



**BC Geological Survey
Assessment Report
38523**



**Ministry of Energy and Mines
BC Geological Survey**

**Assessment Report
Title Page and Summary**

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

TOTAL COST: 10400

AUTHOR(S): J. MARLOW SIGNATURE(S): _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5748816

PROPERTY NAME: STUMP

CLAIM NAME(S) (on which the work was done): 1067807

COMMODITIES SOUGHT: GOD, SILVER, COPPER

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: KAMLOOPS NTS/BCGS: _____

LATITUDE: 50 ° 25 ' 07 " LONGITUDE: 120 ° 25 ' 00 " (at centre of work)

OWNER(S):
1) J. MARLOW 2) _____

MAILING ADDRESS:
PO BOX 1472 KAMLOOPS BC V2C 6L8

OPERATOR(S) [who paid for the work]:
1) SAME AS ABOVE 2) _____

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
QUARTZ CARBONATE, IGNIMBRITES, ANDESITES, METAMORPHIC

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: _____

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			
Radlometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	140 METER ROCK SAMPLES	STUMP	3900
Other			
DRILLING (total metres; number of holes, size)			
Core	6.1 METERS PROSPECTORS DRILL	STUMP	6500
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
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:	10400

TECHNICAL REPORT

describing

PROSPECTING, SAMPLING, AND DRILLING

at the

STUMP PROPERTY

STUMP

NTS Map Sheets 09201/08W
Latitude 50°24'57" N; Longitude 120°24'22" W

Field work performed from April 18th 2019 to July 2nd 2019

Located in the
South Central Mining Division
British Columbia

prepared by

by

JM Marlow

September 25th, 2019

30,523

Mineral Titles Online Viewer

Exploration and Development Work / Expiry Date Change Event Detail

Event Number ID	5748816
Recorded Date	2019/jul/23
Work Type	Technical Work (T)
Technical Items	Geochemical (C), Drilling (TD)
Work Start Date	2019/apr/15
Work Stop Date	2019/jul/22
Total Value of Work	\$ 10000.00
Mine Permit Number	

Summary of the work value:

Title Numbers	1067807
Claim Name/Property	STUMP
Issue Date	2019/apr/09
Work Performed Index	Y
Old Good To Date	2019/jul/27
New Good To Date	2020/aug/07
Numbers of Days Forward	377
Area in Ha	1935.50
Applied Work Value	\$ 9977.05
Submission Fee	\$ 0.00

Financial Summary:

Total Applied Work Value:	\$ 9977.05
PAC name	Marlow
Debited PAC amount	\$ 0.00
Credited PAC amount	\$ 22.95
Total Submission Fees	\$ 0.00
Total Paid	\$ 0.00

Related Summary:

Existing Work Program
Event Numbers

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INTRODUCTION

This report summarizes exploration history, geology, mineralization, and work completed between April 18th 2019 to July 2nd 2019 on the Stump property owned by Jeremy Marlow of Kamloops B.C.

The objective of the work was to prospector drill sample on mineralization exposure around the discovery vein. The program had a short time frame to be completed but was able to core and sample quartz carbonate carrying gold values. Overall the short program did well for time allotted.

PROPERTY LOCATION, CLAIM DATA, ACCESS

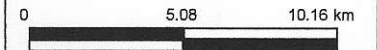
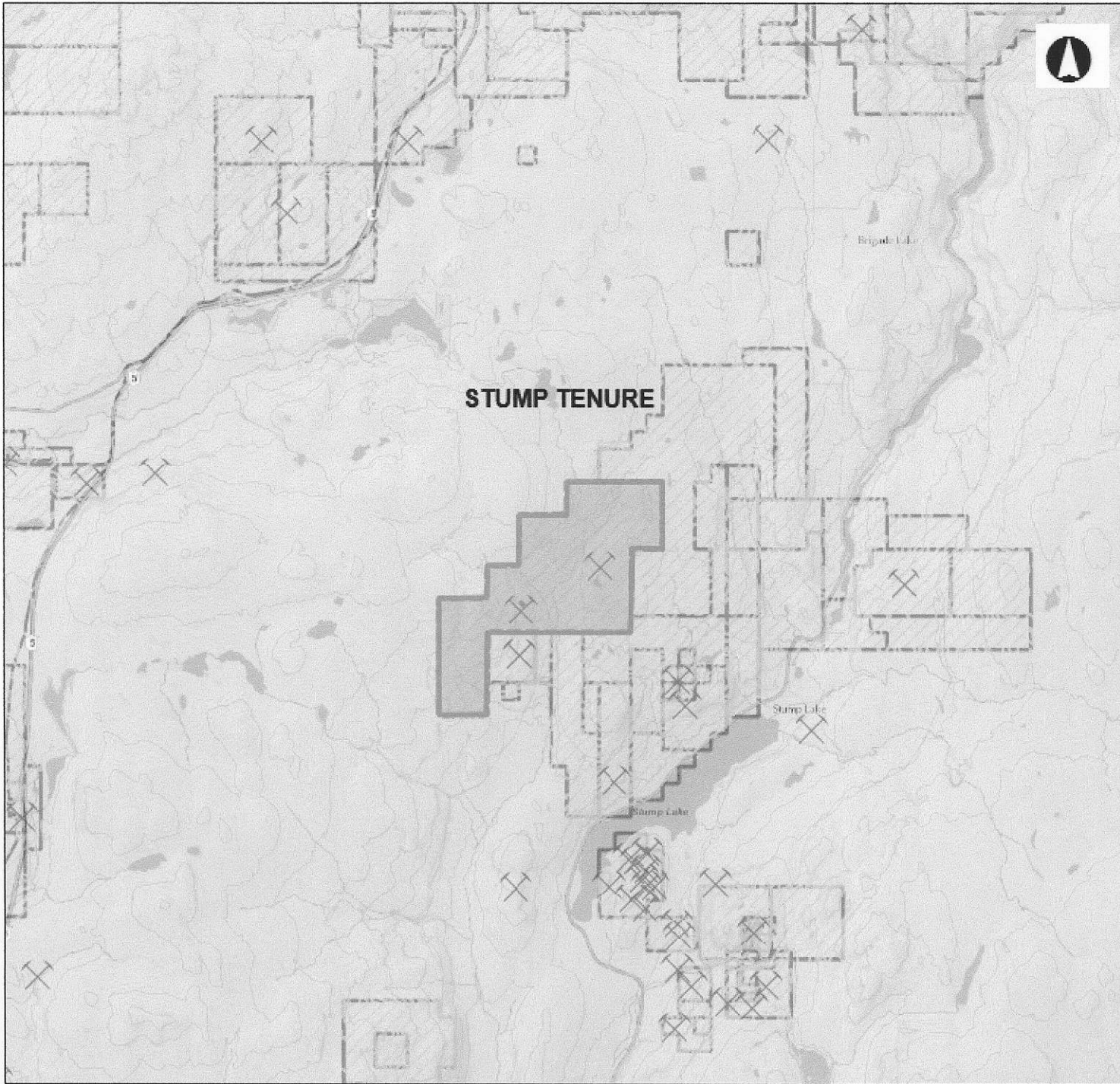
The Stump Property comprises one mineral claims, covering an area of approximately 1,935.5 ha (19.36 sq.km). It is located on the NTS mapsheet 0920I/08W, at latitude 50°24'59" N and longitude 120°25'23" W. The claims are registered with the British Columbia Mineral Titles and are 100% owned and operated by Jeremy Marlow of Kamloops, BC. Specifics concerning claim registration are tabulated below, while the locations of the claims are shown on [Figure 1](#).

Table 1 – Claim registration information

Tenure Number	Claim Name	Area (ha)	Date Recorded	Expiry Date	Work
1067807	STUMP	1935.5	2019-07-23	AUGUST 07,2020	9977.05

The Property is located northwest of Stump Lake, approximately 45 km south of the city of Kamloops and approximately 55 km north of the city of Merritt, in south-central British Columbia along Highway 5A. Access to the Property is via Long Lake Road (also known as Kullogh Road), located approximately 8 km west of Highway 5A. Within the Property, a network of logging roads and trails allows for easy access to most of the claim area. A north-south pipeline (owned by Kinder Morgan) passes along the east side of Anderson Lake and allows for access to the more remote areas of the Property. During the winter months, only the first 2.5 kms of Long Lake Road is ploughed by the city. The remaining 4.5 kms into Anderson Lake are not maintained and are the responsibility of the claim owner/operator.

Kamloops is a full-service city located at the crossroads of several major highways and is a transportation hub in the region. It is serviced by two major railways (Canadian Pacific and Canadian National) as well as multiple airlines via the Kamloops Airport.



