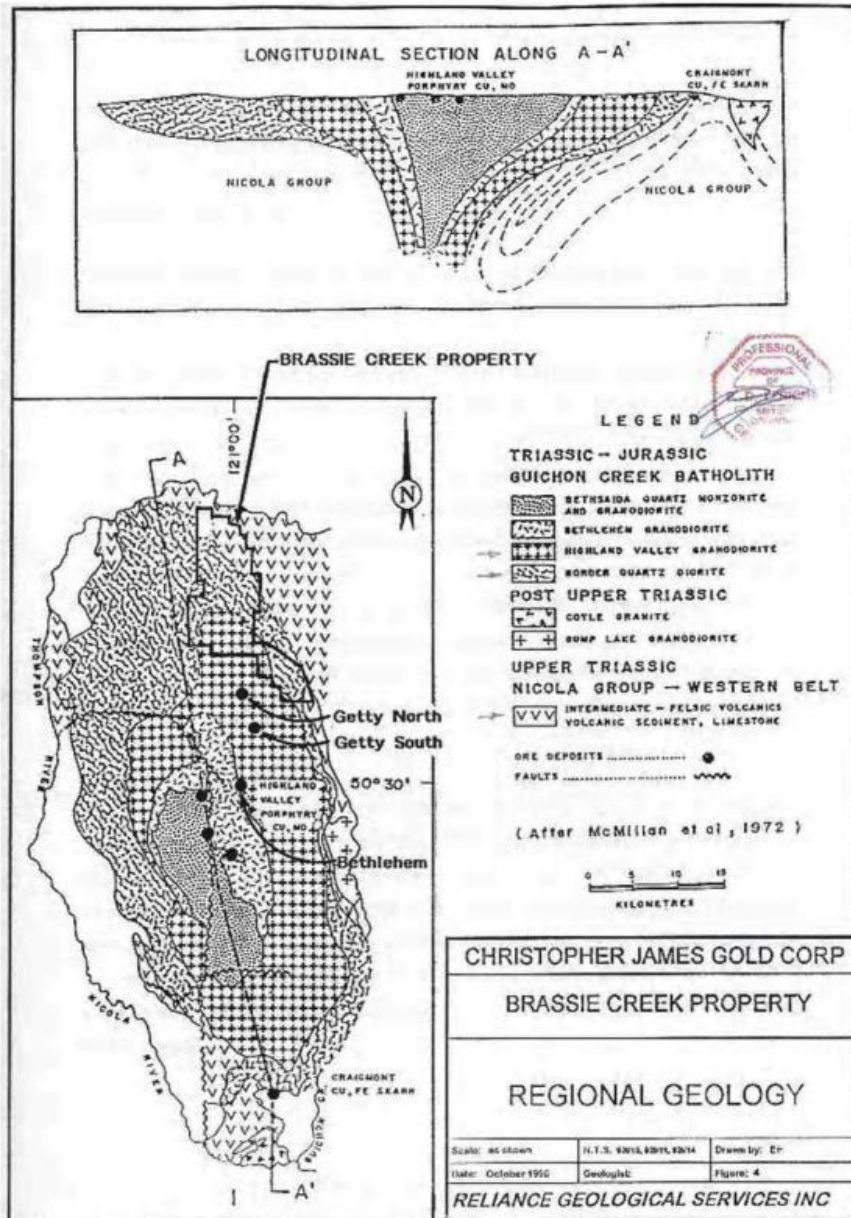
SUMMARY OF REGIONAL AND PROPERTY GEOLOGY
Fig. 7 Regional Geology - BRASSIE CLAIM GROUP

