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BC Geological Survey
Assessment Report
38870

Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geological & Geochemical Drill Report

TOTAL COST: $482,240.38

AUTHOR(S): Steven Bulitude, Daniel Lui

SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-1-836, July 21, 2016 - March 31, 2021

YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Statement of Work - Event # 5763511, November 13, 2019
Statement of Work - Event # 5773418, February 07, 2020

PROPERTY NAME: Berg - Mine # 0200116

CLAIM NAME(S) (on which the work was done): 594485, 672023

COMMODITIES SOUGHT: Copper, molybdenum, silver, gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: Berg: 093E046; Tahtsa Range: 093E007; Tara: 093E091; Bergette: 093E052

MINING DIVISION: Omenica

NTS/BCGS: 093E14, 093E13, 093E11 / 093E083

LATITUDE: 54 o 43 '40 " **LONGITUDE:** 127 o 26 '24 " **(at centre of work)**

OWNER(S):
1) Thompson Creek Metals Company Inc. (ID 283374)
2)

MAILING ADDRESS:
299 Victoria Street, Suite 200 Prince George, BC V2L 5B8

OPERATOR(S) [who paid for the work]:
1) Thompson Creek Metals Company Inc. (ID 283374)
2)

MAILING ADDRESS:
299 Victoria Street, Suite 200 Prince George, BC V2L 5B8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Commodities: Copper, Molybdenum , Silver, Gold; Significant Minerals: Chalcopyrite, Molybdenite, Chalcocite, Sphalerite, Gale

Alteration Type: Argillic, Propylitic, Potassic, Sericitic, Oxidation — Age: Jurassic , Hazelton Group

Deposite Classification: Porphyry, Hydrothermal — Type: L04

Shape: Irregular Character: Stockwork, Disseminated — Dimension: 1700m x 1000m

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 5139, 5646, 24260, 8773, 20012, 29632, 5429
5500, 5054, 5672, 5671, 32692, 19361, 13703, 35050, 5214, 32307, 20946, 29623, 6078, 4578, 17993, 35502, 5098,

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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	484 (Drill Core)	594485, 672023	$13,990.04
Other	Lithogeochemical Modelling	594485, 672023	$3,171.84
DRILLING (total metres; number of holes, size)			
Core	2 Holes (NQ), 740m	594485, 672023	$454,553.50
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic	10 rock samples		$3,025.00
Mineralographic	Geochonology 5 samples (82 zircons)		$7,500.00
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:	$482,240.38

Centerra Gold Inc.

2019 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE BERG PROPERTY

Located in:
Tahtsa Range, central British Columbia
Omineca Mining Division
NTS Mapsheets 093E/14, 093E/13, 093E/11, 093E/12

Centred at:
53˚ 48’ N Latitude; 127˚ 26' W Longitude

-prepared for-

Thompson Creek Metals Company Inc.
A Division of Centerra Gold Inc.
Suite 1500, 1 University Avenue
Toronto, ON M5J 2P1, Canada

-prepared by-

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December 17, 2019

EQUITY

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1.0 SUMMARY

The Berg Property (the "Property") comprises 91 mineral claims and one mining lease covering ~348 km^2 of the Tahtsa Ranges of west-central British Columbia at latitude 53° 48' N and longitude 127° 26' W (Figure 1). The Property is centered approximately 84 km southwest of Houston, British Columbia and 22 km northwest of the Huckleberry copper mine. The Berg Property is 100% owned by Thompson Creek Metals Company ("Thompson Creek"), a division of Centerra Gold Inc. ("Centerra").

The Property lies within the Stikine Terrane and is underlain by Jurassic to Cretaceous volcanic and sedimentary sequences intruded by Cretaceous to Eocene granitic bodies. Mineralization is related to hydrothermal activity associated with these intrusions consisting of polymetallic veins and porphyries. Such mineralization is extensive throughout the region. Both vein and porphyry systems have been mined within several kilometers of the Property boundary, such as the Emerald Glacier (polymetallic veins) and Huckleberry (porphyry) mines.

The claim boundaries encompass the Berg copper-molybdenum-silver porphyry deposit and several additional porphyry and polymetallic vein targets. The main Berg deposit has been the subject of intermittent exploration since the early 1960s, with the most recent generation of drilling taking place during the 2007, 2008 and 2011 summer seasons. An updated resource estimate completed in 2018 reported a NI 43-101 compliant measured and indicated pit-constrained resource of 396.6 Mt grading 0.309% Cu, 0.034% Mo, 3.05 g/t Ag, calculated at 0.444% CuEq. Exploration on other prospects scattered throughout the Property ranges from very early stage to moderately advanced with historical drilling and detailed geological mapping.

The 2019 exploration drilling program was conducted by Equity Exploration Consultants Ltd. ("Equity") on behalf of Centerra. Work comprised a small amount of prospecting followed by 740 metres of diamond drilling in two holes. The work was conducted in one phase over three weeks on the Bergette and the magnetic anomaly 12 (A12) targets described by previous workers (Nielsen, 2018).

Work at Bergette comprised a single diamond drill hole within the Bergette prospect. Drill hole BRG19-234 drilled at Bergette cored to a depth of 382 m, with monzonite to monzodiorite comprising most of the hole. The hole intersected 250.3 m of 0.12 % Cu, 0.009 % Mo, 0.015 ppm Au, and 0.5 ppm Ag from 131.7 m to end of hole. Due to project scope constraints the hole was shutdown while still in mineralization and increasing vein and alteration intensity. Revised lithogeochemical modelling incorporating 2019 results with 2018 rock sampling predicts a probable porphyry core at 600 m below surface, 250 m away from the end of hole BRG19-234. Four samples from BRG19-234 were sent to the Mineral Deposits Research Unit at the University of British Columbia for radiometric age dating. The tonalite porphyry returned U/Pb dates from zircon of 79.63 and 79.79 Ma. The megacrystic granodiorite porphyry returned U/Pb dates from zircon of 78.53 and 78.61 Ma.

Work at the A12 target comprised a single drill hole following up on an anomalous Au, Cu, Mo and Ag geochemical anomaly defined in 2018 surface mapping and geochemical sampling. Hole BRG19-235 collared near an outcrop of strongly quartz-sericite-pyrite (QSP), and clay-silica altered diorite. Hole BRG19-235 drilled through 40 m of clay-silica alteration, followed by 250 m of QSP alteration of varying intensity. The drill hole intercepted 1.9 m of 0.016 % Cu, 0.25 ppm Au, 20.8 ppm Ag from 7 m, and 2 m of 0.013 % Cu, 0.2 ppm Au, 1.3 ppm Ag from 133 m. Revised lithogeochemical modelling incorporating 2019 results with 2018 soil sampling predicts a probable porphyry core at 2340 m below surface, 2100 m away from the end of hole BRG19-235. One sample from BRG19-235 was sent to the Mineral Deposits Research Unit at the University of British Columbia for radiometric age dating. The diorite porphyry returned a U/Pb date from zircon of 53.2 Ma.

Drilling at Bergette in 2019 identified a copper, molybdenum, and silver mineralized porphyry near surface. Due to project scope constraints drilling did not test the full extent of mineralization intersected in hole BRG19-234. However, the intensity of copper mineralization, alteration, and veining continuously increased from the top to the end of the hole indicating the potential for continued mineralization at depth. An induced polarization survey designed to investigate below 300 m should be conducted over the Bergette target area prior to further drilling. It is strongly recommended that the Bergette target be followed up with further drilling.

Drilling at the A12 target identified narrow intervals of gold, copper, and silver, but it is unclear if these narrow intervals satisfactorily explain the breadth of anomalous geochemistry identified in 2018 surface geochemical sampling. Although long intervals of significant mineralization were not intersected in BRG19-235 the hole remained in moderate to strong phyllic and clay-silica alteration throughout the hole. Since mapping and surface geochemical sampling in 2018 did not close off the geochemical and alteration anomaly to the north, it is recommended that geological mapping and grid surface geochemical sampling be continued to the north of hole BRG19-235. In addition, an induced polarization survey designed to investigate below 300 m

should be conducted over the A12 target area. The A12 geochemical and alteration anomaly warrants follow up drilling to search for a potential higher temperature part of the hydrothermal system that may host better copper-gold mineralization.

2.0 INTRODUCTION

The Berg Property is in west-central British Columbia approximately 84 km southwest of Houston, British Columbia and 22 km northwest of Imperial Metals Corporation's Huckleberry copper-molybdenum-silver mine. Berg is 100% owned and operated by Centerra.

This report summarizes the results of the 2019 exploration program, consisting of diamond drilling, lithogeochemical modelling, and geochronological age dating. Equity was contracted by Centerra to plan, manage and report on the 2019 exploration program. The author co-directed this program from July 15 to August 6, 2019 and is familiar with the Property and results of the 2019 work.

3.0 RELIANCE ON OTHER EXPERTS

The Mineral Titles Online (MTO) website, maintained by the Government of British Columbia, shows that all claims comprising the Berg Property are owned by Centerra (Client #283374). Claim data for the Property is included as Appendix C and is taken directly from MTO. In Section 4.0, the author has relied on Centerra for information on Property royalties.

As far as the author is aware, the only outstanding environmental or other liabilities on the Property would be reclamation of the ground affected by drilling activity at the Berg deposit. In Section 4.0, the author is relying entirely on the opinion of Centerra in the matter of other environmental or other liabilities.

The author is not an insider, associate or affiliate of Centerra. The results of this technical review are not dependent on any prior agreements concerning the conclusions reached, nor are there any undisclosed understandings concerning any future business dealings.

4.0 PROPERTY DESCRIPTION AND LOCATION

The Property is 100% owned by Centerra with a 1% Net Smelter Return (NSR) Royalty to International Royalty Corporation on eight of the mineral claims, including those which host the Berg deposit. The Property consists of 91 mineral claims and one mining lease for a total of 34,798 hectares (Figure 2 and Appendix C). The boundaries of these claims are defined by map locations (longitude/latitude or UTM) rather than ground position. A single mining lease, which grants mineral production within a surveyed area, was issued on 27 August 1968 to cover the northeast corner of the Berg deposit and requires annual lease payments of $336.20. This legacy mining lease was granted a lease term extension on May 8th, 2019. The new term is 15 years beginning August 28th, 2019. In BC, mining leases are titles that grant mineral production within a surveyed area.

The Berg Property outline includes one small claim block not owned by Centerra totalling 76 ha covering the core of the Bergette Prospect (MINFILE 093E/052).

Expenditures related to the work described in this report have been applied as Exploration and Development Work to the claims and filed as Statement of Work event number 5763511 and 5773418 with the BC Ministry of Energy and Mines. The statement of expenditures is presented in Appendix B.

Surface rights over the Property are owned by the Province of British Columbia. Permits must be obtained from the Ministry of Energy and Mines prior to carrying out further mechanized exploration on the Property. A Multi-Year Area-Based (MYAB) permit (MX-1-836; originally issued on April 16, 1980) was amended on December 4th, 2018 and expires on March 31st, 2021. The amended permit authorizes the use of the existing Berg camp, IP surveying, 50 surface diamond drill holes, five helipads and 10 km of existing trail modification with several conditions. The claims included in the MYAB permit are shown in Figure 2a. Activities authorized under the permit can only occur between July 15th and October 31st of each calendar year to minimize the impact on caribou and mountain goat, unless a qualified biologist conducts an onsite assessment to determine if work can proceed without adversely impacting caribou.

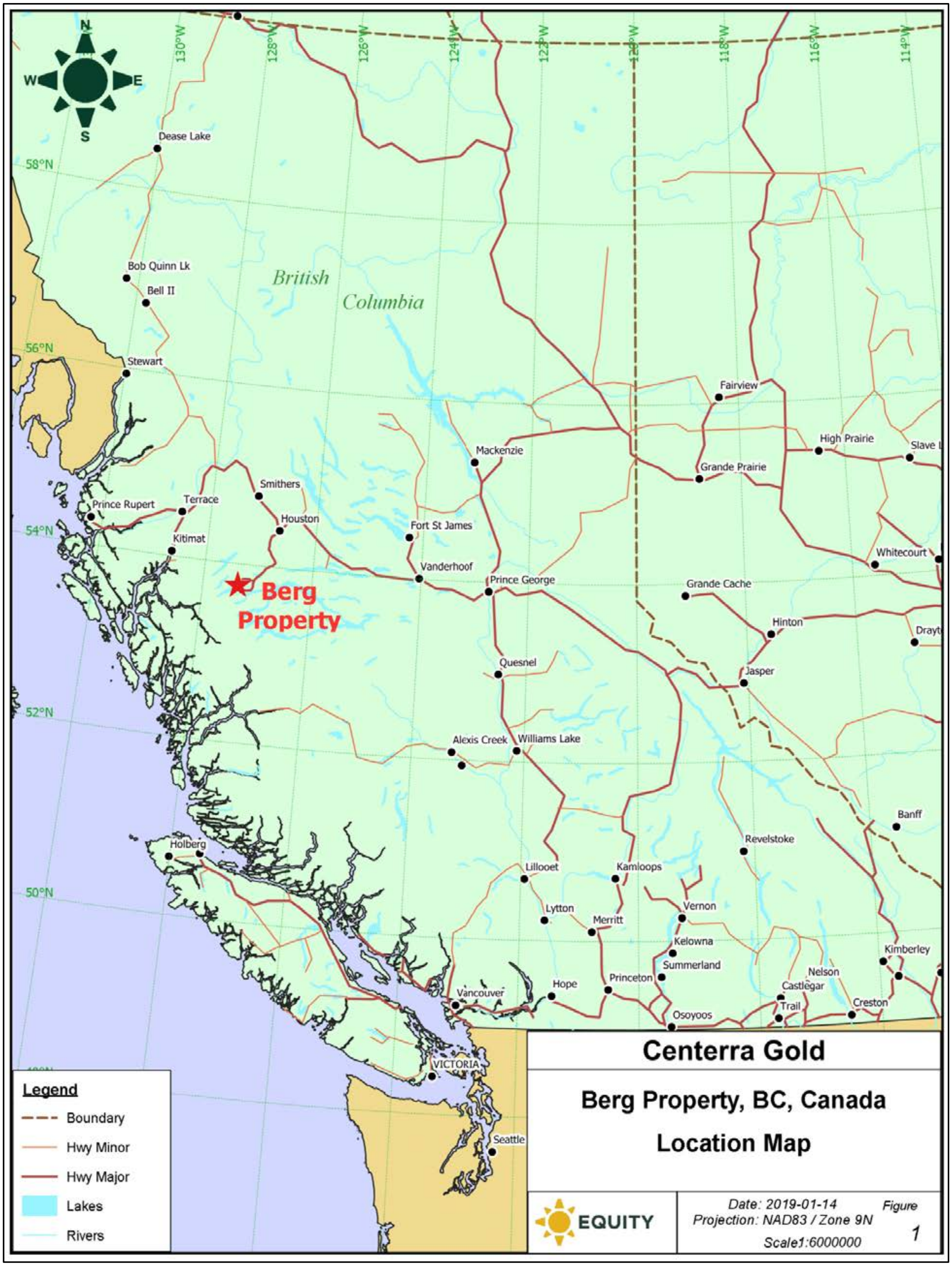

Figure 1. Location map of the Berg Property in British Columbia, Canada.

The BC Ministry of Energy and Mines (BCMEM) currently has a $112,500 reclamation bond held against the Property. There is an access trail leading to the Berg deposit dating from the historical drilling programs that may require reclamation in the future. There are also drill access roads near the Berg deposit from historical drill programs, and a temporary tent camp established in 2007 and refurbished in 2011 that will require reclamation in the future.

5.0 HUMAN AND PHYSICAL GEOGRAPHY

5.1 Access

Access to the Property is via the Morice/Nadina Forest Service Road (FSR) and the haul road used to service the Huckleberry Mine ("Mine Road"). The Morice/Nadina FSR departs from BC Highway 16 approximately 4 km west of Houston, BC.

The northern portion of the Property can be accessed via the Sibola Mainline FSR, which departs from the Mine Road at km-100.5. This FSR is currently open to pickup and tractor-trailer traffic to a lay-down on the eastern edge of the Berg Property boundary. The road continues as a quad-accessible trail that crosses the north flank of Sibola Peak and follows Kidprice Creek south and west to its headwater on a pass at an elevation of 1,740 m above mean sea level (AMSL). From there the trail continues to the Berg Camp, located on a tributary to the north fork of Bergeland Creek, about 6 km northwest of the pass at 1,555 m AMSL. This is the route used for historical road access to the Berg deposit.

The southern portion of the Property can be reached via the Sweeny Lake Road which departs from the Mine Road at km-113 and continues to Tahtsa Lake. This road connects to a series of logging access roads that reach the southwestern corner of the Property. There are several locations along this road that provide adequate space for temporary staging of supplies for helicopter pick-up.

Access to the remainder of the Property requires the use of a helicopter. Several light and medium-lift helicopter operators are based in Houston and Smithers, BC.

5.2 Climate

The weather is typical of mountainous terrain along the east flank of the Coast Mountains and can be unsettled with rapid changes. The mean daily temperatures for July and January are approximately 15° C and -9° C, respectively. The region is in the rain shadow of the Coast Mountains and thus receives only 40 to 50 cm of precipitation annually. In winter, snow is generally less than two metres deep on the valley floors; however, deeper snow can accumulate in creek gullies and on north- and east-facing slopes giving rise to small permanent snowfields. The Property is snow-covered between mid-November and late-May, and many areas do not melt completely until mid-August or later.

High winds are common in the area and occasionally reach gale and hurricane force. The highest wind speeds recorded in 2011 in the Berg Camp area reached 130 km/h. Exploration reports indicate that dense fog sometimes envelopes the area for days at a time.

5.3 Local Resources

Personnel for construction, exploration, mining and support are all available in nearby communities such as Prince George, Terrace, Smithers and Houston. Except for Houston, each of these communities has daily scheduled flights to Vancouver.

5.4 Infrastructure

Infrastructure available for the Property consists of the Morice/Nadina, Tahtsa, and Sibola Mainline FSR, allowing road access to within approximately 20 km from the Berg deposit. The remaining length of the Berg access road has been decommissioned with only light wooden bridges for ATV and snowmobile creek crossings. The nearest electric power is located at the Huckleberry Mine, approximately 22 km to the east.

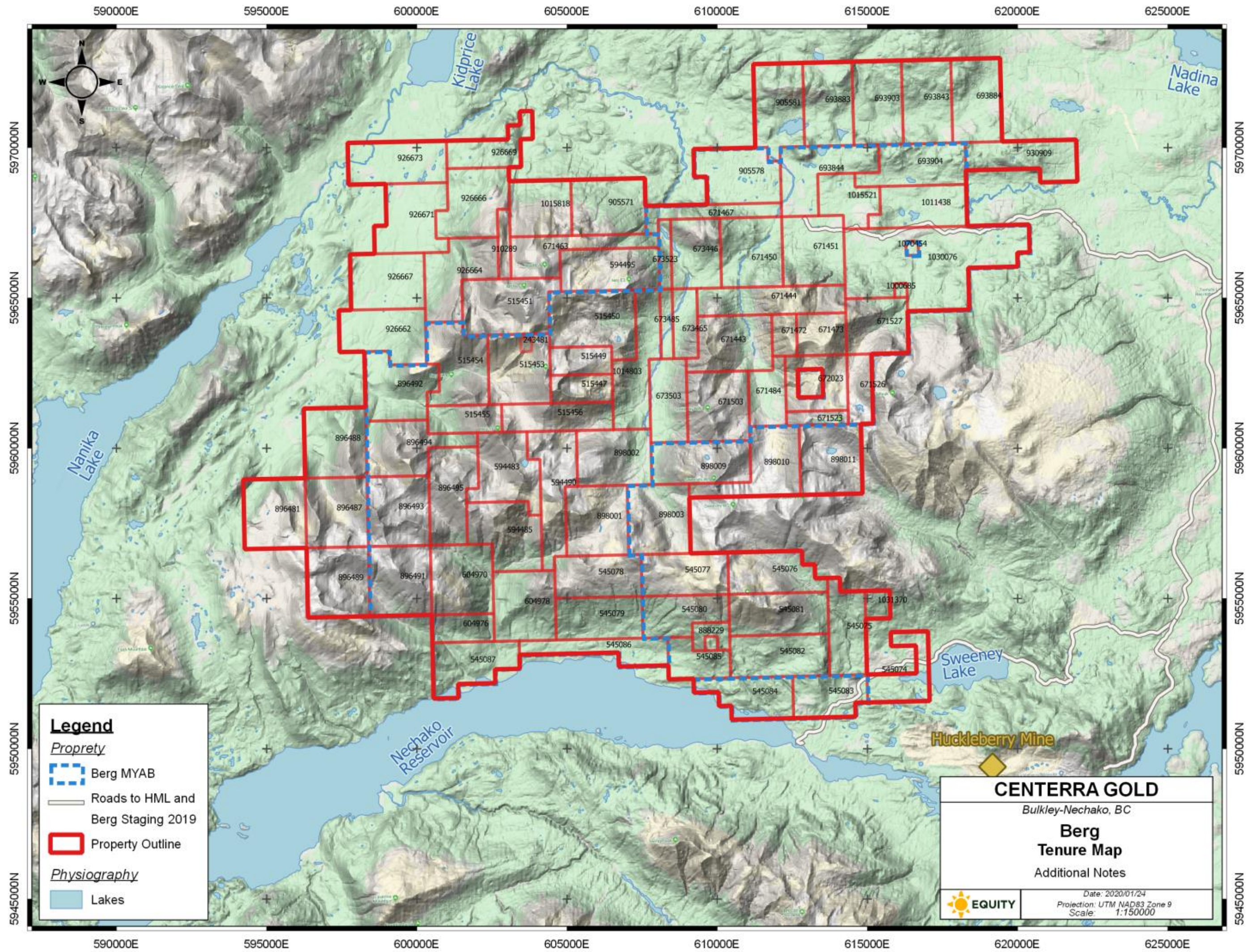

Figure 2. Berg property tenure map and MYAB.

5.5 Physiography

The Property is in the Tahtsa Ranges, a 15 to 20 km wide belt of mountains within the Hazelton Mountains. The Hazelton Mountains lie along the eastern flank of the Kitimat Ranges of the Coast Mountains and form part of the Skeena Arch. The Tahtsa Ranges represent a transitional zone between the rugged, predominantly granitic Coast Mountains to the west and the rolling hill region of sedimentary and volcanic rocks that underlie the Nechako Plateau to the east.

The Tahtsa Ranges are further subdivided into the Tahtsa, Sibola, Whitesail, and Chikamin ranges, of which the Berg deposit is hosted in the Sibola Range. These are separated by major valleys that bottom out at elevations between 800 to 950 m AMSL. Mount Ney is the highest peak in the Tahtsa Ranges at 2,470 m AMSL and lies 2.5 km northeast of the Berg deposit. Several other mountain ridges are 2,000 m or more in elevation and occur as serrate peaks modified by cirque glaciation.

6.0 HISTORY

There are several prospects on the Property (Figure 3), each of which has their own exploration history (described separately below). A summary of this work is presented below.

6.1 Berg

The Tahtsa Ranges were first prospected in the early 1900s after gold was discovered near Sibola Mountain. Prior to the late 1920s, several lead-zinc-silver, gold-tungsten and copper showings had been staked. In 1948, the Lead Empire Syndicate re-staked claims originally located by Cominco Ltd. in 1929 over several lead-zinc occurrences. These are now recognized as part of the Berg porphyry system.

The potential for porphyry copper style mineralization at Berg was first realized by Kennco Explorations, (Western) Limited ("Kennecott"), based on their experience in the south-western United States. Berg mineralization was initially identified by geochemical reconnaissance surveying in fall 1961, followed by detailed geochemical sampling, geological mapping, trenching and ground magnetic surveying during the 1962-63 field seasons. Increased exploration expenditures in 1964 enabled bulldozer trenching and diamond drilling that demonstrated the deep effects of surface leaching and revealed the widespread presence of supergene mineralization, a feature not common in the Canadian Cordillera. Subsequent work showed that rocks are leached in places to depths in excess of 30 m, and these rocks are underlain by an extensive blanket of supergene copper enrichment (MMPR, 1966).

Drilling by Kennecott in 1965 and 1966 delineated two main mineralized zones – a Northeast Zone that contains primary (hypogene) and some supergene mineralization, and a South Zone with widespread supergene mineralization (MMPR, 1966). At the end of the 1966 field season, the Property comprises 108 mineral claims on which there had been a total of 3,886 m of diamond drilling in 23 holes. In 1967, a 3,325 m drill program tested the South Zone on a widely-spaced grid and three holes explored areas peripheral to the main area of interest (MMPR, 1967). From 1968 to 1970 the Property was dormant but metallurgical testing was done on composite samples of drill core. In 1971, three additional holes were drilled in the Northeast Zone.

At the end of the 1971 exploration program, a total of 49 diamond-drill holes of mainly NQ and BQ core had been completed with a total length of 7,875.8 m (BCDMPR, 1971).

In 1972, exploration and development of the Property were taken over by Canex Placer Limited ("Canex") under agreement with Kennecott. From 1972 to 1975, Canex drilled an additional 52 drill holes of NQ and PQ core totalling 9,689.4 m (BCDMPR, 1972, 1973, 1974; Hall, 1975d; Hall, 1975e). The PQ holes were utilized to collect metallurgical samples and to address low core recovery issues from previous years. Another eight HQ core holes totalling 1,099.0 m were drilled in 1980 (Harris, 2008).

Table 1. Summary of historical work on prospects outside the Berg deposit.

Year	Company	Prospect	Drilling			Surface Sampling				Geophysics (line-km)		Other	Reference(s)
			DH	Type	Total Depth (m)	Soils	Silts	Rocks	Till	Ground IP	Ground Magnetics		
1971	Granges Exploration AB	Bergette	6	Diamond (NQ)	1223	1171					39*	Trenching	(Reid, 1971)
1972	Granges Exploration AB	Bergette	14	Percussion	1220	655							(Reid, 1972)
1973	Granges Exploration AB	Bergette	8	Diamond (NQWL)	1220					11.3*			(Reid, 1973)
1973	Granges Exploration AB	Sun								18.7			(Mullan and Goudie, 1973)
1974	Hudson's Bay Oil and Gas Co Ltd.	Sylvia**	5	Percussion	247								(Hall, 1974) & (Kilby, 1974a)
1974	Noranda Exploration Co Ltd.	CS								9.3	8.4		(Walker, 1974)
1974	Noranda Exploration Co Ltd.	CS	7	Diamond	646.5								(Belik, 1974)
1974	Hudson's Bay Oil and Gas Co Ltd.	CS South	5	Percussion	194								(Kilby, 1974a)
1975	Hudson's Bay Oil and Gas Co Ltd.	CS South	6	Percussion	209						25		(Hall, 1975a)
1975	Noranda Exploration Co Ltd.	Tara (CS South)**	6	Diamond	526								(Belik, 1975)
1975	Hudson's Bay Oil and Gas Co Ltd.	Sylvia**	6	Percussion	345						30		(Hall, 1975b, c)
1976	Hudson's Bay Oil and Gas Co Ltd.	Sylvia**								12.5	4.55		(McCance, 1976)
1980	Placer Development Ltd.	Sun				724				35.6	52.5		(Cannon and Pentland, 1980)
1984	Ryan Exploration Company	Tahtsa Range						34					(Hooper, 1984)
1988	Geostar Mining Corp.	Sky				247	8	4					(Pardoe, 1988)
1989	Canadian-United Minerals	Sky				147		58					(Harrison, 1989)
1990	Placer Dome Inc.	Fire					35	18				Re-logging of one 1974 DDH	(Ditson, 1990)
1991	Placer Dome Inc.	Sun				74							(Smee, 1991)
1991	Placer Dome Inc.	CS						13				Re-logging of six 1974 DDHs	(Linden, 1991)
1995	Westley Technologies Ltd.	Sylvia**	4	Diamond	608								(Belik, 1996)
2007	Rimfire Minerals Corp.	Fire Cat				123	23	11					(Lui, 2007)
2008	Terrane Metals Corp.	South Berg										Airborne topography	(Dumas and O'Brien, 2008)
2010	Terrane Metals Corp.	Berg Property										Airborne EM/Mag	(Labrenz, 2010)

Year	Company	Prospect	Drilling			Surface Sampling				Geophysics (line-km)		Other	Reference(s)
			DH	Type	Total Depth (m)	Soils	Silts	Rocks	Till	Ground IP	Ground Magnetics		
2011	KDG Exploration Services	Sylvia**				40 MMI, 13 Ah		9					(Galambos and Turford, 2012)
2014	UTM Exploration Services	Berg Property						26					(Hutter et al., 2014)
2015	Equity Exploration	Berg Property				1763	46	92					(Swanton, 2015)
2016	Equity Exploration	Berg Property				124		49	51	17.4			(Branson and Guestrin, 2016)
2017	Equity Exploration	Property				128						Mapping, core review, magnetic anomaly evaluation, SWIR analysis	(Nielsen, 2018)
2018	Equity Exploration	Property				359		93				SWIR analysis, lithogeochemical modelling	(Lindhuber, 2019)

*indicates data is lost or not available; **indicates a prospect proximal to, but not covered by the present claims

A total of 119 diamond drill holes for 20,127.9 m had been completed on the deposit to 1980 (Table 2). A limited amount of pre-2007 drill core is still cross-stacked on the Property at the old camp site, but most of the mineralized sections have been consumed for metallurgical test-work and core box identification is sometimes difficult due to deterioration over the years.

Between 1982 and 2007, there was no active exploration on the Berg deposit, although Placer Dome Inc. ("Placer Dome") had arranged for or conducted in-house revised resource estimates, additional economic analyses, conceptual mine layouts, and environmental reports. Detailed descriptions of these activities can be found in Harris and Labrenz (2009).

In 2006, Placer Dome was purchased by Barrick Gold, who sold Placer Dome's Canadian assets to Goldcorp Inc. ("Goldcorp"). Terrane Metals Corp. ("Terrane") purchased certain Canadian assets from Goldcorp, including their share of the Berg Project. In September 2006, Terrane purchased Kennecott's share of the Berg Joint Venture to become 100% owners.

In 2007, Terrane completed 11,288.8 m of diamond drilling in 29 holes and a pole-dipole IP survey, all focused on the Berg deposit (Harris, 2008). Follow-up work in 2008 included 11,659.6 m of diamond drilling in 31 holes as well as a total field ground magnetic survey. Both the 2007 and 2008 programs were carried out by Equity under contract to Terrane from a camp constructed in the drill area. Environmental baseline studies commencing in 2007 and continuing into 2008 and 2011 were implemented by AMEC Earth and Environmental (Harris and Labrenz, 2009). In 2008, an aerial photometric survey was conducted over the Berg deposit area and a detailed (2 m interval) contour and orthophoto map constructed (Dumas and O'Brien, 2008).

As of October 2018, the Berg deposit contains a measured and indicated pit-constrained resource of 396.6 Mt grading 0.309% Cu, 0.034% Mo, 3.05 g/t Ag, calculated at 0.444% CuEq. (see Table 3 Barr and Huang, 2018).

In 2010 Thompson Creek purchased Terrane and, in 2011, drilled 36 diamond drill holes for 10,677.6 m. The program was carried out by Equity under contract to Berg Metals from the re-established Berg Camp within the drill area. The program was successful in providing data to refine the deposit's geological model and test prospective areas outside the limits of previous drilling (Harris and Peat, 2011).

Environmental monitoring by Centerra Gold is ongoing, with two weather stations on the Property collecting data continuously. Two site visits were made in 2014 by ERM Consultants Canada Ltd. to collect data from the weather stations and to collect water samples from Bergeland Creek draining the area around the Berg deposit. Results of the 2014 monitoring program are presented in Pond (2015).

Table 2. Berg deposit drilling summary

Year	# of Holes	Hole Numbers	Core Size	Total Metres	# of Samples	Operator
1964	7	BRG001 - 007	NX	969.7	297	Kennecott
1965	6	BRG008 – 013	BX	1,236.1	374	Kennecott
1966	10	BRG014 – 023	NQ	1,680.2	534	Kennecott
1967	23	BRG024 – 072	NQ	3,325.0	995	Kennecott
1971	3	BRG073 – 075	NQ	664.8	202	Kennecott
1972	10	S13 – S24	?	1,463.7	499	Sierra Empire
1972	14	BRG76 – 089	NQ	3,465.2	1,011	Placer Dome
1973	11	BRG090 – 101	NQ	3,313.0	986	Placer Dome
1974	19	BRG102 – 120	PQ	1,843.8	583	Placer Dome
1975	8	BRG121 – 128	PQ	1,067.4	339	Placer Dome
1980	8	BRG130 – 137	HQ	1,099.0	330	Placer Dome
2007	29	BRG07-138 – 166	HQ, NQ	11,288.8	5,347	Terrane
2008	31	BRG08-167 – 197	HQ, NQ	11,659.6	5,841	Terrane
2011	36	BRG11-198 – 233	HQ, NQ	10,677.6	6,140	Berg Metals (Thompson Creek)
TOTAL	**215**			**53,753.9**	**23,478**	-

Table 3. Pit-constrained mineral resource estimate for the Berg deposit by category, effective date of October 22, 2018

Category	Cut-off (% CuEq)	BD (t/m^3)	Tonnes	Cu (%)	Mo (%)	Ag (gpt)	CuEq (%)
Measured	0.25	2.69	176,384,000	0.358	0.034	3.02	0.494
Indicated	0.25	2.67	220,284,000	0.270	0.033	3.08	0.404
Measured and Indicated	**0.25**	**2.68**	**396,668,000**	**0.309**	**0.034**	**3.05**	**0.444**
Inferred	**0.25**	**2.67**	**13,982,000**	**0.256**	**0.017**	**4.39**	**0.343**

Table 4. 2011 drill holes reviewed during the 2017 exploration program

Year	Hole ID	Easting (NAD83 Z9)	Northing (NAD83 Z9)	Elevation	Length (m)	Azimuth (º)	Dip (º)	Hole Type	Core Size
2011	BRG11-202	602,681	5,962,673	1,563	352.35	100	-65	DD	HQ/NQ
2011	BRG11-204	602,803	5,962,737	1,574	349.3	85	-68	DD	HQ/NQ
2011	BRG11-216	603,719	5,962,707	1,848	201	98	-70	DD	HQ/NQ
2011	BRG11-228	603,538	5,962,717	1,734	301.75	90	-41	DD	HQ/NQ
2011	BRG11-230	603,449	5,962,775	1,685	350.52	90	-64	DD	HQ/NQ

DD = diamond drill

In 2017, a multi-phase exploration program was carried out on the Berg Property with the first phase conducting a review of the 2011 drill core of the Berg deposit (Nielsen, 2018). Five drill holes with a total of 1,554.92 m of core on a section centered on 5,962,700 N (UTM NAD83 Zone 9; Table 4) were investigated. The two key findings from the core review are: a) Different ages of porphyry can be distinguished in the Berg composite stock and b) sericite alteration is not as widespread as previously interpreted. Cross-cutting vein relationships and the distribution of alteration assemblages were used to identify at least three porphyry intrusion events (QPP-P1, PBQP-P2, and QMP-P3), despite their similar mineralogy. QPP-P1 is strongly altered, with only relict phenocrysts and contains the highest vein density of all the porphyry bodies. PBQP-P2 is also altered, but to a lesser degree, and has lower vein density. QMP-P3 hosts the fewest veins and is the least altered of the intrusive bodies within the Berg composite stock and includes well-preserved igneous biotite books. Previous logging had identified sericitic alteration within QMP-P3, with the 2017 re-logging program suggesting that this is instead supergene-related clay.

In 2018, lithogeochemical modelling detected a porphyry intrusion core in the centre of the deposit at depth, and a second smaller, shallower core in the northeast. The model predicts the main core of a porphyry intrusion approximately 500 m below the currently modelled Berg resource. Of note, the Fathom modelling algorithm is reliant on the distribution of trace elements associated with hydrothermal alteration around a porphyry system. The distribution of elements is most variable and best-defined outside of a porphyry intrusion core. However, when a porphyry intrusion core is present in the data set, light elements such as Bi and As can distort the modelled depth of the porphyry (Core, pers. comm.). These elements primarily occur in shallower parts of a typical porphyry system; however, they can also be elevated in the core of a porphyry system when they are hosted within copper sulphide minerals. As such, the Fathom modelling may erroneously interpret a deeper porphyry intrusion core when an actual porphyry intrusion core is present because the algorithm interprets the presence of light elements to be associated with shallower parts of a porphyry system. Regardless, the Fathom modelling predicted the correct location of the porphyry intrusion core but interpreted it at a deeper position (possibly due to the presence of the supergene/hypogene zone?). The smaller porphyry core in the northeast spatially fits well underneath the Cu grade block model of the Berg deposit (Lindhuber, 2019).