1: 250,000

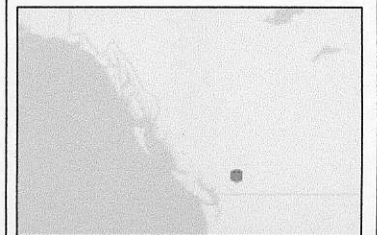
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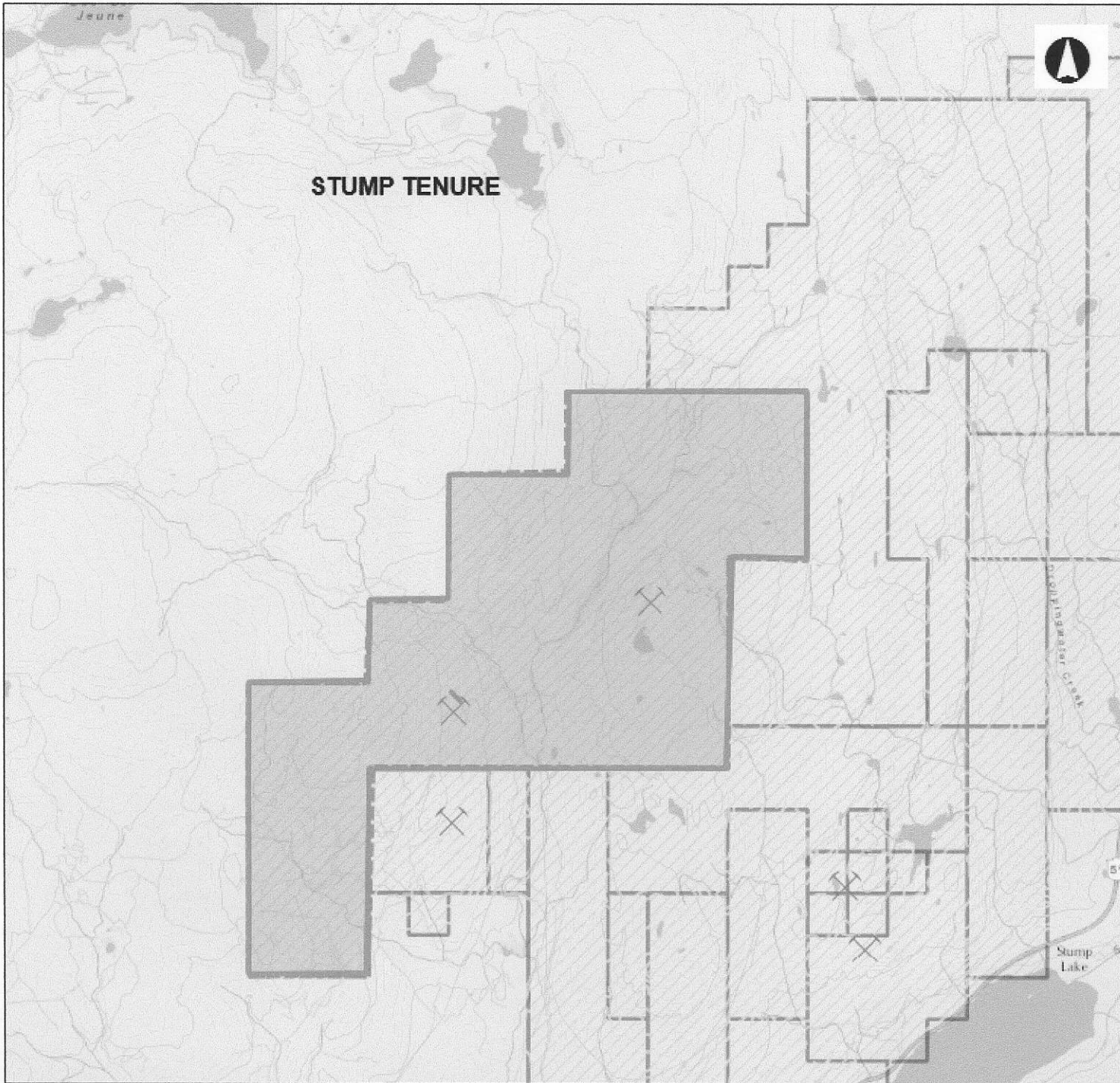
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Datum: NAD83
Projection: Web Mercator

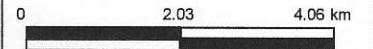
Key Map of British Columbia





CLAIM MAP LARGE

Legend



1: 100,000

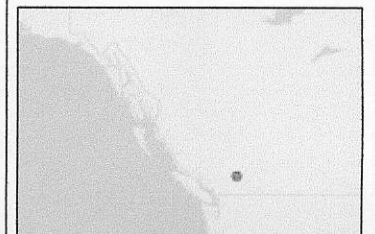
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Datum: NAD83
Projection: Web Mercator

Key Map of British Columbia



GEOMORPHOLOGY AND CLIMATE

The Property is located within the Nicola Valley. The topography is relatively subdued and generally comprised of gently rolling hills. Local elevations range from 1050 m to 1200 m. Lower topographic regions are predominantly comprised of grasslands. Elevation increases to the west while vegetation transitions to a Douglas Fir and Ponderosa Pine dominated environment.

The climate around Stump Lake is characterized as being a semi-arid environment, with summer temperatures of generally 10-26°C and winter temperatures of -14 to -1°C. Annual rainfall averages about 25 mm, the majority of which occurs in the spring and fall months. Winter months can receive an average of 85 cm of snow. The property is mostly snow free from May to mid-October.

HISTORY AND PREVIOUS WORK

The South-Central mining division is host to the prolific Iron Mask Belt and the Guichon Batholith and thus, has a rich history of mining and exploration. This belt is host to a variety of deposits such as the Highland Valley Copper Mine, the previously producing Ajax Copper-Gold Mine. Work at the Afton Mine, located approx. 27 km from the Property has restarted and has an expected annual production in 2018 of 77 thousand ounces of gold and 86 million pounds of copper.

Mining operations on the shores of Stump Lake began in the early 1900's with production continuing until the late 1940's. Since then, the region around Auderson Lake has seen only limited exploration activities over the last century. The following is a summary of previous work in the area as compiled by Norton (2011).

Planet Mine

Mining first began on the south end of Stump Lake in the 1890's after the discovery of narrow high-grade epithermal gold veins. These polymetallic veins contained pyrite, chalcopyrite, galena, sphalerite, tetrahedrite, and lesser bornite, scheelite, arsenopyrite, pyrrhotite, and native gold (Moore et al, 1990) with grades averaging 3.74 g/tonne gold, 111.75 g/tonne silver, 0.03% copper, 1.42% lead, and 0.24% zinc (Shearer, 2009). In 1916, Donahue Mines Company constructed a mill on site and the first major work began on the Joshua and Tubal Cain veins. The Planet Mine and Construction Company later sunk the Enterprise and Planet shaft. Another mill was built at the Planet Mine and remained in operation from 1929 to 1931, when Nicola Mine took possession of the property. Nicola Mine continued operations at the Planet Mine until it was purchased by Goldfield in 1937. Goldfield rebuilt the mill and continued operations until the mine's final shutdown in 1948. By the time the Planet Mine shutdown, it had extracted a total of 8,494 oz gold, 252,939 oz silver, 40,822 lbs copper, 2,205,444 lbs lead, and 367,869 lbs zinc from 77,605 tonnes of ore (Saokochoff, 2010). Although the property has seen extensive exploration since the mine's closure, no company has successfully restarted operations in the Stump Lake Mining Camp.

Anderson Lake

Claims surrounding Anderson Lake have only seen minimal work over the past 40 years with the majority of exploration work carried on the Nicola Horst; a ridge immediately west of the Moore Creek Fault. A chronological synopsis of the companies involved and their exploration completed is given below:

Newconex Canadian Exploration

Exploration around the Anderson Lake region reportedly began with Newconex Exploration in 1972, when an exploration campaign consisting of soil geochemistry and geophysical surveys (IP and Self Potential) were completed on the current Stump 2 claim. These surveys supposedly resulted with the discovery of up to 6 ppm silver being present within the soil, along with localized coincidental IP anomalies. There are no accounts of Newconex following up on these anomalies (Holland, 1981). In addition, no assessment work was filed by Newconex and all accounts of exploration done are anecdotal in nature.

Sumitomo Exploration

It is reported that following the identification of a silver geochemical anomaly by Newconex Ltd., Sumitomo Exploration took ownership of the property in 1973 and performed follow up geochemical and geophysical surveys. Following these surveys, Sumitomo drilled four percussion holes on the Anderson claim block (present day Stump 2 claim) west of the Moore Creek fault. Anecdotal accounts from a drilling contractor employed by the company suggested that Sumitomo intersected 2.0 oz/ton silver over 9 metres in their most northern drill hole. Mineralization was said to have been intersected at approximately 50-60 m depth (bottom of drill hole), contained within a graphitic schist unit. Similar to Newconex, no assessment work was filed and the results of the drill campaign remain anecdotal in nature (Holland, 1981). No follow up work was completed and the claims were allowed to lapse.

Esperanza Exploration Ltd.