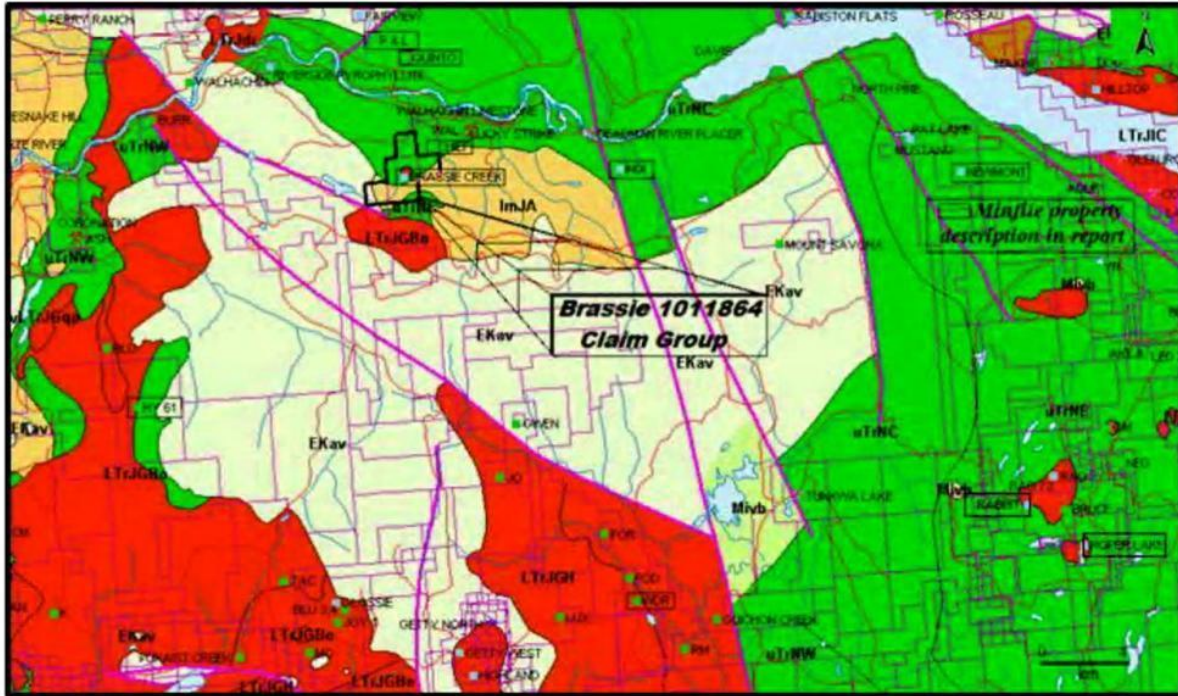
Ken Ellerbeck

Brassie 1011864 Claim Group

Event 5399509

Figure 5. Brassie Creek Property: Regional Geology
 (Figure 4 from Leriche, 1996)





The seven (7) claim Brassie Claim Group covers an area of 300 hectares located 222 kilometres east-northeast of Vancouver and 70 kilometres west of Kamloops where within 15 kilometres two past producing mines have been re-explored and are developed mineral resources.

The **New Afton** mineral reserves are reported as 4.8 million ounces gold, 54.7 million ounces of silver, and 2.75 billion pounds of copper. The **Ajax** mine was originally scheduled for production in early 2018 at 60,000 tonnes per day for a 23-year mine life. The Ajax mineral resource is reported at 365 million tonnes grading 0.31% copper and 0.20 grams per tonne gold. The **Highland Valley Mine** located 39 kilometres south of the Brassie Claim Group has been in production since 1983 and is processing 120,000 to 130,000 tonnes per day. Reported proven and probable mineral reserves as of December 31, 2011 are reported at 673,000,000 tonnes with a grade of 0.29 % copper. The Reserves are reportedly expected to support a mine life to 2026 (Teck Annual Information Report; March 5, 2012).