6.2 Bergette

The Bergette Prospect (Figure 3) is covered by two claims not currently held by Centerra (Section 4.0), but is at present the best explored area on the entire Berg claim block outside the main Berg deposit itself (Table 1). Bergette was initially prospected and silt sampled by Kennecott during their exploration programs in the region between 1961 and 1964 (Church, 1971); the results of this work were moderately encouraging and from 1971 to 1973 a program of drilling, mapping and soil sampling was undertaken by Granges Exploration (1972, 1973). Geologic mapping by Church (1971) showed the area to be underlain by volcanic and sedimentary rocks of the Hazelton Group intruded by the Sibola Stock, a composite granodiorite intrusion with both equigranular and porphyritic phases. Known mineralization is hosted within a large (~6 km^2) gossan and was historically delineated over two smaller areas within this gossan. The first area is a fractured and vuggy breccia zone that is hosted by the Sibola Stock and healed/filled with gypsum, pyrite, molybdenite, chalcopyrite, pyrite, magnetite and epidote. This was the largest zone of mineralization defined by the historical drilling, and contains zones grading 0.3% Cu over tens of meters. This breccia zone is mostly located on a small claim group not presently held by Centerra.

The second area comprises sets of mineralized fractures that extend over a much larger part of the Sibola Stock, and that are responsible for much of the gossan in the area (Church, 1971). These fractures are typically filled with quartz, pyrite and chalcopyrite with rare occurrences of molybdenite and other copper sulphide minerals. Where these fracture sets are well-developed, they are associated with intervals, up to tens of meters thick, that consist of vein-hosted and disseminated copper sulphide minerals and mantled by barren country rock. For example, a 1972 percussion drill hole (P9-72, collared on Centerra's current mineral tenure ~1 km north of the Bergette breccia zone) returned 0.45% Cu over 12.2 m within a 64.0 m zone hosting 0.32% Cu (Table 5). Other highlights from percussion and diamond drilling conducted between 1971-1973 include 0.29% Cu over 70.1 m (GF #1), 0.24% Cu over 88.39 m (GF #4), 0.15% Cu over 203.76 m (GF #2), 0.74% Cu over 12 m (GF #3), 0.42% Cu over 30.48 m (P9-72), and 0.45% Cu over 12.2 m (P9-72).

Soil sampling during the 1971 and 1972 programs demonstrated that mineralization at Bergette is marked by a strong Cu-Mo response in soil (Reid, 1971), which extends over a 2 x 5 km northeast-trending zone (Reid, 1972). Responses are strongest over the core of the Bergette mineralization, but are continuous both north and south along strike, suggesting that the mineralized system is larger than what is currently outlined by drilling and rock sampling.

Table 5. Significant historical Bergette drilling intercepts

Year	Hole ID	From (m)	To (m)	Interval (m)	Cu (%)	Mo (%)	Ag (oz/t)
1971	GF-1	170.69	240.79	70.10	0.29	0.011	0.02
1971	incl.	219.46	240.79	21.33	0.43	0.008	0.02
1971	GF-2	5.49	209.25	203.76	0.15	0.003	0.02
1971	incl.	45.72	76.20	30.48	0.2	0.002	0.02
1971	incl.	176.78	182.89	6.10	0.34	0.003	0.02
1971	GF-3	36.58	48.77	12.19	0.74	0.005	0.04
1971	GF-4	106.68	195.07	88.39	0.24	0.012	0.03
1971	incl.	106.68	112.78	6.10	0.38	0.001	0.02
1971	incl.	152.4	195.07	42.67	0.34	0.020	0.04
1972	P2-72	45.72	51.82	6.10	0.12	0.044	-
1972	P2-72	67.06	70.10	3.04	0.26	0.009	-
1972	P9-72	6.10	70.10	64.00	0.32	0.010	-
1972	incl.	18.29	48.77	30.48	0.42	0.010	-
1972	incl.	39.62	48.77	9.15	0.54	0.008	-
1972	P9-72	100.58	112.78	12.20	0.45	0.011	-
1972	P11-72	45.72	54.86	9.14	0.25	0.005	-

In 1973, an 11.3 line-km frequency domain IP survey was completed over Bergette, extending 1,600 m to the north down Bergette Valley. The survey identified several IP anomalies to the east and northeast of the main Bergette mineralization, however, the depth of penetration for the survey was only 100-150 m with gaps in the survey over geochemical anomalies (Hallof and Goudie, 1973). Several shallow drill holes testing the IP anomalies surrounding the main Bergette mineralization were proposed, though no reported work was done to follow-up on this survey. Several of these IP anomalies extend onto the Property.

In 1977, a report was prepared for New Frontier Exploration Inc. by Granges personnel summarizing the findings of the early 1970s exploration programs and recommending additional soil sampling, mapping and drilling (Shear, 1977). No recorded work was undertaken to implement the recommendations of the report.

No further work was recorded at Bergette until 2014 when seven rock samples were taken as part of the 2014 Berg exploration program. Results of this sampling confirm the presence of copper mineralization at the historic showing, and show the presence of zinc enrichment (0.14% Zn in one sample) 2 km northwest of the main showing (Hutter et al., 2014).

The area surrounding the historical core of Bergette was prospected in 2015 and several rock grab samples with anomalous Cu (up to 3,490 ppm) and Mo were collected from areas with no known historical work. Along with historical results, the 2015 sampling program revealed significant copper and molybdenum values at Bergette extending over an area of 1.5 x 1.5 km and a vertical extent of 500 m (Swanton, 2015).

The 2016 exploration program at Bergette comprised prospecting and soil (or talus fine) sampling. This work outlined several prospective Cu-Mo ± Au anomalies to the east and west of the known mineralization at Bergette. Results also identified 12 samples that were strongly anomalous for gold.

The 2018 exploration program comprised comprised of geological mapping adjacent to the known Bergette prospect and grid rock sampling over the same area. Surficial mapping delineated two areas of phyllic alteration. Even though gold concentrations from collected rock samples were generally low, the samples with the highest grades from the 2018 program were found in felsic intrusive rocks with phyllic alteration at a cirque (“Offen Bowl”) north of the Bergette porphyry. Lithogeochemical modelling suggested a porphyry target at Bergette and proposed a second target at the north end of the grid. Short-wave infrared (SWIR) analysis was conducted on rock grab samples to provide supplemental data for the porphyry footprint modelling.

6.3 Tahtsa Range/Serenity

The Tahtsa Range Showing (093E 007) lies just over 4 km to the south-southeast of the Berg deposit (Figure 3), and was historically reported to be a series of northeast-trending, steeply-dipping quartz veins with pyrite, chalcopyrite, galena, specular hematite and trace amounts of gold (Duffell, 1957). The area was worked in 1984 as the Smokey Pines claim block by Ryan Exploration with a four-man crew conducting two days of mapping and taking 34 grab samples (Hooper, 1984). The 1984 work was designed to follow up on a series of trench samples taken in 1982 that reportedly returned up to 12,000 g/t Ag from the “Saddle Showing”, several hundred meters west of the location of the Tahtsa Range MINFILE showing location. Note that primary records from this 1982 program have not been located, and information about it is taken from Hooper (1984). Though the 1984 program failed to replicate the extremely high silver grades reported from the earlier work, they did confirm the presence of a steeply-dipping, northeast-trending vein system with samples containing up to 0.56% Cu, 47 g/t Ag and 0.75 g/t Au. Hooper (1984) also traversed and took rock samples in the creek valleys to the northwest and south of the Tahtsa Range Showing. Samples to the south were anomalous in copper and zinc but were generally low-grade. Samples from the area to the northwest returned significant copper, zinc and silver values with up to 1.2% Cu, 1.8% Zn and 269 g/t Ag from select samples of mineralized veins and float. Additional work to follow up on the mineralized veins was recommended but never conducted.

A silt sample collected as part of the QUEST-WEST project (Jackman, 2009) reported strongly anomalous Mo-Cu-Ag-Pb from the drainage south of the Tahtsa Range Showing.

In 2015 prospecting and soil sampling was completed in the Tahtsa-Serenity area. Resampling of the “Saddle Showing” confirmed high-grade mineralization with the best sample returning 13,140 g/t Ag, >20.0% Pb, 1.04% Cu, 6.20% Zn, and 5.72 g/t Au. Within the Serenity Cirque and northwest of the “Saddle Showing”, several rock grabs from northeast trending and steeply dipping polymetallic veins were collected containing up to 2.25% Cu and 1.23% Zn. To the south along the east-west trending creek, rock grabs from previously unsampled outcrops returned assay values from 100-1,220 ppm Cu. Contour soil sampling above the creek confirmed the presence of a copper-bearing hydrothermal system of unknown size and extent, revealing a 1.5 x 0.75 km zone of elevated Cu, Mo, Pb, Zn, Ag, Au, and Sb (Swanton, 2015).

Also in 2015, a set of magnetite-epidote veins with isolated occurrences of chalcopyrite, extending over 300-400 m, were discovered approximately one kilometre north of the Serenity Cirque, two and a half kilometres south of the Berg deposit, and within a couple hundred metres of the Berg haul road. These veins are weakly anomalous in Cu (50–200 ppm) and slightly enriched in As and Zn (100-300 ppm and 50-70 ppm, respectively). Though the metal contents of the veins are low, they may represent a distal part of the Berg porphyry system or another centre of mineralization (Swanton, 2015).

In 2016 a limited campaign of prospecting was conducted in various areas within the Tahtsa-Serenity drainage system (Branson and Guestrin, 2016). This mapping defined a ~1000 m gossan zone centred on the confluence of Tahtsa Creek and the south-flowing unnamed creek that originates in the Tahtsa cirque. Rock and soil samples from this area returned anomalous Au, Cu, and Mo. The Saddle showing was visited but not sampled, as this had been done the previous year (Swanton, 2015).

The second phase of the 2017 field work consisted of a mapping program in the Tahtsa-Serenity area and comprised geological mapping and sampling with the aim of investigating the magnetic anomaly, identified from a property-wide aeromagnetic survey conducted earlier in the field season, surrounding the Serenity Valley and the argentiferous veins at the Tahtsa Range showing (Minfile 093E 007; Hooper, 1984; Swanton, 2015; Nielsen, 2018). Two areas of interest were identified in the map area. The first is in the southernmost portion of the map area, within the Tahtsa Valley, and is coincident with the edge of a magnetic anomaly. This area comprises andesitic rocks and a portion of the boundary stock that has been altered to an assemblage of clay-sericite, chlorite and pyrite, becoming more intense to the south. It is believed that the intrusion responsible for the formation of magnetic anomaly 12 is also responsible for this alteration. The second area of interest in the Tahtsa-Serenity map area in the southernmost part of the Bergeland valley. It comprises an outcropping colour anomaly in the headwall of the valley and angular float of strongly altered granodiorite (feldspar to muscovite, biotite to sericite-magnetite-specular hematite) which contains disseminated chalcopyrite as well as thin veins of molybdenite.

6.4 Lead Empire/Set/Lost/Ice

The Lead Empire Showing (MINFILE 093E/014 Cu2) lies approximately 1.2 km to the northeast of the Berg deposit (Figure 3) and consists of a quartz-vein stockwork and shear zones hosted within altered rocks of the Hazelton Group. This area was first staked by W.H. Padmore in 1948 and 1951 to cover the stockwork veins and shear zones associated with a diorite or gabbro stock. Mineralization includes vein-hosted galena, sphalerite, pyrite and molybdenite, in addition to covellite, chalcopyrite and disseminated pyrite. Mineralization was also noted to contain minor gold and silver content although no values are known. Work completed in the 1951-52 seasons focussed mostly on claim access and included trail cutting and cabin construction along with some stripping and trenching (Duffell, 1957).

Further work was completed during the 1969-71 field seasons when the LOST, ICE, SET an IT claims were staked by Sierra Empire Mines Ltd. ("Sierra Empire"). In 1969, Sierra Empire surveyed historical surface workings, conducted geological mapping, bulldozed 29 trenches (totalling 925 m) to bedrock, constructed 2.4 km of road and drilled 17 holes for 976 m (EMPR, 1969). The following year, further surface geological mapping, 1.6 km of road construction and 150 m of trenching was completed (EMPR, 1970). In 1971, another eight drill holes totalling 1,529 m was completed (EMPR, 1971).

Unfortunately, there are no records for this work, however it appears from air photos that the focus of this work was completed up to two kilometres northeast of the Lead Empire MINFILE occurrence, though at least one road was constructed to within one kilometre from the MINFILE location. Furthermore, MacIntyre (1985) denotes Pb-Zn mineral occurrences in both the MINFILE location and proximal to the extensive road workings to the northeast.

The Lead Empire area was prospected during the 2016 field program with no significant results (Branson and Guestrin, 2016).

6.5 CS-Fire-Smoke Mountain-Fire Cat

The CS Showing (MINFILE 093E/090) lies on the northern boundary of the Property and was previously worked as part of the Smoke Mountain (Belik, 1974; Walker, 1974) and Fire (Ditson, 1990; Linden, 1991; Lui, 2007) claims (Figure 3). The prospect comprises a gossan centred on the Kasalka Intrusion; a quartz diorite stock intruded into the Hazelton Group. The first publicly recorded work is a 9.3 line-km dipole-dipole IP survey that identified 4 or 5 anomalous zones (Walker, 1974) that were followed-up with 646 m of diamond drilling over seven holes (Belik, 1974). Belik (1974) reported minor chalcopyrite and molybdenite along with carbonate, gypsum, magnetite/hematite and chlorite alteration, but did not include assay results. Additional surface work and re-sampling of the 1974 drill holes was completed by Placer Dome in 1990 and 1991 (Ditson, 1990; Linden, 1991).

Of note is that numerous silt and soil samples collected in 1990 contain elevated gold values. Re-sampling of the drill core returned up to 1,530 ppm Cu over 1.7 m and 0.15 g/t Au over 2.4 m in DH74-3, and 0.48 g/t Au over 1.0 m in DH74-1. No further work on the claims was recommended due the lack of economic mineralization. However, it was noted that porphyry style mineralization and alteration is restricted to the northern contact of the Kasalka intrusion and the Jurassic Hazelton Group volcanic rocks (Figure 5) though it appears this was not the target of the 1974 drilling and has not been fully tested at depth.

The area southeast of the CS Showing was staked as the Fire Cat claims by Patti Walker of Smithers, BC, and optioned by Rimfire Minerals Corporation, who conducted a program of mapping, rock, soil and silt sampling in 2007. Lui (2007) concluded that copper mineralization at the main Fire Cat (and nearby Hulk) Showing is related to hydrothermal fluid flow along lithological contacts, and does not have characteristics of porphyry-style mineralization. In addition to the moderate copper values at the Fire Cat and Hulk showings (0.1–1% Cu) a gold-in-soil anomaly was noted near the southern end of the Property, and follow-up work was recommended in the form of a grid soil survey over the area.

6.6 CS South/Tara/Slide

The CS South area is located south of the CS Showing, north of Bergette and west of the Tara Showing (MINFILE 093E/091). It is traversed by the historical haul road from the Sibola FSR to the Berg deposit (Figure 3) and was previously worked as the Slide claims during the 1970s when owned by Hudson's Bay Oil and Gas Corporation ("Hudson's Bay"). Exploration by Hudson's Bay consisted of 11 percussion drill holes and a ground-based magnetometer survey covering ~4 km^2. Work was centred on a small quartz diorite plug belonging to the Bulkley Plutonic Suite (Figure 5); it is not clear if the existence of this plug was known prior to the initial exploration, though its presence would provide a likely explanation for targeting of work in this area.

The first five holes were drilled in 1974 and, despite revealing low base metal contents, Kilby (1974a) concluded that as only two of the holes had reached bedrock, the program was not a complete test of the mineralization potential of the area. The following year, a magnetometer survey showed the presence of a 1 x 1 km magnetic high corresponding to a quartz diorite body. A further six percussion holes were attempted, none of which reached bedrock (Hall, 1975a).

An additional five diamond drill holes were completed by Noranda Exploration Company, Limited ('Norranda") in 1975 on their Sibola Property, located on what is now the Tara Showing. The holes contained only minor mineralization, with two 10-foot (3.05 m) samples returning >0.1% Cu (Belik, 1975).

The area was re-staked in 1991 by Kingsvale Resources Ltd. and a geological and sampling program carried out on the claims. Belik (1991) described the Tara Showing as comprising minor chalcopyrite and malachite associated with a weak stockwork of drusy quartz veinlets and local, irregular shaped zones of intense bleaching and silicification, approximately 200 m east of the most easterly 1975 Noranda drill hole. The best rock assay returned 0.13% Cu, 0.137 g/t Au and 42.7 g/t Ag, with two other samples returning anomalous Au, As and Sb. Trenching the overburden to the north, east and southwest was recommended, but was never carried out (Belik, 1991).

Approximately 200 m south of the Tara Showing, a Tertiary felsic stock within a broad quartz-sericite-pyrite alteration zone with good exposure in the creek canyon was also identified. In the canyon, altered rocks are typically pale greenish grey to white and contain abundant finely disseminated pyrite with a quartz-sericite-clay matrix with patchy silicification imparting a spotted Dalmatian-type texture to altered units. At the southern end of the canyon, a late stage, steeply dipping, hydrothermal breccia body exposed over 12 m contains angular to rounded, altered, pyritic, felsic fragments up to 10 cm hosted in a brown-weathering, crystalline, pyritic carbonate matrix. Geochemical results collected from the canyon were not encouraging (Belik, 1991).

In 2015, 454 Ah horizon soil samples were collected in the CS South area and three distinct multi-element anomalies were identified, with the largest approximately 3.0 x 0.75 km in size. Further work was recommended due to its proximity to an airborne-detected conductor with a similar response to the Berg deposit (Swanton, 2015).

In 2016 a single prospecting and mapping traverse was carried out in the CS-South area. No significant mineralization was encountered (Branson and Guestrin, 2016). A 17.4 line-km IP survey was completed in the CS South zone to follow up on three distinct multi-element geochemical anomalies from Ah sampling completed in 2015 (Swanton, 2015). Four roughly east-west lines were initially completed and produced a high chargeability and low resistivity response. As a result, a fifth north-south tie-line was surveyed to define the centre of the response and better characterize the anomaly. The anomaly was determined be 1,500 m x 1,000 m and at least 400 m in depth, dipping to the east and centred at 614,045 E, 5,966,380 N. The anomaly is coincident with a circular 1,300 m x 900 m high magnetic and EM response from a helicopter-borne survey completed in 2010 (Branson and Guestrin, 2016).

6.7 Sylvia

Though the Sylvia Showing (MINFILE 093E/089) does not lie on the current Berg claim block (Figure 3), it is relevant to the current work as it represents an example of mineralization buried beneath thick quaternary cover along the same trend as the CS South zone. The first recorded work on these claims is from 1972, when a series of anomalous silts were collected from the area by Hudson's Bay. This led to follow-up geochemical, geophysical and geological mapping work in 1973, which justified a 10-hole percussion drilling program in 1974. The best single result of this program was a 61 m intersection containing 0.33% Cu (Kilby, 1974b). This was followed up in 1975 by a ground magnetometer survey and six percussion drill holes. Results of these programs show a series of patchy magnetic highs interpreted to be associated with trace disseminated magnetite (Hall, 1975b). Of the six drill holes, only four reached bedrock with the remaining two lost in overburden. None of the four holes returned any significant base or precious metal values (Hall, 1975c). A follow-up IP survey was conducted in 1976 which showed two anomalous zones, one of which was associated with the encouraging drill intercept from 1974 (McCance, 1976).

No further work was conducted on the claims until 1995, when Westley Technologies Ltd. conducted a four-hole diamond drill program aimed to verify and expand upon the results of the 1970s era work. Three of the four holes (including one twin of the best hole from 1973) intersected 60–80 m wide zones of ~0.1% Cu. The results were considered encouraging, and follow-up work was recommended (Belik, 1996).

A mapping and soil sampling program in 2011 by KDG Exploration Services covered the area immediately east of the mineralized drill holes, and was successful in demonstrating the positive response of deep penetrating geochemical techniques (both MMI and Ah soil horizon sampling) to the zone of known mineralization underlying the area (Galambos and Turford, 2012).

6.8 Sky

The Sky Showing (MINFILE 093E/098) is located within the south-eastern corner of the Berg Property, 10 km northwest of the Huckleberry Mine (Figure 3). It is marked by an extensive gossan related to a swarm of porphyritic quartz monzonite to granite dykes and intrusive bodies, which were emplaced into sedimentary and volcanic rocks of the Cretaceous Skeena Group (Harrison, 1989). The gossan is the result of widespread pyritic alteration along the contacts of these dykes.

Following initial government mapping of the region in the 1930s and 1960s, two field programs were undertaken in 1988 and 1989. In 1988, Geostar Mining Corporation undertook a program consisting of reconnaissance soil sampling along contour lines with minor accompanying prospecting. Pardoe (1988) notes the significance of the large gossan and reports anomalous Cu, Ag, Pb and Mo from isolated rock sampling. The results of the soil survey were quite encouraging with well-defined Cu-Ag and PB-Zn anomalies as well as sporadic enrichment in Au. A follow-up program was recommended and conducted by Canadian-United Minerals in 1989; this program consisted of tightly focused soil sampling, detailed mapping and extensive rock sampling of the mineralized zones. Harrison (1989) concluded that the Au-Ag-Cu-Pb-Zn mineralization is associated with massive pyrite-arsenopyrite veins, and that vein formation was most likely related to hydrothermal fluids exsolved from the porphyry body during cooling. Additional work was recommended to explore for additional veining in the surrounding area, but never carried out.

A single silt sample from the area downslope of the Sky Showing was analysed as part of the 2008 QUEST-WEST project (Jackman, 2009). The sample is strongly anomalous in Cu, Zn, As, Pb and Mo, suggesting the stream sediments were sourced from well-mineralized bedrock. Interestingly, the drainage indicated as the source for the sample does not flow directly over the 1988/1989 work area, but instead drains a lower portion of the slope below this showing.

In 2015 a soil and prospecting grid was sampled several hundred vertical meters below the Sky Showing. Prospecting and soil sampling on the lower portion of the grid showed no evidence of mineralization. The upper portion however hosts a 2 km long soil anomaly directly downslope from the veins of the Sky

Showing. Follow-up work was recommended to fill in the gap between the 1988 and 2015 sampling areas (Swanton, 2015).

6.9 Sun

The Sun Zone is located west of the Berg deposit, downstream along Bergeland Creek (Figure 3). The area was first explored for mineral potential by Placer Dome. in 1980 to determine if the ground had any viable exploration targets, as the area was being considered as a potential storage site for tailings from the Berg deposit. Outcrop is limited in the area and, as such, the 1980 program consisted of soil sampling and ground geophysics. Examination of the limited outcrop that is present shows a lack of any sulphide or other mineralization (Cannon and Pentland, 1980). Results of the soil survey show several minor anomalies, the best of which is a Cu-Mo-Ag-Pb-Zn zone near the north-eastern corner of the grid. It is worth noting that the entire area is covered by a thick layer of glacial till, and thus any soil anomalies are likely reflective of transported material. In the case of this anomaly, it is also downstream of the Berg deposit and transport of material from that source must be considered as a potential source of the soil anomaly. Follow-up soil sampling was conducted in 1981, and is reported to have extended the anomaly slightly to the north and west (Smee, 1991), though the original data is not available for this survey and these results have not been verified. Similarly, results of the IP and magnetometer surveys showed several minor anomalies but did not present any highly compelling targets for future work.

An additional follow-up survey was conducted in 1991 by Placer Dome, to determine conclusively if the soil anomaly is the result of bedrock mineralization or simply derived from transported material from the Berg deposit. Smee (1991) examined the anomalous zone with a variety of techniques, subjecting it to several extraction methods and assessing variation in metal content with soil profile depths, coming to the conclusion that the anomaly was formed in situ (as opposed to being the result of hydromorphic transport), but that its source material had been transported downstream from the Berg deposit as a result of catastrophic flooding events. Further work was not recommended.

Several highly anomalous silt samples from this area are included in the 2008 QUEST-WEST database (Jackman, 2009), though the mineralization in these samples is believed to be sourced from the Berg deposit itself, as opposed to a downstream source near the Sun Zone.

The Sun Zone area is a potential site for future mine infrastructure for the Berg deposit, therefore an Ah horizon soil sampling program was carried out in 2015 to ensure there is no potential for minable resources. Multi-element anomalies from the results were interpreted to be a result of fluvially-transported material sourced from the Berg deposit and therefore no further work was recommended (Swanton, 2015).

6.10 A12

Part of the work program in 2017 was the field evaluation of annular magnetic anomalies throughout the Property identified from data of an aeromagnetic survey earlier that year (Nielsen, 2018). During the field visits, 13 anomalies were inspected., and 125 samples were taken for multi-element geochemistry. At magnetic Anomaly 12 (A12), a magnetic low was found be coincident with laterally and vertically extensive pyritic and sericitized intrusive rocks. Assays returned anomalous base metals values.

In 2018, an exploration program involving geological mapping, rock sampling, and soil sampling was undertaken at the A12 target. The field program at the A12 target included follow-up mapping and soil sampling. Surface work delineated a 1.2 km by 1.2 km Au-Ag-Cu anomaly within a zone of strong phyllic alteration. Au, Ag and Cu values within the anomaly were up to 0.195 g/t, 17.95 g/t and 0.16 % respectively. The geochemical anomaly was located on the northern margin of the sampling grid and remains open to the north (Lindhuber, 2019).

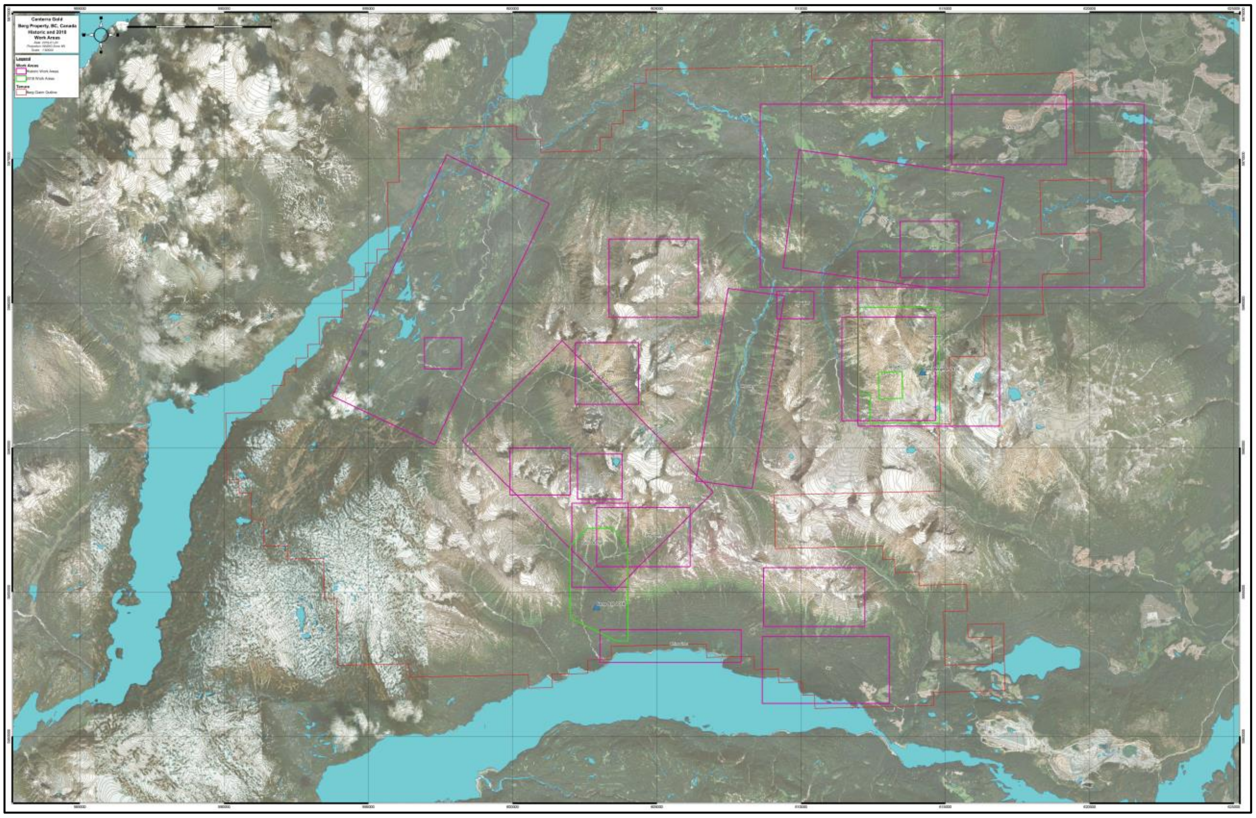

Figure 3. Historic Berg work areas

6.11 Other Work

Terrane Metals conducted an airborne geophysical (magnetic and EM) survey in 2010 over an area of ~130 km^2 covering what is now the east-central portion of the current Property. The survey encompassed the Berg, Bergette, BR Valley and CS South areas as they are defined in the current report. Results of the survey showed a clearly defined conductivity anomaly over the Berg deposit, with similar anomalies in the Bergette and CS South areas. In addition to the broad conductors defined over these zones, several strong linear conductors were identified paralleling both the BR Valley and the unnamed valley to the east (Labrenz, 2010).

Between 2011 and 2014 the land package encompassing the Property was significantly expanded and consolidated, and by 2014 included several gossanous or otherwise interesting areas that had not been previously visited or sampled. The 2014 program consisted of visiting and sampling a number of these zones, with somewhat disappointing results (Hutter et al., 2014). Sampling focussed on exposed alpine areas accessible by helicopter and, apart from a set of samples on Rhine Ridge (above the Sky Showing), did not return any significant precious or base metal values. Sampling on Rhine Ridge returned moderately anomalous Cu-Pb-Zn values (>100 ppm in select samples) and follow-up work was recommended (Hutter et al., 2014).

In 2015, soil and silt sampling were carried out in the Rhine Flats area, a potential access corridor between the Berg deposit and the existing Huckleberry Mine. Results showed no indication of any mineralization and therefore no further work was recommended (Swanton, 2015). Rock, soil, and silt sampling was also carried out in “Berg Road” (BR) Valley to follow up on the strong linear conductor identified in the 2010 airborne geophysical survey. Rock sampling and mapping did not reveal zones of potential significance; however, a moderately anomalous multi-element zone covers much of the west side of the valley, with notable elevation in molybdenum at its south end. One day of prospecting along the top of Rhine Ridge and surrounding slopes confirmed low-grade copper enrichment discovered in 2014 with no significant new findings (Swanton, 2015).

7.0 2019 EXPLORATION PROGRAM

The 2019 exploration program at the Berg Property involved diamond drilling, lithogeochemical modelling and geochronological age dating. Drilling took place from July 18th to August 1st while lithogeochemical modelling and geochronological work was done post-field. Field work was conducted out of Huckleberry Mine and all exploration staff were off-site by August 5.

Prior to drilling two traverses were done at A12 and Bergette on July 18th and July 21st, respectively. Rocks were not assayed but geological stations with rock descriptions describing lithology, alteration, and mineralization were recorded. These traverses helped optimize drill hole placement. See Appendix D for rock sample descriptions.

7.1 Drilling

The 2019 diamond drilling at the Berg Property involved drilling at two separate targets; Bergette and magnetic anomaly 12 (A12). Drilling was carried out from July 22nd to August 1st, 2019 and all exploration crews were off site by August 5th, 2019.

The Bergette and A12 target areas are located approximately 14 and 19 km respectively from Huckleberry Mine. Drilling was helicopter-supported, with mobilization and de-mobilization being staged out of Huckleberry Mine (Figure 4). Helicopter support was provided by Silver King Helicopters out of Smithers, BC with a Eurocopter AS350 B2 (AStar) helicopter staging out of Huckleberry Mine. Supplies and rental equipment were sourced from Huckleberry Mine, Smithers, and Vancouver, BC. Drill hole specifics are summarized in Table 6.

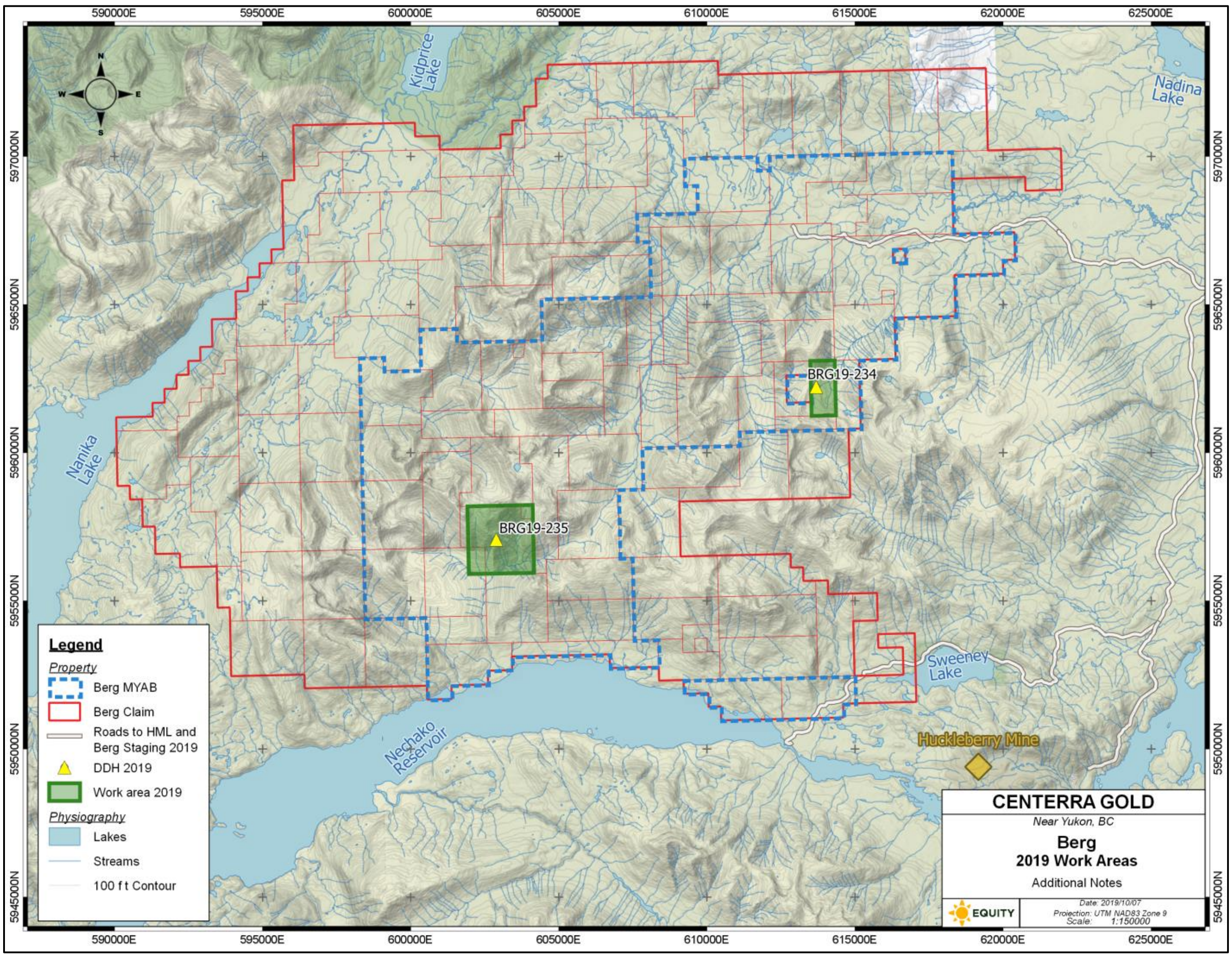

Figure 4. 2019 Berg program work areas.

Table 6. Summary of 2019 drill holes (UTM NAD83 Zone 9).