James McDonal staked the Anderson, Anderson 1, and Anderson 2 claims in May 1980 and subsequently optioned them to Esperanza Exploration Ltd. One vertical drill hole (DDH 80 An-1) was completed on the property in hopes of intersecting copper porphyry style mineralization. This hole was drilled to a depth of 108.8 m and was designed to twin Sumitomo's drill hole which had reportedly intersected 2.0 oz/ton silver over 9 m. Despite reportedly encountering pyrrhotite, pyrite, and minor sphalerite, no significant economic mineralization was found. While pyrrhotite, pyrite, and minor sphalerite were reportedly encountered, no significant economic mineralization was found. The highest recorded assays were 385 ppm Zn, 4 ppm Pb, 480 ppm Cu, and 1.0 ppm Ag over 3 m. Esperanza did not assay the drill core for gold. The claims were returned to Mr. McDonal and subsequently allowed to lapse. (Holland, 1981)

Goldbrea Developments Ltd.

In 1982, Goldbrea Developments Limited took ownership of the claims and conducted a vector pulse electro-magnetometer survey over 43 km of grid on the Anderson, Anderson 1, 2, 3, and 4 claims. The work was concentrated primarily on the intrusive units located to the west of the Moore Creek fault. The survey identified a 4 km long conductor which was attributed to be part of a graphitic schist package. Four other conductors were also defined over lesser strike lengths

and originally attributed to be part of the same graphitic schist unit. However, it was later thought that these lesser conductors may represent an unknown sulphide bearing package. A northern conductor was reported to correlate to a previously defined copper soil anomaly and further work was recommended on this conductor (Candy and White, 1983)

In 1984, Goldbrea staked the Anderson 5 and 6 claims and optioned the Bag 1 and 2 claims from Canadian Nickle Company Ltd. An extensive exploration program consisting of geological mapping and geophysical surveys were conducted on the Anderson 4 and the Bag claims. Mapping on the south end of these claims identified a healed epithermal vein breccia zone containing minor sulphides. A VLF-EM survey conducted over this same area showed evidence for a deeply buried conductive zone which is hypothesized to be indicative of fluid boiling and host to possible precious metals (White, 1985). Follow up drilling was recommended, but never completed.

In 1986, Goldbrea performed a Pulse Electromagnetic survey on the Anderson 1, 2, and 3 claims. A strong conductor was identified and was believed to underlie the graphitic schist unit. Goldbrea was unable to complete this survey due to nearby forest fires. No further work was performed despite a recommendation to drill on the conductor. (White, 1986).

Post 2010 Work

The Stump West Property was discovered in late 2010 by Chuck and Jeremy Marlow. It was initially thought to be an epithermal quartz-carbonate vein system but may represent the epithermal overprint of a possible nearby copper porphyry. A 3 km long quartz-carbonate vein system was discovered in 2010 with chip samples returning up to 5.3 g/t gold over 10 m and one grab sample returning 6.26 g/t gold. Following the discovery, the Marlows staked the Stump, Stump 2, 3, 4, and 5 claims.

In 2011, Commander Resources Ltd. staked 8 claims in the area and in June 2011, they entered a Letter of Intent to Option with the Marlows. Between 2011 and 2012, Commander conducted geochemical and geophysical surveys as well as mapping, prospecting and diamond drilling. An initial soil geochemistry survey was completed over the majority of the Anderson Lake grid. It was determined that the soil profiles surrounding Stump Lake are complex and vary dependant on location, hence making soil sampling difficult. This geochemical survey defined a 2.20 km long by up to 600 m wide north-northeast trending gold anomaly with results up to 317 ppb gold west of Anderson Lake. (Norton, 2011). Commander continued work on the property with magnetometer and IP surveys over 48 line-km and a 10-hole diamond drill program, totalling 2,073 m. Results from geological, geophysical, and drilling programs suggest that gold mineralization is hosted by multi-episodic chalcedonic quartz veins and quartz breccia. Highlights from drilling include 4.5 g/t gold over 1 m and 0.3 g/t gold over 50 m in DDHSL-12-06. (Norton, 2012).

Discovery Zone

In 2016, the Marlows, using a Prospector drill, completed 5 holes around Anderson Lake on the quartz-carbonate ledge system discovery area. Three holes were drilled in the spring on a previous "dead ledge" to check for nugget effects. Assays returned positive results of 0.8 g/t gold over 1 m. Two other holes were drilled in the vicinity of the discovery vein. Assays

returned up to 2.16 g/t gold over 0.3 m and 0.52 g/t gold over 4 m. These holes did not reach target depth due to hole collapse and time constraints. In 2017, trenching and percussion drilling in the area of the discovery vein produced assays of up to 4.8 g/t gold over 4 m. A 50-tonne stockpile of carbonate material was created for later testing. (Merlow, 2018).

Manto Zone

The Marlows discovered a manto type style zone in late 2011 on the west side of the Nicola Horst, approximately 3 km west of the discovery zone. Surface sampling over 40 m² area resulted in five chip samples averaging 0.35% copper with up to 0.154 g/t gold. In 2014, 19 percussion holes were drilled in this area and extended the surface exposure of the manto zone to 500 m². Samples from this work were not assayed, but home chalcocite tests on the cuttings and XRF test showed evidence of anomalous copper. A “prospector drill” was also used to complete two 15 m holes. These holes intersected 10 m of 0.26% copper, including 5 m of 0.412% copper. In 2017, new logging roadcuts in the area showed evidence of copper mineralization. Soils samples as well as limited grab samples were collected but not yet assayed. (Marlow, 2018).

Shaft Zone

In 2012, a 20 m deep shaft was discovered approximately 250 m north of the Manto Zone, situated on a high temperature quartz vein. No records of previous work have been found to date. Samples collected from this area returned up to 1.98% copper, 96 g/t silver, 63 g/t bismuth, and 27 g/t tellurium. In 2015, three “prospector drill” holes were done along strike, in close proximity to the shaft. Only one hole was assayed and it returned 0.19% copper over 6 m with anomalous gold and molybdenum. Logging activity in 2018 uncovered new areas approximately 200 m north of the shaft. Samples collected from this area returned up to 0.21% copper, while representative chip samples over 4 m length returned up to 0.10% copper. (Marlow, 2018).

Fire Zone

In 2016, a new quartz-carbonate zone was established after prospecting in a burn area from a 2015 forest fire. Representative chip samples returned 2.36 g/t gold over 20 m, while grab samples returned 0.68 g/t gold over 25 m². (Marlow, 2018).

GEOLOGICAL SETTING

Regional Geology

The Stump West Property occurs within the Intermontane Belt, a low lying, north-northwest striking regions that lies between the rugged Coast Belt and the Omineca Belt. This former island arc was accreted to present day North America about 180-175 million years ago, and is regionally comprised of weakly metamorphosed island arcs and ocean basin (Mathews and Monger, 2005). These three belts in part comprise the Quesnellia Terrain.

The region around Stump Lake is underlain by late Triassic arc-volcanics and sedimentary facies designated to the Nicola Group. Facies changes within these units are indicative of a depositional setting which rapidly fluctuated between a sub0areal and sub-aqueous environment.

Property Geology

Mapping by Commander in 2011 identified five dominant rock types within the Property. These rocks are assigned to the Triassic Nicola Group volcanics and volcaniclastics to the east, and the Tertiary Nicola Horst group to the west. The Tertiary aged, north striking Moore Creek fault separates these two units.

The Nicola Group volcanics can be further subdivided into coevally deposited, intercalated andesites, ignimbrites (volcaniclastics), and basalts. Volcaniclastics dominate the Nicola group in this area and are characterized as very coarse grained, generally unaltered, moderately magnetic, and often containing plagioclase and hornblende phenocrysts up to 3 mm wide. On surface, it is strongly weathered with a finer grained appearance and often mislabelled as andesite. Basalts are dark grey-green, non-magnetic, often vesicular, and exhibit very fine micro-granular texture. Ignimbrites are present on a knoll (“Repeater Hill”), located 1.5 m northeast of Anderson Lake. (Norton, 2012).

The Nicola Horst is represented predominantly by unaltered monzonite with lesser, intensely altered schist. The monzonite unit is light grey in colour, medium grained, equigranular, unaltered, and contains trace disseminated pyrite. A local gneissic foliation within the monzonite may indicate later metamorphic deformation. East of the monzonite, a 500-800 m wide, north trending, fine grained and strongly altered Tertiary amphibolite schist is present. (Norton, 2012). Strong mineralization is found within the amphibolite schist.

2018/2019 WORK

Table 2 below details work that was completed in 2018 / 2019, while Figures 4 and 5 show the locations of where the work was conducted.