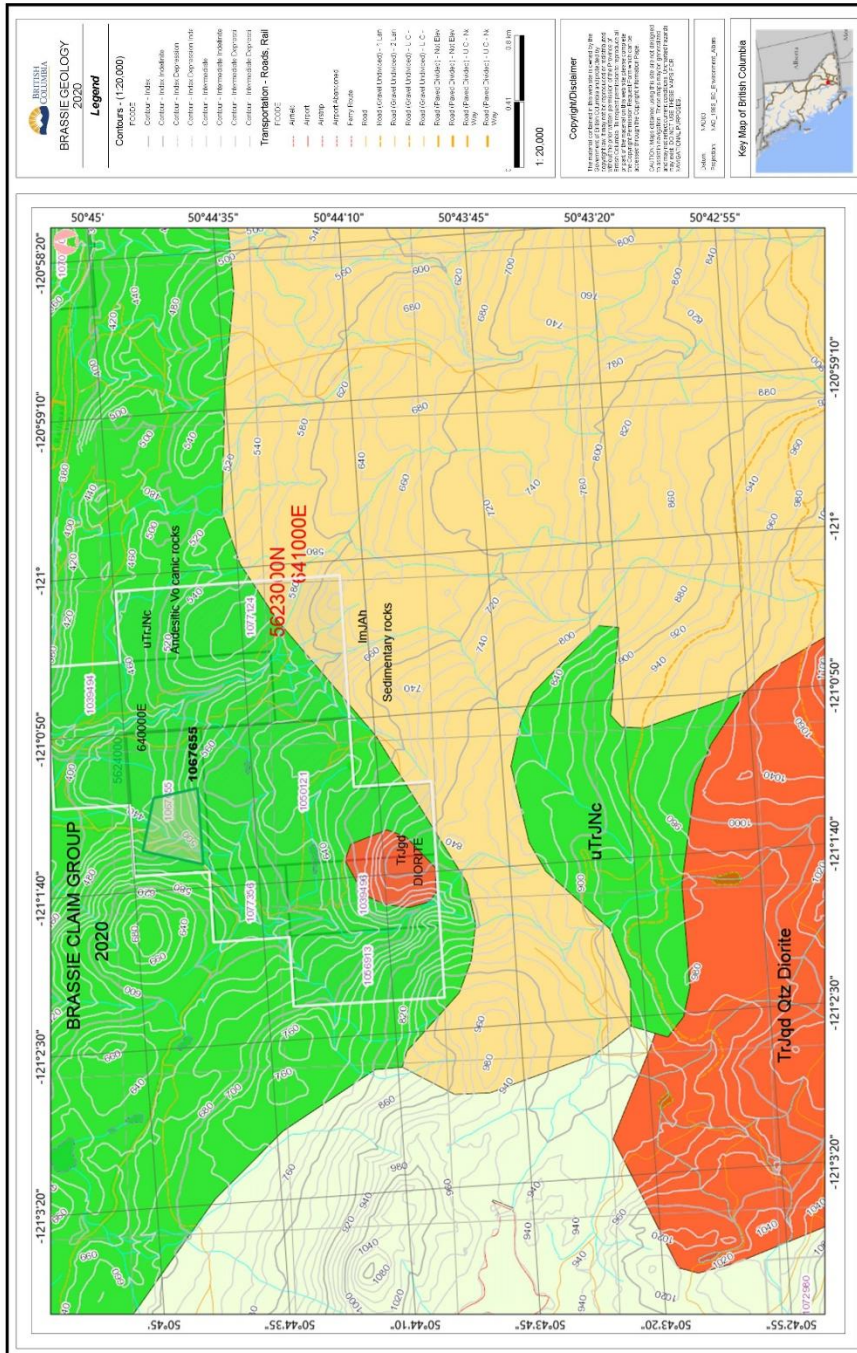
Both the New Afton and the Ajax mineral resources are predominantly hosted by the Late Triassic Iron Mask Batholith; a sub-volcanic multiple intrusion of dioritic to syenitic composition which lies lengthwise northwesterly for 35 kilometres long and up to 10 kilometres wide in a major cross structure of the Quesnel Trough and is emplaced in contemporaneous volcanic rocks of the Upper Triassic Nicola Group