Hole	Target Area	Core Diameter	UTM E	UTM N	Elevation (MASL)	Start Date	End Date	Total Depth (m)	Azimuth (˚ Grid)	Dip (˚)
BRG19-234	Bergette	NQ	613686	5962216	1730	Jul. 22, 2019	Jul. 26, 2019	382	000	-70
BRG19-235	A12	NQ	602868	5957057	1695	Jul. 28, 2019	Aug. 1, 2019	358	000	-80
							Total m	740		

Diamond drilling was done using a heli-portable Hydracore 2000 drill rig operated by Geotech Drilling Services Limited based out of the Prince George, B.C. 2 Two drill holes were completed, with the first hole (BRG19-234) drilled at the Bergette Target with an orientation of 000° (grid north) and a dip of -70° to a final depth of 382 m. The second drill hole (BRG19-235) was drilled at A12, with an orientation of 000° (grid north), dipping at -80, and to a depth of 358 m. Downhole surveys were taken approximately every 30 m using a Boart Longyear TruShot gyroscopic compass to record azimuth and dip.. Drill core was transported from the field area by helicopter and dropped off at a core logging facility at Huckleberry Mine. Core boxes were labelled with the hole number, box number, and meterage at the top and bottom of each box. The core was logged for geology, core recovery, rock quality designation (RQD), and magnetic susceptibility (using a KT-10 handheld magnetic susceptibility meter), then photographed prior to being sampled. Geological logging and basic geotechnical data were recorded in Geospark logging software on Microsoft Surface computers. Geological logging recorded lithology, alteration, veining, mineralization and structures. The core was sampled from the top to the bottom of each hole, with individual samples laid out to respect geological boundaries as much as possible. Sample intervals were constrained between 0.5 and 2 m in length. A sample tag was placed at the beginning of each sample and sample boundaries were drawn on the core with a red China Marker. Core was split in half using a gas-powered core saw with half of the core retained in the box for future reference and the other half placed in the sample bag. Quality control and quality assurance (QA/QC) samples were included at a rate of one field or preparation duplicate every 40 samples and one standard or blank sample every 20 samples. Field duplicates were produced by quartering the core that was placed in the sample bags, allowing for retention of a quartered piece of core in the box. Cut drill core is stored on a de-activated cut block within the claim boundaries. The core was stacked 10 boxes high, covered with plywood, and surrounded by chicken wire to prevent degradation by wildlife. Core cuttings were disposed of at huckleberry mine and drill cuttings were contained in hand-dug sumps which were then backfilled.

A total of 484 samples were produced from the 2019 drill program, including 35 QA/QC samples (11 certified reference material samples, 6 field duplicate pairs, 6 preparation duplicate pairs, and 12 blank material samples). All collected drill core samples were shipped via Bandstra from Smithers to the Bureau Veritas facilities in Vancouver. After crushing, pulverizing and/or drying and sieving, they were digested by a 4-acid procedure, before they were analyzed via ICP-MS on 0.25 g sample aliquots. Gold in all samples was analyzed by lead fire assay and AAS on 30 g aliquots. Over limits for S were analyzed by combustion analysis on 0.1 g aliquots, over limits for Cu via 4-acid digest by AAS on 0.5 g aliquots, and over limits for Ag by lead fire assay with gravimetric finish on 30 g aliquots. See Appendix F for assay certificates and Appendix G for a discussion of the assay QA/QC.

7.2 Lithogeochemical Modelling

Lithogeochemical data collected from in-situ rock samples during the 2018 field program were used for three-dimensional porphyry-footprint modelling. Fathom Geophysics LLC ("Fathom") of Newark, OH (USA) was contracted to conduct the modelling. In this modeling method a computer algorithm (developed by Fathom) compares the spatial distribution of trace element concentrations collected from in-situ rock or soil samples with an idealized porphyry geochemical model (Cohen, 2011; Halley et al., 2015). The algorithm analyzes a three-dimensional volume enclosing the sampled area for goodness of fit between the in-situ distribution of trace elements and the idealized porphyry model. The algorithm provides a ranked prediction for a probable porphyry core if the distribution of geochemistry suggests one may exist. A score between 0 and 1 is assigned at every point in the three-dimensional grid. A value of 1 indicates a prefect fit between the analysis data and the model. Typically, values of greater than 0.25 indicate a high-quality target.

In total, 67 in-situ rock samples from Bergette, and 359 soil samples from A12 were used to produce the lithogeochemical model in 2018. In addition, 60 pulp samples from 30 drill holes of the 2011 diamond drilling at the Berg deposit were re-assayed by “ultra-trace” ICP-MS to test the modeling method over a known porphyry deposit on the Property and to validate the porphyry footprint lithogeochemical modelling method so that it could be applied on the Bergette and A12 targets. The drill holes were chosen based on an equal spatial distribution across the deposit. From each hole, one sample at shallow depth and another from deeper within the hole were pulled from the Centerra Gold cold storage in Prince George.

To follow up this work, drill core pulps from the 2019 drilling program were selected at 50 m intervals for “ultra-trace” ICP-MS re-assay. A total of 16 sample pulps were assayed and geochemical data was shared with Fathom to re-run the lithogeochemical model. The data from depth will help to better constrain the location of potential porphyry cores. In the case of Bergette, historically no in-situ rock samples were taken from the Bergette Bowl due to extensive cover and talus. 2019 Drilling produced additional geochemical data from the Bergette Bowl, proximal to the porphyry core.

7.3 Geochronology

A total of five age dates were produced from various intrusive units present in 2019 drilling. Four of the samples are from the Bergette target and one is from the A12 target. The coarse rejects of select samples were sent from Bureau Veritas laboratories in Vancouver to the Mineral Deposit Research Unit (MDRU) at the University of British Columbia. Rejects were then sieved for zircon crystals in order to obtain U-Pb age dates via LA-ICP-MS. Samples are summarized in Table 14.

8.0 GEOLOGICAL SETTING AND MINERALIZATION

8.1 Regional Geology

The Berg Property is located within the Stikine Terrane, with bedrock comprising Jurassic to Cretaceous clastic sedimentary and volcanic units intruded by late Cretaceous to Eocene granitoid plutons and stocks.

Hazelton Group rocks underlie much of the western portion of the Property, with lesser exposures in the northeastern corner of the land package (Figure 5). Regionally the Hazelton Group is a large and varied suite of island-arc volcanic and sedimentary units, represented in the Property area by the Lower Jurassic Telkwa Formation and Middle to Upper Jurassic Nanika Volcanic rocks. The Telkwa Formation is described as a calc-alkaline sequence of maroon, green and purple subaerial andesitic to dacitic feldspar-phyric flows, pyroclastic and epiclastic rocks, and augite-phyric to aphyric basalt. The Nanika Volcanic unit is dominantly a felsic volcanic unit, with rhyolite flows, breccia and tuff interbedded with minor siltstone and sandstone.

The upper Jurassic Ashman Formation of the Bowser Lake Group overlies the Hazelton Group at a few isolated localities in the eastern and southern parts of the Property (Figure 5). In these areas, it consists of fine-grained clastic sedimentary rocks with minor lenses of chert pebble conglomerate.

Skeena Group rocks overlie the Bowser Lake Group and are exposed throughout the eastern and northern areas of the Property. Amygdaloidal and vesicular andesites and basalts of the Mt. Ney volcanic unit make up the lower part of the Skeena Group succession and have been dated to Lower Cretaceous age (Diakow and Drobe, 1989). Many of the flows exhibit trachytic texture that distinguishes them from the underlying Hazelton Group. Overlying these volcanic units is a package of sandstones, siltstones and conglomerates, similarly dated to Lower Cretaceous. It is possible to find rocks of the Skeena Group in direct contact with the Hazelton Group, though these contacts are generally poorly exposed within the Property, and where present they are generally intruded by quartz diorite.

Upper Cretaceous Kasalka Group rocks unconformably overlie the Skeena Group in the northern part of the Property, and at higher elevations in the southern and eastern zones. The best exposures occur at Mt. Ney, six kilometres north of the Berg Stock. Here the succession consists of a basal conglomerate member that has a distinctive red to maroon colour. Overlying the conglomerate is a predominantly volcanic sequence of white, grey and pale green rhyolite and dacite flows and flow breccias with interbedded crystal and crystal vitric tuff.

Structure in the area consists of poorly developed open folds with north to northeast axial trends resulting in local dips of 10° to 30°. Fractures and Miocene basalt dikes that parallel this structural trend, may have also acted as the principal structural control for the emplacement of intrusions in the area. This relationship is supported by the pronounced elongation of the quartz diorite intrusion near the Berg deposit.

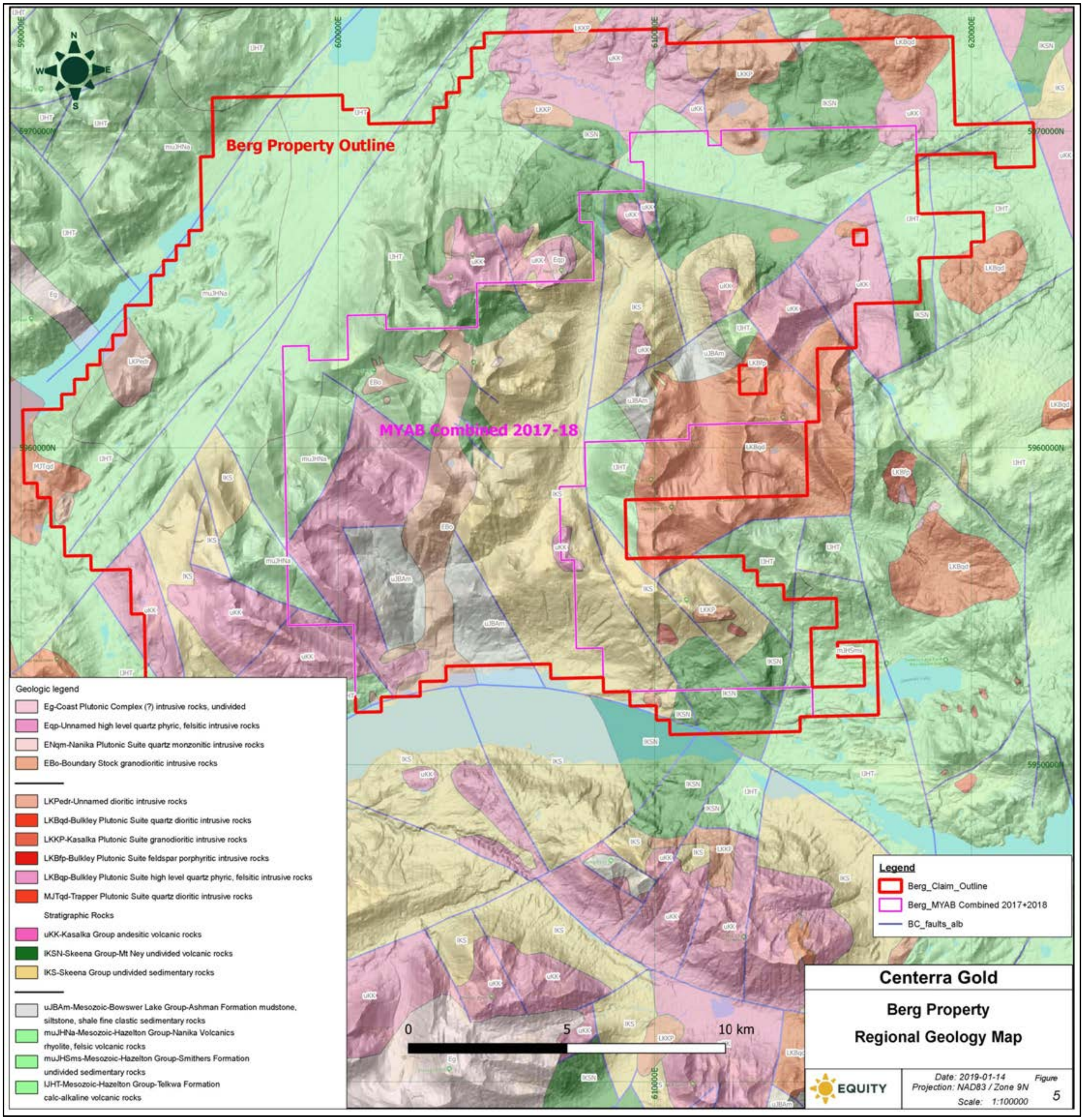

Figure 5. Berg Property and regional geology.

The oldest intrusive rocks in the area are the subvolcanic equivalents to the Kasalka Group volcanic rocks. This Late Cretaceous Kasalka Plutonic Suite is best exposed in the northern area of the Property although small stocks are present elsewhere. Rocks are generally described as crowded hornblende granodiorite porphyry, forming stocks and volcanic necks that act as feeders to the Kasalka Group. Of a similar age is a set of equigranular (locally porphyritic) biotite-hornblende quartz diorite intrusions belonging to the Bulkley Plutonic Suite. The largest and best exposed example of this unit is the Sibola Stock near Bergette, though the Bulkley intrusions occur elsewhere throughout the eastern half of the Property. Three age dates exist for the Sibola stock in the Bergette area: two U/Pb igneous crystallization ages of 78.9 ± 0.2 Ma and 77.8 ± 0.5 Ma, and one K/Ar biotite cooling age at 81.3 ± 5.4 Ma (Breitsprecher and Mortensen, 2004).

The youngest intrusive rocks on the Property are a set of Early to Middle Eocene (52 Ma to 47 Ma) composite quartz monzonite stocks that intrude Middle Jurassic Hazelton Group and Lower Cretaceous Skeena Group rocks in the central and southern portions of the Property. The largest of these units is a north-south trending body that broadly bisects the southern half of the Property and is termed the Boundary Stock on regional maps (Figure 5). Also of Eocene age is the Berg Stock – a member of the Nanika Plutonic Suite that post-dates the Boundary Stock and is interpreted to be the main driver of mineralization at the Berg deposit (Panteleyev, 1981)

8.2 Regional Mineralization

The area surrounding the Property hosts three main styles of mineralization, all of which are represented to some extent on the Property itself: (1) Cu-Mo porphyry deposits associated with the Cretaceous-age Bulkley Plutonic Suite, (2) Cu-Mo porphyry deposits associated with the Eocene-age Nanika and Babine Plutonic Suites, and (3) precious-base metal bearing quartz-sulphide veins of variable age, likely associated with the Bulkley, Nanika and Babine porphyry systems (Panteleyev, 1981).

Porphyry deposits of any age are typically associated with zoned and/or multi-phase granodiorite to quartz monzonite intrusions and volcanic or sedimentary country rocks. These deposits are marked by overlapping alteration systems focused around an intrusive complex. The alteration systems typically comprise a potassic core enveloped by an overlapping peripheral zone of propylitic alteration. These alteration assemblages can be overprinted by zones of phyllic and/or argillic alteration that are either zonal in distribution (between the potassic and propylitic zones) or structurally controlled. Cu and Mo mineralization is commonly more abundant in the potassic core whereas pyrite is more prevalent in the propylitic and phyllic zones. The abundance of pyrite in these systems can result in the formation of strongly acidic groundwaters that, under appropriate climatic conditions, generate leached caps as part of supergene Cu mineralization. Sulphide mineralization comprises chalcopyrite, chalcocite, covellite, digenite, bornite, molybdenite and locally Cu-oxide and carbonate minerals, such as cuprite and malachite, respectively. These sulphides are hosted in quartz veinlet stockworks, veins, breccias, disseminations and replacements (Seedorf et al., 2005).

Bulkley intrusions are associated with several Cu and Mo porphyry deposits, the most significant of which is the Huckleberry deposit (MINFILE 093E/037), which has been in production since 1997, but was put into care and maintenance in August 2016. As of December 31, 2014, reserves and resources for the Main Zone Optimization was 42.2 Mt probable grading 0.327% Cu and 0.010% Mo, 155.8 Mt Measured grading 0.321% Cu and 0.007% Mo, and 96.6 Mt Indicated grading 0.279% Cu and 0.004% Mo, calculated with a 0.150% Cu cut-off (Minfile, 2015c). Mineralization at Huckleberry is associated with potassic alteration along the contact zones of two small granodioritic hornblende-biotite-feldspar porphyry stocks that intrude Hazelton Group volcanic rocks (Jackson and Illerbrun, 1995). Also, in the immediate vicinity of the Property, and associated with the Bulkley Plutonic Suite are the Ox Lake and Seel porphyry deposits. The Seel deposit hosts a 43-101 compliant resource of 127 Mt at 0.2% Cu, 0.016% Mo, 0.16 g/t Au and 2.47 g/t Ag; Ox Lake contains 39 Mt at 0.2% Cu, 0.026% Mo and 1.53 g/t Ag (Boyce and Giroux, 2014). Similarly, the Poplar deposit (MINFILE093L/239) hosts a porphyry system containing 144 Mt at 0.37% Cu and 0.011% Mo associated with disseminated and fracture-fill sulphides within and surrounding a biotite monzonite porphyry (Minfile, 2015d).

The most significant Eocene-era porphyry deposit in the area is the Berg deposit itself, associated with the Berg Stock of the Nanika Plutonic Suite and described in detail in section 9.1.2. Apart from Berg, Lucky Ship is the nearest Eocene porphyry deposit to the Property and is located 20 km to the north; it hosts an Indicated resource of 65.6 Mt grading 0.064% Mo hosted within a multiphase porphyry and breccia intrusion of the Nanika Suite, which is marked by an extensive gossan zone over variable levels of silica-kaolinite alteration (Lee and White, 2008).

Babine intrusions, while not found in the immediate area surrounding the Property are of a similar age to the Nanika Plutonic Suite and are associated with several significant copper porphyry deposits clustered around the north end of Babine Lake approximately 130 km northeast of the Property. The Bell Copper Mine (1972-1992; MINFILE 093M/001) milled 77.2 Mt at a recovered grade of 0.39% Cu and 0.17 g/t Au from a deposit centred on a biotite-feldspar porphyry stock of the Babine intrusions dated at 51.0 Ma. The Bell Ore

Zone had pervasive potassic (mainly biotitization) alteration with a surrounding concentric halo of chlorite and sericite-carbonate alteration (propylitic and argillic) which formed a 2 km pyrite halo around the deposit (Minfile, 2015a). The Granisle Mine (1969-1982; MINFILE 093L/146) milled 52.3 Mt at a recovered grade of 0.41% Cu and 0.13 g/t Au from an orebody centred on a wide biotite-altered biotite-feldspar porphyry dyke dated at 51.2 ± 2 Ma (Minfile, 2015b).

Well-mineralized sets of quartz-sulphide veins are associated with porphyry-style mineralization in the region and were historically mined for their base and/or precious metal content. While they may be locally high grade, their volume is typically not high enough to justify mining using modern methods. Regardless, these veins may be useful as indicators of a nearby metal-bearing porphyry system. The closest example of such a deposit on the Property is the Emerald Glacier Mine located just north of the Huckleberry Mine, which produced small tonnages of high-grade silver-lead-zinc ore during intermittent operations from 1951–1968. Based on available descriptions of the deposit, it appears to be an epithermal-style quartz-sulphide vein deposit, with quartz veining extending for >1 km, hosted within a set of shear zones with massive to stockwork galena, sphalerite, chalcopyrite and pyrite.

Approximately 5 km south of the Property (on the far side of Tahtsa Lake), the Captain Vein System (MINFILE 093E/035) is a set of polymetallic veins that have been historically mined on a small scale for their lenses of semi-massive sulphide. Assay results from historical data are as high as 289 g/t Ag, 2.62% Pb, 1.26% Zn and 0.09% Cu over 0.9 m from galena-rich pods within the system (Minfile, 2016).

9.0 PROPERTY GEOLOGY AND MINERALIZATION

9.1 Berg Deposit Geology and Mineralization

Unlike much of the Berg Property, the Berg deposit has been well studied with excellent treatises on the geology, alteration and mineralization by Panteleyev (1976, 1981), Heberlein and Godwin (1984) and Heberlein (1995). Harris and Peat (2011) summarized findings of these studies and integrated them with information from the 2007, 2008 and 2011 drilling programs, and the following discussion is taken from their report. More recently, the 2017 core review program made advances in understanding the timing relationships between the porphyry phases and the distribution of alteration at the Berg deposit.

Two main intrusive bodies are exposed in the Berg deposit area. The largest consists of the Boundary Stock, a north-trending, elongate polyphase intrusive body comprising quartz diorite, pink quartz monzonite, quartz diorite, and hornblende quartz diorite (Unit QDR) that intrudes the contact between the Hazelton Group and the Skeena Group rocks east of the mineralized area. The intrusion extends from about 750 m north of the Berg Stock to over 6.5 km to the south (Figure 6). It ranges in width from 600 m on the Property area to over 2 km at its southern extremity. A portion of this body was mapped in detail during the 2017 Tahtsa-Serenity mapping program. Porphyritic phases are also present. At hand-specimen scale, the quartz diorite is typically fine- to medium-grained and pale grey or dark grey-brown where hornfelsed or biotite-altered.

In drilling proximal to the Berg deposit, the Boundary Stock is typically fine-grained and composed of plagioclase, hornblende, biotite and quartz overprinted by biotite, chlorite and minor epidote alteration or quartz-sericite-pyrite ± chlorite alteration. Where the quartz diorite is mineralized, quartz veins, chalcopyrite, pyrite and molybdenite are present in association with biotite alteration. This grades outwards into biotite-chlorite ± epidote alteration with pyrite overprinting primary magnetite and a phyllic assemblage of quartz-sericite-pyrite ± chlorite. The phyllic assemblage is most evident in quartz diorite at the eastern margins of the system and suggests that the exposure level of the Berg deposit is relatively deep as the alteration is preserved at higher altitudes in the vertically oriented system. A well-developed thermal aureole up to 120 m wide occurs on both sides of the intrusion and into Hazelton Group andesitic rocks in the deposit area. The western contact of the quartz diorite and Hazelton Group andesitic rocks is sub-vertical and diffuse in nature in the deposit area due to the prevalence of dykelets of quartz diorite in andesite and assimilated xenoliths of andesite in quartz diorite and to the nature of the hornfelsing and overprinting alteration. Hornfelsed rocks are typically brownish purple due to the abundance of secondary biotite.

The other prominent intrusion in the deposit area is the Berg Stock, a multi-phase composite quartz monzonite stock that intrudes the Hazelton Group andesitic rocks. It is broadly cylindrical and approximately 600 to 750 m in diameter with typically sharp, subvertical contacts. Locally these contacts are complex with brecciated xenoliths of andesitic rocks with diffuse clast boundaries. This stock is a first-order control on mineralization at the Berg as the deposit forms an annulus around the stock. Panteleyev (1976, 1981) subdivided this composite stock into four main phases:

a) a core of very coarsely porphyritic quartz monzonite (Unit QMP-P3),
b) a coarse-grained plagioclase-biotite-quartz porphyry (Unit PBQP-P2) that wraps around the northern flank of the QMP-P3 core,
c) a northwest-trending medium-grained porphyritic quartz-plagioclase porphyry (Unit QPP) that extends to the west from the southern and western portion of the QMP-P3 core, and
d) a narrow, subvertical and northeast-trending late- to post-mineral quartz-feldspar porphyry (Unit QFP) dyke or zone of dykelets that cuts across each of the above phases and has been noted cutting quartz diorite along trend and northeast of the stock.

Unit QMP-P3 is characterized by very coarse-grained plagioclase, quartz, biotite and commonly megacrystic orthoclase phenocrysts. The quartz is distinctive, commonly comprising coarse resorbed crystals with sub-rounded and wormy boundaries and with poikilitic intergrowths of plagioclase. Feldspar and biotite phenocrysts are euhedral and minor hornblende is typically replaced by biotite. A K-feldspar megacrystic phase of this unit (Unit KQMP) typically occurs as dykes from less than a metre to tens of metres thick. The KQMP dykes typically, but not exclusively, are poorly to non-mineralized and late to post-mineral.

The PBQP-P2 unit is a slightly finer-grained quartz monzonite than the QMP-P3 with a typically darker grey to brown matrix containing plagioclase, quartz and biotite with rare orthoclase. Biotite is roughly twice as abundant and typically finer-grained than in the QMP-P3, comprising 2 mm books compared with the 4-6 mm books in unit QMP-P3. Internal contacts and cross-cutting relationships within the Berg Stock between the PBQP-P2 and the QMP-P3 are poorly understood due to lack of drilling, but contacts with the andesitic country rocks appear to be largely sub-vertical.

Unit QPP-P1 is also quartz monzonitic in composition and has the finest grain size of the Berg Stock phases. This leucocratic phase is medium grained comprising mainly plagioclase and quartz with notably absent or rare orthoclase and biotite. The QPP-P1 also exhibits characteristically strong and pervasive sericite alteration and local fine secondary biotite. This unit appears to have a strong degree of structural control in its emplacement forming a west-northwest trending sub-vertical keel along the southern margin of the stock.

The QFP dyke forms the backbone of the northeast-trending ridge that transects the Berg deposit. This dyke is also very coarse-grained, closely resembling the QMP-P3 and KQMP with coarse-grained plagioclase, biotite, resorbed and sub-rounded quartz, hornblende and common orthoclase megacrysts. Distinctive and characteristic coarse-grained crystals of titanite are also present. Epidote commonly replaces orthoclase and chlorite, calcite and pyrite are also present as alteration products, particularly replacing mafic minerals. Quartz-molybdenite veining and chalcopyrite are rare within the QFP. In contrast to the QMP-P3 and GRDI units, the QFP dykes are typically fresh to weakly propyliticallyaltered. This unit is also the only phase of the Berg Stock that intersects the quartz diorite. This dyke narrows or bifurcates to only a few metres width where it has been intersected by drilling in the stock.

Dark green, typically fine-grained to aphanitic andesite dykes (Unit AND) cut all units. These dykes are typically very narrow and comprise plagioclase and hornblende with accessory magnetite and calcite amygdules. They are likely to be steeply dipping or sub-vertical and appear to be coincident with narrow zones of faulting and clay ± sericite alteration, particularly along dyke contacts.

Hydrothermal alteration zones are spatially related to the Berg Stock and extend up to 1,000 m from the intrusive contact. Alteration types may be divided into potassic, phyllic, argillic and propylitic zones whose diagnostic mineral assemblages vary with lithology. The 2017 core review focused on identifying zones of individual minerals rather than assemblages.

Potassic alteration is expressed as rare orthoclase alteration in unit QMP-P3, orthoclase on fracture/veinlet selvages and pervasive fine-grained biotite in the matrix of the PBQP-P2, and pervasive fine-grained biotite alteration and replacement of mafic minerals in the quartz diorite and andesite. This phase of alteration is also associated with the replacement of plagioclase phenocrysts in the Berg Stock.

Like the zone of biotite alteration, propylitic alteration is concentrically zoned about the Berg Stock and a transitional zone of biotite-chlorite alteration lies inboard of a zone of chlorite-epidote-carbonate-albite as biotite decreases. Primary magnetite is also present, particularly within the biotite-chlorite zone. Fracture-controlled late chlorite-epidote-carbonate alteration is also present overprinting other alteration. Chlorite, epidote, calcite and hematite present in the late-mineral QFP dykes and carbonate-chlorite-sphalerite-pyrite veins may be related to this late event.

A phyllic zone is present in all units except for QMP-P3 at the centre of the Berg Stock. Where fracture densities are greatest, this fracture selvage-controlled alteration can be pervasive as in the QPP-P1 and in portions of the QMP-P3. A zone of fracture-controlled phyllic alteration comprising quartz-sericite-pyrite ± chlorite veinlets flanks the transitional biotite-chlorite alteration at higher elevations within quartz diorite to the east of the deposit.

A leached cap of pervasive kaolinite-clay ± silica (argillic alteration) overprints potassic and phyllic alteration. It is likely related to the acidic solutions that formed from the breakdown of pyrite, which formed the supergene enrichment zone at Berg.

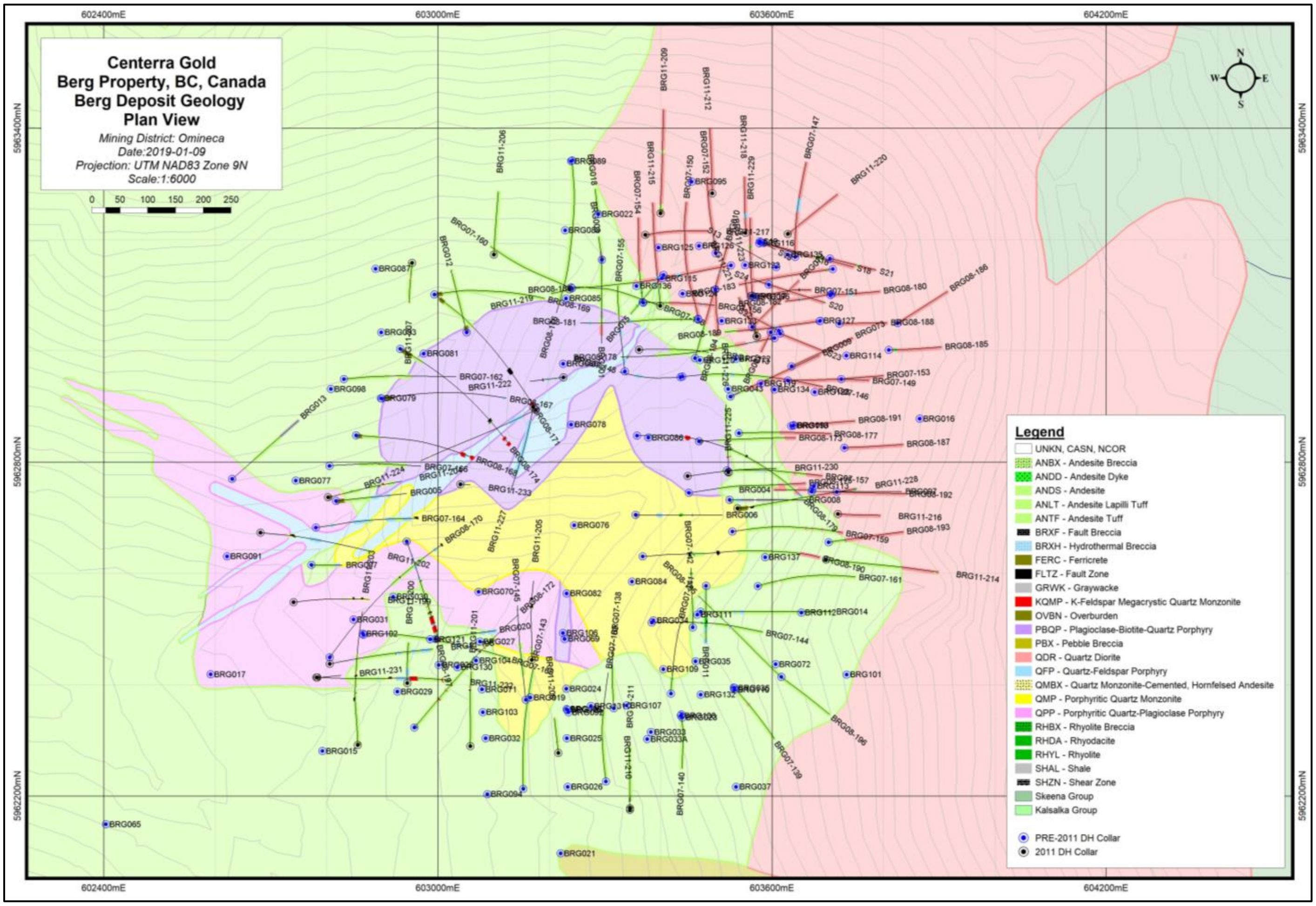

Figure 6. Berg deposit geology map

Mineralization at the main Berg deposit is localized in and adjacent to the two Eocene intrusions in the area; quartz diorite and quartz monzonite of the composite Berg Stock. Copper and molybdenum mineralization occur primarily in potassically-altered rocks within the earlier phases of the Berg Stock (QPP-P1 and PBQP-P2), with most hypogene mineralization occurring in several generations of quartz-sulphide veins. The earliest veins appear to be the most Cu- and Mo-rich. Associated alteration envelopes are either potassic or non-existent, implying equilibrium with the potassically-altered wall rocks. Later veins are typically poor in Cu ± Mo sulphides and are associated with phyllic and propylitic alteration assemblages. Calcite ± gypsum ± quartz-sphalerite-pyrite ± galena veins are a common late vein type and contain up to 1,020 g/t Ag. This argentiferous mineralization is particularly prevalent within the PBQP-P2 in the West Shell and to a lesser extent with the PBQP-P2 rocks in the North Shell.

A well-developed supergene enrichment blanket is developed above the hypogene mineralization and is sub-divided into three mineralogically distinct zones: (1) supergene sulphide (covellite, chalcocite and digenite), (2) supergene oxide (malachite/azurite, cuprite, tenorite and native copper) and (3) leached capping. The presence or absence of these zones is determined by several factors including fracture intensity, abundance of hypogene sulphide and topography. Topography has the greatest effect on supergene profile development. Three different profiles corresponding to ridge top, slope and valley floor environments are recognized. In the ridge-top environments the supergene profile is complex, consisting of a strong leached and oxidized zone underlain by a thick but poorly enriched supergene sulphide zone. In the valley floor environments, where the water table is at or close to the surface, leaching is minimal and fresh hypogene minerals occur at surface. The most complex profile is developed on steep slopes, where highly variable water table levels and a high rate of ground water migration have coupled to produce a strongly enriched supergene sulphide zone overlain by a zone of supergene oxide. The boundary between the supergene and underlying hypogene zones can be commonly, but not consistently defined by the upper limit of gypsum fracture-filling. Supergene oxide mineralization is also strongly developed on the margins of, and commonly within, post-mineral andesite dykes where they transect the supergene zone. The chemical contrast of the carbonate-bearing andesite dykes and the QFP dykes with the acidic cupriferous leachate appears to have resulted in the precipitation of the supergene oxide minerals, chiefly tenorite, malachite and azurite. Supergene mineralization is less commonly present on the QFP dyke contacts.

9.2 Bergette Prospect Geology

The Bergette prospect has a long history of exploration dating back to the early 1970's, which included percussion drilling that returned economic concentrations of Cu, Mo and Ag (Table 1, Table 5). Although much of the historical work done lacks significant detail, recent mapping and geochemical sampling programs have outlined the surface geology and geochemistry present at Bergette. The majority of outcrop mapped at Bergette is composed of andesite (both coherent and clastic facies), quartz monzonite and monzodiorite, with andesite predominantly occurring in the north and the felsic intrusive rocks in the centre, south and east of the work area. Monzodiorite dominates the work area, with lesser exposures of quartz monzonite and granite. Minor occurrences of siltstone and conglomerate occur west of the Bergette porphyry.

Two targets were identified from 2018 mapping (Figure 7); Offen Bowl and Ruecken Ridge. Offen bowl is characterized by quartz monzonite, monzonite, monzodiorite and diorite felsic intrusive rocks, with a 150 m-long elongate exposure of quartz-feldspar porphyry occurring to the east of Offen Bowl. A hydrothermal breccia with silicified clasts in a silica-matrix as well as the highest abundance of weakly to moderately altered phyllic rocks is present at the ridgeline of the cirque. Local showings of weak to moderate potassic alteration are found at the southern ends of the Offen Bowl. Ruecken ridge is composed of weakly phyllic altered quartz monzonite and monzodiorite hosting local quartz veining with phyllic alteration haloes. Propylitic alteration assemblages dominate the northern, eastern and southwestern portions of the Bergette prospect. Veining identified within the prospect area consists of magnetite, quartz, alkali feldspar and pyrite. Structural mapping indicates two main vein orientations at Bergette: NW-SE and NE-SW.

Grab samples taken from the Bergette prospect area contain low-grade, slightly anomalous values for base and precious metals. Lack of outcrop over the Bergette porphyry limits in-situ rock and therefore the southeastern end of the Offen Bowl rim returned the two most anomalous Cu values. 600 ppm Cu is present within phyllic- and potassic-altered diorite with moderate to high magnetite content while 593 ppm was returned from porphyritic quartz monzonite with chlorite, pyrite and sericite. 2.1 and 1.3 g/t Ag was returned from grab samples taken along Ruecken Ridge. Au values returned from surface sampling are generally low, with the best sample returning 0.08 ppm.