Table 2 – Days covered in previous report

Date	Work Done
Sept 30	Chuck and Jeremy Marlow went out to look for water options for drilling on the west side of the property. Seeing that recent logging was done in prospected, uncovering copper showings along both of the new roads. Priority was moved to this new area for exploration.
Oct 01	Chuck and Jeremy went out to prospect the new log slash area.
Oct 02	Chuck and Jeremy trenched at end of a new road for a drill setup.
Oct 03	Chuck and Jeremy took “pionjar 120 drill” out to drill new copper zone; they got water and anchor holes drilled. They used truck bed for drill base. Water is scarce but workable.
Oct 04	Chuck and Jeremy loaded pickup with “prospector drill” and went to property. Drill was anchored and started coring; rock is very broken and weather with recovery under 50%. Hole was abandoned due to poor recovery and hole conditions.

Oct 05	Chuck and Jeremy went out to property to try second hole, hoping to get better recovery. Second hole was collared near intrusive with copper mineralization. Rock is badly weathered and recovery is poor again. Drilling was stopped after 8 feet due to conditions.
Nov 19	Chuck and Jeremy split and sampled core.
Nov 20	Chuck and Jeremy split and sampled core from previous years.

Table 2 – Days covered in this report

Date	Work Done
2019-04-18	Chuck and Jeremy Marlow went out to prospect new logging roads found last year
2019-04-19	Chuck and Jeremy went out to prospect and start sampling along road cut at 5 meter intervals
2019-04-20	Chuck and Jeremy continued sampling road cut at 5 meter intervals
2019-04-26	Chuck and Jeremy, along with a geologist mobed prospectors drill from heffley creek to property. They also set up camp for this drilling program consisting of a small wall tent. They also set up the drill on outcropping of quartz carbonate where multi-gram gold assays have been sampled.
2019-04-27	Jeremy and geologist ran the prospectors drill and cored down to 13 feet. Quartz carbonate was encountered.
2019-04-28	Jeremy and geologist continued coring down to 20 feet and encountered quartz carbonate down to end of hole. Chuck drove out to property and helped de-mobe the drill back to Heffley creek
2019-05-04	Chuck and Jeremy split and sampled core.
2019-07-02	Chuck and Jeremy went to property for half day to prospect around the fire zone more and took 2 samples for assaying at a later date than this report.
	Jeremy took samples to Port Coquitlam for xrf analysis, results are still unavailable at the time of this report.

INTERPRETATION AND CONCLUSIONS

The work in this report adds to the previous nine years of exploration on the Stump Property by the Marlow family. With this years work concentrated back on the west side of the Nicola Horst, concentrating on the newly exposed copper mineralization from recent logging activities. Samples from drill cuttings returned up to 0.22% Cu. Core sample values will be reported at a later date.

From April 18th 2019 to July 02nd 2019, 27 rock rep chip samples were taken at 5 meter intervals along logging road, a 20 foot prospectors drill hole was done with good results, and new fluorite veining was found near the fire zone, samples will be sent for analysis at a later date.

It is still in the opinion of the author this property is in a sub-volcanic setting with multiple deposit types and formations. It is also possible this property is an Intrusion Related Gold System due to several factors which include a strongly reduced areomagnetic signature, high fluorine, continental sedimentary assemblage, Bismuth, Molybdenum, Gold, and Tellurium anomalies, typically under 0.5% sulphides, the metallogenic signature is favourable. Also, there is very little arsenic or antimony and higher bismuth and tellurium which is usually indicative of being lower in the zoning or closer to the source magma fluids.

STATEMENT OF COSTS

DATE	# men	LIVEOUT	WAGES	VEHICLE	DRILL
<i>April 18th</i>	<i>2 men</i>	<i>120</i>	<i>800</i>	<i>130</i>	
<i>April 19th</i>	<i>2 men</i>	<i>120</i>	<i>800</i>	<i>130</i>	
<i>April 20th</i>	<i>2 men</i>	<i>120</i>	<i>800</i>	<i>130</i>	
<i>April 26th</i>	<i>3 men</i>	<i>350</i>	<i>1100</i>	<i>260</i>	<i>100</i>
<i>April 27^h</i>	<i>2 men</i>	<i>300</i>	<i>900</i>	<i>130</i>	<i>100</i>
<i>April 28th</i>	<i>3 men</i>	<i>350</i>	<i>1100</i>	<i>130</i>	<i>100</i>
<i>May 4th</i>	<i>2men</i>	<i>75</i>	<i>400</i>	<i>50</i>	
<i>July 2nd</i>	<i>2 men</i>	<i>80</i>	<i>400</i>	<i>130</i>	
<i>Report Prep</i>			<i>1000</i>		
<i>Assays</i>	<i>199.24</i>				
TOTAL	\$199.24	\$1515	\$7300	\$1090	\$300
Grand Total				\$10,404.24	

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2010 Geological Assessment Report on a Structural Analysis of the Stump Lake Property.
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1985 Geophysical-Geochemical Exploration Report on Anderson 4 Bag 1& 2 claims, Goldbrea Developments Ltd.

1986 Geophysical Report on a Pulse Electromagnetometer Survey on the Anderson 1, 2,
and 3 Claims, Nicola Mining Division, Goldbrea Developments Ltd.

STATEMENT OF QUALIFICATIONS

I, Jeremy Marlow, prospector, with business and residential addresses in Kamloops, British Columbia do hereby certify that:

1. I am a third generation Metis prospector.
2. I have worked in the mining industry since the age of 14, and have been involved in multiple aspects of the mining industry.
3. I am the owner of the property and have personally overseen and was involved in all work included in this report
4. I have personally reviewed all data resulting from this work.
5. I acted as the Level 1 First Aid person in the field.

Jeremy M. Marlow

1T02257 WEST
SAMPLE MAP 2019
Legend







Mineral Occurrences (MINFI)

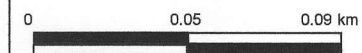
STATUS_CODE

-  All others
-  Producer
-  Past Producer
-  Developed Prospect

Contours - (1:20,000)

FCODE

-  Contour - Index
-  Contour - Index Indefinite
-  Contour - Index Depression
-  Contour - Index Depression Indt
-  Contour - Intermediate
-  Contour - Intermediate Indefinite



1: 2,256

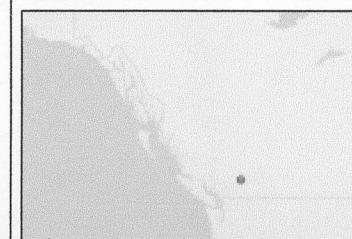
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Datum: NAD83
Projection: Web Mercator

Key Map of British Columbia



5 METER REP CHIP SAMPLES 001 TO 027

SAMPLE 001 TO SAMPLE 27
SAMPLING AREA

1067807





1TO5000 WEST
 SAMPLE MAP 2019
Legend

Mineral Occurrences (MINFI)

STATUS_CODE

- All others
- Producer
- Past Producer
- Developed Prospect

Contours - (1:20,000)

FCODE

- Contour - Index
- Contour - Index Indefinite
- Contour - Index Depression
- Contour - Index Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate Indefinite

0 0.10 0.20 km



1: 5,000

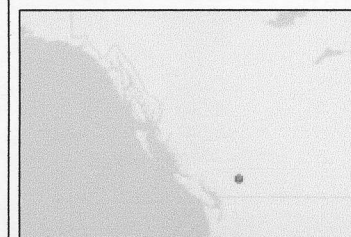
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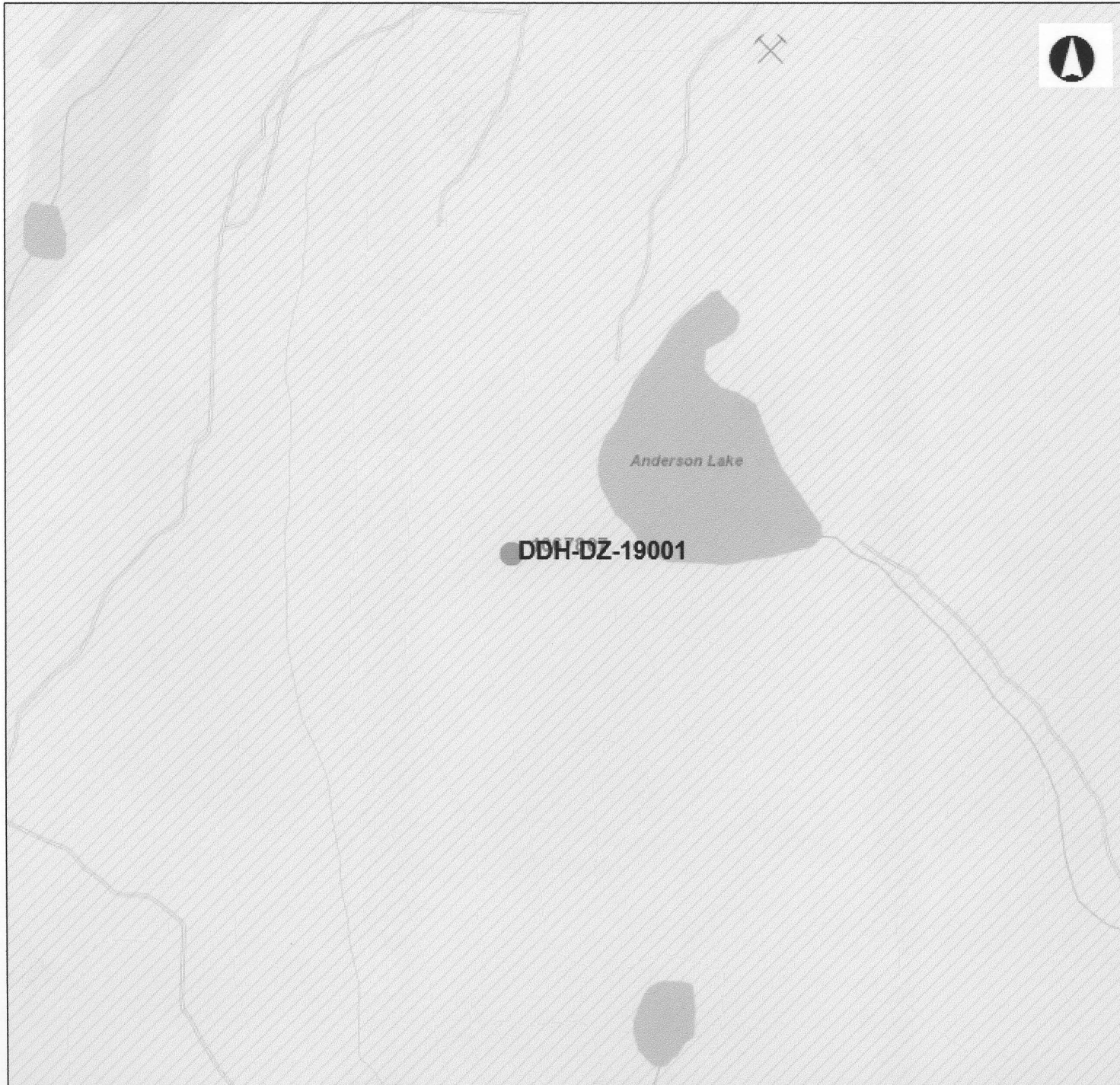
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Datum: NAD83
 Projection: Web Mercator