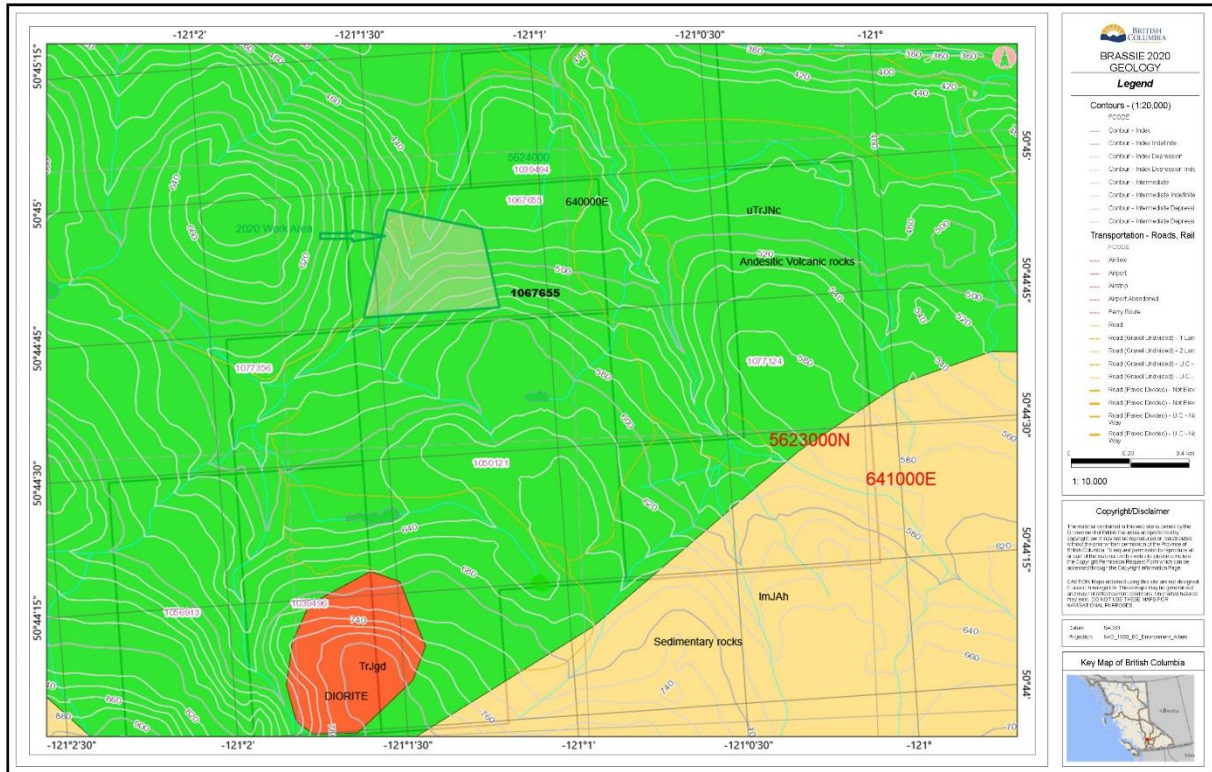
The Valley deposit of the Highland Valley Mine **south of the Brassie Claim Group** is hosted by the Bethsaida porphyritic quartz monzonite and granodiorite phase of the Late Triassic to Early Jurassic Guichon Creek batholith. Leriche (1996) reports that the Guichon Creek batholith is internally divided into segments by northerly and northwest to westerly trending structures where both fault sets played important roles in localizing mineralization.

The Guichon Creek Batholith and Nicola Group rocks are host to several types of copper deposits including the world-class porphyry deposits at Highland Valley within the central portion of the Batholith, the skarn deposits at the Craigmont Mine hosted by Nicola aged

limestones at the south end of the Batholith, and the Getty copper oxide/porphyry deposits hosted by the Guichon Batholith between the Valley deposit and the Brassie Creek Claim Group Property close to a breccia pipe just to the east of a major north-south fault. The Northerly trending faults associated with porphyry copper mineralization in the Getty North and South areas may project northward into the Brassie Creek area (Dawson, 2005) where stocks, sills and dykes of dioritic to monzonitic composition related to the Guichon Batholith occur.

Fig. 8 Local Geology - BRASSIE CLAIM GROUP





Within the Brassie Claim Group, historical exploration dates from the late 1800's when a 23 metre-long adit was completed to explore a northwesterly trending zone of fracture controlled mineralization. Samples from the Brassie prospect analysed 0.26% copper over one metre and from the Hasso showing of minor disseminated malachite in quartz-carbonate veinlets, a select sample analysed 0.44% copper. A select sample of diorite with malachite stains along fractures, returned values of 5973 ppm (0.59%) copper, 11 ppb gold, and 9.0 ppm silver Leriche (1996). Diamond drilling in 1998 returned assays of up to 0.24% copper, and 1.9% zinc over a 14 m. intersection.

(Wells 2000) The Pennie Lake to Rattlesnake Creek area including the Brassy Creek gorge is geologically quite complex with patchy bedrock exposures. It probably represents a roof zone to border phase monzonitic to dioritic intrusions of the Guichon Creek Batholith (Triassic). Two kilometre scale dioritic stocks occur in this area, one southeast of Pennie Lake and the other beneath the benchland northeast of Brassy gorge (to Rattlesnake Creek). Contact metamorphism is evident over a large area with conversion of limestone to marble and mafic volcanics to variably magnetic hornfels with patchy epidote. This setting is complicated by displacements along northwest trending fault zones. Previous exploration identified several magnetite lenses at marble-volcanic contacts in Brassy Creek gorge. The best known of these are the Brassie (Cu, Au, Ag, Zn) and Hasso (Cu, Ag, Au, Zn, Pb) occurrences. These returned copper and zinc values in the 0.2% to 0.45% range, gold up to 1 g/t and silver up to 200 g/t (Hasso) during 1996 exploration (Piroshco, 1996). Fracture controlled mineralization in the adit area 200 to 300 meters to the north has previously returned silver values up to 19.84 oz/t, 0.31% copper and 0.12% lead (Wendebom, 1970). In the lower Rattlesnake Creek area BP Minerals identified disseminated copper mineralization in intrusive breccia in an area where diorites are intruded by