Lithogeochemical modelling carried out at Bergette by Fathom in 2018 predicts the presence of two porphyry intrusion cores. Modelling was carried out using a combination of geochemical and short-wave infared analysis (SWIR) data. This is due to the lack of sample coverage east of the second modelled core due to extensive talus and till cover (Lindhuber, 2019). The porphyry intrusion core driven by a combination of the SWIR and the geochemical data is modelled in the north of the 2018 work area, approx. 1,800 m north of the main Bergette porphyry. This core is estimated to be at a depth of at least 940 m below surface and does not have a surface footprint immediately indicative of a proximal porphyry environment. Field observations of the area include weak outer propylitic alteration, hornfels at the contact between andesite and monzodiorite, and slightly elevated Au concentrations in rock samples. The second modelled core is to the east of historical drilling at Bergette, estimated to occur at a depth of 650 m. this modelled porphyry core was a contributing vector for 2019 drilling at Bergette.

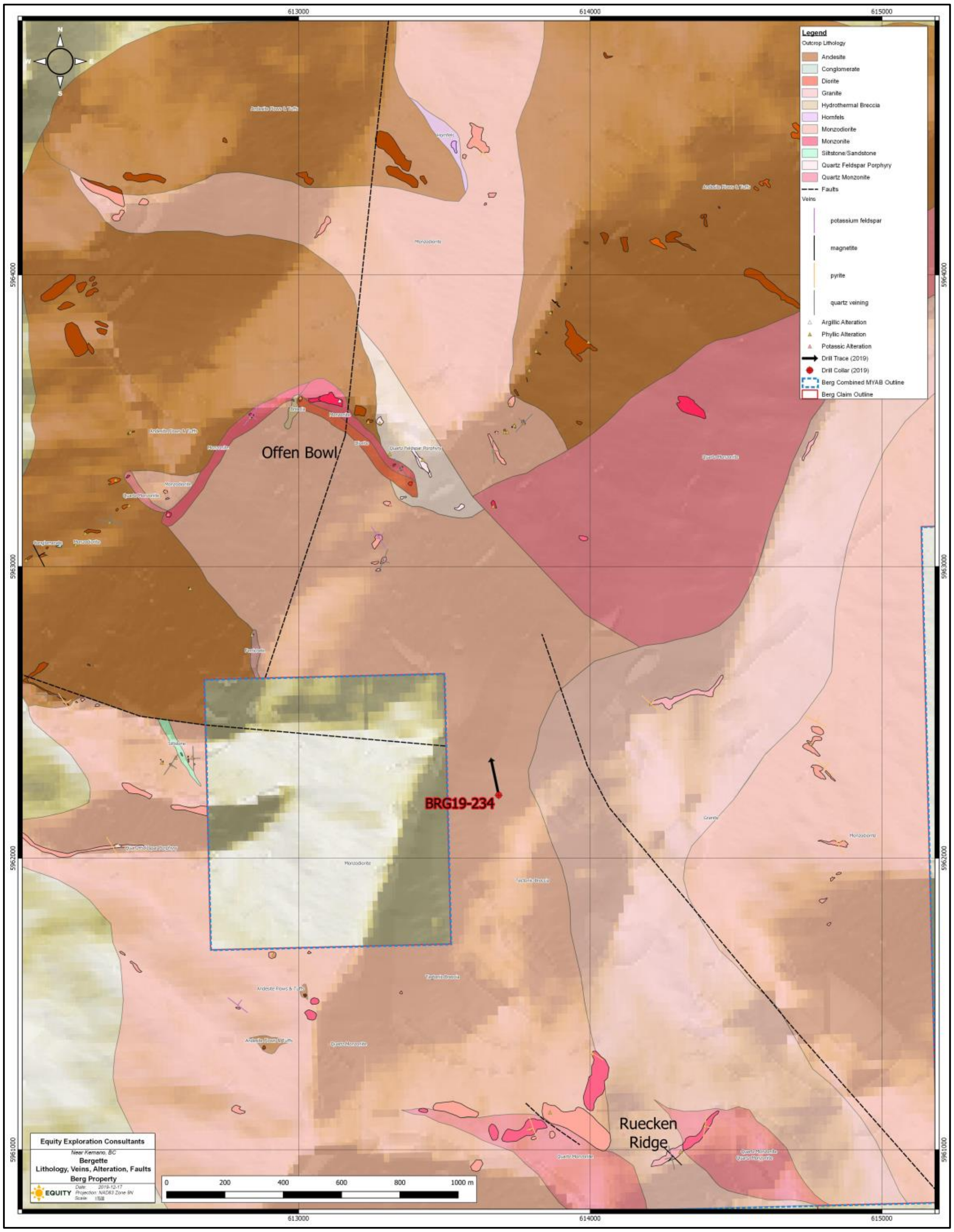

Figure 7. Bergette outcrop and interpreted lithology (Lindhuber, 2019)

Drilling from 2019 is the deepest drilling done at Bergette to-date, drilling nearly 150 m deeper than previous explorers. Two lithologies are present in drill hole BRG19-234; Tonalite porphyry (TONL) and megacrystic plagioclase-quartz phyric granodiorite (GRDI). Potassic alteration predominates throughout the drill hole with localized intervals of phyllic alteration filling a subordinate role. Potassic alteration is generally moderate however it can be intense in narrow, 2 m "flooded" zones within TONL and up to 20 m within megacrystic GRDI. Alteration intensity generally increase with depth.

It is possible TONL corresponds with monzodiorite mapped at surface while GRDI may correspond to quartz-feldspar porphyry. The megacrystic feature of the GRDI unit is very conspicuous however it is unknown if the quartz-feldspar porphyry mapped is megacrystic. The "Sibola Stock Granite" was described in detail by

Church (1971) and shares mineralogical similarities with TONL, including 4-6 mm porphyritic tabular plagioclase crystals. It seems likely that these units are equivalent. There is no mention of any megacrystic units in historic drill logs.

9.3 A12 Prospect Geology

There are four major lithologies in the area around Anomaly 12 (Figure 8). The overall dominant lithology comprises felsic intrusive rocks. The most voluminous unit is a fine- to medium-grained diorite, mapped extensively from the centre to the northern margin of the work area. Minor quartz monzonite and quartz-feldspar-porphyry outcrops are mapped on a ridge south of an unnamed peak in the very north of the work area. Mafic to felsic coherent and clastic volcanic rocks dominate the southern part of the work area comprising basalt and andesite, whereas in the west arm of Tahtsa Creek and in the northeast of the work area dacite, andesite, and basalt are noted. Sedimentary packages of sandstone-dominated units were mapped close to the summits of the highest peaks in the area. Several occurrences of gossanous and locally silicified breccias with intense Fe-staining were mapped in the area of sandstone outcrops and quartz monzonite in the north of the work area.

Geochemical sampling in 2018 delineated a 1.2 x 1.2 km multi-element Au-Ag-Cu-Mo soil anomaly with values in the northern extent of the grid as high as 0.16%, 0.195 g/t, and 17.95 g/t respectively. Lithogeochemical modelling performed by Fathom on the A12 soil grid predicted a robust porphyry target below the northern edge of the soil anomaly, despite insufficient sample coverage to close off the anomaly. Furthermore, the anomaly remains open to the north and northwest which correlates well with the modelled porphyry intrusion (Lindhuber, 2019).

Reconnaissance traverses at A12 in 2019 corroborates moderate to strong zones of phyllic and argillic alteration on the north-south trending ridge below the previously mentioned unnamed peak. The most extensive phyllic alteration, which consists of strongly pyritic and silicified diorite with sericite, is observed in the north-eastern branch of Tahtsa Creek (Figure 8). A similar style of alteration is present from 60-200 m in drill hole BRG19-235. Intense argillic alteration is present at surface at A12, with BRG19-235 collaring into this alteration at surface. This zone of intense argillic alteration is also host to Au values of up to 0.25 g/t, which are the highest Au results from the drill hole. Argillic alteration is absent passed approximately 45 m depth.

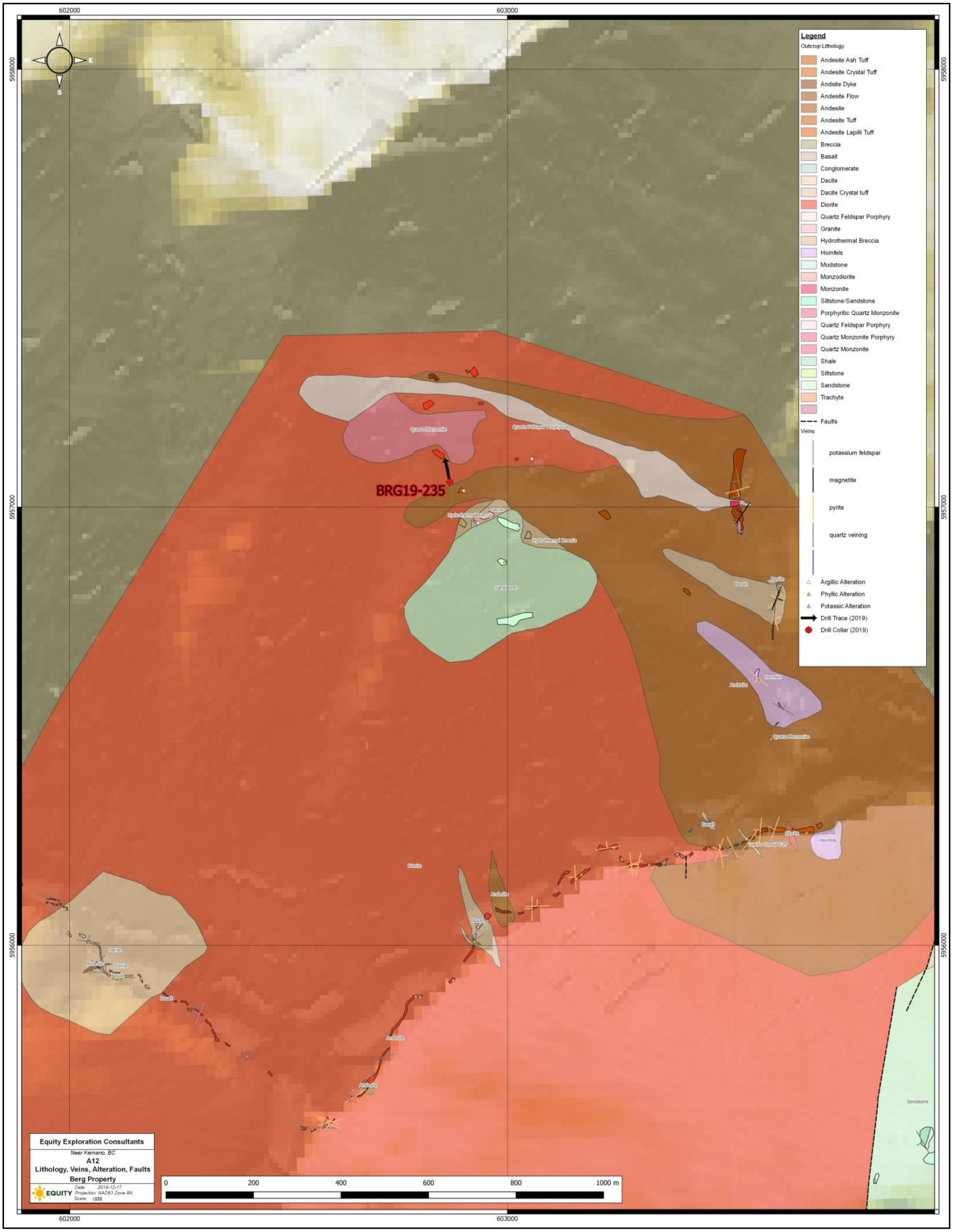

Figure 8. A12 outcrop and interpreted Geology (Lindhuber, 2019)

10.0 DRILLING

A two-hole diamond drilling program, totalling 740 m, was completed on the Property in the summer of 2019. The drilling was intended to test geochemical anomalies at Bergette and coincident geochemical and geophysical anomalies at A12 outlined during previous exploration programs (Lindhuber, 2019; Nielsen, 2018; Branson and Guestrin, 2016; Swanton; 2015).

The first hole (BRG19-234) tested the historic Bergette target, which comprises geochemical anomalies from recent rock and soil sampling and porphyry-related Cu-Mo-Ag mineralization from historic drilling. The hole was designed to both follow up on high Cu values from recent rock and soil sampling and test historic Cu grades at depth. The second hole (BRG19-235) tested a zone of phyllic alteration coincident with high Au-Cu anomalies in soil at A12.

Complete drill hole logs are in Appendix E and analytical certificates in Appendix F. Drill hole locations are shown in Figure 4. Drill hole cross sections are presented in Appendix I. Intrusive rock names are based off post-field petrographic work by Colombo (2019) presented in Appendix K.

Table 7. Summary of significant results from drilling.

Hole	From (m)	To (m)	Interval (m)	Cu %	Mo %	Au ppm	Ag ppm
BRG-19-234	131.7	382	250.3	0.12	0.009	0.015	0.5
including	259	382	123	0.14	0.014	0.018	0.66
BRG-19-235	5	309.5	304.5	0.014	-	0.021	1.06
including	7	8.9	1.9	0.016	-	0.25	20.8
including	133	135	2	0.013	-	0.2	1.3

10.1 BRG19-234

BRG19-234 (Figure 12) collared into coarse-grained tonalite (TONL) after 10 m overburden, which is nearly continuously present down to a depth of 215 m. From 215 to 325 m, several intervals of a megacrystic plagioclase-quartz-phyric granodiorite porphyry (GRDI) intrude TONL, with the two units comprising a 50:50 split volumetrically throughout this interval. Contacts between these units are typically sharp with planar to irregular morphology. GRDI commonly contains domains of a medium-grained dioritic rock that have been interpreted as xenoltihs. These xenoliths are composed of subhedral to anhedral crystals of plagioclase and disorganized lamellae of biotite (Colombo, 2019). From 325 m to end-of-hole at 382 m tonalite is the dominant lithology with two <0.5 m intervals of GRDI. Lithologies present in drill hole BRG19-234 are summarized below in Table 8.

Table 8. Lithologies encountered in drill hole BRG19-234

Litho Code Group	Lithological unit	Lithological Code	Description (Colombo, 2019)	Alteration (Colombo, 2019)	Occurrence
Intrusive Rocks	Tonalite	TONL	Variably altered Tonalite Primary Minerals: Plagioclase: 65-70% Quartz: 10-15% Biotite: 1.5-3 % Magnetite: 1.5-2% Pyrite: tr – 1%	Commonly strong Biotite ± magnetite ± quartz K-feldspar after plagioclase commonly moderate throughout Clay locally weak to moderate after plagioclase	Bergette: Volumetrically dominant intrusion in BRG19-234 and appears to be pre-to syn-mineralizing in time.

	Megacrystic plagioclase-quartz phyric granodiorite	GRDI	Quartz-plagioclase granodiorite porphyry Primary Minerals: Plagioclase: 48-55% Quartz: 8-12% K-feldspar: 13-14% Biotite: 1-2%	Appears to have several alteration products from primary plagioclase such as K-feldspar, pyrite, carbonate, chalcopyrite and unresolved clay.	Bergette: Appears to intrude tonalite, ranges in thickness from 0.2 to 30 m, intensely altered and weakly mineralized, alkali feldspar alteration is determined to be coeval with chalcopyrite (Colombo, 2019)

Alteration throughout the drill hole is dominantly potassic, mostly manifesting as partial to complete biotite alteration of ferromagnesian minerals and alkali-feldspar alteration of primary plagioclase. Potassic alteration within tonalite is predominantly moderate in intensity, with rare discrete zones of intense alkali-feldspar alteration of the groundmass, strong biotite, and pyrite levels in excess of 10% (Figure 9). These zones are present at approximately 270 m and 330 m depth, are less than 2 m wide, and correspond to the highest Cu grades in the hole (0.49% Cu, 332.6 – 334.3 m). GRDI is host to a broad interval of intense, texture-destructive alkali-feldspar flooding with “Dalmatian”-textured biotite clots (Figure 10). This texture is only present in one broad interval present from approximately 297 to 323 m depth. Several m-scale zones of intense white mica alteration are present throughout this interval, most likely overprinting primary potassic alteration. It is unclear if this interval is the same unit as the lesser altered megacrystic granodiorite present at shallower depths in the drill hole. The texture destructive nature of the alteration present has made protolith identification impossible, but petrographic analysis has dubbed this zone as an “Alkali feldspar-anhydrite-biotite alteration zone” (Colombo, 2019). White mica is common as a vein halo mineral around late gypsum veins, completely replacing plagioclase phenocrysts within tonalite. Alteration assemblages and minerals present in drill hole BRG19-234 are summarized in Table 9

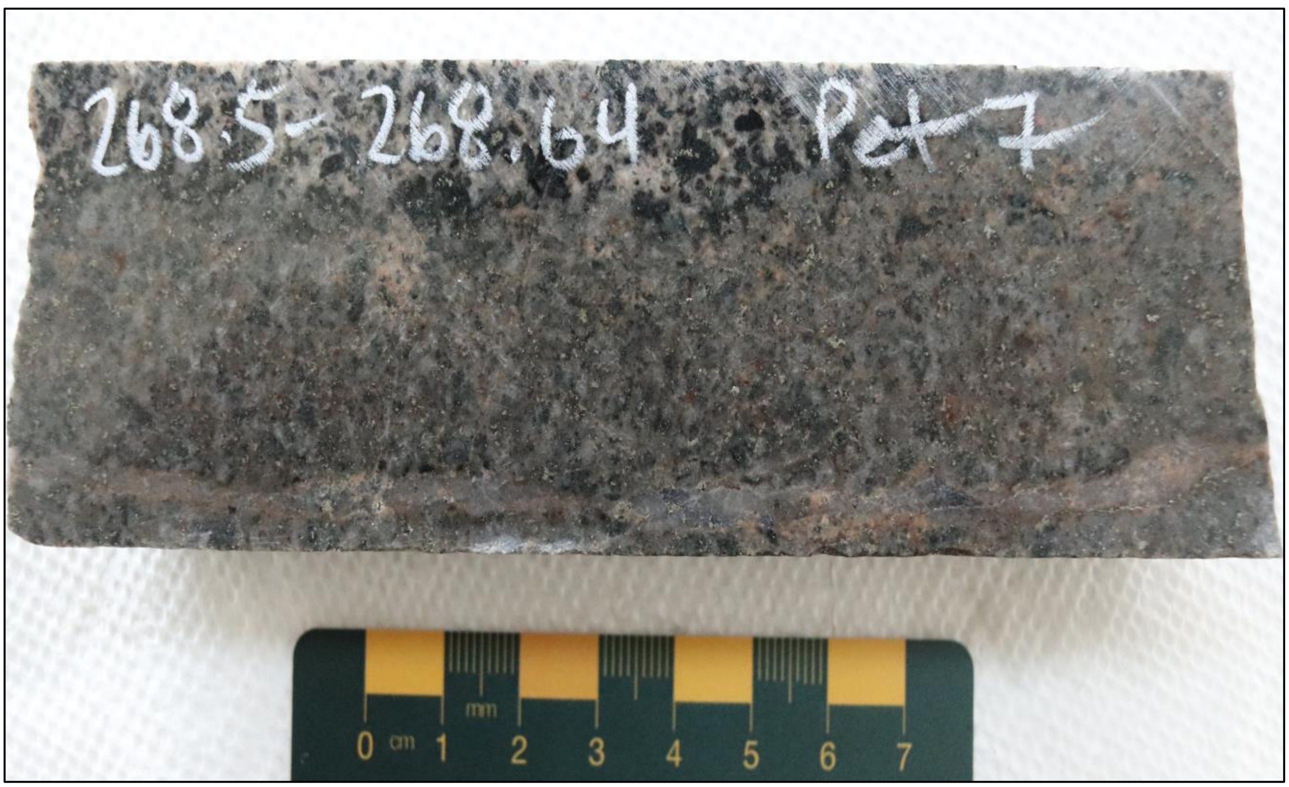

Figure 9. Strong silica-K-feldspar alteration front in the top left corner with disseminated pyrite and chalcopyrite in TONL. 0.5 cm quartz vein runs parallel to core axis at bottom of sample.

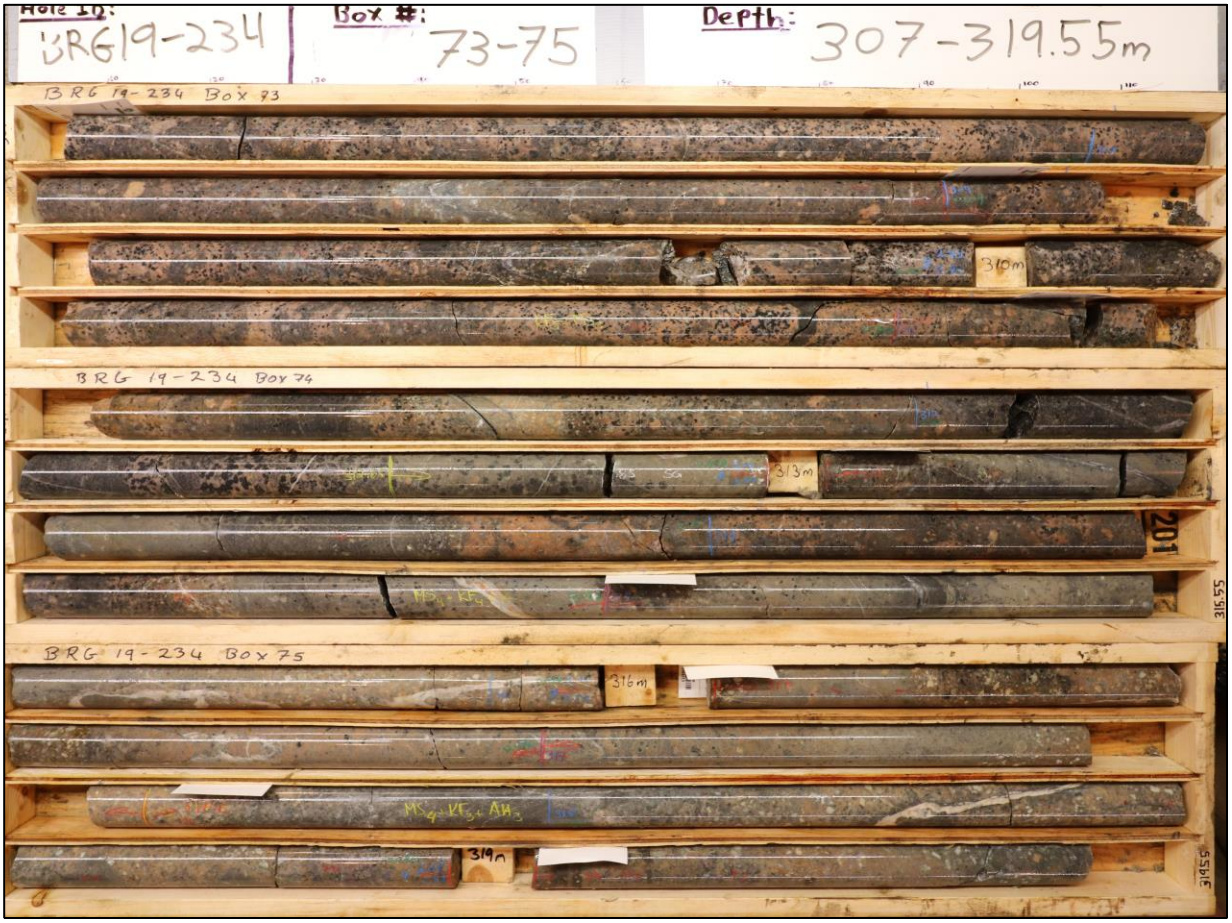

Figure 10. Intense potassic alteration of GRDI (pink and black intervals) with subordinate intervals of intense sericite (tan intervals).

Table 9. Alteration assemblages and minerals present in drill hole BRG19-234.

Assemblage	Mineral code	Mineral	Occurrence	Lithological Association
Potassic	KF	K-Feldspar	Primarily occurs at Bergette as partial to complete replacement of plagioclase. Pervasive flooding destroys primary texture locally	Tonalite and megacrystic granodiorite
	BI	Biotite	Common at Bergette as partial to complete replacement of ferromagnesian minerals. In potassically-flooded zones within granodiorite it forms irregular patches	Tonalite and megacrystic granodiorte
	MT	Magnetite	Prominent as alteration product after secondary biotite	Tonalite
	AH	Anhydrite	Prominent at Bergette in potassically-flooded alteration zones as an accessory or vein	Megacrystic granodiorite and tonalite

			mineral. Most abundant in association with megacrystic granodiorite	
Phyllic	MS	White Micas	Most prominent at A12 where it pervasively overprints both plagioclase and ferromagnesian minerals. At Bergette it Occurs primarily as discrete alteration halos around select quartz-pyrite veins or as intense alteration overprints in GRDI	Quartz diorite, tonalite and granodiorite
Phyllic/Argillic	QZ	Quartz	Present as a widespread alteration at A12 and discrete alteration as vein halos at Bergette	Quartz diorite, tonalite, granodiorite
Sodic/propylitic	AB	Albite	Associated with rare gypsum veins at Bergette, more common at A12	Tonalite, quartz diorite
Argillic	CY	Clay	Common within top 40 m at A12, associated with Au-bearing zones, common as late hairline veinlets at Bergette	Quartz Diorite, tonalite and granodiorite
Argillic	GY	Gypsum	Common late vein type at Bergette, usually have well-developed white-mica halo	Tonalite
Propylitic	CA	Calcite	Very common vein mineral at A12, vein accessory mineral at Bergette and A12, pervasive groundmass mineral at depth in propylitically altered quartz diorite at A12	Quartz diorite, tonalite, and granodiorite

Chalcopyrite (Cp) and molybdenite (Mo) are very weakly positively correlated throughout the hole. Mo is present in abundances up to 1% locally throughout the hole, with Cp first appearing at around 150 m depth. Mo and Cp average approximately 0.1 and 0.5% respectively from 260 m to end-of-hole at 382 m. Pyrite (Py) is present throughout the hole, averaging 4-5% throughout and reaching abundances up to 20% locally. The highest Cu grades in the hole are associated with zones of elevated Py levels.Veining in BRG19-234 shows a general change with depth, moving from medium temperature transitional “T” veins to early high temperature “E” veins. According to the Berg deposit vein paragenetic classification (Panteleyev, 1981), 5 veins recognized at Bergette are also present at the Berg deposit (Table 10). The shallow parts of the drill hole, above 100 m, are dominated by quartz-pyrite±calcite veins. These veins are recognized as Stage 3 “T veins”, likely indicating a transitional period in the thermo-chemical equilibrium of the hydrothermal fluids, from early high temperature veining to late low temperature veins. These Stage 3 veins are generally non-mineralized, containing only rare trace molybdenite and relatively lesser chalcopyrite. Below 100 m depth, the first instances of high temperature “E veins” are observed, most commonly occurring as quartz-molybdenite with subordinate pyrite, chalcopyrite and chlorite. The aforementioned veins have been dubbed “Stage 1B” by the Panteleyev classification and are relatively abundant between 100-300 m, reaching densities of up to 2% locally. Passed 300 m depth Stage 1A veins predominate, with quartz-chalcopyrite ± anhydrite ± molybdenite and subordinate chalcopyrite-pyrite veins becoming prevalent. Stage 1A veins commonly exhibit 5-10 mm halos of alkali feldspar and occasional chlorite selvages. Late calcite-pyrite veins are most common above 150 m depth, however they can be observed crosscutting all early vein types throughout the hole. Late gypsum veins are common above 300 m depth. The vein types responsible for mineralization are early Stage 1A/B veins, often containing 1-2% chalcopyrite and/or molybdenite. Both chalcopyrite and molybdenite are occasionally observed as finely disseminated grains and very rarely as patches 5-10 mm across. Disseminated chalcopyrite is mostly present in trace amounts but can reach abundances up to 4% over narrow (<10 cm) intervals within megacrystic granodiorite (Colombo, 2019). The highest-grade intervals of Cu are associated with pervasive alkali-feldspar-biotite alteration and pyrite levels up to 10%. These intervals host some Cp-bearing quartz veins however it appears that most of the Cu is hosted in disseminated fine-grained chalcopyrite, which is possibly intergrown with pyrite.

Table 10. Vein classification for drill hole BRG19-234

Major Minerals	Minor Minerals	Alteration Envelope	Mineralizing	Occurrence	Berg Vein paragenetic classification (Panteleyev, 1981)
Cp-Py	Qz, Mo, Bi, ± Ah, ±Ca	Kf, Ch	Yes	Bergette	Stage 1A “E vein”
Qz-Mo	Cp, Py, Ch	None	Yes	Bergette	Stage 1B “E vein”
Qz-Kf	Cp, Py, Mo	None	Yes	Bergette	None assigned “E Vein”
Qz-Ca	Py, ± Cp, ± Mo	± Kf, Ch, Wm	Yes	Bergette	Stage 3 “T vein”
Qz-Py	Ch, ± Mt, ± Cp	± Kf, Wm, Ab, Cl	Yes	Bergette	Stage 3 “T vein”
Py	Ca, Qz	Kf, Ch, Wm	No	Bergette	Stage 4 “T/L vein”
Gy	Ca	Cl	No	Bergette	Stage 5 “L vein”

*Qz=Quartz, Kf=potassium feldspar, Ah=anhydrite, Bi=biotite Ch=chlorite, Wm=white mica, Ca=calcite, Cl=clay, Ab=albite, Gy=gypsum, Py=pyrite, Cp=chalcopyrite, Mo=molybdenite

BRG19-234 is moderately structurally competent, with only minor fault zones less than 1.4 m in width present and all within the top 110 m of the hole. Rock Quality Designation is 71% for the hole, placing the designation within the upper end of moderate structural competency.

Assay results (Table 7) are encouraging with the highest single result for each ore element returning 0.49% Cu, 0.15% Mo, and 2.2 g/t Ag. Cu grades above 0.15% begin to occur regularly passed 150 m depth while Mo grades consistently above 200 ppm begin at approximately 250 m depth. GRDI is generally more enriched in Ag and Mo, while average Cu values between the units are similar at around 0.09%. GRDI hosts an average of 250 ppm Mo and 0.55 g/t Ag compared to 45 ppm Mo and 0.4 g/t Ag in TONL. Where GRDI is potassically flooded or overprinted by intense white mica alteration, grades increase to maximums of 0.13% Cu, 350 ppm Mo, and 0.9 g/t Ag. Although GRDI has higher background values of Mo and Ag, TONL is host to the highest-grade Cu and Ag values in the drill hole and appears to be a more sympathetic host to Stage 1 Cu-bearing quartz veins. Therefore, the apparent difference in high grade intervals between TONL and GRDI is likely explained by the higher abundance of Stage 1 veins, most notably in the final 60 m of BRG19-234.

10.2 BRG19-235

BRG19-235 (Figure 13) is the only known drill hole drilled at A12 and was successful in intersecting Au mineralization encountered from surface sampling in previous exploration programs. 5 metres of overburden was drilled before collaring into quartz diorite (QDR), which is present for the entirety of the hole, save for two derivative breccia units. QDR is affected by three distinct alteration assemblages throughout the hole; argillic alteration from 5 to 45 m, phyllic alteration from 45 to 200 m, and propylitic alteration from 200 m to end-of-hole at 358 m. Veining throughout the top 200 m of the drill hole is predominantly comprised of quartz – pyrite ± calcite, while calcite veining dominates the deeper portions of the hole associated with propylitic alteration. Mineralization throughout is scarce, with the highest Au values (<0.25 g/t) corresponding with quartz-pyrite veining contained within the top 40 m. Anomalous veins return Ag, Pb, and Zn values of economic interest but are rare and occur in isolation throughout the hole. Several zones of fault-related gouge and rubble are present in the top 40 m of the hole and a 2 m calcite-healed fault breccia is present at 255 m depth. It is doubtful there is significant offset across this interval.

Quartz diorite (QDR) is the only magmatic lithology encountered in drill hole BRG19-235 at A12. The unit is characterized 70-80% euhedral to subhedral plagioclase, 10-15% interstitial quartz and 5-10% Biotite with 2-3% pyrite. QDR is commonly strongly altered in the top 200 m of the drill hole, with modal mineral abundances only becoming recognizable further downhole. One hydrothermal breccia (BRXH) and one fault breccia (BRXF) were logged due to possible structural importance but are volumetrically insignificant. The QDR unit is interpreted to be the southern extent of the Boundary Stock, which acts as a partial host for mineralization at the Berg deposit (Panteleyev, 1981)

Table 11. Lithologies encountered in drill hole BRG19-235

Litho Code Group	Lithological unit	Lithological Code	Description (Colombo, 2019)	Alteration (Colombo, 2019)	Occurrence
Intrusive Rocks	Quartz Diorite	QDR	Quartz Diorite Primary Minerals: Plagioclase: 60-70% Quartz: 16-18% Biotite: 8-10% Pyrite: 1-2%	Plagioclase has been subjected to intense pervasive alteration by white mica. White mica and pyrite commonly alter mafic minerals. Zones of lesser alteration consists of weak chlorite-epidote	A12: Possible southern extent of Boundary Stock which forms partial host for Berg deposit to the north; alteration strongest near surface at A12
Breccias	Fault breccia	BRXF	Calcite-pyrite cement hosting angular fragments of intensely clay altered quartz diorite	One occurrence in BRG19-235 at A12, possible major fault	A12
	Hydrothermal Breccia	BRXH	Intense and pervasive clay-sericite alteration of quartz diorite fragments, sparse quartz-calcite-pyrite cement	One occurrence in BRG19-235 at A12, spatially associated with 2 m carbonate veinlet stockwork	A12

Alteration assemblages observed in drill hole BRG19-235 at A12 (Table 12) are predominantly phyllic and propylitic with lesser argillic.

Argillic alteration is present at top of hole to 45 m depth within BRG19-235, manifesting as intense, texture destructive clay-silica alteration of probable QDR. Abundant hematite is present, presumably due to the weathering of pyrite. This zone of alteration is host to rare hematized pyrite veins, which may act as the prime carrier for low grade gold present in this alteration assemblage. The abundant clay content of the rock has produced several zones of faulted and gougy rock 1-5 m in diameter.

Phyllic alteration is the dominant alteration from 45 to 200 m depth, manifesting as moderate to intense white mica replacement of plagioclase feldspar, secondary quartz, and secondary pyrite up to 7%. It is difficult to determine the difference in magmatic quartz and quartz from alteration, but the presence of granophyric textures indicate at least some of the quartz present is of magmatic origin (Colombo, 2019).

Propylitic alteration is the dominant alteration from 200 m depth to end-of-hole at 358 m. alteration is generally weak to moderate, with epidote after plagioclase, chlorite after ferromagnesian minerals, and weak disseminated calcite throughout the groundmass.

Table 12. Alteration assemblages and minerals present in drill hole BRG19-235.

Assemblage	Mineral code	Mineral	Occurrence	Lithological Association
Phyllic	MS	White Micas	Most prominent at A12 where it pervasively overprints both plagioclase and ferromagnesian minerals. At Bergette it Occurs primarily as discrete alteration halos around select quartz-pyrite veins or as intense alteration overprints in GRDI	Quartz diorite, tonalite and granodiorite
Phyllic/Argillic	QZ	Quartz	Present as a widespread alteration at A12 and discrete alteration as vein halos at Bergette	Quartz diorite, tonalite, granodiorite
Sodic/propylitic	AB	Albite	Associated with rare gypsum veins at Bergette, more common at A12	Tonalite, quartz diorite
Propylitic	CL	Chlorite	Common at depth at A12	Quartz diorite
Argillic	CY	Clay	Common within top 40 m at A12, associated with Au-bearing zones, common as late hairline veinlets at Bergette	Quartz Diorite, tonalite and granodiorite
Propylitic	CA	Calcite	Very common vein mineral at A12, vein accessory mineral at Bergette and A12, pervasive groundmass mineral at depth in propylitically altered quartz diorite at A12	Quartz diorite, tonalite, and granodiorite
Propylitic	EP	Epidote	Common at depth in quartz diorite at A12, weak to partial replacement of calcic plagioclase	Quartz diorite

Veining in BRG19-235 consists mostly of quartz-pyrite-calcite with alteration halos of chlorite, white mica or clay. This mineralogy is consistent with medium to low temperature, transitional-late vein types, similar to those described for the Berg deposit 6.5 km to the north (Panteleyev, 1981). Subordinate veining is composed of calcite – pyrite ± chlorite and is the dominant vein-type in the deeper portions of the hole.