Key Map of British Columbia





Legend

Mineral Occurrences (MINFI)

STATUS_CODE

- All others
- Producer
- Past Producer
- Developed Prospect

Contours - (1:20,000)

FCODE

- Contour - Index
- Contour - Index Indefinite
- Contour - Index Depression
- Contour - Index Depression Inde
- Contour - Intermediate
- Contour - Intermediate Indefinite

0 0.20 0.41 km



1: 10,000

Copyright/Disclaimer

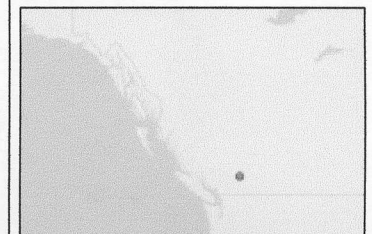
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Datum: NAD83





Projection: Web Mercator

Key Map of British Columbia







Legend
Mineral Occurrences (MINFI)

STATUS_CODE

-  All others
-  Producer
-  Past Producer
-  Developed Prospect

Contours - (1:20,000)

FCODE

-  Contour - Index
-  Contour - Index Indefinite
-  Contour - Index Depression
-  Contour - Index Depression Inde
-  Contour - Intermediate
-  Contour - Intermediate Indefinite

0 0.10 0.20 km



1: 5,000

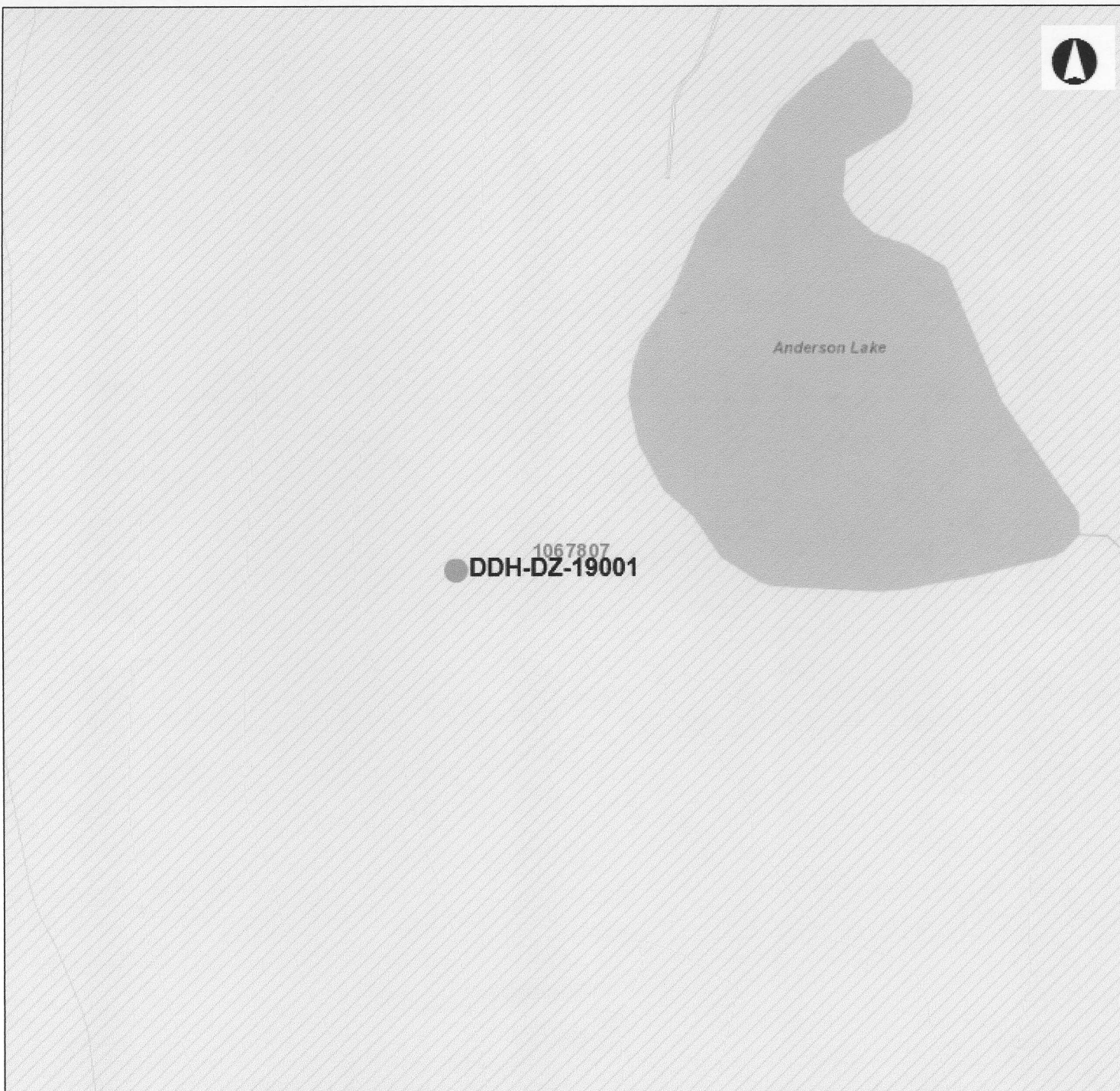
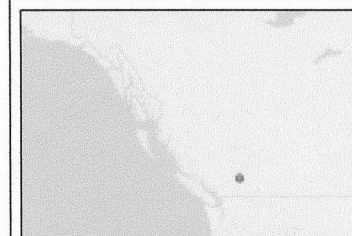
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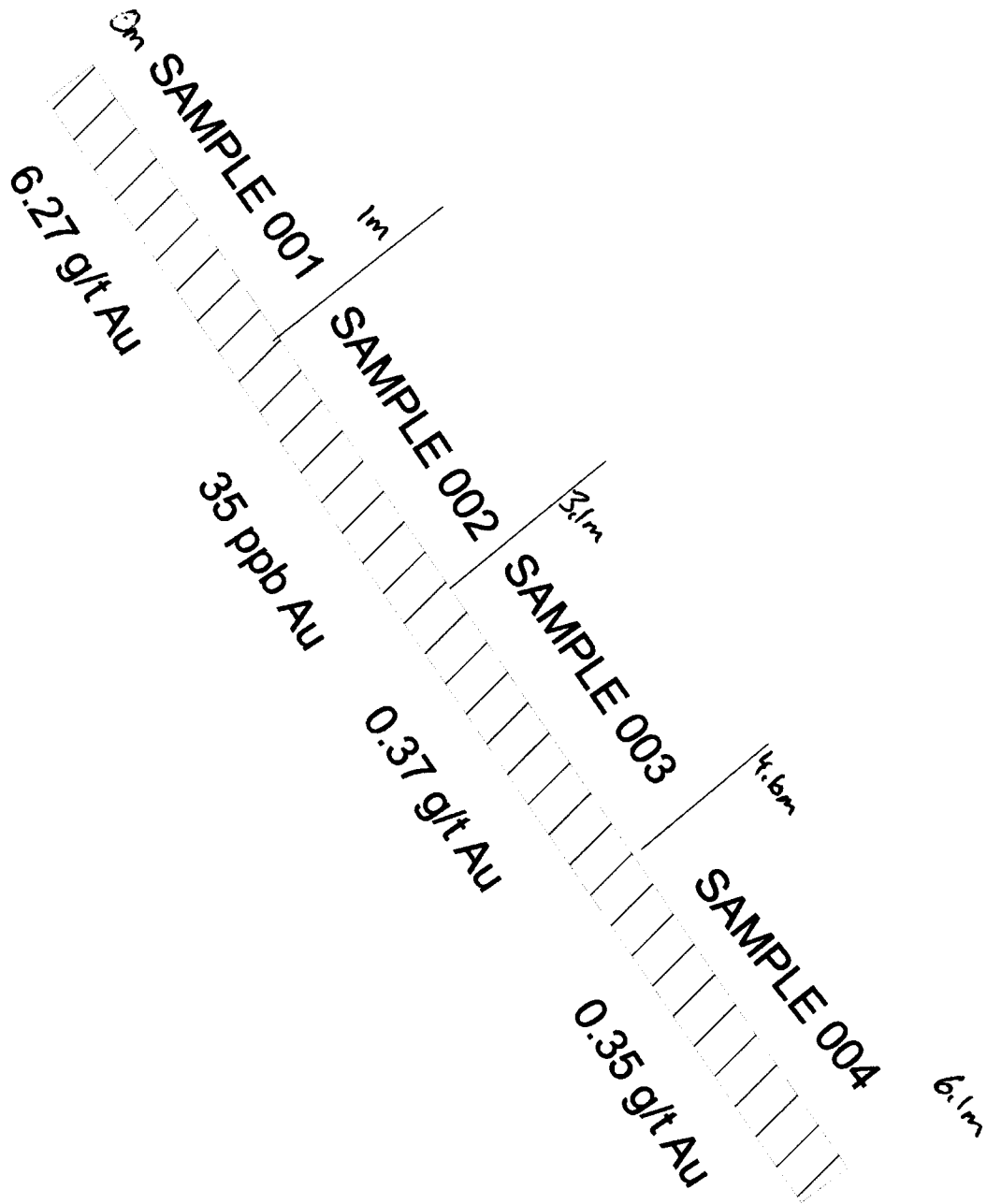
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Datum: NAD83