later quartz monzonite and porphyry bodies (Findlay, 1975). Minequest (Ridley, 1983) suggested that a rhyolite intrusion in this area was Tertiary in age (the quartz porphyry?). The Rattlesnake Creek area has gold mineralization in a variety of settings including silicified Ashcroft conglomerate (up to 335 ppb Au), disseminated in porphyry (100ppb) and quartz veinlet stockworks in diorite (further to south up to 780 ppb Au). Some of this gold mineralization is clearly post-Jurassic (Tertiary age?) and has associated anomalous arsenic and mercury values (epithermal). The Northern Brassy-Rattlesnake Creek area features a mixed sequence of Nicola Group (Triassic) mafic volcanic and sedimentary rocks (mainly thick limestone beds) intruded by dioritic to monzonite composition dikes, sills and stocks. These are overlain with angular unconformity by Ashcroft Formation (Jurassic) elastic sediments with basal conglomerates.

TECHNICAL DATA AND INTERPRETATION

Prospecting in 2020 revealed the presence of mineral bearing rocks in the Work Area.

Elevated levels of **Au** were found in all Samples;

Elevated levels of **Ag** were found in all Samples;

Elevated levels of **Cu, Zn** were found in all Samples;

Elevated levels of **Mo** were found in BC 20-6 Sample;

Table I. Particulars of Grab Samples ELLERBECK (2020) BRASSIE CLAIM GROUP

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION All OUTCROP unless indicated
BC 20-1	639463	5623570	Heavily altered Limestone. Iron staining. Iron veinlets. Brittle-sheeted. Breccia/conglomerate. Dark green and purple volcanics. Qtz flooding. Siliceous. No visible metal. Vertical? Strike undetermined
BC 20-2	639470	5623573	Weathered-grey-green-dark limestone. Heavy iron stain. Easily fractured-large vugs. Skarn. Contact with unaltered limestone No visible metal. Dip-vert. Strike-N-S
BC 20-3	639468	5623598	Contact-grey-green volcanic/Limestone. Highly Altered. Gossan appearance. Iron staining. Quartz veinlets with iron in fractures. Multiple quartz flooding events. No visible metal. Hard. Vert. Strike N20E
BC 20-4	639483	5623621	Contact-unaltered Limestone and highly altered limestone. Pale grey. Iron staining in all fractures. Slickenside. No visible metal. Fractures easily-brittle. Skarn. Thin Qtz flooding. Vertical. Strike? Skarn/breccis
BC 20-5	639547	5623625	Highly altered limestone Skarn. Heavy rust stained. No Visible metal. Iron stain in fractures. Crumbly. Near vert. Strike N-S
BC 20-6	639551	5623632	Highly altered Limestone. Iron/Magnetite/hematite veining multiple events. Large vugs. Breccia appearance. Highly fractured. Sulphide staining. No visible metal. Skarn. Dip 70 Strike N20E
BC 20-7	639535	5623628	Highly altered Limestone. Breccia/Skarn. Grey green. Visible metal-pyrite, chalco, magnetite. Vuggy. Iron staining. Qtz flooding. Dip? Strike?
BC 20-8	639527	5623634	Altered grey Limestone. Slickenside. Vugs. Heavy iron staining in fractures, hematite. Crumbly. Red/orange oxide. Contact with lightly altered limestone Dip E20 Strike N-S

Table II. Summarized Assay Results- Grab Samples-Ellerbeck (2020) – BRASSIE

Sample No.	Sample Type	Cu ppm	Pb ppm	Zn ppm	Au ppm	Ag ppm	Mo ppm	Co ppm
BC 20-4	Grab	31	10	108	0.005	0.2	2	10
BC 20-6	Grab	77	13	22	0.012	0.3	39	<1
BC 20-7	Grab	37	6	97	0.007	0.2	2	7
BC 20-8	Grab	204	9	91	0.014	0.4	3	9

PURPOSE

Prospecting was conducted within Tenure 1067655 on August 22, 2020. (Figure 4 Index - Work Areas) to explore for reported geological features, possible mineral showings, and evidence of diamond drilling location(s).