The dominant vein type from 5 to 200 m is quartz - pyrite-calcite ± white mica, corresponding to transitional Stage 3 veins according to the Berg Vein Classification (Table 11). There is no recognizable cut-off for the relative abundances of quartz, pyrite, and calcite, although it appears that veins composed predominantly of calcite are barren of mineralization. Where argillic alteration is prevalent, pyrite has been hematized and weathered to a rusty, earthy lustre. Although alteration and faulting having obscured much of the primary geology, quartz-pyrite veins are the probable carriers for the highest Au grades returned from BRG19-235, returning up to 0.25 g/t from 5-7 m. Throughout the top 45 m, it is common to get significant upticks in gold grade corresponding to zones of the most intense argillic alteration or clay-gouge fault zones. These zones also correspond to significant values of Ag and Pb, returning 20.8 g/t and 0.11% respectively.

Veins consisting of mainly calcite – pyrite ± chlorite appear to be barren of mineralization and are the dominant vein type from 200 m to end-of-hole at 358 m. These veins also appear to crosscut mineralized

quartz-pyrite-calcite veins. Carbonate breccia vein stockworks up to 2 m wide are present at 293, 309 and 315 m respectively.
Pyrite is the dominant sulphide mineral within the hole, ranging from 0.1% in intensely clay-altered zones to up to 7% in strong quartz-sericite-pyrite (QSP) overprinted intervals. Within the clay-altered zone from 0-45 m, nearly all the pyrite has been oxidized to hematite. An unknown non-magnetic black mineral with metallic lustre is rarely present within quartz-pyrite veins and may be responsible for silver grade within select veins. Petrographic analysis was unable to locate or identify the mineral responsible, although it is possible it is a very fine dusting of sulphosalts causing the vein coloration (Figure 11) and returning the elevated Ag, Pb, and Zn values.

Table 13. Vein classification for drill hole BRG19-235

Major Minerals	Minor Minerals	Alteration Envelope	Mineralizing	Occurrence	Berg Vein paragenetic classification (Panteleyev, 1981)
Qz-Ca	Py	± Ch, Wm	Yes	A12	Stage 3 “T vein”
Qz-Py	Ch	± Wm, Ab, Cl	Yes	A12	Stage 3 “T vein”
Py	Ca, Qz	Ch, Wm	Yes	A12	Stage 4 “T/L vein”
Ca	Gy, Py	Ch, Wm, Hm	No	A12	Stage 5 “L vein”
Ca	Qz, Py	Cl	No	A12	Stage 5 “L vein”

*Qz=quartz, Ch=chlorite, Wm=white mica, Ab=albite, Cl=clay, Hm=hematite, Ca=calcite, Py=pyrite, Gy=gypsum

Structures in the hole are primarily restricted to brittle faults within the top 65 m, with the most developed fault zones in the first 40 m. These faults zones are directly related to zones of intense clay-silica alteration present at the top of the hole. Rare brittle faults less than 1 m in width are present to end-of-hole, but movement across them does not appear to be significant. Loss of water return while drilling around 160 m depth indicates a potential significant zone of faulting; The orientation of this zone is unknown. Although the core from this zone was blocky at worst, care should be taken in future drilling proximal to this horizon in case there is a significant fault zone present.

Assay results from BRG19-235 were moderately encouraging by the fact that anomalous base and precious metal values were confirmed, particularly at the top of the hole. The best single interval in the hole is from 5-7 m, returning 0.25 g/t Au, 20.8 g/t Ag, and 0.11% Pb. Au and Ag enriched zones near surface appear to correlate with intense argillic clay-silica alteration logged in drill core and corroborate Au and Ag values from 2018 soil sampling. The highest Ag value is 28.9 g/t with Pb and Zn enriched to 0.09 and 0.27 % respectively from 340 to 341 m. Ag values throughout the hole commonly return values of greater than 1 g/t, including 51 m from 244 to 295 m returning 1.3 g/t. Au, Ag, Pb, and Zn seem to share a weak to moderate positive correlation and are likely hosted in quartz-pyrite veins.

Figure 11. Quartz-white mica-pyrite vein (~0° TCA) with lesser carbonate being truncated by later carbonate-pyrite chlorite vein (~60° TCA) in phyllic-altered quartz diorite.

11.0 Lithogeochemical Modelling

The 2019 Fathom lithogeochemical modeling results confirmed results the from December 2018 model (Core, 2019). The 2018 Fathom model identified two potential porphyry cores. The updated model confirms the location of the central Bergette target but moved the northern target about 600 m south (Figure 14). Hole BRG19-234 drilled over the central target ended approximately 350 m above the modeled porphyry core. Drilling in this hole confirmed the presence of porphyry system with increasing alteration, veining, and copper mineralization towards the modeled porphyry core.

The 2019 lithogeochemical modeling done over the A12 target utilized surface rock and drill hole samples whereas the 2018 model only used surface soil samples. Results of the new model generated two porphyry targets (Core, 2019, Figure 15). These targets are still poorly constrained due to the lack of rock samples and the limited distribution of sampling. Additional surface rock sampling should be completed over the southern target in order to better constrain its position. The northern target underlies hole BRG19-235 and confirms the position of the target defined in 2018. However, the 2019 model is 560 m deeper than the 2018 model (Figure 15). The southern target was identified in the 2018 model, this may be due to different sampling medium used between the two models. Lithogeochemical modeling using rocks is generally more accurate than soils although soil samples allow for better sampling coverage. This southern target is modeled at approximately 600 m below surface.

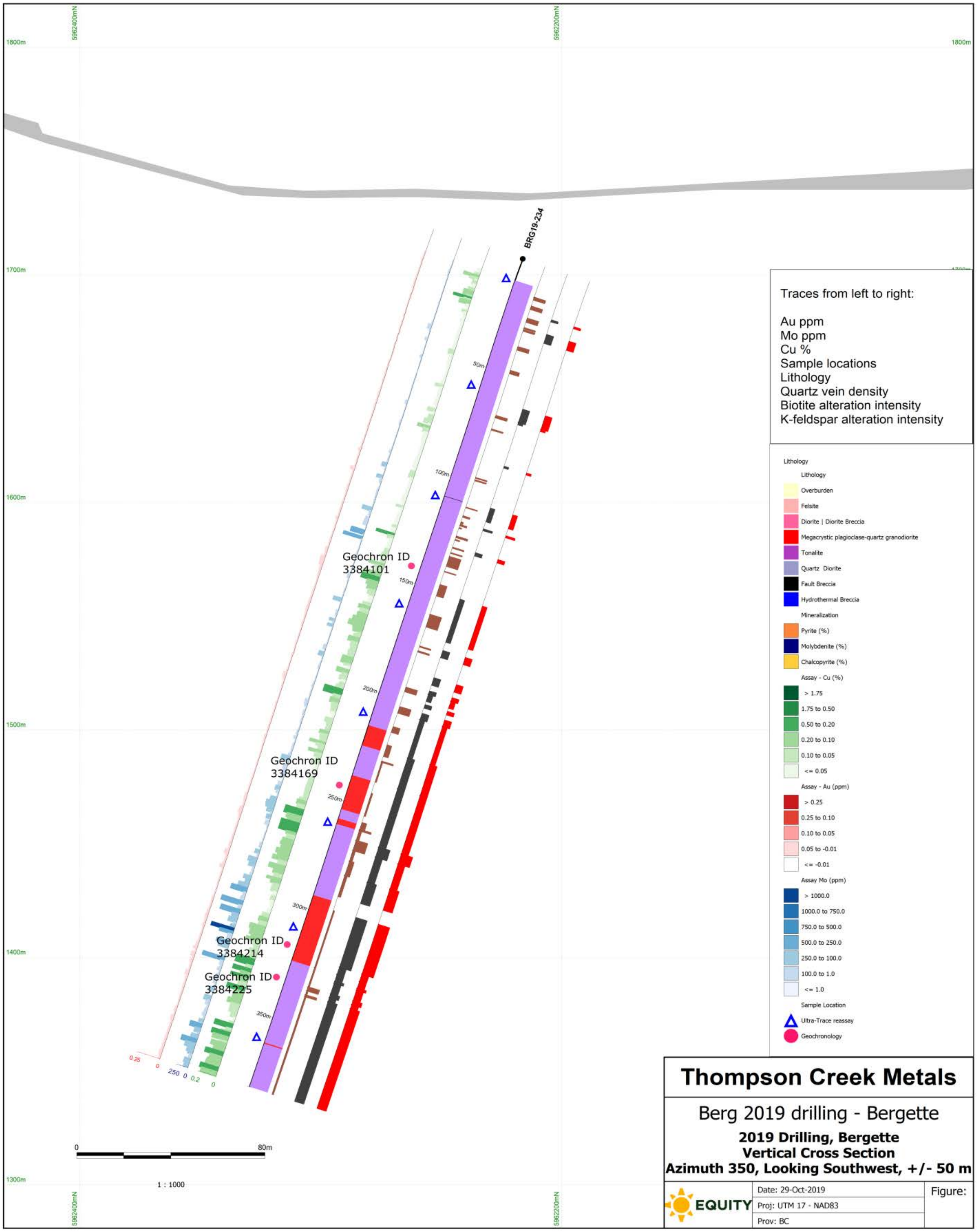

Figure 12. Cross-section of drill hole BRG19-234 looking southwest

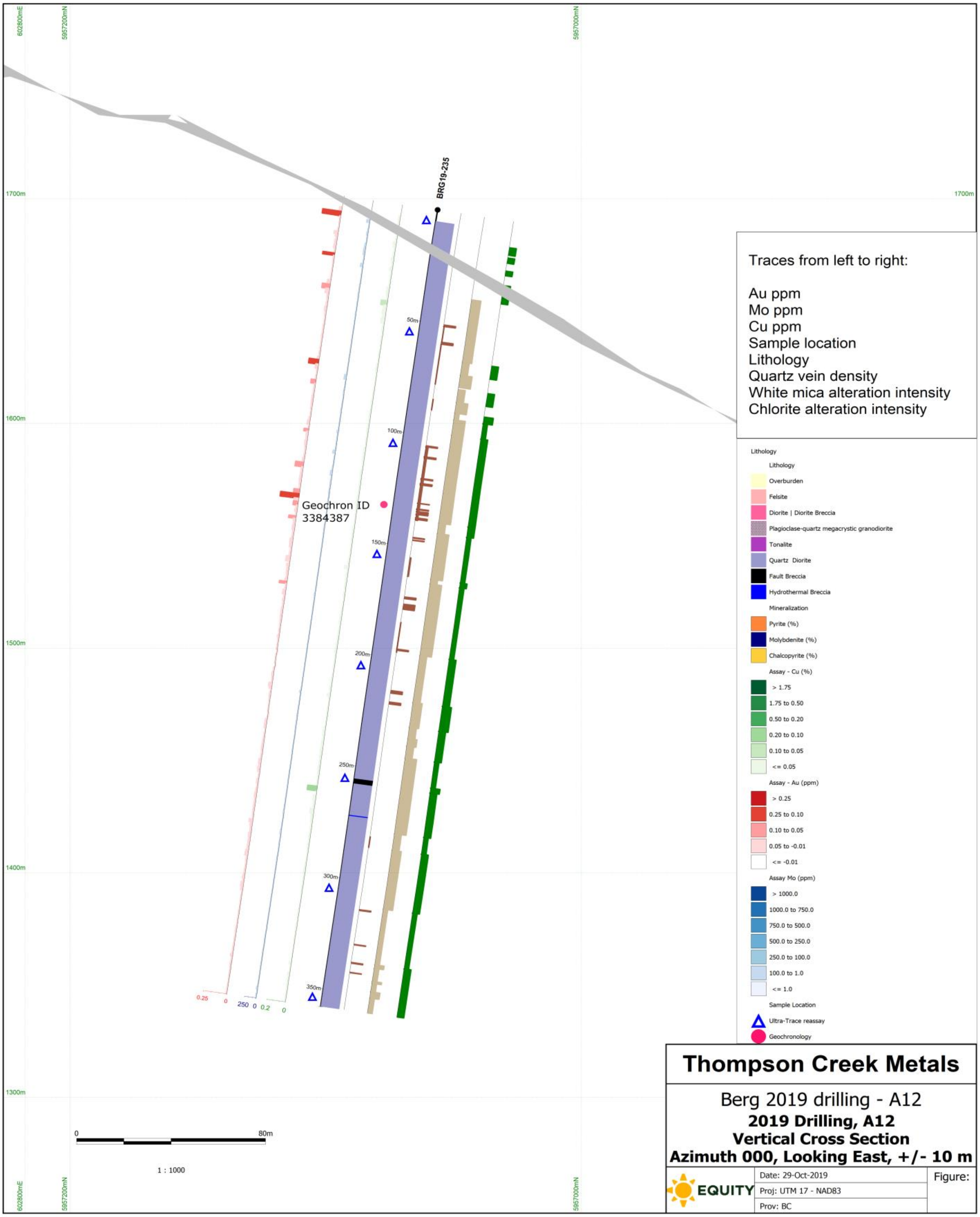

Figure 13. Cross-section of drill hole BRG19-234 looking east

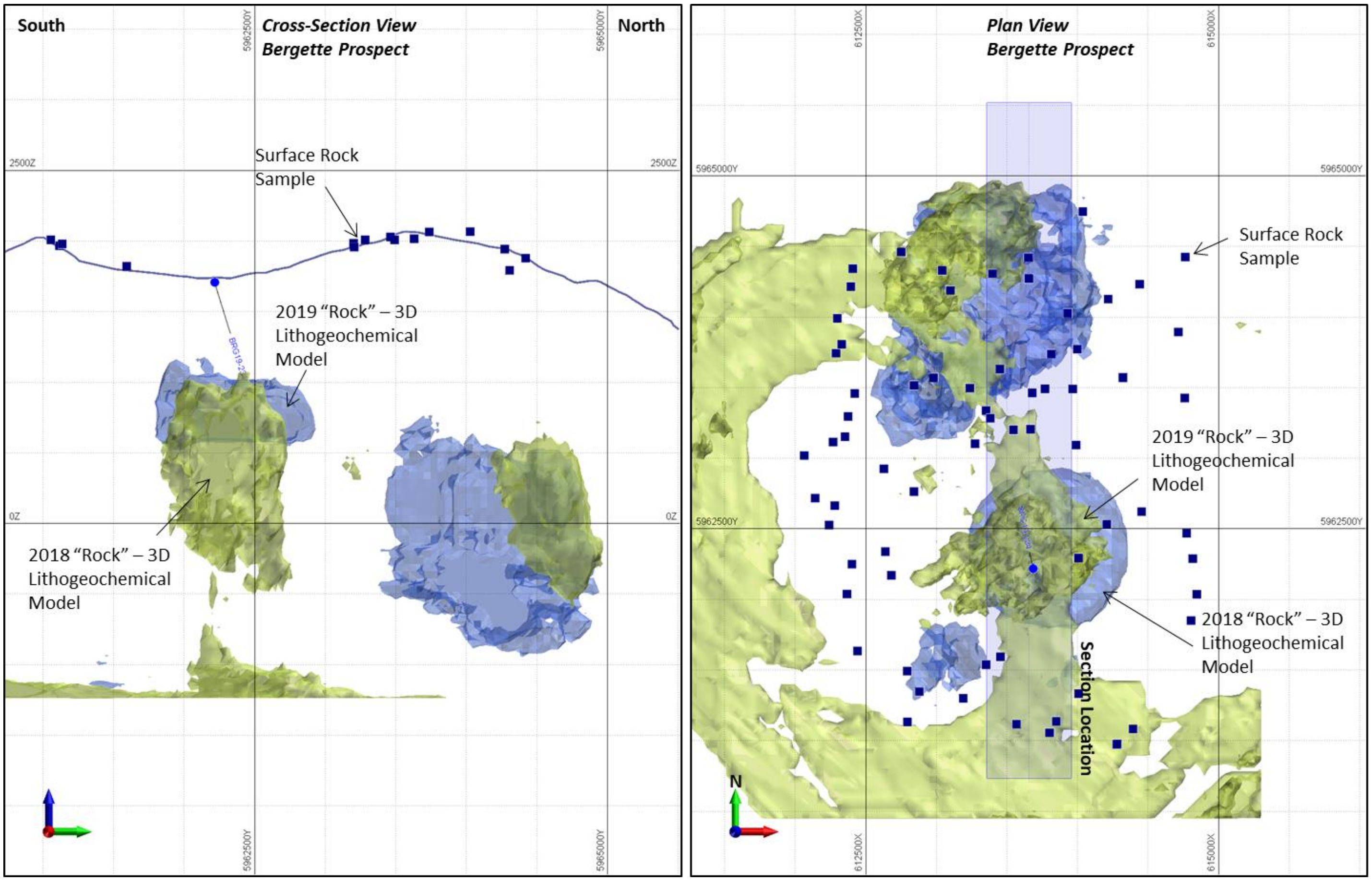

Figure 14. Cross-sectional and plan view of modelled porphyry core at Bergette showing 2018 (olive green) and 2019 (Blue) interpretations

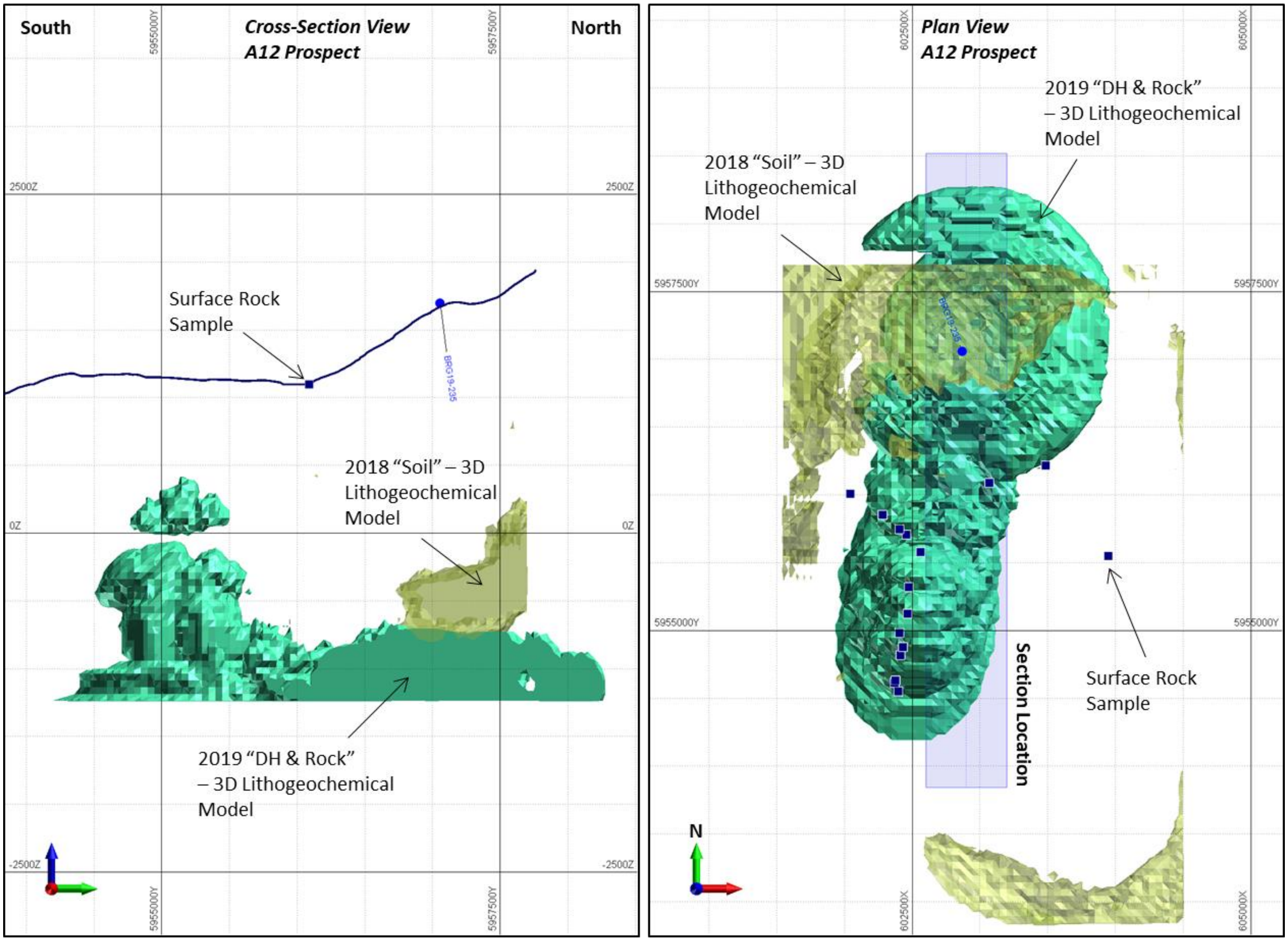

Figure 15. Cross-sectional and plan view of modelled porphyry core at A12 showing 2018 (olive green) and 2019 (teal) interpretations.

12.0 Geochronology

Five intrusive rock samples were selected from 2019 drilling; four from the Bergette target area and one from the A12 target area. The samples were sent to the Mineral Deposit Research Unit at the University of British Columbia (MDRU-UBC) for U-Pb age dating via LA-ICP-MS. Historic and 2019 age dates are summarized in Table 14.

The four age dates produced in 2019 from variably altered and mineralized intrusive rocks at the Bergette target indicates that the intrusions are of the same age as Sibola Stock (Figure 16, Table 14). Cross-cutting relationships from drill hole BRG19-234 suggest the megacrystic unit is younger than the tonalite unit. This was confirmed by the radiometric age dates, sample 3384169 from the megacrystic granodiorite is dated at 78.61±0.67 Ma and sample 3384101 a weakly altered tonalite is dated at 79.63±0.61 Ma.

The age date acquired from altered quartz diorite at the A12 target produced an age date of 53.2±1.3 Ma. This date is within the lower limit of the Boundary Stock, an elongate intrusive body that hosts a portion of the Berg deposit 6.5 km north of A12 (Figure 16). Mineralization at the Berg deposit is host by a 49±2.4 Ma, part of the Nanika plutonic suite, and the Boundary stock.

Table 14. Reported age dates from the A12 and Bergette target areas

Name	RockType	Mineral	Method	Age (Ma)	Error (±Ma)	Note
Boundary Stock (upper)	Diorite			47		
Boundary Stock (lower)	Diorite			52		
Nanika Plutonic Suite		Biotite	K-Ar	49	2.4	Panteleyev, 1976
A12 (Smp. 3384387)	Altered Diorite	Zircon	U-Pb	53.2	1.3	2019 Geochronology
Sibola Stock			U-Pb	77.8	0.5	Breitsprecher and Mortensen, 2004
Sibola Stock			U-Pb	78.9	0.2	Breitsprecher and Mortensen, 2004
Sibola Stock		Biotite	K-Ar	81.3	5.4	Breitsprecher and Mortensen, 2004
Bergette (Smp. 3384225)	K-feldspar-altered diorite	Zircon	U-Pb	78.53	0.82	2019 Geochronology
Bergette (Smp. 3384169)	Granodiorite	Zircon	U-Pb	78.61	0.67	2019 Geochronology
Bergette (Smp. 3384101)	Tonalite	Zircon	U-Pb	79.63	0.61	2019 Geochronology
Bergette (Smp. 3384214)	Altered Granitoid	Zircon	U-Pb	79.79	0.44	2019 Geochronology

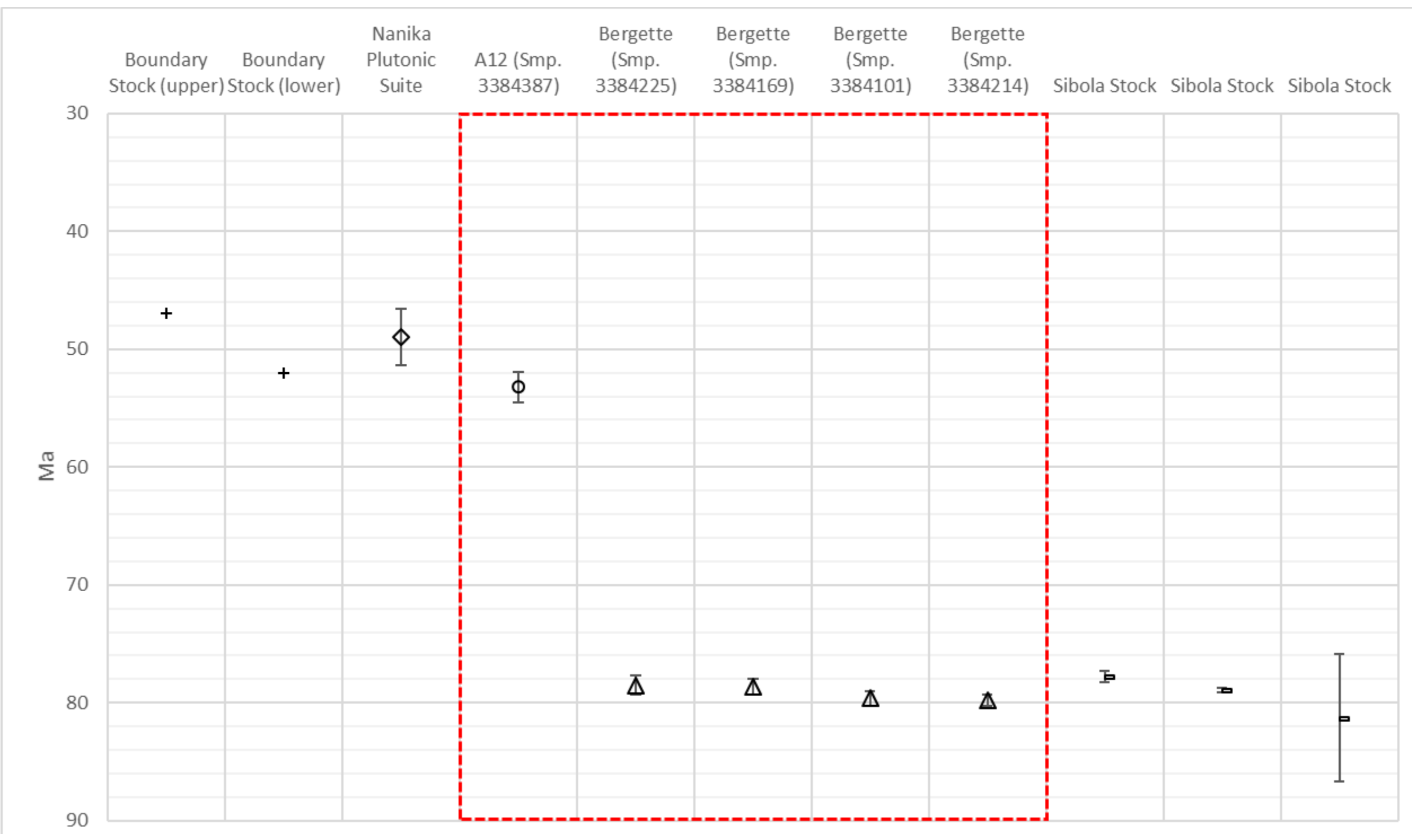

Figure 16. Age dates with analytical errors from drilling in the Bergette and A12 target areas shown relative to previous geochronology age dates

13.0 DISCUSSION AND CONCLUSIONS

Results from the 2019 drilling program corroborate significant results from recent surficial work at A12 as well as surficial work and historic drilling at Bergette. Although the Bergette drill hole was shut down in improving mineralization and the results from the A12 drill hole returned only modest Au values, several positives can be taken away from the drill program

Bergette

- Intense zones of high temperature potassic alteration in a felsic megacrystic porphyry and evidence of a phased intrusive body
- Moderate Cu-Mo-Ag grades with the best composite assay result in the final 10 m of the hole.
- The mineralization is spatially associated with an increase in the density of quartz veins at depth.
- BRG19-234 shut down approximately 400 vertical metres above the 2018 modelled porphyry core.

A12

- Intense clay-silica alteration at surface coincides with elevated Au-Ag±Pb±Zn grades at surface and at depth
- Anomalous Au-Ag values at depth appear to be hosted within quartz-pyrite-calcite veins with intense white mica halos hosted within intensely QSP-altered quartz diorite
- The breadth of the surface geochemical anomaly is not adequately explained by the drill hole considering the fact the 2018 soil grid did not close off the anomaly

13.1 Bergette

BRG19-234 successfully intersects high temperature porphyry-style veining, alteration and mineralization, with all three of these features increasing in intensity with depth. The megacrystic granodiorite intersected in BRG19-234 does not appear to have been previously described in historic drilling. The approximately 25 m zone of intense alkali-feldspar flooding and “dalamatian”-style biotite clots with patchy anhydrite and pervasive overprinting sericite are indicative of a complex and hydrothermally active zone. It is unclear if the flooded zone is just the intensely altered version of “fresh” GRDI or if it is a separate phase of the intrusion. It is also unclear if GRDI represents a mineralizing intrusion within the Bergette system. Tonalite, which is likely the modern equivalent of historically logged monzodiorite and/or quartz monzodiorite, is overall the more mineralized lithology in BRG19-234. Disseminated and veined chalcopyrite becomes relatively abundant at depths greater than 145 m, with assays returning 0.11% Cu from 145 m to end-of-hole at 382 m. This includes 0.15% from 258 to 382 m and 0.19% from 328 to 382 m. The increase in Cu values combined with increased vein density and intensity of high temperature alteration with depth indicates the presence of a mineralized porphyry at Bergette. This fact also validates, to a moderate degree, the lithogeochemical model produced from 2018 geochemical sampling, which predicts the presence of porphyry core 400 m below where BRG19-234 shut down.

The tight clustering of all four age dates taken at Bergette indicates they are pat of the Sibola Stock intrusive system (Table 14). Comparison between the age dates of weakly altered tonalite and unaltered megacrystic granodiorite indicate that the tonalite unit is the older intrusive body. This is corroborated further by contact relationships in drill core. The mineralogical and textural difference between the two units suggests the Sibola Stock could be a multi-phase system stemming from a common parental magma chamber. Additionally, the megacrystic texture of the granodiorite intrusion suggests a probable deep magmatic source. At present, it appears that the megacrystic granodiorite is a syn-mineral intrusion.

The new lithogeochemical model incorporating 2019 drill data at Bergette has moved the northern target to the south, whereas the central target has stayed virtually the same. The central target, which was only produced when SWIR data was used in 2018, has now been verified by 2019 drill hole data. The depth below surface of the target remained the same with the new data, with drill hole BRG19-234 shutting down 350 m from the top of the target.

13.2 A12

BRG19-235 intersected Au-Ag±Pb±Zn mineralization throughout the drill hole. Au grades were generally low but anomalous, with the highest returning 0.25 g/t near surface from 5 to 7 m depth. Ag grades in BRG19-235 were also anomalous, often occurring as broad zones consistently over 1 g/t, including 60 m of 1.3 g/t from 234 to 294 m. The highest-grade Ag assay are 28.9 g/t and 20.8 g/t, with the latter occurring with the highest-grade gold assay, from 5-7 m.

Mineralization throughout the hole appears to be hosted within quartz-pyrite-calcite veins which are hosted in zones of intense pervasive QSP or argillic alteration. It may be that there is a causal relationship between the veins and the alteration zones. The veins often have a dusty black colour to them which could be very fine-grained silver-based sulphosalts. Petrographic examination of the veins yielded inconclusive results.

It does not appear that the breadth of the geochemical anomaly at surface has been adequately explained by the drill hole. Most notably, the surface geology of the area proximal to the BRG19-235 collar location is complex, with several different lithologies mapped within 100 m. These included intrusive, volcanic and sedimentary rocks, as well as hydrothermal breccias. The abundance of different lithologies is interesting given the fact that BRG19-235 is composed of quartz diorite for the entirety of the hole. Considering the fact that the most intense Cu mineralization in the Berg deposit occurs within biotite-hornfelsed andesite proximal to the Berg Stock contact (Panteleyev, 1981), the sub-surface expression of the contact between quartz diorite and the mapped Andesite to the north is of major interest.

Geochronology done on a sample of altered quartz diorite at the A12 target area gives an age of 53.2±1.3 Ma. This is the same age the Boundary Stock which dominates the local area to the north and acts as one of the host rocks for the Berg deposit 6.5 km to the north. Mapping done in the area has identified the boundary stock to extend south to the A12 area and this age date now corroborates this.

Updated lithogeochemical modelling at A12 has now produced a new target to the south of BRG19-23. The northern target, which BRG19-235 drilled directly above, has now been modelled to occur at a depth of 2340 m below surface. The new southern target is modelled at 590 m below surface, although the uncertainty in this position is enough to warrant further surface sampling and mapping before drilling. Alteration and mineralization in BRG19-235 agree with a porphyry below surface to the north. Alteration is predominantly quartz-sericite-pyrite with calcite and anomalous Ag-Pb-Zn. Alteration was most intense in the top 250 m of the drill hole, moving from intense clay to intense quartz-sericite-pyrite, eventually ending in weak propylitic.

14.0 RECOMMENDATIONS

Based on the discussion presented above, the program below is proposed as follow-up work to further develop the Bergette and A12 targets.

An induced polarization survey designed to investigate below 300 m should be conducted over the Bergette target area prior to further drilling. It is strongly recommended that the Bergette target be followed up with further drilling. If drilling were to be undertaken, one vertical and very deep (1000 m) and several deep (600 m) vertical diamond holes are proposed east of the historic drill holes at Bergette porphyry to test the newly modelled porphyry intrusion core and associated alteration at depth. Assays should be carried out on all drill core using a full-elemental suite to allow for further geochemical evaluation of the system. With the additional geochemical date, the porphyry lithogeochemical modelling can be re-run to better vector towards a porphyry core, should the initial drilling prove unsuccessful.

At A12, further soil sampling and mapping is recommended to further delineate the current soil anomaly towards the north and south. The potential for a preserved porphyry system proximal to the northern target warrants further surface exploration. Additionally, several E-W oriented IP lines to the north of the current anomaly are recommended to better define a drill target. Due to the short seasonal window at the Berg Property, drilling at Bergette should be conducted while the proposed mapping, soil sampling and IP work is being carried out to allow for refinement of a drill target at A12. Furthermore, preliminary geochemical screening of the soil samples in the field using a field portable XRF. All rock samples and drilling should be analysed with for alteration minerals by shortwave infrared analysis (e.g. Terraspec).

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Respectfully submitted,

Steven R. Bultitude, B.Sc.

Respectfully submitted,

Daniel K. Lui, M.Sc.

EQUITY EXPLORATION CONSULTANTS LTD.
Vancouver, British Columbia
December 17, 2019

Centerra Gold Inc.