Projection: Web Mercator

Key Map of British Columbia


DDH-DZ-19001
AZI: 90 DIP: -50



Sheet1

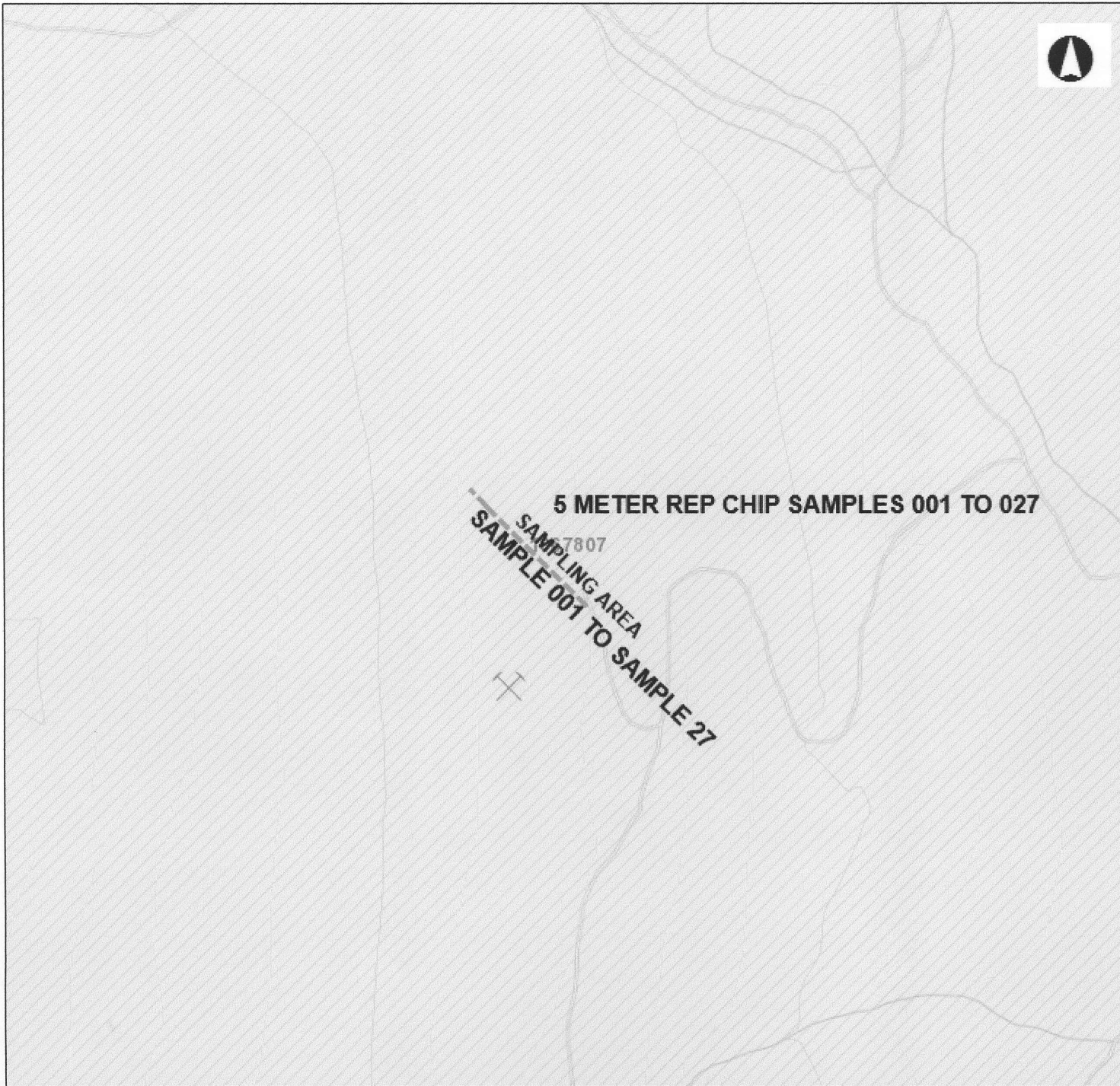
Core logs for ddh-dz-19001

FROM	TO	NOTES
0m	0.3m	Quartz Carbonate fluorite vein at 5 cm
0.3m	0.97m	Quartz Carbonate
1.79m	1.96m	Quartz Carbonate
2.15m	2.34m	half Quartz Carbonate, 10% sulphides
2.75m	2.84m	Hematite Carbonate (fizzes)
3.13m	6.1m	Quartz Carbonate

Samples QC19001-001 to 004

QC19001-001

0m	1m	1
1m	3.1m	2.1
3.1m	4.6m	1.5
4.6m	6.1m	1.5



1T0 10000 WEST
 SAMPLE MAP 2019
Legend

Mineral Occurrences (MINFI)

STATUS_CODE

- All others
- Producer
- Past Producer
- Developed Prospect

Contours - (1:20,000)

FCODE

- Contour - Index
- Contour - Index Indefinite
- Contour - Index Depression
- Contour - Index Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate Indefinite

0 0.20 0.41 km



1: 10,000

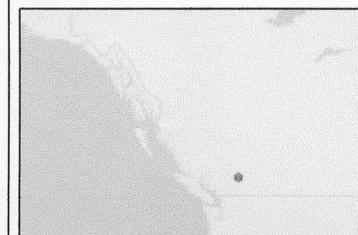
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Datum: NAD83
 Projection: Web Mercator

Key Map of British Columbia



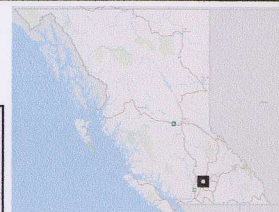
Sheet1

		RQD							
FROM	TO	Recovery length	RQD length	# of discons	Weathering/Alteration	Joints	# of sets	Longest	
0m	1m	85		18 20 plus	w2	8 plus		5	18
1m	2m	79		0 20 plus	a2		12	5	0
2m	3m	92		0 20 plus	a2		12	5	0
3m	4m	95	33	17	a1		12	5	12
4m	5m	98	40	17	a1		12	3	16
5m	6.1m	105	67	6	a1		12	3	23