Specifically, the writer was looking for evidence of diamond drilling carried out on and near a “gossan area” in approximately 1973. (from Wells, AR 26155, 2000). (AR 6107 BP Minerals, 1976).

The likely drilling location(s) was located east of a gossan area within Tenure 1067655, but no drill stems found. Float and bedrock were observed and sampled (8 grab samples were obtained).

PROSPECTING RESULTS

Outcrops/Bedrock observance confirmed local/property and regional geological mapping and mineralization was noted and sampled.

In the 2020 Work Area, the writer identified what appears to be the historically noted mineralization of the Brassie Gossan area.

From R.C. Wells, 2000:

“On the property, border phase Guichon diorites intrude Nicola Group (upper Triassic age) mafic volcanic flows and volcanoclastic rocks with thick limestone beds. The limey sequence in the Brassie Creek area has been converted to skarn, hornfels and marble in the thermal aureole to the dioritic intrusions. Several polymetallic (from Cu, Pb, Zn, Ag and Au) were encountered by earlier exploration programs in the area. Previous exploration in the property focussed on either Craigmont style Cu-Fe skarn or copper porphyry targets largely ignoring the potential for polymetallic skarns or mantos”.

And

*“Examination of remnant drill core from 1973 holes indicated many unsampled sections (not split). Records of Inco core sampling during a 1990 property examination by Jim Morin (A. Ablett files) showed some interesting results. In hole 1973-4 (Northern area), a grab from veined garnet-epidote skarn at 50m depth returned 5.16% Zn. Hole 1973-1 a from the **Brassie gossan area 800 metres to the north** (and north of grid coverage) contained sections of silicified limestone proximal to felsic intrusions. One grab sample at 98.45 metres returned 1.29% Zn and 0.13% Pb. This is significant as it extends the area of interest a further 500 metres north from 1999 coverage.”*

ASSAY RESULTS

Elevated levels of **Au** were found in all Samples;
Elevated levels of **Ag** were found in all Samples;
Elevated levels of **Cu, Zn** were found in all Samples;
Elevated levels of **Mo** were found in BC 20-6 Sample;

INTERPRETATIONS AND CONCLUSIONS

The reported presence of various minerals in historic diamond drilling reported to be in the 2020 work location area was confirmed by the Rock Samples taken within Tenure 1067655. Prospecting revealed the presence of mineralization in highly altered outcrop located in old trail banks. This gossan area could be an extension of known skarn mineralization. (Wells, 2000). The potential for economic mineral zones on the Brassie Property could occur as altered/skarn zones in volcanics and limestone related to intrusive related rocks (rhyolites/diorites). The reported (ARIS reports) presence of mineralization in proximity to the BRASSIE CLAIM GROUP was researched, as well as the host rock type for that mineralization. Assays of samples taken during the 2020 Work Program revealed the presence of mineralization (polymetallic) of interest warranting further investigation.

SUMMARY AND RECOMMENDATIONS

The Brassy Creek Claim Group is geologically complex. It is possibly a border phase monzonitic to dioritic intrusions of the Guichon Creek Batholith (Triassic).

Dioritic stocks occur within the claim group in the area which was prospected in 2013, 2015, 2017, 2018, 2019 lying beneath the benchland northeast of Brassy gorge and continuing to Rattlesnake Creek.

Contact metamorphism is evident over a large area with conversion of limestone to marble, some containing mineralization, in the prospected area. This setting is complicated by displacements along northwest trending fault zones. Previous exploration by others identified several magnetite lenses at marble-volcanic contacts in Brassy Creek gorge.

Intrusives have introduced gold values associated with rhyolite and with quartz veinlets in sedimentary rocks in Rattlesnake Creek.

An example of recommended work from Christopher James Gold Corp. 2005 work (Dawson, Kenneth M.) within the current Brassie Claim Group:

“Drill hole B-05-0 1 is planned to intersect the mineralized skarn zones under both trenches A and A1. The collar will be located 45 m northwest of trench A1 and 90 m northwest of trench A, at 639952E, 5622975N. The hole will be drilled at azimuth 145° and dip-45° to an estimated depth of 150 m. An access trail about 60 m long will need to be constructed from the vicinity of trench A.”