2019 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE BERG PROPERTY

Located in:
Tahtsa Range, central British Columbia
Omineca Mining Division
NTS Mapsheets 093E/14, 093E/13, 093E/11, 093E/12

Centred at:
53˚ 48’ N Latitude; 127˚ 26' W Longitude

-prepared for-

Thompson Creek Metals Company Inc.
A Division of Centerra Gold Inc.
Suite 1500, 1 University Avenue
Toronto, ON M5J 2P1, Canada

-prepared by-

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Vancouver, BC V6C 1S4, Canada

December 17, 2019

EQUITY

Appendix A: Bibliography

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Appendix B: Statement of Expenditures

STATEMENT OF EXPENDITURES
Berg Project
March 2019 to January 2020

PROFESSIONAL FEES AND WAGES:				
Project Geologist				
	61.61 days @ $750/day	$ 46,207.50		
Geologist				
	16.28 days @ $600/day	9,768.00		
Project Manager				
	7.77 days @ $625/day	4,856.25		
First Aid Attendant				
	20.44 days @ $450/day	9,200.00		
Exploration Assistant				
	23.00 days @ $400/day	9,200.00		
GIS				
	17.50 hours @ $75/hour	1,312.50	$	80,544.25
EQUIPMENT RENTALS:				
Core Saw (Gas)				
	14.00 days @ $60/day	$ 840.00		
Field Computer				
	46.00 days @ $40/day	1,840.00		
Micromine				
	10.00 hours @ $50/hour	500.00		
Magnetic Susceptibility Meter				
	11.00 days @ $15/day	165.00		3,345.00
ASSAYING AND GEOCHEMICAL:				
Chemical Analyses				21,490.04
EXPENSES:				
Materials and Supplies		$ 6,405.14		
Plot Charges		522.31		
Camp Food		21,021.31		
Meals		1,101.50		
Accommodation		17,969.02		
Taxis and Airporters		252.86		
Truck Rental (Non-Equity)		4,170.55		
Automotive Fuel		5,352.90		
Helicopter Charters		123,908.82		
Busfare		33.33		
Airfare		6,089.75		
Courier		152.86		
Freight		3,895.47		
Geophysical Consulting		3,171.84		
Blasting, Linecutting, Padbuilding		24,006.00		
Satellite Phone Rental (Non-Equity)		571.96		
Radio Rental (Non-Equity)		1,286.00		

	Other Equipment Rental (Non-Equity)	533.36	
	Drilling: Mob/Demob	5,600.00	
	Drilling: Footage	103,547.25	
	Drilling: Materials	2,807.40	
	Drilling: Coreboxes	3,311.00	
	Petrography	3,025.00	
	Expediting	1,835.70	340,571.33
SUB-TOTAL:			$ 445,950.62
PROJECT SUPERVISION CHARGES:			35,676.05
PST:			613.71
TOTAL:			**$ 482,240.38**

			Tue	Wed	Thu	Fri	Wed	Mon	Tue	Wed	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Wed	Thu	Fri	Mon	Wed	Thu	Fri	Thu	Fri	Mon	Thu	Mon	Wed	Thu	Fri
			26-Mar	27-Mar	28-Mar	29-Mar	03-Apr	15-Apr	16-Apr	17-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	29-Apr	30-Apr	01-May	02-May	03-May	13-May	14-May	15-May	16-May	29-May	30-May	31-May	03-Jun	05-Jun	06-Jun	07-Jun	13-Jun	14-Jun	17-Jun	20-Jun	24-Jun	26-Jun	27-Jun	28-Jun
Field Personnel (days)																																							
Daniel Lui	Senior Project Geologist	3.00																																					
Oscar Nielsen	Project Geologist	8.50																																					
Murray Jones	P. Geo	2.00										1.00	1.00																										
Steve Bultitude	Project Geologist	16.00																																					
Steve Bultitude	Geologist	7.50																																					
Matthew Brickenden	First Aid Attendant	23.00																																					
Jake Lucyshyn	Exploration Assistant	23.00																																					
Total		83.00																																					
Office Support Staff (hours)																																							
Bahram Bahrami	GIS Geologist	0.00																																					
Eleanor Black	Senior Geologist	2.50					1.50					1.00																											
Scott Parker	GIS/Logistics	14.00																																					
Total		16.50																																					
Office Support Staff (days)																																							
Dan Lui	Senior Project Geologist	2.06						0.06		0.06																													
Oscar Nielsen	Project Geologist	4.63																	0.13		0.13																0.25	0.25	
Murray Jones	P. Geo	0.25									0.25																												
Matthias Lindhuber	Project Geologist	2.50			0.13	0.13									0.50	0.13	0.50			0.13								1.00											
Dave Nuttall	Project Geologist	0.88																																					
Steve Bultitude	Project Geologist	18.01																																					
Thomas Branson	Project Geologist	0.38																			0.13	0.13																	
Brian Hegarty	Senior Project Manager	0.13																																					
Kate Snelling	Project Manager	7.63																			0.13			0.13	0.25	0.13	0.13		0.25	0.13	0.13	0.25	0.13	0.13	0.13		0.13		0.13
Ron Voordouw	Director Geoscience	0.00																																					
Charles Louvet	Geologist	1.63																																					
Steve Bultitude	Geologist	3.88																																					
John Bligh	Geologist	2.00																																		0.25			
Total		43.94																																					

			Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Thu	Mon	Tue
			01-Jul	02-Jul	03-Jul	04-Jul	05-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	01-Aug	02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug	09-Aug	12-Aug	13-Aug	15-Aug	19-Aug	20-Aug
Field Personnel (days)																																											
Daniel Lui	Senior Project Geologist	3.00																														1.00	1.00	1.00									
Oscar Nielsen	Project Geologist	8.50											1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.50																						
Murray Jones	P. Geo	2.00																																									
Steve Bultitude	Project Geologist	16.00																			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00							
Steve Bultitude	Geologist	7.50											0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00																							
Matthew Brickenden	First Aid Attendant	23.00											1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00								
Jake Lucyshyn	Exploration Assistant	23.00											1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00								
Total		83.00																																									
Office Support Staff (hours)																																											
Bahram Bahrami	GIS Geologist	0.00																																									
Eleanor Black	Senior Geologist	2.50																																									
Scott Parker	GIS/Logistics	14.00						4.00	4.00	4.00																												2.00					
Total		16.50																																									
Office Support Staff (days)																																											
Dan Lui	Senior Project Geologist	2.06																											0.25							0.06							
Oscar Nielsen	Project Geologist	4.63		0.50	0.63	0.25	0.38	0.50		0.63	0.75	0.25																															
Murray Jones	P. Geo	0.25																																									
Matthias Lindhuber	Project Geologist	2.50																																									
Dave Nuttall	Project Geologist	0.88																																									
Steve Bultitude	Project Geologist	18.01																																					1.00	0.50		0.50	0.75
Thomas Branson	Project Geologist	0.38																									0.13																
Brian Hegarty	Senior Project Manager	0.13																											0.13														
Kate Snelling	Project Manager	7.63			0.38	0.25		0.13	0.13	0.13	0.13	0.13	0.25	0.25	0.13	0.13	0.38					0.25	0.13	0.25		0.13	0.38	0.13	0.25	0.13			0.13				0.25						
Ron Voordouw	Director Geoscience	0.00																																									
Charles Louvet	Geologist	1.63																																									
Steve Bultitude	Geologist	3.88	0.75	0.63	0.50			0.50		0.50	0.63	0.38																															
John Bligh	Geologist	2.00																											0.13	0.25					0.13						0.13		
Total		43.94																																									

			Wed	Thu	Mon	Tue	Wed	Fri	Tue	Wed	Fri	Wed	Fri	Fri	Sun	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Tue	Wed	Mon	Tue	Wed	Thu	Fri	Mon	Tue
			21-Aug	22-Aug	26-Aug	27-Aug	28-Aug	30-Aug	03-Sep	04-Sep	06-Sep	18-Sep	20-Sep	27-Sep	29-Sep	30-Sep	01-Oct	02-Oct	03-Oct	04-Oct	07-Oct	08-Oct	15-Oct	16-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	28-Oct	29-Oct
Field Personnel (days)																															
Daniel Lui	Senior Project Geologist	3.00																													
Oscar Nielsen	Project Geologist	8.50																													
Murray Jones	P. Geo	2.00																													
Steve Bultitude	Project Geologist	16.00																													
Steve Bultitude	Geologist	7.50																													
Matthew Brickenden	First Aid Attendant	23.00																													
Jake Lucyshyn	Exploration Assistant	23.00																													
Total		83.00																													
Office Support Staff (hours)																															
Bahram Bahrami	GIS Geologist	0.00																													
Eleanor Black	Senior Geologist	2.50																													
Scott Parker	GIS/Logistics	14.00																													
Total		16.50																													
Office Support Staff (days)																															
Dan Lui	Senior Project Geologist	2.06																0.06							0.38	0.06				0.06	0.06
Oscar Nielsen	Project Geologist	4.63																													
Murray Jones	P. Geo	0.25																													
Matthias Lindhuber	Project Geologist	2.50																													
Dave Nuttall	Project Geologist	0.88																													
Steve Bultitude	Project Geologist	18.01	0.50	0.25	0.25	0.50	0.50	0.25	0.25	0.13	0.38					0.75	0.75	0.75	0.75	0.75	0.63	0.63			0.75	0.63		0.75	0.25		0.50
Thomas Branson	Project Geologist	0.38																													
Brian Hegarty	Senior Project Manager	0.13																													
Kate Snelling	Project Manager	7.63										0.13	0.25	0.25	0.13	0.13							0.25								
Ron Voordouw	Director Geoscience	0.00																													
Charles Louvet	Geologist	1.63																	0.25	0.38	0.38	0.25		0.25			0.13				
Steve Bultitude	Geologist	3.88																													
John Bligh	Geologist	2.00								0.25	0.25																0.13				
Total		43.94																													

Appendix C: Claim Data

From MtOnline
December 03, 2019

Title Number	Claim Name	Owner	Title Type	Title Sub Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
243481		283374 (100%)	Mineral	Lease	093E083	1968/AUG/27	2020/AUG/27	GOOD	16.8
515447		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	191.0
515449		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	191.0
515450		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	572.7
515451		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	553.6
515453		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	477.4
515454		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	496.5
515455		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	229.3
515456		283374 (100%)	Mineral	Claim	093E	2005/JUN/28	2022/OCT/15	GOOD	343.9
545074	SOUTH 1	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	287.1
545075	SOUTH 2	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	363.5
545076	SOUTH 3	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	401.6
545077	SOUTH 4	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	401.6
545078	SOUTH 5	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	401.6
545079	SOUTH 6	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	401.8
545080	SOUTH 7	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	344.4
545081	SOUTH 8	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	459.1
545082	SOUTH 9	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	459.3
545083	SOUTH 10	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	325.4
545084	SOUTH 11	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	363.7
545085	SOUTH 12	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	229.6
545086	SOUTH 13	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2024/NOV/30	GOOD	306.2
545087	SOUTH 14	283374 (100%)	Mineral	Claim	093E	2006/NOV/10	2025/NOV/30	GOOD	401.9
594483	BERG C	283374 (100%)	Mineral	Claim	093E	2008/NOV/18	2022/NOV/30	GOOD	477.8
594485	BERG D	283374 (100%)	Mineral	Claim	093E	2008/NOV/18	2022/NOV/30	GOOD	478.0
594490	BERG A	283374 (100%)	Mineral	Claim	093E	2008/NOV/18	2022/NOV/30	GOOD	477.8
594495	BERG I	283374 (100%)	Mineral	Claim	093E	2008/NOV/18	2022/NOV/30	GOOD	458.0
604970		283374 (100%)	Mineral	Claim	093E	2009/MAY/26	2022/NOV/30	GOOD	478.1
604976		283374 (100%)	Mineral	Claim	093E	2009/MAY/26	2022/NOV/30	GOOD	191.3
604978		283374 (100%)	Mineral	Claim	093E	2009/MAY/26	2022/NOV/30	GOOD	478.2
671443		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	477.4
671444		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	458.1
671450		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	477.1
671451		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	477.1
671463		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	381.6
671467		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	228.9
671472		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	114.6
671473		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	229.1
671484		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	248.3
671503		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	477.6
671523		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	95.5
671526		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	191.0
671527		283374 (100%)	Mineral	Claim	093E	2009/NOV/19	2025/NOV/30	GOOD	381.9
672023		283374 (100%)	Mineral	Claim	093E	2009/NOV/20	2025/NOV/30	GOOD	305.6
673446		283374 (100%)	Mineral	Claim	093E	2009/NOV/24	2021/NOV/30	GOOD	381.7
673465		283374 (100%)	Mineral	Claim	093E	2009/NOV/24	2021/NOV/30	GOOD	190.9
673485		283374 (100%)	Mineral	Claim	093E	2009/NOV/24	2021/NOV/30	GOOD	95.5
673503		283374 (100%)	Mineral	Claim	093E	2009/NOV/24	2021/NOV/30	GOOD	343.8
673523		283374 (100%)	Mineral	Claim	093E	2009/NOV/24	2021/NOV/30	GOOD	95.4
693843		283374 (100%)	Mineral	Claim	093E	2010/JAN/04	2022/NOV/30	GOOD	457.5
693844		283374 (100%)	Mineral	Claim	093E	2010/JAN/04	2022/NOV/30	GOOD	476.8
693883		283374 (100%)	Mineral	Claim	093E	2010/JAN/04	2022/NOV/30	GOOD	457.5
693884		283374 (100%)	Mineral	Claim	093E	2010/JAN/04	2022/NOV/30	GOOD	457.5
693903		283374 (100%)	Mineral	Claim	093E	2010/JAN/04	2022/NOV/30	GOOD	457.5
693904		283374 (100%)	Mineral	Claim	093E	2010/JAN/04	2022/NOV/30	GOOD	438.6
888229	SOUTH 15	283374 (100%)	Mineral	Claim	093E	2011/AUG/11	2022/NOV/30	GOOD	95.7
896481	BERGW2	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2020/NOV/30	GOOD	477.9
896487	BERGW8	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	477.9
896488	BERG W11	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	477.7
896489	BERGW10	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	478.1
896491	BERGW6	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	478.1
896492	BERG W15	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	458.4
896493		283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	477.9

From MtOnline
December 03, 2019

Title Number	Claim Name	Owner	Title Type	Title Sub Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
896494	BERG W15	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	458.6
896495	BERG W17	283374 (100%)	Mineral	Claim	093E	2011/SEP/11	2021/NOV/30	GOOD	458.7
898001	BERG EXT 1	283374 (100%)	Mineral	Claim	093E	2011/SEP/19	2021/NOV/30	GOOD	478.0
898002	BERG EXT 2	283374 (100%)	Mineral	Claim	093E	2011/SEP/19	2021/NOV/30	GOOD	458.6
898003	BERG EXT 3	283374 (100%)	Mineral	Claim	093E	2011/SEP/19	2021/NOV/30	GOOD	478.0
898009	BERG EXT 4	283374 (100%)	Mineral	Claim	093E	2011/SEP/19	2021/NOV/30	GOOD	458.7
898010	BERG EXT 5	283374 (100%)	Mineral	Claim	093E	2011/SEP/19	2021/NOV/30	GOOD	477.8
898011	BERG EXT 6	283374 (100%)	Mineral	Claim	093E	2011/SEP/19	2021/NOV/30	GOOD	477.8
905571	BERG N1	283374 (100%)	Mineral	Claim	093E	2011/OCT/06	2022/NOV/30	GOOD	457.8
905578	BERG N6	283374 (100%)	Mineral	Claim	093E	2011/OCT/06	2022/NOV/30	GOOD	476.8
905581	BERG N7	283374 (100%)	Mineral	Claim	093E	2011/OCT/06	2022/NOV/30	GOOD	476.6
910289	BERG W21	283374 (100%)	Mineral	Claim	093E	2011/OCT/12	2022/NOV/30	GOOD	95.4
926662	BERG NW1	283374 (100%)	Mineral	Claim	093E	2011/OCT/31	2022/NOV/30	GOOD	458.2
926664	BERG NW2	283374 (100%)	Mineral	Claim	093E	2011/OCT/31	2022/NOV/30	GOOD	477.1
926666	BERG NW4	283374 (100%)	Mineral	Claim	093E	2011/OCT/31	2022/NOV/30	GOOD	476.9
926667	BERG NW7	283374 (100%)	Mineral	Claim	093E	2011/OCT/31	2021/NOV/30	GOOD	458.1
926669	BERG NW6	283374 (100%)	Mineral	Claim	093E	2011/OCT/31	2021/NOV/30	GOOD	286.0
926671	BERG NW8	283374 (100%)	Mineral	Claim	093E	2011/OCT/31	2021/NOV/30	GOOD	476.9
926673	BERG NW10	283374 (100%)	Mineral	Claim	093E	2011/OCT/31	2021/NOV/30	GOOD	457.7
930909	BERG NE1	283374 (100%)	Mineral	Claim	093E	2011/NOV/24	2022/NOV/30	GOOD	400.5
1000685	BERGETTE 1	283374 (100%)	Mineral	Claim	093E	2012/JUN/24	2021/NOV/30	GOOD	19.1
1011438	BERG NE2	283374 (100%)	Mineral	Claim	093E	2012/JUL/24	2021/NOV/30	GOOD	419.7
1014803	BERGETTE 2	283374 (100%)	Mineral	Claim	093E	2012/NOV/26	2021/NOV/30	GOOD	477.4
1015521	BERG NE3	283374 (100%)	Mineral	Claim	093E	2012/DEC/27	2021/NOV/30	GOOD	286.1
1015818	BERG N11	283374 (100%)	Mineral	Claim	093E	2013/JAN/08	2021/NOV/30	GOOD	381.5
1017031	SOUTH 16	283374 (100%)	Mineral	Claim	093E	2013/FEB/19	2021/NOV/30	GOOD	19.1
1030076	BERG NE4	283374 (100%)	Mineral	Claim	093E	2014/AUG/06	2021/NOV/30	GOOD	1,278.7
1031370	SOUTH 17	283374 (100%)	Mineral	Claim	093E	2014/OCT/04	2021/NOV/30	GOOD	76.5
1070454		283374 (100%)	Mineral	Claim	093E	2019/AUG/18	2020/AUG/18	GOOD	19.1

34,798.2 hectares

347,981,899.0 sq m
348.0 sq km

Appendix D: Rock Sample Descriptions

Sample ID	Area	Sampler	UTM Easting	UTM Northing	UTM Zone	Elevation m	Outcrop Type	Sample Type	Sample Typ 2	Lith Code	Comments
SB19-G01	A12	Steve Bultitude/Oscar Nielsen	602873	5957087	9	1706	Outcrop	Grab	Reference	ANTF	Called ANTF in field, Possibly Clay-silica-pyrite altered QDR from drillng, phyllic alteration overprinted by clay/argillic
SB19-G02	A12	Steve Bultitude/Oscar Nielsen	602898	5957068	9	1696	Outcrop	Grab	Reference	ANTF	Called ANTF in field, Possibly Clay-silica-pyrite altered QDR from drillng, phyllic alteration overprinted by clay/argillic
SB19-G03	A12	Steve Bultitude/Oscar Nielsen	602880	5957060	9	1699	Outcrop	Grab	Reference	ANTF	Silica+sericite-altered and veined plagioclase crystal fragment bearing volcaniclastic rock
SB19-G04	A12	Steve Bultitude/Oscar Nielsen	602880	5957059	9	1700	Outcrop	Grab	Reference	ANTF	Called ANTF in field, Possibly Clay-silica-pyrite altered QDR from drillng, phyllic alteration overprinted by clay/argillic, narrow quartz+-Cb veins
SB19-G05	A12	Steve Bultitude/Oscar Nielsen	602899	5957038	9	1688	Outcrop	Grab	Reference	QFPY	Quartz-eye + plagioclase + mafic mineral bearing crystal tuff, strong sericite alteration of plagioclase and groundmass, large mafics to pyrite to hematite. Possibly QDR from drilling
SB19-G06	A12	Steve Bultitude/Oscar Nielsen	602931	5957027	9	1670	Outcrop	Grab	Reference	HBX	Magnetite rich breccia; Subangular gravel to cobble sized clasts (25% heterolithic) in a crystal-rich matrix with chlorite and sericite
SB19-G07	A12	Steve Bultitude/Oscar Nielsen	603024	5957087	9	1614	Outcrop	Grab	Reference	QFPY	Plagioclase+mafic+quartz eye-phyric intrusive rock; groundmass is composed of fine-grained material and sub-mm microlites. Mafics largely altered pyrite and plagioclase to sericite. Probably QDR from drilling.
SB19-G08	A12	Steve Bultitude/Oscar Nielsen	603361	5957020	9	1456	Outcrop	Grab	Reference	ANLT	Coarse crystal and clast bearing intermediate volcaniclastic rock; variably altered clasts (chlorite, epidote, sericite)
SB19-G09	A12	Oscar Nielsen	n/a	n/a	n/a	n/a	Float	Grab	Reference	QDR	Fine-grained subrounded mafic grains (1-2 mm) in a fine light green grey groundmass, epidote alteration of plagioclase crystal fragments. Possibly weakly to moderate propyllitically altered quartz diorite (QDR) seen in drillhole BRG19-235
SB19-G10	Bergette	Steve Bultitude/Oscar Nielsen	613759	5962126	9	1721	Outcrop	Grab	Reference	MZNT	Coarse-grained hornblende-biotite bearing monzonite to monzodiorite; cut by a Pyrite vein with a chlorite-sericite-pyrite halo
SB19-G11	Bergette	Steve Bultitude/Oscar Nielsen	613782	5962156	9	1716	Outcrop	Grab	Reference	QCBV	Quartz-carbonate vein with specular hematite and clay; minor pyrite
SB19-G12	Bergette	Steve Bultitude/Oscar Nielsen	613700	5962434	9	1739	Outcrop	Grab	Reference	MZNT	Biotite-hornblende monzonite to monzodiorite
SB19-G13	Bergette	Steve Bultitude/Oscar Nielsen	613652	5962682	9	1802	Outcrop	Grab	Reference	DIOR	Chlorite-altered diorite; plagioclase partially sericitized
SB19-G14	Bergette	Steve Bultitude/Oscar Nielsen	613652	5962681	9	1811	Outcrop	Grab	Reference	GRDI	Coarse-grained phaneritic grandiorite; coarse-grained plagioclase-hornblende with medium-grained kspar-quartz, mafic minerals altered to chlorite-magnetite, 0.5% Py

Appendix E: Drill Core Logs

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GeoSpark Logger ~ Drill Log

Project: **Berg** **Hole Number:** **BRG19-234**

Prospect:	Bergette	Hole Type:	DD	Survey Type:	GPS	Logged By:	Steve Bultitude
Grid:	NAD83_Z9	Hole Diameter:	75.7	Survey By:	Steve Bultitude	Date Logging Start:	2019-07-23
UTM Easting	613686	Core Size:	NQ	Azimuth:	360	Date Logging Complete:	2019-07-27
UTM Northing:	5962216	Casing Pulled?:	Y	Dip:	-70	Drill Company:	Geotech
UTM Elev. (m):	1707	Casing Depth (m):	10	Length (m):	382	Drill Rig:	DR229
Local Easting:		Stored?:	Y	Claims Title		Drill Started:	2019-07-22
Local Northing:		Cemented?:	Y	Core Storage Loc.:	Mt. Milligan	Drill Completed:	2019-07-26
Local Elev. (m):				Hole Completed?:	COMP	Purpose:	EXPL
Comments:				Proposed ID:	PDH-BRG19-A	Parent Hole:	

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
22	-72.2	345.4	17.5	2.9	TruShot	Geotech	2019-07-26	55992	☑	
52	-73.1	345.4	17.5	2.9	TruShot	Geotech	2019-07-26	55214	☑	
82	-72.5	348.1	17.5	5.6	TruShot	Geotech	2019-07-26	54663	☑	
112	-72.2	347.9	17.5	5.4	TruShot	Geotech	2019-07-26	54802	☑	
142	-72.1	347.2	17.5	4.7	TruShot	Geotech	2019-07-26	54392	☑	
172	-72.2	347.9	17.5	5.4	TruShot	Geotech	2019-07-26	54642	☑	
202	-72.5	348.6	17.5	6.1	TruShot	Geotech	2019-07-26	54601	☑	
232	-72.6	346.8	17.5	4.3	TruShot	Geotech	2019-07-26	54578	☑	
262	-72.8	346.8	17.5	4.3	TruShot	Geotech	2019-07-26	54414	☑	
292	-72.4	347.5	17.5	5	TruShot	Geotech	2019-07-26	54758	☑	
322	-72.3	350.2	17.5	7.7	TruShot	Geotech	2019-07-26	54630	☑	
352	-72	348.5	17.5	6	TruShot	Geotech	2019-07-26	53898	☑	
382	-71.9	348.7	17.5	6.2	TruShot	Geotech	2019-07-26	54093	☑	

From (m) To (m) Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
10.00 109.35 MZDI Monzodiorite CG	10.00	12.00	2.00	3384001	0.008	423.4	0.2	6	2
10 - 109.35: Predominantly monzodiorite with zones of monzonite, several zones of increased potassic/phyllic alteration due to veining, hornblende has been strongly to intensly altered to Biotite-chlorite and pyrite to a lesser degree, contains several zones of intense sericite-chlorite alteration with veined and euhedral gypsum, these zones looked to be healed fault zones (hydrothermal breccia?)									
<<Min: 12.75 - 14.8 3% Pyrite (FeS2)>> Concentrated near vein zones	12.00	13.00	1.00	3384002	0.005	580.3	0.2	5.2	2

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GeoSpark Logger ~ Drill Log

Project: **Berg** **Hole Number:** **BRG19-234**

From (m)	To (m)	Rocktype & Description
		<<Min: 14.8 - 15.3 0.1% Molybdenum (MoS2)>> disseminated with 1 cm vuggy qtz vein and a couple other hairline stringers
		<<Min: 15.3 - 18.7 2.5% Pyrite (FeS2)>>
		<<Min: 18.7 - 22.7 4% Pyrite (FeS2)>>
		<<Min: 22.7 - 23.6 10% Pyrite (FeS2)>> Strongly diss. Py, concentrated in halo around 1 cm wide Py vein
		<<Min: 23.6 - 24.4 5% Pyrite (FeS2)>>
		<<Min: 24.4 - 26.05 8% Pyrite (FeS2)>>
		<<Min: 26.05 - 29.7 2% Pyrite (FeS2)>> Diss. And veined
		<<Min: 29.7 - 30.15 5% Pyrite (FeS2)>>
		<<Min: 30.15 - 32.6 4% Pyrite (FeS2)>>
		<<Min: 32.6 - 36.75 4% Pyrite (FeS2)>>
		<<Min: 36.75 - 41.8 6% Pyrite (FeS2)>>
		<<Min: 41.8 - 55.15 2% Pyrite (FeS2)>>
		<<Min: 55.15 - 55.6 4% Pyrite (FeS2)>>
		<<Min: 55.6 - 62.95 2% Pyrite (FeS2)>>
		<<Min: 62.95 - 69.2 4% Pyrite (FeS2)>> Mostly hosted in veins and veinlets, background diss.
		<<Min: 70.1 - 75.4 5% Pyrite (FeS2)>>
		<<Min: 75.4 - 82.3 2% Pyrite (FeS2)>>
		<<Min: 82.3 - 83.25 5% Pyrite (FeS2)>> large uptick in diss. Py
		<<Min: 83.25 - 98.1 2% Pyrite (FeS2)>>
		<<Min: 98.1 - 101.3 4% Pyrite (FeS2)>> Diss. And veined, patchy
		<<Alt: 10 - 81 Strong - 20-50% (Bt 50-70%) Biotite>> Strong to complete replacement of hornblende, loss of hornblende cleavage key indicator, chloritized proximal to vein halos
		<<Alt: 18.7 - 20.05 Moderate - 5-20% (Bt 20-50%) Sericite>> Selective alteration of Plagioclase, increase proximal to qtz-py (T) veins
		<<Alt: 20.05 - 22.05 Strong - 20-50% (Bt 50-70%) Sericite>> Nearly complete alteration of plagioclase, 100% proximal to vein halos
		<<Alt: 22.05 - 22.7 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> Mottled KSP partially consuming plagioclase, intimately associated with strong KSP selvages/halos around 1mm qtz-py-sericite veins
		<<Alt: 23.15 - 26.05 Strong - 20-50% (Bt 50-70%) Sericite>> Sericite altered plagioclase
		<<Alt: 28.75 - 32.6 Moderate - 5-20% (Bt 20-50%) Chlorite>>
		<<Alt: 28.75 - 32.6 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>
		<<Alt: 28.75 - 32.6 Strong - 20-50% (Bt 50-70%) Sericite>>
		<<Alt: 63.35 - 69.2 Moderate - 5-20% (Bt 20-50%) Sericite>> narrow zones of complete plag replacement by sericite associated with qtz-py-ca veinlets

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
13.00	14.00	1.00	3384003	0.012	1683.6	2.2	8.8	5
14.00	14.80	0.80	3384004	0.009	957.6	0.2	13.4	2
14.80	15.30	0.50	3384005	0.005	305.7	-0.1	28.8	2
15.30	17.00	1.70	3384006	0.006	500.6	0.1	20	2
17.00	18.70	1.70	3384007	0.006	398.2	0.1	2.4	2
18.70	20.05	1.35	3384008	0.008	710.3	0.2	9.1	2
20.05	22.05	2.00	3384009	0.008	1070.6	0.2	5.5	1
22.05	22.70	0.65	3384010	0.009	658.7	0.2	4.6	2
22.70	23.60	0.90	3384011	0.013	2257.8	0.5	4.4	-1
23.60	24.40	0.80	3384012	0.007	830	0.2	1.4	2
24.40	26.05	1.65	3384013	0.011	1203.8	0.3	5.5	-1
26.05	27.30	1.25	3384014	-0.005	361.2	0.1	4.5	2
27.30	28.75	1.45	3384015	-0.005	138	-0.1	2.2	2
28.75	29.70	0.95	3384016	0.009	599.2	0.3	11.3	2
29.70	31.00	1.30	3384017	0.009	374.7	0.2	4.9	1
31.00	32.60	1.60	3384018	0.005	223.5	0.2	5.1	3
32.60	34.00	1.40	3384019	0.006	399.5	0.1	2.1	2
34.00	36.00	2.00	3384021	0.006	261.2	0.1	5.4	2
36.00	36.75	0.75	3384022	0.006	209	0.1	1.5	5
36.75	37.60	0.85	3384023	-0.005	237.5	-0.1	5.7	2
37.60	38.95	1.35	3384024	0.008	312.3	-0.1	20	2
38.95	40.90	1.95	3384025	-0.005	307.6	-0.1	78.9	2
40.90	41.80	0.90	3384026	0.006	317.1	0.1	21.1	1
41.80	43.00	1.20	3384027	-0.005	71.5	-0.1	2.8	2
43.00	45.00	2.00	3384028	0.006	292.4	-0.1	4.5	1
45.00	46.00	1.00	3384029	-0.005	311.1	-0.1	54.1	2
46.00	47.00	1.00	3384031	-0.005	355.5	-0.1	3.4	2
47.00	49.00	2.00	3384032	0.007	634.3	0.2	2.5	3
49.00	51.00	2.00	3384033	-0.005	382.5	0.1	4	2

EQUITY | EXPLORATION CONSULTANTS LTD.

GeoSpark Logger ~ Drill Log

Project: Berg **Hole Number:** BRG19-234

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
		<<Alt: 63.35 - 69.2 Weak - 2-5% (Bt 10-20%) Calcite>> Occuring as hairline fracture fill or within fault gouge, minor to trace component of qtz-py veins	51.00	53.00	2.00	3384034	0.007	398.6	0.2	3.9	1
		<<Alt: 63.35 - 69.2 Strong - 20-50% (Bt 50-70%) Chlorite>> alteration of Bt-after hbld, also strong halo zones around py and qz hairline veins	53.00	54.00	1.00	3384035	-0.005	336.2	0.1	42.7	1
		<<Alt: 63.35 - 69.2 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> Patchy KF attacking plagioclase, usually large halos associated with qz-py veins	54.00	55.15	1.15	3384036	-0.005	267.3	0.1	1.3	2
		<<Alt: 69.2 - 70.1 Weak - 2-5% (Bt 10-20%) Potassium feldspar>> Patchy zones of KF associated with increased KF and gypsum	55.15	55.75	0.60	3384037	-0.005	253.4	0.1	1.1	2
		<<Alt: 69.2 - 70.1 Intense - >50% (Bt 100%) Sericite>> Complete replacement of plagioclase by green/grey sericite	55.75	57.00	1.25	3384038	-0.005	119.2	-0.1	1.8	1
		<<Alt: 69.2 - 70.1 Weak - 2-5% (Bt 10-20%) Gypsum>> Gypsum occurring as large translucent crystals (brecciated/fragmented vein?0	57.00	59.00	2.00	3384039	-0.005	162.1	0.1	1.1	1
		<<Alt: 73.45 - 74 Intense - >50% (Bt 100%) Sericite>> Complete replacement of feldspars by sericite	59.00	61.00	2.00	3384041	0.009	230.7	0.2	1	2
		<<Alt: 89.4 - 90 Weak - 2-5% (Bt 10-20%) Calcite>> Associated with qtz veining	61.00	62.95	1.95	3384042	0.009	367	-0.1	1.5	1
		<<Alt: 89.4 - 90 Moderate - 5-20% (Bt 20-50%) Chlorite>> strongly altered zone of 5% qtz-crb veining	62.95	64.00	1.05	3384043	0.011	883.6	0.4	8.6	2
		<<Alt: 89.4 - 90 Weak - 2-5% (Bt 10-20%) Potassium feldspar>> Associated with py vein halos	64.00	66.00	2.00	3384044	0.01	366	0.3	9.7	1
		<<Alt: 89.4 - 90 Strong - 20-50% (Bt 50-70%) Sericite>> strongly altered zone of 5% qtz-crb veining	66.00	68.00	2.00	3384045	0.008	334.2	0.2	11.2	3
		<<Alt: 98.1 - 101.3 Intense - >50% (Bt 100%) Sericite>> Complete replacement of feldspars by sericite, zones of quartz and chlorite, gypsum veining	68.00	69.20	1.20	3384046	0.012	230.6	0.2	4.3	6
		<<Alt: 108.7 - 114.7 Strong - 20-50% (Bt 50-70%) Sericite>> strong to complete replacement of plagioclase	69.20	70.10	0.90	3384047	0.006	288.5	0.2	3	2
		<<Alt: 108.7 - 114.7 Moderate - 5-20% (Bt 20-50%) Clay>> kaolinite alt. of plagioclase	70.10	72.00	1.90	3384048	0.007	357.2	0.1	2.5	6
		<<Alt: 108.7 - 114.7 Moderate - 5-20% (Bt 20-50%) Gypsum>> Veined and as euhedral to subhedral red crystals	72.00	74.00	2.00	3384049	0.007	150.1	-0.1	1.6	5
		<<Alt: 108.7 - 114.7 Weak - 2-5% (Bt 10-20%) Potassium feldspar>> Patchy KF associated with vein halos	74.00	75.40	1.40	3384050	0.014	882.2	0.3	41.3	1
		<<Vein: 11.12 - 11.25 5% Pyrite 15 deg. >> Qtz-py-mt with ksp halo	75.40	77.00	1.60	3384051	0.009	253.5	0.1	5.9	2
		<<Vein: 11.65 - 12 5% Pyrite 25 deg. >> Qtz-Py with weak KF halo	77.00	79.00	2.00	3384052	0.01	555.3	0.2	2.2	3
		<<Vein: 14.25 - 14.33 10% Pyrite>>	79.00	81.00	2.00	3384053	0.01	863	0.2	6.1	1
		<<Vein: 14.45 - 14.8 10% Quartz 20 deg. >> Qtz-Py with vugs, locally sheeted, vugs probably from diss. Of crb	81.00	82.00	1.00	3384054	0.006	360.5	-0.1	2.2	1
		<<Vein: 14.8 - 15.3 5% Quartz 25 deg. >> Qtz-Py-Mo veins with vugs, zone has fracture-hosted Qtz-py-mo	82.00	83.25	1.25	3384055	0.009	1355.3	0.3	10	1
		<<Vein: 15.6 - 15.75 2% Pyrite 5 deg. >> Py with trace Mo	83.25	85.00	1.75	3384056	0.01	669.9	0.2	26.3	2
		<<Vein: 15.6 - 15.75 5% Quartz 20 deg. >>	85.00	87.00	2.00	3384057	0.008	483.3	0.2	5.7	2
		<<Vein: 16.7 - 16.95 5% Pyrite 15 deg. >> Py vein with chl-qtz halo	87.00	89.00	2.00	3384058	0.008	459.1	0.2	3.6	2
		<<Vein: 18.7 - 20.05 8% Quartz 30 deg. >> Qtz-Py veins with chl-ser-qtz-py halos, phyllic assemblage	89.00	90.00	1.00	3384059	0.014	414.6	0.3	5.7	4
		<<Vein: 20.05 - 20.3 1% White mica/Sericite/Muscovite 25 deg. >> Hairline vein of soft material, ksp-chl halo	90.00	91.00	1.00	3384061	0.007	234.6	0.1	3.7	1
		<<Vein: 22.05 - 22.7 2% Pyrite 25 deg. >> Py with KSP-CHL halo, sericite/clay(?) at apex of vein	91.00	92.50	1.50	3384062	0.007	319.4	-0.1	5.5	2
		<<Vein: 23.15 - 23.6 4% Pyrite 15 deg. >> Large Py vein with patches of mottled qz, halo shows strong phylliz assemblage, texture of intrusive obliterated	92.50	94.00	1.50	3384063	0.006	323.5	-0.1	7.6	2
		<<Vein: 23.6 - 24.4 2% Pyrite 15 deg. >> 1-2 mm py-qtz veins with 1-2 cm ksp-chl halos	94.00	96.00	2.00	3384064	0.007	327.8	-0.1	7.3	1

From (m)	To (m)	Rocktype & Description

<<Vein: 24.4 - 26.05 7% Quartz 20 deg. >>   qtz veins with 10-20% diss/patchy Py, strong sericite halos

<<Vein: 26.6 - 26.7 10% Pyrite 20 deg. >>   Py vein with ksp-chl halo

<<Vein: 27.2 - 27.3 10% Pyrite 20 deg. >>   Py vein with KSP-chl halo

<<Vein: 28.75 - 29.1 15% Quartz 25 deg. >>   Quartz vein with crb and chl-ksp-ser halos