SAMPLE NUMBER	LOCATION E	LOCATION N	ROCK TYPE	COLOUR	SIZE ROCK OVER 1cm	ROCK% / DIRT%
JM19-001	682361	5587680	METAMORPHIC	GREY-BLACK	5cm	10/90
JM19-002	682365	5587676	METAMORPHIC	BROWN-GREY	7cm	40/60
JM19-003	682368	5587673	METAMORPHIC	BROWN	1cm	10/90
JM19-004	682370	5587668	METAMORPHIC	GREY	4cm	20/80
JM19-005	682374	5587664	METAMORPHIC	BROWN	7cm	30/70
JM19-006	682376	5587660	METAMORPHIC	TAN	5cm	50/50
JM19-007	682380	5587656	METAMORPHIC	GREY	1.5cm	10/90
JM19-008	682382	5587652	METAMORPHIC	GREY	2.5cm	10/90
JM19-009	682385	5587648	METAMORPHIC	GREY	2.5cm	20/80
JM19-010	682388	5587644	METAMORPHIC	BROWN-GREY	2.5cm	10/90
JM19-011	682390	5587640	METAMORPHIC	BROWN-GREY	5cm	60/40
JM19-012	682393	5587636	METAMORPHIC	GREY	2.5cm	10/90
JM19-013	682396	5587631	METAMORPHIC	BROWN	7cm	30/70
JM19-014	682399	5587627	METAMORPHIC	GREY	5cm	20/80
JM19-015	682401	5587623	METAMORPHIC	BROWN-BLACK	2.5cm	20/80
JM19-016	682403	5587618	INTRUSIVE	BROWN	4cm	50/50
JM19-017	NO SAMPLE					
JM19-018	682408	5587609	METAMORPHIC	GREY	7cm	40/60
JM19-019	682410	5587604	METAMORPHIC	GREY	4cm	40/60
JM19-020	682414	5587600	METAMORPHIC	GREY	7cm	40/60
JM19-021	682417	5587596	METAMORPHIC	BROWN	1cm	10/90
JM19-022	682419	5587592	METAMORPHIC	BROWN	2.5cm	30/70
JM19-023	682422	5587588	METAMORPHIC	BROWN	5cm	50/60
JM19-024	682425	5587584	METAMORPHIC	BROWN	2.5cm	10/90
JM19-025	682429	5587582	METAMORPHIC	BROWN	2.5cm	30/70
JM19-026	682433	5587578	METAMORPHIC	BROWN	2.5cm	10/90
JM19-027	682438	5587574	METAMORPHIC	GREY	7cm	50/50



WEST 5M CHIP SAMPLE



Legend

Mineral Titles (MTO)

Title (current)

- LEASE
- CLAIM

Reserves

- No Registration
- Conditional
- Heritage/Historic Site

Private Land Layers

Integrated Cadastral Fabric - Crown Ownership - All



Integrated Cadastral Fabric - Federal Ownership



Integrated Cadastral Fabric - Municipal Ownership



Integrated Cadastral Fabric - Outlined



Integrated Cadastral Fabric - Private Ownership



Integrated Cadastral Fabric - Provincial Crown Ownership



Integrated Cadastral Fabric - Unknown Ownership

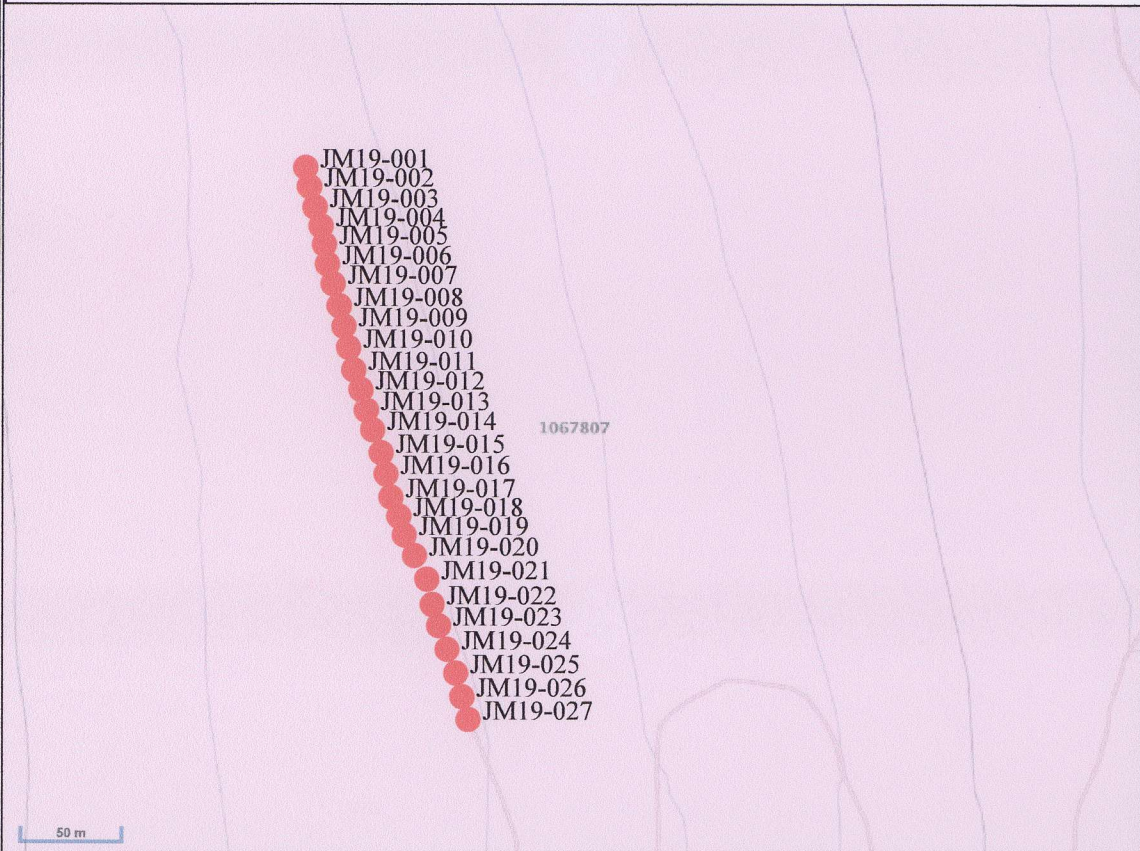


Base Maps

Mapsheets Grid (1:20,000)



Manchop Grid - 20K



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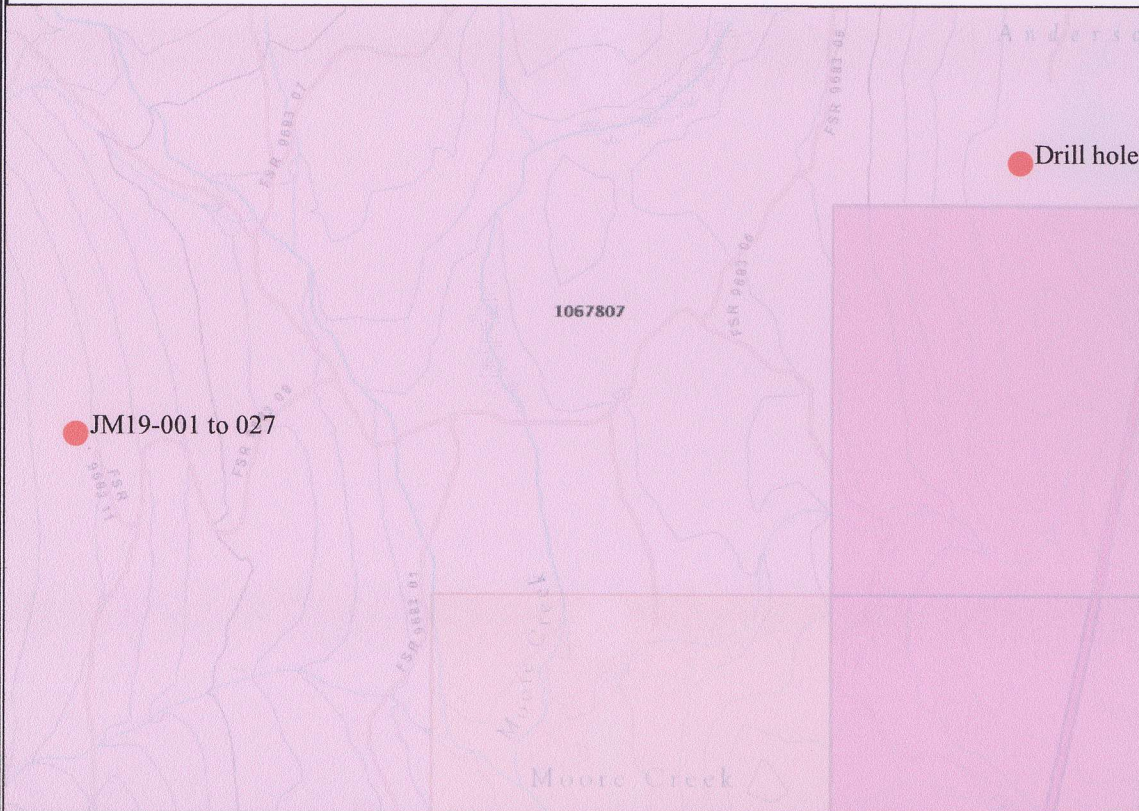
Printed using the Mineral Titles Online (MTO) application.