In 2018, the author obtained elevated values of mineralization from float samples taken in area of above noted Trench “A” and “A-1. Due to the elevated mineralization found in Sample BRAS B-3, a drill hole in the vicinity of Trench “B” is warranted.

A program of intensive prospecting and mapping of all the outcrops in the vicinity of the Christopher James Gold Corp. 2005 trenching work (Dawson, Kenneth M.) is recommended in order to understand all of the influences of the possible Guichon Batholith intrusive.

From R.C. Wells, 2000:

The exciting potential at Brassie lies in the extent of the intrusive-skarn system and the variety of skarn targets. Economic bulk tonnage skarns, and higher grade polymetallic mantos are possible. There is potential for such environments over a 2 to 3 square kilometres area including the gorge and benchland to the north and northeast. To the writer's knowledge there are no similar polymetallic skarn-manto settings at the margins to the Guichon Creek Batholith with high zinc, silver and gold. There are several mineral occurrences in the Merritt area that have combinations from Cu, Pb, Zn and Ag which are skarn related; gold in these settings is however rare. The gold-copper skarn with retrograde actinolite in the Brassie Creek gorge is more typical of some skarns in the Greenwood-Grand Forks area. Manto style mineralization with Zn, Ag, Au, and Cu is poorly documented in southern BC; some examples may occur in the Tulameen area near Princeton."

The results of the 2020 work program are encouraging.

The observance of limestone Skarn mineralization is in keeping with the presence of similar mineralization elsewhere within the Brassie Claim Group. The author recommends that additional prospecting be conducted as soon as practical in the Brassie Gossan area and tracing mineralization between known mineralized showings.

Positive results from further prospecting programs will add to the knowledge and extent of the known existing intrusive-skarn system area.

ITEMIZED COST STATEMENT – BRASSIE 2020

Exploration Work type	BRASSIE CLAIM GROUP	Days			Totals
PROSPECTING & EXPLORATION					
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Ken Ellerbeck / Owner	August 22, 2020	1	\$500.00	\$500.00	
Q. Ellerbeck / Helper	August 22, 2020	1	\$250.00	\$250.00	
			\$500.00	\$0.00	
			\$250.00	\$0.00	
			\$500.00	\$0.00	
			\$250.00	\$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	4.0	\$48.00	\$192.00	
				\$192.00	\$192.00
Transportation		No.	Rate	Subtotal	
KM Kamloops-Property-return		193.00	\$0.95	\$183.35	
KM SAMPLES TO LAB	August 28, 2020	50.00	\$0.95	\$47.50	
				\$0.00	
				\$230.85	\$230.85
Accommodation & Food	Rates per day				
Hotel			\$0.00	\$0.00	
Camp			\$0.00	\$0.00	
Meals	2 man-days @\$35/day	2.00	\$35.00	\$70.00	
				\$70.00	\$70.00
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					\$2,742.85

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

BC Geological Survey, Ministry of Energy, Mines & Petroleum Resources – MINFILE

British Columbia Survey Branch, The Map Place.

Dawson, K.M. – 2005: Review of 2005 Trenching program and Proposed Drill Program for Brassie Creek Skarn Deposit, Walhachin, B.C. for Christopher Lames Gold Corporation. August 30, 2005.

Hodgson, G.D. – 1984 : Thom Claims Geology for Minequest Exploration Associates Ltd., November 1984. AR13329.

Leriche, P.D., Pirocho, D. – 1996: Summary Report on the Brassie Creek Property for Christopher James Gold Corp. 2 December 1996.

Wells, R.C. – 2000: Report on the 1999 Exploration Program on the Brassie Creek Property for Christopher James Gold Corporation. January 20, 2000. AR 26,155.

Sookochoff, L., - 2012: Report on the 2012 Geological Assessment Report (Event 5399509) on a structural analysis for Ken Ellerbeck, August 2012.

Solat, Hughes P., - 1991: Detailed Geological Mapping Grid Area. August 15, 1991. AR 21625

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

Page: 1
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 13-SEP-2020
 This copy reported on
 14-SEP-2020
 Account: ELLERK

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

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



CERTIFICATE KL20187043

Project: Brassie Creek 2020

This report is for 4 Rock samples submitted to our lab in Kamloops, BC, Canada on 27-AUG-2020.