<<Vein: 29.7 - 30.15 25% Quartz 30 deg. >>   Fracture/faulted zone of alteration with qtz veining, calcite fracture fill

<<Vein: 31 - 32.6 2% Pyrite 25 deg. >>   Py-qz-cl veinlets

<<Vein: 34 - 34.05 5% Pyrite 50 deg. >>

<<Vein: 34.4 - 34.7 5% Pyrite 25 deg. >>   KSP-chl halo

<<Vein: 36.75 - 37 10% Pyrite 15 deg. >>   KSP-CHL halo

<<Vein: 37.6 - 38.95 10% Quartz 25 deg. >>   KSP-CHL halos

<<Vein: 40.9 - 41.05 15% Pyrite 20 deg. >>

<<Vein: 46 - 48.5 3% Pyrite 20 deg. >>   Py-qz with chl+- ksp halos

<<Vein: 48.5 - 49.8 4% Quartz 30 deg. >>   qz-py with ch+-ksp halos

<<Vein: 55.15 - 55.6 2% Pyrite 10 deg. >>   Py-Crb-qz with selvage ch and ksp halo

<<Vein: 63.35 - 69.2 1% Pyrite 15 deg. >>   Hairline to 2 mm veins, Py-Crb-qz with chl selvages and large ksp halo

<<Vein: 69.2 - 69.9 8% Quartz>>   Qz-Ca/crb stockwork with strong pervasive sericite alt., ksp halos, weak gypsum, 3% py

<<Vein: 69.9 - 70.1 10% Quartz 45 deg. >>   strong ser-chl-ksp alteration halo

<<Vein: 70.85 - 70.95 10% White mica/Sericite/Muscovite 35 deg. >>

<<Vein: 71.75 - 71.95 10% Calcium carbonate/Carbonate 40 deg. >>   Ca-Ser. Veins \, vuggy, soft red mineral, looks to pseudomorph plag crystals

<<Vein: 75.4 - 75.7 10% Quartz 35 deg. >>   Qtz-crb with cl selvage and ser-ksp halo, large blebby Py in vein

<<Vein: 82.3 - 82.9 1% Magnetite 15 deg. >>   MT-PY vein with quartz, KF-CL halo

<<Vein: 83.8 - 83.9 10% Magnetite 35 deg. >>   MT vein with patchy Py at apex, KSP-Cl halo

<<Vein: 84.8 - 85.15 5% Pyrite 15 deg. >>   Py-qz with ksp-cl halo

<<Vein: 86.3 - 89.4 1% Pyrite 20 deg. >>   Py veins +-qz+-Ca, weak to mod KSP-CL halos

<<Vein: 97.75 - 97.9 5% Quartz 30 deg. >>   QZ vein with gypsum

<<Vein: 98.8 - 99 8% Quartz 45 deg. >>   Qzvein in pervasive sericite zone

<<Struc: 18.35 - 18.5 Weak - 2-5% (Bt 10-20%) Fault>>   Small rubbly fault with clay gouge

<<Struc: 30 - 30.6 Weak - 2-5% (Bt 10-20%) Fault>>   Fracture network with gouge

<<Struc: 51.35 - 52 Weak - 2-5% (Bt 10-20%) Fault>>   minor fault with clay gouge and rubble

<<Struc: 54.4 - 55 Weak - 2-5% (Bt 10-20%) Fault>>   minor fault with clay gouge and rubble

<<Struc: 92.5 - 93.9 Strong - 20-50% (Bt 50-70%) Fault Zone>>   zones of rubble with moderate to strong clay gouge

<<Struc: 101.3 - 104.6 Strong - 20-50% (Bt 50-70%) Fault Zone>>   zones of rubble with moderate to strong clay gouge

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
96.00	97.00	1.00	3384065	0.008	249.3	-0.1	6.2	1
97.00	98.10	1.10	3384066	0.011	362.2	0.2	42.2	2
98.10	100.00	1.90	3384067	0.011	461.5	0.4	7.7	8
100.00	101.30	1.30	3384068	0.027	466.7	1.3	18.3	51
101.30	103.00	1.70	3384069	0.011	296.6	0.2	18.8	3
103.00	104.60	1.60	3384071	0.01	529.2	0.3	104.3	2
104.60	106.00	1.40	3384072	0.011	576.9	0.2	13.2	3
106.00	107.00	1.00	3384073	0.009	338.1	0.2	3.9	1
107.00	108.70	1.70	3384074	0.009	294	0.2	5.5	7
108.70	110.00	1.30	3384075	0.047	172.6	0.7	134.3	147

From (m)	To (m)	Rocktype & Description

109.35 109.50 BRXF Breccia Fault CG

109.35 - 109.5: Pervasively sericite altered zone with quartz-gypsum-chlorite and zones of up to 15% Py, 15 cm of soft fault gouge with crackle breccia and up 2% Mo in gouge

<<Min: 109.35 - 109.5 20% Pyrite (FeS2)>> As fault gouge material

<<Min: 109.35 - 109.5 1% Molybdenum (MoS2)>> Within fault gouge

<<Struc: 109.35 - 109.5 Intense - >50% (Bt 100%) Fault>> Pure gouge with clasts, 20% py and 2% Mo in gouge

109.50 215.20 MZDI Monzodiorite CG

<<Min: 109.5 - 111 6% Pyrite (FeS2)>>

<<Min: 111.6 - 111.65 0.5% Molybdenum (MoS2)>>

<<Min: 119.35 - 119.8 6% Pyrite (FeS2)>> Associated with large halo around qz veins

<<Min: 124.7 - 125.2 0.1% Molybdenum (MoS2)>> Hosted in narrow pot qz veins

<<Min: 130.85 - 131.3 0.1% Molybdenum (MoS2)>> Hosted in narrow pot qz veins

<<Min: 131.7 - 132.7 6% Pyrite (FeS2)>>

<<Min: 134.1 - 138.15 0.2% Molybdenum (MoS2)>> Hosted within qz veins and veinlet stockwork

<<Min: 145.75 - 146.8 8% Pyrite (FeS2)>>

<<Min: 146.8 - 154.1 5% Pyrite (FeS2)>>

<<Min: 150.7 - 154.1 0.1% Chalcopyrite (CuFeS2)>> Occurs in patches proximal to potassic quartz-py veins

<<Min: 154.1 - 180 4% Pyrite (FeS2)>> as veins as well

<<Min: 175.55 - 175.8 0.4% Molybdenum (MoS2)>> hosted in qtz vein

<<Min: 175.55 - 175.8 0.1% Chalcopyrite (CuFeS2)>> Hosted in quartz vein and halo

<<Min: 177.75 - 178.1 0.4% Molybdenum (MoS2)>> hosted in qtz vein

<<Min: 177.75 - 178.1 0.05% Chalcopyrite (CuFeS2)>> A few grains

<<Min: 180 - 187 0.01% Chalcopyrite (CuFeS2)>>

<<Min: 180 - 187 5% Pyrite (FeS2)>>

<<Min: 187 - 190.2 8% Pyrite (FeS2)>> PY vein stockwork, dis throughout

<<Min: 190.2 - 194.55 0.01% Molybdenum (MoS2)>> Narrow veinlet of moly associated with gypsum pyrite vein

<<Min: 190.2 - 194.55 5% Pyrite (FeS2)>>

<<Min: 194.55 - 196.4 8% Pyrite (FeS2)>>

<<Min: 196.4 - 200.75 5% Pyrite (FeS2)>>

<<Min: 203.5 - 206.3 10% Pyrite (FeS2)>>

<<Min: 206.3 - 214.2 3% Pyrite (FeS2)>>

<<Min: 214.2 - 214.45 0.1% Molybdenum (MoS2)>>

<<Min: 214.45 - 224.4 3% Pyrite (FeS2)>>

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
110.00	112.00	2.00	3384076	0.012	319.2	0.4	42.8	27
112.00	114.00	2.00	3384077	0.011	260.9	0.4	5.1	27
114.00	115.00	1.00	3384078	0.012	455.8	0.6	6.6	12
115.00	117.00	2.00	3384079	0.01	459.7	0.2	28.7	3
117.00	119.00	2.00	3384081	0.016	199	0.2	24.8	8
119.00	119.80	0.80	3384082	0.016	833.8	0.4	14.9	4
119.80	121.00	1.20	3384083	0.012	243	-0.1	19.6	2
121.00	122.25	1.25	3384084	0.009	166.2	-0.1	11.2	3
122.25	123.65	1.40	3384085	0.01	351.6	0.2	17.2	3
123.65	125.20	1.55	3384086	0.012	374.4	0.1	213.4	3
125.20	127.00	1.80	3384087	0.014	418.5	0.1	40.3	3
127.00	128.00	1.00	3384088	0.009	241.3	-0.1	5.1	4
128.00	129.20	1.20	3384089	0.013	531.9	0.2	72.9	2
129.20	130.45	1.25	3384090	0.011	496.1	0.2	80.4	5
130.45	131.70	1.25	3384091	0.009	435.8	0.1	87.8	4
131.70	132.70	1.00	3384092	0.027	2238.7	0.9	4.2	1
132.70	134.10	1.40	3384093	0.01	669.5	0.2	5.3	2
134.10	136.00	1.90	3384094	0.01	334	0.2	297.2	3
136.00	137.00	1.00	3384095	0.009	413.9	0.1	12.3	3
137.00	138.15	1.15	3384096	0.009	235.1	0.2	422.2	3
138.15	139.00	0.85	3384097	0.009	468.6	0.3	14.4	1
139.00	141.00	2.00	3384098	0.01	508.1	0.3	9.9	4
141.00	143.00	2.00	3384099	0.013	674	0.3	3.1	2
143.00	144.00	1.00	3384101	0.01	471.8	0.2	7.1	3
144.00	145.75	1.75	3384102	0.008	567	0.2	16.9	2
145.75	146.80	1.05	3384103	0.024	1706.2	0.7	4.8	2
146.80	148.00	1.20	3384104	0.023	968.9	0.4	7.1	2

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
		<<Alt: 118.2 - 118.8 Strong - 20-50% (Bt 50-70%) Potassium feldspar>> Very large halo around 1 cm qtz vein	148.00	150.00	2.00	3384105	0.016	771	0.3	3.8	2
		<<Alt: 118.2 - 118.8 Strong - 20-50% (Bt 50-70%) Sericite>> Very large halo around 1 cm qtz vein	150.00	152.00	2.00	3384106	0.047	1949.4	1	14.1	6
		<<Alt: 118.2 - 118.8 Moderate - 5-20% (Bt 20-50%) Biotite>> Very large halo around 1 cm qtz vein	152.00	154.00	2.00	3384107	0.04	2174.8	0.9	3.4	2
		<<Alt: 129.2 - 130.45 Moderate - 5-20% (Bt 20-50%) Biotite>>	154.00	156.00	2.00	3384108	0.022	1258.9	0.5	49.4	2
		<<Alt: 129.2 - 130.45 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> kf around veins and veinlets	156.00	158.00	2.00	3384109	0.018	1047.2	0.4	15.8	2
		<<Alt: 129.2 - 130.45 Moderate - 5-20% (Bt 20-50%) Sericite>> fg quartz-sericite-py	158.00	160.00	2.00	3384111	0.014	816.8	0.3	4.7	2
		<<Alt: 145.5 - 177.5 Weak - 2-5% (Bt 10-20%) Sericite>> Forms in selvage and halos around most well-developed veins	160.00	160.90	0.90	3384112	0.01	568.3	0.2	5.4	2
		<<Alt: 145.75 - 146.8 Intense - >50% (Bt 100%) Biotite>> Complete BI alteration of hbld +-Pyx	160.90	162.00	1.10	3384113	0.007	429.3	0.2	18	2
		<<Alt: 145.75 - 146.8 Moderate - 5-20% (Bt 20-50%) Chlorite>> Secondary alt. to Bt	162.00	164.00	2.00	3384114	0.008	492.7	0.2	17.5	1
		<<Alt: 150.7 - 152.15 Weak - 2-5% (Bt 10-20%) Chlorite>> Vein selvage	164.00	165.50	1.50	3384115	0.012	913	0.3	10.8	3
		<<Alt: 150.7 - 170.3 Weak - 2-5% (Bt 10-20%) Potassium feldspar>> Weak potassic, patchy, strong around py/qz veins	165.50	167.00	1.50	3384116	0.014	1260	0.4	185	2
		<<Alt: 174.5 - 177.5 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> Associated with vein and veinlets	167.00	169.00	2.00	3384117	0.012	988.4	0.4	7.8	2
		<<Alt: 187 - 190.2 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> flooded in the halo of hairline veinlets	169.00	171.00	2.00	3384118	0.015	1107.9	0.4	3.5	2
		<<Alt: 187 - 190.2 Strong - 20-50% (Bt 50-70%) Sericite>> Strong phyllic-weak pot halo associated with py-qz veins	171.00	173.00	2.00	3384119	0.016	1439.4	0.5	39.1	-1
		<<Alt: 187 - 190.2 Weak - 2-5% (Bt 10-20%) Chlorite>> weak presence in sericite halo	173.00	175.00	2.00	3384121	0.019	1728.3	0.7	15.4	-1
		<<Alt: 193.1 - 194.55 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>	175.00	176.00	1.00	3384122	0.014	1153.8	0.4	124.5	2
		<<Alt: 193.1 - 197.7 Moderate - 5-20% (Bt 20-50%) Sericite>> Vein halo of quartz vein	176.00	177.50	1.50	3384123	0.013	1035.9	0.4	38.7	-1
		<<Alt: 194.55 - 197.7 Weak - 2-5% (Bt 10-20%) Potassium feldspar>> more intense with more intense veining	177.50	178.50	1.00	3384124	0.007	542.8	0.2	129.4	-1
		<<Alt: 194.55 - 197.7 Weak - 2-5% (Bt 10-20%) Quartz>> silica-flooded zones of vein halos	178.50	180.00	1.50	3384125	0.008	765.1	0.3	8.6	-1
		<<Alt: 199.4 - 200.75 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>	180.00	182.00	2.00	3384126	0.01	1213.4	0.4	12.2	-1
		<<Alt: 199.4 - 200.75 Moderate - 5-20% (Bt 20-50%) Sericite>> Halo around py-qtz vens	182.00	184.00	2.00	3384127	0.007	779.7	0.2	8.1	-1
		<<Alt: 203.5 - 206.3 Strong - 20-50% (Bt 50-70%) Chlorite>> Strongly chloritized mafic minerals with lesser Bi and phyllic alteration assemblage	184.00	186.00	2.00	3384128	0.008	659.6	0.3	9.6	1
		<<Alt: 203.5 - 206.3 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> Predominantly occurs as alt. halo around qtz/py veins	186.00	187.00	1.00	3384129	0.006	784.9	0.2	8.2	1
		<<Alt: 203.5 - 206.3 Moderate - 5-20% (Bt 20-50%) Sericite>> Moderate replacement of plag proximal to veins	187.00	189.00	2.00	3384130	0.006	732.3	0.3	63.3	-1
		<<Alt: 206.3 - 215.2 Moderate - 5-20% (Bt 20-50%) Biotite>> Moderate to strong replacement of hbld	189.00	190.20	1.20	3384131	0.01	1169.6	0.4	4.2	-1
		<<Alt: 206.3 - 224 Weak - 2-5% (Bt 10-20%) Potassium feldspar>>	190.20	192.00	1.80	3384132	0.008	1199.7	0.3	116.6	-1
		<<Vein: 111.4 - 111.5 5% Quartz 45 deg. >> no halo but contained within zone of wider sericite alteration	192.00	193.00	1.00	3384133	0.005	772.8	0.2	11.5	-1
		<<Vein: 112.6 - 112.8 15% Calcium carbonate/Carbonate 35 deg. >> Non-reactive carbonate with blebs of gypsum	193.00	194.55	1.55	3384134	-0.005	351.7	0.1	7.2	1
		<<Vein: 114.4 - 114.7 40% Gypsum 30 deg. >> Gypsum-albite vein with selvage chl and ser-kf halo	194.55	196.40	1.85	3384135	0.01	1347.7	0.5	17.8	-1
		<<Vein: 115.35 - 115.85 3% Quartz 20 deg. >>	196.40	197.70	1.30	3384136	0.006	638.1	0.2	32.3	-1
		<<Vein: 118.2 - 118.8 1% Quartz 20 deg. >> quartz vein with py and 20 cm halo of chl-ser-kf+-clay	197.70	199.40	1.70	3384137	0.006	814.9	0.3	5.6	1

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
199.40	200.75	1.35	3384138	0.005	490.6	0.2	4.5	-1
200.75	202.00	1.25	3384139	0.006	623.8	0.2	6.2	1
202.00	203.50	1.50	3384141	0.01	874.2	0.3	4.6	3
203.50	205.00	1.50	3384142	0.033	3846.8	1.3	18.8	1
205.00	206.30	1.30	3384143	0.028	2568.6	0.8	28.2	1
206.30	208.00	1.70	3384144	0.009	848.3	0.6	14.3	2
208.00	210.00	2.00	3384145	0.01	1028.3	0.4	23.1	3
210.00	212.00	2.00	3384146	0.008	709.6	0.3	16.1	2
212.00	214.00	2.00	3384147	0.007	589	0.3	75.7	2
214.00	215.20	1.20	3384148	0.007	486.2	0.2	51.7	1

From (m) To (m) Rocktype & Description

<<Vein: 119.35 - 119.8 3% Quartz 20 deg. >>   Bi-py halo

<<Vein: 120.75 - 121 1% Quartz 25 deg. >>

<<Vein: 122.25 - 123.65 2% Gypsum 30 deg. >>   Massive gypsum veins with ca-ch selvages and kf halos

<<Vein: 124.7 - 125.2 5% Quartz 55 deg. >>   qz-ca-Moly veins with kf-ch halos

<<Vein: 126.3 - 126.5 2% Quartz 30 deg. >>

<<Vein: 129.85 - 130.15 15% Quartz 30 deg. >>   qz veins with Cc-chl selvages and kf halos, 0.1% Mo

<<Vein: 132.35 - 132.5 15% Quartz 45 deg. >>

<<Vein: 134.1 - 138.45 8% Quartz 30 deg. >>   Qtz-Mo veining, Mo occurs as selvage min,mod developed kf halos

<<Vein: 135.9 - 136 40% Potassium feldspar (Kspar) 40 deg. >>   vfg KF, no halo

<<Vein: 141 - 141.1 10% Quartz 20 deg. >>

<<Vein: 147 - 147.1 30% Potassium feldspar (Kspar) 35 deg. >>   Aphanitic KF with qtz

<<Vein: 147.1 - 152.15 3% Quartz 45 deg. >>   Qz with patchy Py and diss. Cp, often weak KSP halos

<<Vein: 156.85 - 157.05 25% Potassium feldspar (Kspar) 40 deg. >>   aphan. KSP, HLN pyrite

<<Vein: 160.9 - 161 10% Quartz 40 deg. >>   qtz vein with potassic halo, diss. Py and cp

<<Vein: 161 - 166.5 5% Quartz 40 deg. >>   mostly hairline qz, a few larger (1-2cm) qz veins with Cp and Mo (E veins)

<<Vein: 166.5 - 175.55 0.5% Pyrite 40 deg. >>   Py+-qz with weak to moderate potassic halos, Cp is <0.1% and occurs as patches asociated with qtz-rich py veins

<<Vein: 175.55 - 175.8 5% Quartz 25 deg. >>   Berg-style "Early" vein with Cp-Mo in qz with potassic halo, 1% Mo, 1% Cp in vein

<<Vein: 177.75 - 178.1 5% Quartz 15 deg. >>   Berg-style "Early" vein with Cp-Mo in qz with potassic halo, 1% Mo, 1% Cp in vein

<<Vein: 180.5 - 187 1% Pyrite 45 deg. >>   Narrow hairline veins with MS-KF halos, veins contain qtz, trace Cp assoicated with veins

<<Vein: 187 - 200.75 10% Pyrite 10 deg. >>   1 cm Py-Qz veins running down core axis with large MS-CL+-KF halos, trace CP

<<Vein: 194.55 - 196.4 10% Quartz 10 deg. >>   Silica flooded zone with quartz+py veins haloed by MS, weak KF

<<Vein: 203.5 - 206.3 10% Quartz 40 deg. >>   Strongly phyllic altered zone with quartz veins and 10 py

<<Vein: 206.3 - 212.8 1% Pyrite 45 deg. >>   potassic halos

<<Vein: 212.8 - 215.2 3% Quartz 30 deg. >>   Large ksp flooded halos, trace Mo

215.20   224.40   KQMP   K-feldspar megacrystic quartz monzonite porphyry   CG

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
215.20	217.00	1.80	3384149	0.006	308.4	0.1	13.9	2
217.00	219.00	2.00	3384151	0.012	858	0.3	34.7	2

215.2 - 224.4: Megacrystic kfeldspar porphyry, feldspar phenos up to 3 cm, plag up to 2 cm, quartz up to 1 cm, veining sparse, with large potassic halos surrounding narrow qtz/py veins, groundmass weak to moderate potassic flooding

<<Alt: 224 - 238.15 Weak - 2-5% (Bt 10-20%) Sericite>>   Complete replacement of plag proximal to veins (halo)

From (m)	To (m)	Rocktype & Description

<<Alt: 224 - 238.15 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> Predominately as large vein halos and lesser groundmass alt

<<Alt: 224 - 238.15 Moderate - 5-20% (Bt 20-50%) Biotite>>

<<Vein: 221.2 - 226.25 2% Quartz 40 deg. >> Hairline qz with large POT halos, Bt selvages

224.40 238.15 MZDI Monzodiorite

224.4 - 238.15: Moderate potassic alteration, a few well-developed veins with 5% selvage Mo, potassic halos with complete seritization of surrounding plag

<<Min: 224.4 - 229 6% Pyrite (FeS_2)>>

<<Min: 229 - 238.15 4% Pyrite (FeS_2)>> Veined as well

<<Min: 229 - 238.15 0.2% Molybdenum (MoS_2)>> up to 20% in Py veins

<<Min: 229 - 238.15 0.01% Chalcopyrite ($CuFeS_2$)>>

<<Vein: 226.25 - 226.65 5% Pyrite 30 deg. >>

<<Vein: 228.7 - 229 50% Quartz 35 deg. >> Flooded qtz-ksp + ser(?), 10 Py

<<Vein: 229 - 238.15 0.5% Quartz 45 deg. >>

<<Vein: 232.85 - 233.1 20% Pyrite 40 deg. >> Py-Mo-Ca, 10% Mo, strong ser. Alt of plag in halo

<<Vein: 233.95 - 234.05 10% Pyrite 40 deg. >> Py-Mo-Ca, 10% Mo, strong ser. Alt of plag in halo

<<Vein: 234.95 - 235.2 20% Pyrite 45 deg. >> Py-Mo-Ca, 10% Mo, strong ser. Alt of plag in halo

238.15 253.80 KQMP K-feldspar megacrystic quartz monzonite porphyry CG

238.15 - 253.8: Megacrystic kfeldspar porphyry, feldspar phenos up to 3 cm, plag up to 2 cm, quartz up to 1 cm, veining sparse, with large potassic halos surrounding narrow qtz/py veins, groundmass weak to moderate potassic flooding

<<Min: 244 - 253.8 3% Pyrite (FeS_2)>>

<<Min: 244 - 253.8 0.01% Molybdenum (MoS_2)>>

<<Min: 244 - 253.8 0.01% Chalcopyrite ($CuFeS_2$)>>

<<Alt: 238.15 - 265.15 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>> Groundmass flooding and partial replacement of phenos

<<Vein: 243.5 - 253.8 0.5% Quartz 45 deg. >> Trace Mo, Cp, some up to 1 cm, plag sericitized proximal to larger veins

253.80 258.05 MZDI Monzodiorite

<<Min: 253.8 - 257.3 3% Pyrite (FeS_2)>>

<<Min: 257.3 - 265.15 5% Pyrite (FeS_2)>>

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
219.00	220.00	1.00	3384152	0.008	582.5	0.2	15.5	2
220.00	221.20	1.20	3384153	0.007	520.9	0.2	17.5	2
221.20	223.00	1.80	3384154	0.006	521.1	0.2	28.9	2
223.00	224.40	1.40	3384155	0.01	1012.8	0.4	14.9	-1
224.40	226.00	1.60	3384156	0.01	843.8	0.3	13.3	2
226.00	228.00	2.00	3384157	0.009	736.1	0.3	32.7	1
228.00	229.00	1.00	3384158	0.012	1741.7	0.7	22	2
229.00	230.00	1.00	3384159	0.01	970.5	0.4	59.6	3
230.00	232.00	2.00	3384161	0.007	655.6	0.3	10.9	2
232.00	233.10	1.10	3384162	0.017	1554.9	0.6	25.4	2
233.10	235.00	1.90	3384163	0.012	781.3	0.3	33.6	3
235.00	237.00	2.00	3384164	0.009	505.7	0.2	26.5	2
237.00	238.15	1.15	3384165	0.009	794.9	0.3	59.5	3
238.15	240.00	1.85	3384166	0.006	314.5	0.1	183.3	2
240.00	242.00	2.00	3384167	0.007	408.1	0.1	37.4	2
242.00	244.00	2.00	3384168	0.006	368.4	0.1	83.1	2
244.00	246.00	2.00	3384169	0.008	530.7	0.1	52.1	2
246.00	248.00	2.00	3384170	0.007	537.1	0.2	68.1	3
248.00	250.00	2.00	3384171	0.007	601.7	0.2	8.2	2
250.00	252.00	2.00	3384172	0.008	556.3	0.2	74.9	2
252.00	253.80	1.80	3384173	0.007	513.2	0.2	103.1	2
253.80	255.00	1.20	3384174	0.009	839.2	0.4	64.6	3
255.00	257.00	2.00	3384175	0.011	1022.5	0.5	18.9	3
257.00	259.00	2.00	3384176	0.01	866.1	0.4	137.9	4

From (m)	To (m)	Rocktype & Description

<<Min: 257.3 - 265.15 0.3% Molybdenum (MoS_2)>>

<<Min: 257.3 - 265.15 0.3% Chalcopyrite ($CuFeS_2$)>>

<<Alt: 253.8 - 265.15 Strong - 20-50% (Bt 50-70%) Biotite>> Strong Biotite after hbld

<<Vein: 257 - 260.15 2% Quartz 40 deg. >> +-anhydrite, strongest veins at margins of narrow KQMP dikes

258.05 260.65 KQMP K-feldspar megacrystic quartz monzonite porphyry

258.05 - 260.65: Megacrystic kfeldspar porphyry, feldspar phenos up to 3 cm, plag up to 2 cm, quartz up to 1 cm, veining sparse, with large potassic halos surrounding narrow qtz/py veins, groundmass weak to moderate potassic flooding, intense potassic flooding at margin, 50 cm zone with Cp and Mo

<<Vein: 260.15 - 260.65 50% Quartz 35 deg. >> Not sure what is "vein", flooded zone or intense halo from stwk

260.65 293.45 MZDI Monzodiorite CG

260.65 - 293.45: Moderate to intensely potassic alteration, 0.1-0.5% E veins (Cu+Mo in QZ), sections of complete seritization, most intense an contact with lower KQMP

<<Min: 265.15 - 269.65 10% Pyrite (FeS_2)>> Potassic flooded zone

<<Min: 265.15 - 269.65 0.5% Molybdenum (MoS_2)>> Potassic flooded zone

<<Min: 265.15 - 269.65 0.5% Chalcopyrite ($CuFeS_2$)>> Potassic flooded zone

<<Min: 269.65 - 281.3 3% Pyrite (FeS_2)>>

<<Min: 281.3 - 290.9 4% Pyrite (FeS_2)>>

<<Min: 285 - 290.9 0.2% Molybdenum (MoS_2)>>

<<Min: 285 - 290.9 0.1% Chalcopyrite ($CuFeS_2$)>>

<<Min: 290.9 - 293.45 5% Pyrite (FeS_2)>>

<<Alt: 265.15 - 269.65 Intense - >50% (Bt 100%) Potassium feldspar>> Potassic flooding (+silica?), primary texture obliterated

<<Alt: 265.15 - 269.65 Strong - 20-50% (Bt 50-70%) Biotite>>

<<Alt: 265.15 - 270.55 Weak - 2-5% (Bt 10-20%) Chlorite>> After BI

<<Alt: 265.15 - 270.55 Moderate - 5-20% (Bt 20-50%) Albite>> Albite proximal to narrow quartz veins

<<Alt: 269.65 - 281.3 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>

<<Alt: 269.65 - 290.9 Moderate - 5-20% (Bt 20-50%) Biotite>>

<<Alt: 270.55 - 274.7 Weak - 2-5% (Bt 10-20%) Chlorite>> Altering secondary Bt

<<Alt: 281.3 - 290.9 Moderate - 5-20% (Bt 20-50%) Sericite>> zones of complete plagioclase alt.

<<Alt: 281.3 - 290.9 Strong - 20-50% (Bt 50-70%) Potassium feldspar>> Variable throughout, flooded areas locallyrelated to vein intensity

<<Alt: 281.3 - 290.9 Moderate - 5-20% (Bt 20-50%) Chlorite>> Associated with intense sericite alt. patches

<<Alt: 290.9 - 294.45 Weak - 2-5% (Bt 10-20%) Quartz>> Leftover from protolith? (MZDI)

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
259.00	260.65	1.65	3384177	0.022	2316.8	1	199.6	2
260.65	262.00	1.35	3384178	0.022	2465.5	1.1	181.4	3
262.00	264.00	2.00	3384179	0.016	1623.9	0.7	137.6	2
264.00	265.15	1.15	3384181	0.015	1401.6	0.6	35.5	2
265.15	267.00	1.85	3384182	0.03	2866.6	1.6	100.1	3
267.00	268.00	1.00	3384183	0.037	3494.4	2	14.8	5
268.00	269.65	1.65	3384184	0.022	2011.9	1.1	83.9	3
269.65	271.00	1.35	3384185	0.013	1103.4	0.6	22.4	3
271.00	273.00	2.00	3384186	0.013	949.7	0.5	4.7	4
273.00	274.70	1.70	3384187	0.015	1239.1	0.6	18.4	5
274.70	276.00	1.30	3384188	0.015	1343.1	0.7	8.5	3
276.00	278.00	2.00	3384189	0.013	1152.8	0.4	12.8	2
278.00	280.00	2.00	3384191	0.018	1524	0.8	49.3	2
280.00	281.30	1.30	3384192	0.015	1254.5	0.7	7.3	4
281.30	283.00	1.70	3384193	0.021	1674.8	1.4	101.9	27
283.00	285.00	2.00	3384194	0.014	937.1	0.6	30.6	3
285.00	287.00	2.00	3384195	0.044	1780.8	1.2	187	16
287.00	289.00	2.00	3384196	0.018	1164.1	0.8	143.2	4
289.00	290.90	1.90	3384197	0.018	965.2	0.7	36.5	3
290.90	292.00	1.10	3384198	0.025	1610.4	1.6	22.9	74
292.00	293.45	1.45	3384199	0.045	1077.8	0.7	52.9	30

From (m)	To (m)	Rocktype & Description

<<Alt: 290.9 - 294.45 Weak - 2-5% (Bt 10-20%) Chlorite>> Local chlorite (alteration of mafic minerals after Bt?)

<<Alt: 290.9 - 297.5 Intense - >50% (Bt 100%) Sericite>> Total alteration of plag

<<Vein: 260.65 - 265.15 1% Quartz 25 deg. >> contain up to 0.3% Cp and Mo

<<Vein: 265.15 - 269.65 40% Quartz 45 deg. >> Not sure what is "vein", flooded zone or intense halo from stwk, mineralized up to 0.5% Cp, Mo, 10 % Py

<<Vein: 269.65 - 274.7 1% Quartz 45 deg. >> +- Py

<<Vein: 269.65 - 274.7 1% Pyrite 30 deg. >> Chl halos common

<<Vein: 274.7 - 281.3 2% Quartz 35 deg. >> +-Py, ocassiocal chl halos, trace cp&Mo

<<Vein: 281.3 - 290.9 1% Quartz 50 deg. >> Bt-CL selvage and potasic halos, commonly contain Mo and lesser Cp

<<Vein: 281.3 - 290.9 0.5% Pyrite 25 deg. >> Massive Py veins 0.1-1cm in diameter, weak to moderate pot halos, associated with zones of strong sericite alt.

<<Vein: 287.7 - 287.8 20% Anhydrite 40 deg. >> 20% Py, 2% Mo, strong pot halo

<<Vein: 290.9 - 293.45 2% Pyrite 40 deg. >> Intense sericite contact zone

293.45 297.50 KQMP K-feldspar megacrystic quartz monzonite porphyry CG

293.45 - 297.5: Weak to moderate potassic alteration and strong to intense seritization of plag phenos

<<Min: 293.45 - 317.6 3% Pyrite (FeS2)>>

<<Min: 293.45 - 317.6 0.4% Molybdenum (MoS2)>> Diss. In patches proximal to qz veins

<<Min: 293.45 - 317.6 0.3% Chalcopyrite (CuFeS2)>> patchy

297.50 323.65 KQMP K-feldspar megacrystic quartz monzonite porphyry CG

297.5 - 323.65: Sharp contact with above unit, contact is intensely altered, intense potassic alteration throughout this unit

<<Min: 317.6 - 320.3 1.5% Molybdenum (MoS2)>> Occurs in patches proximals to vein and CP

<<Min: 317.6 - 320.3 1.5% Chalcopyrite (CuFeS2)>> Occurs in patches proximal to or in veins and Mo

<<Min: 317.6 - 382 4% Pyrite (FeS2)>>

<<Min: 320.3 - 370 0.4% Chalcopyrite (CuFeS2)>> Diss. also, fairly homogenous dist. Throughout interval

<<Min: 320.3 - 382 0.5% Molybdenum (MoS2)>> Diss. also, fairly homogenous dist. Throughout interval

<<Alt: 297.5 - 320 Strong - 20-50% (Bt 50-70%) Biotite>>

<<Alt: 297.5 - 320.3 Intense - >50% (Bt 100%) Potassium feldspar>> potassic flooding

<<Alt: 312.65 - 320.3 Strong - 20-50% (Bt 50-70%) Sericite>>

<<Alt: 317.6 - 320.3 Moderate - 5-20% (Bt 20-50%) Anhydrite>> associated with intense CP and MO minz.

<<Alt: 320.3 - 323.65 Moderate - 5-20% (Bt 20-50%) Sericite>> Patches of complete alt. of plag proximal to veins

<<Alt: 320.3 - 323.65 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
293.45	295.00	1.55	3384201	0.011	752	0.5	165.6	3
295.00	297.00	2.00	3384202	0.012	755.9	0.3	101.6	1
297.00	299.00	2.00	3384203	0.011	442.8	0.3	221.5	17
299.00	301.00	2.00	3384204	0.011	504.3	0.2	352	1
301.00	303.00	2.00	3384205	0.008	400.9	0.2	58.7	2
303.00	305.00	2.00	3384206	0.006	257.5	-0.1	81.4	2
305.00	307.00	2.00	3384207	0.008	400.4	0.2	471.2	2
307.00	309.00	2.00	3384208	0.017	800.4	0.4	71.7	5
309.00	311.00	2.00	3384209	0.013	1016.9	0.5	426.1	1
311.00	313.00	2.00	3384210	0.014	889.2	0.4	153.4	3
313.00	315.00	2.00	3384211	0.022	1696.6	0.7	189.7	40
315.00	316.00	1.00	3384212	0.026	1524.9	2.1	61.1	510
316.00	317.60	1.60	3384213	0.02	1490.2	1.4	103.6	333
317.60	319.00	1.40	3384214	0.014	1218.8	1.2	1479.4	191
319.00	320.30	1.30	3384215	0.025	1659.4	0.6	295.8	69

From (m)	To (m)	Rocktype & Description

<<Vein: 297.5 - 323.65 0.5% Quartz 45 deg. >> Narrow qtz veins usually with Mo and lesser Cp

<<Vein: 297.65 - 298 30% Anhydrite 25 deg. >> Breccia vein with mineralized wall rock clasts, up 15% Mo, 15% Py, qtz-calc. in vein

<<Vein: 299.2 - 299.3 5% Massive Sulphide/Sulphides undifferentiated 45 deg. >> Mo vein

<<Vein: 306.3 - 306.45 20% Anhydrite 25 deg. >> chl selvages and 5% Py, trace Mo, Cp

<<Vein: 314.8 - 318.6 2% Gypsum 30 deg. >> GM/AH veins, commonly host up to 2% Mo

323.65 361.50 MZDI Monzodiorite CG

323.65 - 361.5: Moderate to locally strong potassic alteration, a couple narrow (<1 m) intense sericite zones associate with crb and gyp veins, evenly dist. E veins of Qtz+PY+CP+MO, EOH

<<Alt: 323.65 - 326.8 Weak - 2-5% (Bt 10-20%) Sericite>> complete plag. Replacement in vein halos

<<Alt: 323.65 - 326.8 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>

<<Alt: 323.65 - 382 Strong - 20-50% (Bt 50-70%) Biotite>> Partial to complete replacement of hbld, locally chloritized

<<Alt: 326.8 - 327.6 Intense - >50% (Bt 100%) Sericite>> Complete replacement of plagioclase throughout interval, could be related to crb-gyp vein halos

<<Alt: 326.8 - 327.6 Strong - 20-50% (Bt 50-70%) Potassium feldspar>>

<<Alt: 326.8 - 327.6 Weak - 2-5% (Bt 10-20%) Gypsum>> minor gypsum in halo alt.