Center: 50°24'43", -120°25'47"
Scale: 1 : 4232
SRS: EPSG:3857
UTM Zone: 10





Sample sites 2019



Legend

Mineral Titles (MTO)

Title (current)

- LEASE
- CLAIM

Reserves

- No Registration
- Conditional
- Heritage/Historic Site

Private Land Layers

- Integrated Cadastral Fabric - Crown Ownership - All
- Integrated Cadastral Fabric - Federal Ownership
- Integrated Cadastral Fabric - Municipal Ownership
- Integrated Cadastral Fabric - Outlined
- Integrated Cadastral Fabric - Private Ownership
- Integrated Cadastral Fabric - Provincial Crown Ownership
- Integrated Cadastral Fabric - Unknown Ownership

Base Maps

- Mapsheet Grid (1:20,000)
- Mapsheet Grid - 2017

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Printed using the Mineral Titles Online (MTO) application.

Center: 50°24'40", -120°25'1"
Scale: 1 : 16927
SRS: EPSG:3857
UTM Zone: 10



Drill Hole Location
684364E
5588073N

Quality Analysis ...



Innovative Technologies

This is your final copy. If you require an original to be mailed by post please advise, otherwise this email will be deemed sufficient.

Invoice No.: **A19-06887**
Purchase Order:
Invoice Date: **30-May-19**
Date submitted: **22-May-19**
Your Reference: **Stump**
GST #: **R121979355**

Jeremy Marlow
P.O. Box 1472
Kamloops B.C.
Canada

ATTN Jeremy Marlow

INVOICE

No. samples	Description	Unit Price	Total
4	RX1-T (Kamloops)	\$ 11.75	\$ 47.00
4	1E3-Kamloops	\$ 13.00	\$ 52.00
4	1A2-Kamloops	\$ 17.00	\$ 68.00
1	1A3-Kamloops	\$ 22.75	\$ 22.75
Subtotal: :			\$ 189.75
GST-BC-5% :			\$ 9.49
AMOUNT DUE: (CAD) :			\$ 199.24

Net 30 days. 1 1/2 % per month charged on overdue accounts.

Thank you for your payment!
Charged VISA May 31 2019
Auth#:084612 JR

Please reference the invoice number when making a payment by Bank/Wire transfer. Intermediary Bank Fees are the responsibility of the client. If payment is made by direct/wire transfer, please send payment notifications to ancaster@actlabs.com Thank you!

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL ancaster@actlabs.com ACTLABS GROUP WEBSITE <http://www.actlabs.com>





Date Submitted: 22-May-19
Invoice No.: A19-06887
Invoice Date: 29-May-19
Your Reference: Stump

Jeremy Marlow
P.O. Box 1472
Kamloops B.C.
Canada

ATTN: Jeremy Marlow

CERTIFICATE OF ANALYSIS

4 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT A19-06887

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with a large, stylized "E" and "S".

Emmanuel Esemé, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1 888 228 5227 FAX +1 905.648.9613
E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A19-06887

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
QC1901-001	> 5000	4.3	< 0.5	20	681	1	4	2	30	1.21	7	< 10	30	1.9	< 2	5.60	8	10	2.43	< 10	< 1	0.27	< 10
QC1901-002	35	0.3	< 0.5	73	1030	2	10	2	56	2.49	9	< 10	71	1.4	< 3	5.12	17	14	4.11	< 10	4	0.56	< 10
QC1901-003	371	2.2	< 0.5	5	581	< 1	< 1	< 2	3	0.34	< 2	< 10	12	2.1	< 2	8.94	< 1	8	0.40	< 10	< 1	0.11	< 10
QC1901-004	352	2.7	< 0.5	7	528	1	< 1	< 2	3	0.41	< 2	< 10	15	3.7	< 2	8.30	1	5	0.50	< 10	< 1	0.15	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA
QC1901-001	0.82	0.015	0.070	0.37	4	3	338	< 0.01	< 20	< 1	< 2	< 10	41	< 10	5	2	6.27
QC1901-002	1.54	0.017	0.152	0.25	3	6	159	< 0.01	< 20	1	< 2	< 10	87	< 10	10	4	
QC1901-003	0.06	0.015	0.004	0.02	< 2	< 1	611	< 0.01	< 20	3	< 2	< 10	6	< 10	2	< 1	
QC1901-004	0.08	0.016	0.007	0.02	< 2	< 1	683	< 0.01	< 20	2	2	< 10	10	< 10	2	< 1	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas		0.3	< 0.5	69	1000	2	23	97	122	6.85	228	< 10	746	0.9	< 2	0.17	13	83	5.03	20	3	1.17	11
GXR-6 Cert		1.30	1.00	65.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	98.0	5.58	35.0	0.0680	1.87	13.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6410	440	2	37	9	24	1.87	93		77	7.4	< 2	0.05	90	26	6.04	< 10		0.96	42
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 45e (Aqua Regia) Meas				734	388		405	9	30	3.70	7		121			0.04	45	822	20.3	10		0.06	
OREAS 45e (Aqua Regia) Cert				709.0	400.000		357.0	14.3	30.6	3.32	11.4		139			0.032	52	848.0	22.650	11.7		0.053	
SQ48 Meas																							
SQ48 Cert																							
OREAS 922 (AQUA REGIA) Meas		0.8	0.6	2380	764	< 1	35	60	258	2.92	6		84	0.8	5	0.47	19	49	4.95	< 10		0.51	41
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		1.6	< 0.5	4430	838	< 1	33	81	330	2.80	8		46	0.7	13	0.46	21	44	5.53	< 10		0.41	35
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OXN117 Meas																							
OXN117 Cert																							
OREAS 907 (Aqua Regia) Meas		1.3	0.5	6470	338	5	5	33	146	1.25	34		240	1.1	14	0.31	45	9	7.84	20		0.39	40
OREAS 907 (Aqua Regia) Cert		1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1
OREAS 214 Meas	3030																						
OREAS 214 Cert	3030																						
OREAS 254 Fire Assay Meas	2700																						
OREAS 254 Fire Assay Cert	2550																						
Oreas 621 (Aqua Regia) Meas		75.4	287	3730	529	13	24	> 5000	> 10000	1.76	80			0.6	3	1.39	30	34	3.22	10	4	0.38	19
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
QC1901-001 Orig	> 5000																						
QC1901-001 Dup	> 5000																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA
GXR-6 Meas	0.39	0.078	0.034	0.01	5	21	27		< 20	< 1	< 2	< 10	165	< 10	5	16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	
OREAS 904 (Aqua Regia) Meas	0.20		0.098	0.04	3	5	17		< 20		< 2	< 10	32		19		
OREAS 904 (Aqua Regia) Cert	0.143		3.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2		
OREAS 45e (Aqua Regia) Meas	0.10	0.033	0.027	0.03		73	4		< 20		< 2	< 10	269		5		
OREAS 45e (Aqua Regia) Cert	0.095	0.027	0.029	0.044		78	4.05		10.70		0.072	1.73	295.0		5.74		
SQ48 Meas																	30.2
SQ48 Cert																	30.25
OREAS 922 (AQUA REGIA) Meas	1.35	0.032	0.062	0.38	3	4	14		< 20		< 2	< 10	36	< 10	22	22	
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3	
OREAS 923 (AQUA REGIA) Meas	1.38		0.057	0.66	3	4	12		< 20		< 2	< 10	34	< 10	19	33	
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5	
OXN117 Meas																	7.77
OXN117 Cert																	7.679
OREAS 907 (Aqua Regia) Meas	0.23	0.102	0.021	0.06	6	2	12	0.02	< 20	< 1	< 2	< 10	6	< 10	8	12	
OREAS 907 (Aqua Regia) Cert	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7	
OREAS 214 Meas																	
OREAS 214 Cert																	
OREAS 254 Fire Assay Meas																	
OREAS 254 Fire Assay Cert																	
Oreas 621 (Aqua Regia) Meas	0.44	0.176	0.031	4.26	125	2	14		< 20		< 2	< 10	13	< 10	8	60	
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0	
QC1901-001 Orig																	
QC1901-001 Dup																	
Method Blank	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Tl	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank																	

Equipment And Drilling Procedure

The drill used is a Boyles X-Ray diamond drill built in 1972 and is used to drill AQ drill core. The drill head has a EW drive rod which has a coupler to AQ size drill core. The procedure is labour intensive as 2 foot rods have to be added below the drill head, then once able to add a 5 foot rod, the short rods are pulled up and the 5 foot rod is lowered down the hole. The reason for going with AQ size drill core is the capability of using a wire line system for retrieving the core tube holding the core. The EW rods used in years past had to be pulled out of the hole each time there was a block in the core tube. This caused the hole to collapse and was a struggle to get back the bottom of the hole. The wire line procedure to pull the core tube is by hand pulling with a rope attached to the overshot.