The following have access to data associated with this certificate:

KEN ELLERBECK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-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 up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
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:

Saa Traxler, General Manager, North Vancouver



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Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 13-SEP-2020
 Account: ELLERK

Project: Brassie Creek 2020

CERTIFICATE OF ANALYSIS	KL20187043
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CERTIFICATE COMMENTS										
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">PUL-31</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	PUL-QC	SPL-21	WEI-21			PUL-31
CRU-31	CRU-QC	LOG-22								
PUL-QC	SPL-21	WEI-21								
		PUL-31								
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA23</td> <td style="width: 33%;">ME-ICP41</td> <td style="width: 33%;"></td> </tr> </table>	Au-AA23	ME-ICP41							
Au-AA23	ME-ICP41									

APPENDIX 2 CERTIFICATE OF ANALYSIS - ASSAY RESULTS

Page: 2 - A
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 13-SEP-2020
 Account: ELLERK

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Project: Brassie Creek 2020

CERTIFICATE OF ANALYSIS KL20187043



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
BC20-4		1.70	0.005	0.2	1.50	12	<10	340	<0.5	<2	0.09	<0.5	10	15	31	3.41
BC20-6		1.70	0.012	0.3	0.31	18	<10	230	<0.5	<2	0.10	<0.5	<1	7	77	6.05
BC20-7		1.01	0.007	0.2	1.09	19	<10	50	<0.5	<2	1.04	<0.5	7	7	37	3.88
BC20-8		0.85	0.014	0.4	1.75	9	<10	90	<0.5	<2	0.26	<0.5	9	48	204	6.91

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



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Page: 2 - B
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 13-SEP-2020
 Account: ELLERK

Project: Brassie Creek 2020

CERTIFICATE OF ANALYSIS KL20187043

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
BC20-4		10	<1	0.05	<10	1.32	802	2	0.04	7	220	10	0.35	<2	8	22
BC20-6		<10	<1	0.34	<10	0.05	59	39	0.09	1	460	13	0.93	<2	4	21
BC20-7		10	<1	0.12	<10	0.75	401	2	0.03	4	490	6	1.41	2	6	16
BC20-8		10	<1	0.11	<10	1.29	320	3	0.05	12	300	9	0.40	<2	19	10

***** 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: 13-SEP-2020
 Account: ELLERK

Project: Brassie Creek 2020

CERTIFICATE OF ANALYSIS **KL20187043**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm
		20	0.01	10	10	1	10
BC20-4		<20	0.01	<10	<10	95	<10
BC20-6		<20	0.01	<10	<10	38	<10
BC20-7		<20	<0.01	<10	<10	63	<10
BC20-8		<20	0.01	<10	<10	211	<10

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

FILING PROOF ATTACHED

8/22/2020



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: ELLERBECK, KENNETH
 CECIL (107608) **Submitter:** ELLERBECK, KENNETH
 CECIL (107608)
Recorded: 2020/AUG/22 **Effective:** 2020/AUG/22
D/E Date: 2020/AUG/22

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: 5810840
Work Type: Technical Work
Technical Items: PAC Withdrawal (up to 30% of technical work required), Prospecting
Work Start Date: 2020/AUG/22
Work Stop Date: 2020/AUG/22
Total Value of Work: \$ 2742.85
Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
1039494	1014024 East	2012/OCT/27	2020/NOV/08	2020/NOV/08	0	81.79	\$ 0.00	\$ 0.00
1039496	1011864 Brassie	2011/OCT/26	2020/NOV/08	2020/NOV/08	0	40.91	\$ 0.00	\$ 0.00
1050121	BRASSIE JOIN	2017/FEB/18	2020/NOV/08	2020/NOV/08	0	102.26	\$ 0.00	\$ 0.00
1056913	BRASSIE WESTOF	2017/DEC/08	2020/NOV/08	2020/NOV/08	0	40.91	\$ 0.00	\$ 0.00
1067655	BRASSIE GOSSAN	2019/APR/02	2020/NOV/08	2020/NOV/08	0	40.90	\$ 0.00	\$ 0.00
1077124	BRASSIE ADD SE	2020/JUL/08	2021/JUL/08	2022/NOV/08	488	81.80	\$ 546.84	\$ 0.00
1077356	BRASSIE NW	2020/JUL/19	2021/JUL/19	2030/NOV/08	3399	20.45	\$ 2579.50	\$ 0.00

Financial Summary:

Total applied work value: \$ 3126.34
PAC name: KEN ELLERBECK
Debited PAC amount: \$ 383.49
Credited PAC amount: \$ 0
Total Submission Fees: \$ 0.0
Total Paid: \$ 0.0

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