<<Alt: 327.6 - 332.6 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>

<<Alt: 332.6 - 334.3 Strong - 20-50% (Bt 50-70%) Potassium feldspar>> flooded vein zone

<<Alt: 332.6 - 334.3 Strong - 20-50% (Bt 50-70%) Chlorite>> Bt to chlorite

<<Alt: 334.3 - 336.25 Moderate - 5-20% (Bt 20-50%) Potassium feldspar>>

<<Alt: 336.25 - 337 Strong - 20-50% (Bt 50-70%) Chlorite>> Bt to chlorite

<<Alt: 336.25 - 382 Strong - 20-50% (Bt 50-70%) Potassium feldspar>>

<<Vein: 323.65 - 332.6 0.5% Quartz 45 deg. >> Quartz veins potassic halos, always host Mo+-CP, "E veins"?

<<Vein: 323.65 - 332.6 0.1% Pyrite 35 deg. >> Closely associated with minz. Qz veins, also host to Cp, lesser Mo

<<Vein: 326.8 - 327.6 10% Calcium carbonate/Carbonate 50 deg. >> CRB+- gypsum

<<Vein: 332.6 - 334.3 15% Quartz 20 deg. >> "flooded" quartz ksp zone w/ py

<<Vein: 332.6 - 334.3 5% Pyrite 20 deg. >>

<<Vein: 334.3 - 336.25 0.5% Quartz 45 deg. >> Quartz veins potassic halos, always host Mo+-CP, "E veins"?

<<Vein: 334.3 - 382 0.1% Pyrite 35 deg. >> Closely associated with minz. Qz veins, also host to Cp, lesser Mo

<<Vein: 336.25 - 337 10% Quartz 15 deg. >> "flooded" quartz ksp zone w/ py

<<Vein: 337 - 382 0.5% Quartz 45 deg. >> Quartz veins potassic halos, always host Mo+-CP, "E veins"?

<<Vein: 359.25 - 359.45 20% Chalcopyrite 35 deg. >> Massive Cp-py vein

<<Vein: 359.9 - 360 25% Chalcopyrite 35 deg. >> Massive Cp-py-Mo vein

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
320.30	322.00	1.70	3384216	0.013	766.4	0.4	95.4	3
322.00	323.65	1.65	3384217	0.01	581.5	0.3	88.5	2
323.65	325.00	1.35	3384218	0.014	952.5	0.4	289.6	3
325.00	326.80	1.80	3384219	0.013	663.6	0.3	223.2	1
326.80	328.00	1.20	3384221	0.012	738.4	0.1	26.2	4
328.00	330.00	2.00	3384222	0.023	2013	1.1	19.1	2
330.00	331.00	1.00	3384223	0.041	2697.2	0.9	47.3	2
331.00	332.60	1.60	3384224	0.011	715.2	0.3	478.7	2
332.60	334.30	1.70	3384225	0.04	4908.4	2	71.4	1
334.30	336.00	1.70	3384226	0.015	1098.6	0.4	41.3	2
336.00	337.00	1.00	3384227	0.031	3799	1.3	79.8	2
337.00	339.00	2.00	3384228	0.017	1229.6	0.4	26	2
339.00	341.00	2.00	3384229	0.012	925.2	0.3	61.4	1
341.00	343.00	2.00	3384231	0.036	2123.9	0.9	74.2	1
343.00	345.00	2.00	3384232	0.017	1081	0.4	24.2	2
345.00	347.00	2.00	3384233	0.012	1077.2	0.4	107	2
347.00	349.00	2.00	3384234	0.017	1445.8	0.6	7.8	2
349.00	351.00	2.00	3384235	0.012	973.7	0.5	152.1	2
351.00	353.00	2.00	3384236	0.014	950.3	0.3	84.7	2
353.00	355.00	2.00	3384237	0.012	634.9	0.2	34.7	3
355.00	357.00	2.00	3384238	0.008	233.5	0.1	59.1	2
357.00	358.00	1.00	3384239	0.01	555.9	0.2	74.3	2
358.00	360.00	2.00	3384241	0.018	3750.7	1.2	31.8	1
360.00	361.50	1.50	3384242	0.011	599.6	0.2	102.6	2

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From (m)	To (m)	Rocktype & Description
361.50	**362.00**	**KQMP** **K-feldspar megacrystic quartz monzonite porphyry** **CG**

361.5 - 362: Potassically altered Dike

From (m)	To (m)	Rocktype & Description
362.00	**382.00**	**MZDI** **Monzodiorite**

362 - 382: Moderate to locally strong potassic alteration, a couple narrow (<1 m) intense sericite zones associate with crb and gyp veins, evenly dist. E veins of Qtz+PY+CP+MO, EOH

<<Min: 370 - 382 0.6% Chalcopyrite (CuFeS2)>> CP increases with depth, higher vein density/fracture and increase in diss.

From (m)	To (m)	Width	Sample	Au ppm	Cu ppm	Ag ppm	Mo ppm	As ppm
361.50	362.00	0.50	3384243	0.015	1067.9	0.4	86.8	2
362.00	364.00	2.00	3384244	0.031	3338.7	1.2	257.8	2
364.00	366.00	2.00	3384245	0.018	1743.4	0.6	129.6	2
366.00	367.00	1.00	3384246	0.014	943.3	0.4	39	2
367.00	369.00	2.00	3384247	0.018	1677.5	0.7	158	-1
369.00	371.00	2.00	3384248	0.018	1273.8	0.5	335.6	3
371.00	373.00	2.00	3384249	0.019	3150.8	1.1	229.2	2
373.00	375.00	2.00	3384250	0.018	1335.5	0.5	151.9	1
375.00	376.00	1.00	3384301	0.024	1505.4	0.5	108.9	-1
376.00	378.00	2.00	3384302	0.022	1554.6	0.5	64.8	-1
378.00	380.00	2.00	3384303	0.029	2574.5	0.9	132.1	2
380.00	382.00	2.00	3384304	0.017	1780.1	0.6	103	1

End of Hole @ 382

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GeoSpark Logger ~ Drill Log

Project: **Berg** **Hole Number:** **BRG19-235**

Prospect:	A12	Hole Type:	DD	Survey Type:	GPS	Logged By:	Steve Bultitude
Grid:	NAD83_Z9	Hole Diameter:	75.7	Survey By:	Steve Bultitude	Date Logging Start:	2019-07-28
UTM Easting	602868	Core Size:	NQ	Azimuth:	360	Date Logging Complete:	2019-08-03
UTM Northing:	5957057	Casing Pulled?:	Y	Dip:	-80	Drill Company:	Geotech
UTM Elev. (m):	1695	Casing Depth (m):	9	Length (m):	358	Drill Rig:	DR229
Local Easting:		Stored?:	Y	Claims Title	Berg	Drill Started:	2019-07-28
Local Northing:		Cemented?:	Y	Core Storage Loc.:	Sky Camp	Drill Completed:	2019-08-01
Local Elev. (m):				Hole Completed?:	COMP	Purpose:	EXPL
Comments:				Proposed ID:	PDH-BRG19-B	Parent Hole:	

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
31	-82.2	341.7	17.5	359.2	TruShot	Geotech Drilling	2019-07-27	56437	☑	
61	-81.8	338.8	17.5	356.3	TruShot	Geotech Drilling	2019-07-28	55498	☑	
91	-82	338.6	17.5	356.1	TruShot	Geotech Drilling	2019-07-28	55545	☑	
121	-82.1	338.3	17.5	355.8	TruShot	Geotech Drilling	2019-07-28	56008	☑	
151	-82.6	336.9	17.5	354.4	TruShot	Geotech Drilling	2019-07-29	55651	☑	
181	-82	337.1	17.5	354.6	TruShot	Geotech Drilling	2019-07-30	55460	☑	
211	-82.6	343.3	17.5	0.8	TruShot	Geotech Drilling	2019-07-30	55343	☐	
241	-82.8	344.8	17.5	2.3	TruShot	Geotech Drilling	2019-07-30	55556	☐	
271	-82.5	334.5	17.5	352	TruShot	Geotech Drilling	2019-07-31	55600	☑	
301	-81.8	338.8	17.5	356.3	TruShot	Geotech Drilling	2019-07-31	55367	☑	
331	-82.6	345.4	17.5	2.9	TruShot	Geotech Drilling	2019-07-31	54886	☐	
358	-82.5	349.7	17.5	7.2	TruShot	Geotech Drilling	2019-07-31	55087	☐	

From (m)	To (m)	Rocktype & Description				From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
0.00	**5.00**	**CASN**	**Casing**											
5.00	**255.50**	**QDR**	**Quartz diorite**	**blue**	**MG**	5.00	7.00	2.00	3384305	0.027	2	182.6	34	7

5 - 255.5: Diorite to quartz diorite, 1-4 m zones of intense pervasive clay-sericite alteration, primary intrusive texture of rock is kept in clay altered layers, weak to mod chl-ep locally in "fresh" QDR, intensely sericitized zones starting at 37m, host to T vein QZ-PY-AB-CL-MS, unknown non-magnetic black metallic mineral showing up in veins, Mostly strong QSP alteration except relatively unaltered "islands" of QDR

From (m)	To (m)	Rocktype & Description
		<<Min: 5 - 43.15 1.5% Pyrite (FeS2)>> Diss throughout Dior/quartz diorite
		<<Min: 43.15 - 65.65 3% Pyrite (FeS2)>> Part of phyllic assemblage
		<<Min: 70.1 - 80.15 4% Pyrite (FeS2)>> Part of phyllic assemblage
		<<Min: 80.15 - 88.15 7% Pyrite (FeS2)>> Part of intense phyllic assemblage with Qz-Py veinings
		<<Min: 88.15 - 91.6 5% Pyrite (FeS2)>>
		<<Min: 91.6 - 138.1 6% Pyrite (FeS2)>> Disseminated as part of QSP alt., in veins up to 20% abundance
		<<Min: 103.45 - 103.6 0.1% Sulphosalts (Tetrahedrite (Cu,Fe)12Sb4S13)>> Possibly, confirm with Dan
		<<Min: 112.95 - 113.15 0.1% Sulphosalts (Tetrahedrite (Cu,Fe)12Sb4S13)>> Possibly, confirm with Dan
		<<Min: 142.8 - 163.3 6% Pyrite (FeS2)>> Disseminated as part of QSP alt., in veins up to 20% abundance
		<<Min: 163.3 - 165.45 1% Pyrite (FeS2)>> fresh quartz diorite
		<<Min: 165.45 - 172.55 5% Pyrite (FeS2)>> Veined also
		<<Min: 172.55 - 173.3 10% Pyrite (FeS2)>> blebs and seams within large quartz vein/blowout zone
		<<Min: 173.3 - 175.8 5% Pyrite (FeS2)>> QSP
		<<Min: 175.8 - 178.1 15% Pyrite (FeS2)>> Hosted within large quartz veins as seems/veinlets
		<<Min: 178.1 - 182.4 5% Pyrite (FeS2)>> QSP
		<<Min: 182.4 - 184 1% Pyrite (FeS2)>> Fresh QDR
		<<Min: 184 - 195.85 5% Pyrite (FeS2)>> QSP
		<<Min: 195.85 - 196.45 15% Pyrite (FeS2)>> Hosted in quartz vein
		<<Min: 196.45 - 212.25 1% Pyrite (FeS2)>> Fresh QDR
		<<Min: 212.25 - 214.6 4% Pyrite (FeS2)>>
		<<Min: 214.6 - 215.7 10% Pyrite (FeS2)>> Hosted in quartz veins and surrounding halo
		<<Min: 215.7 - 229.9 5% Pyrite (FeS2)>> Veined also
		<<Min: 229.9 - 243.7 4% Pyrite (FeS2)>> Veined alsoi
		<<Min: 243.7 - 255.5 5% Pyrite (FeS2)>> Veined also
		<<Min: 247.95 - 248 0.1% Sulphosalts (Tetrahedrite (Cu,Fe)12Sb4S13)>> Veined with py, unknown mineral
		<<Min: 253.75 - 253.8 0.1% Sulphosalts (Tetrahedrite (Cu,Fe)12Sb4S13)>> Veined with py, unknown mineral, powdery black
		<<Alt: 5 - 8.9 Intense - >50% (Bt 100%) Clay>> pevasively clay altered, oxidized fracture fill (py?)
		<<Alt: 8.9 - 12.1 Strong - 20-50% (Bt 50-70%) Clay>>
		<<Alt: 12.1 - 15.5 Moderate - 5-20% (Bt 20-50%) Chlorite>> Fresh Dior, weak to mod epidote, weak chl halo around fracture veins, some patchy zones of moderate clay-sericite alt.
		<<Alt: 12.1 - 15.5 Moderate - 5-20% (Bt 20-50%) Epidote>>
		<<Alt: 15.5 - 16.75 Intense - >50% (Bt 100%) Clay>>
		<<Alt: 16.75 - 19.1 Moderate - 5-20% (Bt 20-50%) Chlorite>>

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
7.00	8.90	1.90	3384306	0.247	20.8	157.2	70	11.1
8.90	10.00	1.10	3384307	0.01	5	139.5	22	66.1
10.00	11.00	1.00	3384308	0.006	0.6	88.6	10	6.5
11.00	12.10	1.10	3384309	0.007	0.3	55.6	6	5.5
12.10	14.00	1.90	3384311	0.005	0.2	57.7	6	9
14.00	15.50	1.50	3384312	0.009	0.4	97.4	9	21.6
15.50	16.75	1.25	3384313	0.043	2.8	147.8	59	7.3
16.75	17.90	1.15	3384314	0.024	1	324.8	19	7.2
17.90	19.10	1.20	3384315	0.012	0.7	249.2	17	4.4
19.10	21.00	1.90	3384316	0.021	1.3	91.2	35	25.3
21.00	22.90	1.90	3384317	0.023	1.2	142.8	26	35
22.90	24.00	1.10	3384318	0.009	0.6	156	9	33
24.00	25.00	1.00	3384319	0.011	0.8	258.4	6	4.9
25.00	26.10	1.10	3384321	0.129	3.9	165.6	209	6.8
26.10	28.00	1.90	3384322	0.013	0.5	104.3	23	11.4
28.00	29.40	1.40	3384323	0.011	0.6	254.2	10	51.5
29.40	31.00	1.60	3384324	0.006	0.3	98.9	7	5.1
31.00	33.00	2.00	3384325	0.007	0.2	90.1	9	4.2
33.00	35.00	2.00	3384326	0.008	0.3	96.7	8	5.5
35.00	37.00	2.00	3384327	0.009	0.5	117.6	8	4
37.00	39.00	2.00	3384328	0.036	1.9	271.7	43	9
39.00	41.00	2.00	3384329	0.085	2.9	222.1	107	9.7
41.00	43.00	2.00	3384330	0.043	1	137.5	32	11.9
43.00	45.00	2.00	3384331	0.018	1	673.1	11	3.7
45.00	47.00	2.00	3384332	0.013	0.6	329.6	17	6.8
47.00	49.00	2.00	3384333	0.015	0.7	393.7	25	4.2
49.00	51.00	2.00	3384334	0.023	1	307.2	27	9.9
51.00	53.00	2.00	3384335	0.013	0.7	401.8	8	4
53.00	55.00	2.00	3384336	0.009	0.4	103.6	9	5.1
55.00	57.00	2.00	3384337	0.008	0.2	146.4	10	3.3
57.00	59.00	2.00	3384338	0.011	0.3	35.9	15	6
59.00	61.00	2.00	3384339	0.011	0.4	108.1	13	3.2

From (m)	To (m)	Rocktype & Description
		<<Alt: 16.75 - 19.1 Moderate - 5-20% (Bt 20-50%) Clay>>
		<<Alt: 19.1 - 22.9 Intense - >50% (Bt 100%) Clay>>
		<<Alt: 22.9 - 25 Moderate - 5-20% (Bt 20-50%) Chlorite>>
		<<Alt: 22.9 - 25 Moderate - 5-20% (Bt 20-50%) Epidote>>
		<<Alt: 25 - 26.1 Intense - >50% (Bt 100%) Clay>>
		<<Alt: 26.1 - 29.4 Moderate - 5-20% (Bt 20-50%) Clay>>
		<<Alt: 29.4 - 37.65 Moderate - 5-20% (Bt 20-50%) Chlorite>>
		<<Alt: 29.4 - 37.65 Moderate - 5-20% (Bt 20-50%) Epidote>>
		<<Alt: 37.65 - 65.65 Strong - 20-50% (Bt 50-70%) Sericite>> strongly to intensely sericitized quartz diorite, local intense "QSP" alteration, several rubble zones
		<<Alt: 38 - 43.14 Strong - 20-50% (Bt 50-70%) Clay>> Clay altered (fault) zone, strong gouge, soft
		<<Alt: 65.65 - 71.5 Moderate - 5-20% (Bt 20-50%) Sericite>> patchy to pervasive
		<<Alt: 65.65 - 71.5 Weak - 2-5% (Bt 10-20%) Epidote>>
		<<Alt: 65.65 - 71.5 Moderate - 5-20% (Bt 20-50%) Chlorite>>
		<<Alt: 71.5 - 76.95 Intense - >50% (Bt 100%) Sericite>> intense plag replacement, Mostly QSP assemblage
		<<Alt: 71.5 - 76.95 Moderate - 5-20% (Bt 20-50%) Quartz>> QSP alt.
		<<Alt: 77.95 - 83.7 Moderate - 5-20% (Bt 20-50%) Chlorite>>
		<<Alt: 77.95 - 83.7 Weak - 2-5% (Bt 10-20%) Epidote>>
		<<Alt: 77.95 - 83.7 Moderate - 5-20% (Bt 20-50%) Sericite>>
		<<Alt: 83.7 - 88.5 Intense - >50% (Bt 100%) Sericite>> Pervasive ser
		<<Alt: 83.7 - 88.5 Moderate - 5-20% (Bt 20-50%) Quartz>> QSP alt.
		<<Alt: 88.5 - 91.6 Moderate - 5-20% (Bt 20-50%) Epidote>> Phyllic/IPRO package
		<<Alt: 88.5 - 91.6 Weak - 2-5% (Bt 10-20%) Sericite>>
		<<Alt: 88.5 - 91.6 Strong - 20-50% (Bt 50-70%) Chlorite>>
		<<Alt: 91.6 - 98.5 Weak - 2-5% (Bt 10-20%) Chlorite>>
		<<Alt: 91.6 - 98.5 Intense - >50% (Bt 100%) Sericite>> QSP
		<<Alt: 91.6 - 98.5 Moderate - 5-20% (Bt 20-50%) Quartz>> QSP
		<<Alt: 98.5 - 138.1 Moderate - 5-20% (Bt 20-50%) Quartz>> QSP alt.
		<<Alt: 98.5 - 138.1 Intense - >50% (Bt 100%) Sericite>>
		<<Alt: 98.5 - 138.1 Moderate - 5-20% (Bt 20-50%) Chlorite>> Associated with vein selvage/halo assemblages and patchy throughout interval
		<<Alt: 138.1 - 142.8 Moderate - 5-20% (Bt 20-50%) Chlorite>> Associated with "fresh" quartz diorite
		<<Alt: 138.1 - 142.8 Moderate - 5-20% (Bt 20-50%) Epidote>> Associated with "fresh" quartz diorite
		<<Alt: 138.1 - 142.8 Moderate - 5-20% (Bt 20-50%) Sericite>> Associated with "fresh" quartz diorite

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
61.00	63.00	2.00	3384341	0.013	0.5	91.5	12	7.2
63.00	65.00	2.00	3384342	0.009	0.3	61.3	6	4.4
65.00	67.00	2.00	3384343	0.008	0.3	89.2	8	4.2
67.00	68.00	1.00	3384344	0.01	0.3	102.7	8	3.9
68.00	69.00	1.00	3384345	0.007	0.3	87.9	5	3.9
69.00	70.10	1.10	3384346	0.012	0.5	73.3	14	6.3
70.10	71.50	1.40	3384347	0.008	0.1	61.6	5	4.8
71.50	73.00	1.50	3384348	0.021	0.9	139.8	33	3.2
73.00	75.00	2.00	3384349	0.107	1.4	160.7	92	3.3
75.00	76.95	1.95	3384351	0.029	0.4	60.4	34	5.1
76.95	78.00	1.05	3384352	0.011	0.2	76.1	12	2.1
78.00	80.00	2.00	3384353	0.007	0.2	57.1	8	44
80.00	82.00	2.00	3384354	0.011	0.2	37.8	20	8.4
82.00	83.70	1.70	3384355	0.053	1.6	76.1	27	3.4
83.70	85.00	1.30	3384356	0.011	0.3	88.6	24	11.8
85.00	87.00	2.00	3384357	0.013	0.2	21	25	14.6
87.00	89.00	2.00	3384358	0.012	0.4	119.1	13	4
89.00	90.00	1.00	3384359	0.016	0.3	101.8	19	3.1
90.00	91.60	1.60	3384361	0.017	0.5	80.5	21	3.9
91.60	93.00	1.40	3384362	0.015	0.6	103.8	22	6.6
93.00	95.00	2.00	3384363	0.014	0.6	161.9	15	11.4
95.00	97.00	2.00	3384364	0.009	0.4	126.6	9	3.3
97.00	98.50	1.50	3384365	0.008	0.3	104.5	8	5.4
98.50	100.00	1.50	3384366	0.016	0.6	133.7	17	5.8
100.00	102.00	2.00	3384367	0.027	1.1	164.3	32	4.6
102.00	103.00	1.00	3384368	0.006	0.3	97.4	11	3.1
103.00	104.00	1.00	3384369	0.01	0.1	72.5	16	27.2
104.00	105.10	1.10	3384370	0.051	1.2	99.3	41	9.6
105.10	107.00	1.90	3384371	0.021	0.8	114.3	30	9.1
107.00	109.00	2.00	3384372	0.016	0.5	40.4	42	10.1
109.00	111.00	2.00	3384373	0.022	2	145.4	30	5.7
111.00	112.00	1.00	3384374	0.016	0.5	193	28	8.8

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
		<<Alt: 142.8 - 163.3 Moderate - 5-20% (Bt 20-50%) Quartz>>	112.00	113.20	1.20	3384375	0.013	0.6	103.3	21	50.1
		<<Alt: 142.8 - 163.3 Weak - 2-5% (Bt 10-20%) Chlorite>>	113.20	115.00	1.80	3384376	0.009	0.6	154.5	16	5.2
		<<Alt: 142.8 - 163.3 Weak - 2-5% (Bt 10-20%) Epidote>> Small narrow intervals fresh QDR	115.00	117.00	2.00	3384377	0.012	0.4	86.8	12	7.1
		<<Alt: 142.8 - 163.3 Intense - >50% (Bt 100%) Sericite>>	117.00	119.00	2.00	3384378	0.02	0.5	73.8	20	4.6
		<<Alt: 163.3 - 165.45 Moderate - 5-20% (Bt 20-50%) Sericite>> Moderate sericite after plag	119.00	121.00	2.00	3384379	0.089	2.8	172.6	88	14.2
		<<Alt: 163.3 - 165.45 Moderate - 5-20% (Bt 20-50%) Epidote>> Epidote in fresh QDR	121.00	123.00	2.00	3384381	0.019	1.1	131.2	29	38.9
		<<Alt: 163.3 - 165.45 Moderate - 5-20% (Bt 20-50%) Calcite>>	123.00	125.00	2.00	3384382	0.02	1.4	105.8	38	9.4
		<<Alt: 163.3 - 165.45 Moderate - 5-20% (Bt 20-50%) Chlorite>> Moderate alt. of mafic mineral sites	125.00	127.00	2.00	3384383	0.023	1.4	130.6	43	15.7
		<<Alt: 165.45 - 197.5 Moderate - 5-20% (Bt 20-50%) Quartz>>	127.00	129.00	2.00	3384384	0.02	0.6	80.6	33	9.9
		<<Alt: 165.45 - 197.5 Weak - 2-5% (Bt 10-20%) Calcite>> Finely disseminated	129.00	131.00	2.00	3384385	0.012	0.5	103.9	15	16.3
		<<Alt: 165.45 - 197.5 Weak - 2-5% (Bt 10-20%) Chlorite>> Local patches and a component of late vein halos, T vein selvages	131.00	133.00	2.00	3384386	0.065	3	132.7	83	4.5
		<<Alt: 165.45 - 197.5 Intense - >50% (Bt 100%) Sericite>> strong to complete replacement of plagioclase, vein halos show complete replacement	133.00	135.00	2.00	3384387	0.201	1.3	131.5	204	13.2
		<<Alt: 197.5 - 218.6 Moderate - 5-20% (Bt 20-50%) Sericite>>	135.00	136.40	1.40	3384388	0.05	1.2	110.4	111	4.8
		<<Alt: 197.5 - 218.6 Moderate - 5-20% (Bt 20-50%) Epidote>>	136.40	138.10	1.70	3384389	0.053	1.3	92.3	76	7.9
		<<Alt: 197.5 - 218.6 Moderate - 5-20% (Bt 20-50%) Chlorite>>	138.10	140.00	1.90	3384391	0.017	0.6	89.4	17	3.2
		<<Alt: 218.6 - 229.9 Strong - 20-50% (Bt 50-70%) Chlorite>> Large proportion of mafic minerals are chloritized	140.00	141.00	1.00	3384392	0.027	0.5	62.4	45	3.1
		<<Alt: 218.6 - 229.9 Strong - 20-50% (Bt 50-70%) Sericite>> Pervasive to patchy alt. of plag, some crystals completely replaced while other only partially	141.00	142.90	1.90	3384393	0.011	0.4	88.7	18	6
		<<Alt: 218.6 - 229.9 Moderate - 5-20% (Bt 20-50%) Quartz>>	142.90	144.00	1.10	3384394	0.079	0.6	59.2	84	2.5
		<<Alt: 229.9 - 234.9 Moderate - 5-20% (Bt 20-50%) Epidote>>	144.00	145.00	1.00	3384395	0.028	0.7	110.6	24	4.1
		<<Alt: 229.9 - 234.9 Moderate - 5-20% (Bt 20-50%) Sericite>>	145.00	147.00	2.00	3384396	0.02	0.8	139.1	18	8.3
		<<Alt: 229.9 - 243.7 Moderate - 5-20% (Bt 20-50%) Chlorite>>	147.00	149.00	2.00	3384397	0.025	1.1	117.2	14	6.8
		<<Alt: 234.9 - 238.25 Strong - 20-50% (Bt 50-70%) Sericite>>	149.00	151.00	2.00	3384398	0.016	1.3	118.3	42	4.2
		<<Alt: 234.9 - 238.25 Moderate - 5-20% (Bt 20-50%) Quartz>>	151.00	153.00	2.00	3384399	0.017	0.6	95.5	37	3.2
		<<Alt: 238.25 - 243.7 Moderate - 5-20% (Bt 20-50%) Epidote>>	153.00	155.00	2.00	3384401	0.03	0.5	85.4	24	2.9
		<<Alt: 238.25 - 243.7 Moderate - 5-20% (Bt 20-50%) Sericite>>	155.00	157.00	2.00	3384402	0.025	0.6	73.2	33	4.1
		<<Alt: 243.7 - 255.5 Weak - 2-5% (Bt 10-20%) Chlorite>>	157.00	159.00	2.00	3384403	0.013	0.5	79	16	2.8
		<<Alt: 243.7 - 255.5 Moderate - 5-20% (Bt 20-50%) Quartz>>	159.00	161.00	2.00	3384404	0.016	2	145	14	5.8
		<<Alt: 243.7 - 270 Moderate - 5-20% (Bt 20-50%) Calcite>> Pervasive	161.00	162.00	1.00	3384405	0.045	1.9	101.3	22	3.2
		<<Alt: 243.7 - 277.6 Intense - >50% (Bt 100%) Sericite>> Intense and pervasive, a few partially replaced zones	162.00	163.30	1.30	3384406	0.047	3	446.8	26	4.1
		<<Vein: 5 - 38.888 0.5% Pyrite 45 deg. >> Random fracture veins, material is oxidized, possibly py, weak to mod chl in halo with Chl	163.30	164.35	1.05	3384407	0.007	0.3	100.5	9	3
		<<Vein: 50.35 - 51 70% Quartz 45 deg. >> Qz-Py vein with chl selvages and sericite halo, +- AB	164.35	165.45	1.10	3384408	0.03	0.7	81.3	29	1.9

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
		<<Vein: 51 - 58.1 0.2% Quartz 45 deg. >> QZ-PY+-AB with sericite halo	165.45	167.00	1.55	3384409	0.022	1.1	129.4	27	2.5
		<<Vein: 58.1 - 58.95 50% Quartz 45 deg. >> QZ-PY-CA with BT(?) CL selvages and sericite halos	167.00	169.00	2.00	3384410	0.022	1.1	132.4	39	3.7
		<<Vein: 58.95 - 65.65 0.1% Quartz 45 deg. >> QZ-PY+-AB, +-Chl selvage, sericite halo	169.00	171.00	2.00	3384411	0.016	1	150.8	21	3.9
		<<Vein: 65.65 - 76.95 0.1% Quartz 45 deg. >> QZ-PY+-AB, +-Chl selvage, sericite halo	171.00	172.35	1.35	3384412	0.026	1.3	136.1	32	1.5
		<<Vein: 83.7 - 88.5 0.2% Quartz 45 deg. >> QZ-PY+-AB, +-Chl selvage, sericite halo	172.35	173.30	0.95	3384413	0.081	2.8	53.5	70	8.2
		<<Vein: 88.5 - 91.6 0.1% Pyrite 35 deg. >> Py-Qz with Cl selvage	173.30	175.00	1.70	3384414	0.01	0.5	121.5	13	1.6
		<<Vein: 98.5 - 104.65 3% Pyrite 45 deg. >> Py veins with quartz halo, vein density and alt. intensity appear positively corralated	175.00	176.00	1.00	3384415	0.015	0.9	130.5	18	5.5
		<<Vein: 104.65 - 105.1 80% Quartz 30 deg. >> Deformed sheeted qtz-py vein, up to 20% py, ribbons of CL+Ca, quartz is smoky grey	176.00	177.00	1.00	3384416	0.029	1.3	11.6	8	14.1
		<<Vein: 105.1 - 109.6 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	177.00	178.10	1.10	3384417	0.031	0.7	14.6	40	5.3
		<<Vein: 105.1 - 134.2 2% Pyrite 40 deg. >> planar py with quartz halo+-CL, tend to occur in small stockworks locally, quartz halos possibly host to unknown black mineral	178.10	180.00	1.90	3384418	0.012	0.5	49.4	15	2.7
		<<Vein: 109.6 - 110.15 60% Quartz 30 deg. >> Qtz-Py with Chl-sericite halos	180.00	181.00	1.00	3384419	0.021	0.9	60.4	14	2.1
		<<Vein: 110.15 - 119.3 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	181.00	182.40	1.40	3384421	0.014	0.7	105.2	21	2.2
		<<Vein: 119.3 - 119.7 70% Quartz 40 deg. >> Quartz-py-chl-ca with sericite halo, appears highly disorganized/dismembered	182.40	184.00	1.60	3384422	0.011	0.5	107.9	18	4.8
		<<Vein: 119.7 - 121.6 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	184.00	186.00	2.00	3384423	0.018	1.5	151.2	19	2.5
		<<Vein: 121.6 - 121.9 50% Quartz 30 deg. >> Quartz veins seperated by thin seams of Chl-Ca and Py	186.00	188.00	2.00	3384424	0.018	1.8	161.6	14	2.2
		<<Vein: 121.9 - 122.15 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	188.00	190.00	2.00	3384425	0.014	0.7	78.1	19	3.7
		<<Vein: 122.15 - 122.3 50% Quartz 35 deg. >> Qz-py+-Ca with Chl selvages and sericite halos	190.00	192.00	2.00	3384426	0.012	0.8	102.4	19	1.6
		<<Vein: 122.3 - 130.45 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	192.00	193.90	1.90	3384427	0.009	0.5	108.5	12	1.6
		<<Vein: 130.45 - 130.6 50% Quartz 25 deg. >> QZ-PY-CA with diss and selvage CHL, unknown black mineral occurrencwe	193.90	195.00	1.10	3384428	0.013	0.8	126.3	21	3.2
		<<Vein: 130.6 - 133.05 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	195.00	196.45	1.45	3384429	0.008	0.7	83.3	11	2.6
		<<Vein: 133.05 - 133.4 15% Quartz 15 deg. >> Qz veins with Red Carbonate-chl-py selvages, sericitic halos	196.45	197.50	1.05	3384431	0.018	1.6	137.2	19	2.2
		<<Vein: 133.4 - 134.2 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	197.50	199.00	1.50	3384432	0.009	0.7	126.8	10	3.8
		<<Vein: 134.2 - 135.5 25% Quartz 15 deg. >> QZ-Py with chl-red carb. Selvages, seems to crosscut Py-QZ veins with unknown black mineral (CC?)	199.00	201.00	2.00	3384433	0.008	0.5	188.4	5	4.3
		<<Vein: 134.2 - 135.5 5% Pyrite 45 deg. >> Py vein with large qtz halos, quartz is smoky and has small patches of unknown blackmineral	201.00	203.00	2.00	3384434	0.009	0.5	104.4	9	2

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
		<<Vein: 135.5 - 137.1 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	203.00	205.00	2.00	3384435	-0.005	0.2	61.7	5	3.2
		<<Vein: 135.5 - 138.1 2% Pyrite 40 deg. >> planar py with quartz halo+-CL, tend to occur in small stockworks locally, quartz halos possibly host to unknown black mineral	205.00	207.00	2.00	3384436	0.007	0.4	86.7	12	2.6
		<<Vein: 137.1 - 137.75 20% Quartz 30 deg. >> Qtz+red carbonate+Py, seems to truncate earlier py-qz veinlets	207.00	209.00	2.00	3384437	0.006	0.4	100.2	9	2.5
		<<Vein: 137.75 - 138.1 1% Quartz 40 deg. >> Quartz with Ca and diss. Py, possibly vfg unknown metallic mineral in selvages	209.00	211.00	2.00	3384438	-0.005	0.2	59.9	5	1.7
		<<Vein: 145.9 - 146.1 30% Quartz 20 deg. >> Qz with blebby Py, selvage chlorite calcite and sericite halo	211.00	213.00	2.00	3384439	0.01	0.7	108.4	6	3.7
		<<Vein: 147 - 147.11 30% Quartz 20 deg. >>	213.00	214.60	1.60	3384441	0.018	1	106.6	9	3.2
		<<Vein: 155 - 163.3 0.5% Pyrite 25 deg. >> Py with quartz halo	214.60	216.00	1.40	3384442	0.014	1.2	91.6	13	2.7
		<<Vein: 155 - 163.3 0.5% Quartz 25 deg. >> QZ-PY+-CA+-CH, narrow hairline veins with small (1cm) phyllic halos	216.00	218.00	2.00	3384443	0.009	0.5	175.1	11	3.6
		<<Vein: 163.3 - 165.45 0.1% Pyrite 45 deg. >>	218.00	219.70	1.70	3384444	0.036	1.6	76.1	12	3
		<<Vein: 163.3 - 168.4 1% Calcium carbonate/Carbonate 40 deg. >> Purple/red carbonate+py+-quartz halo	219.70	220.60	0.90	3384445	0.028	2.6	333.8	15	26.6
		<<Vein: 165.45 - 182.4 2% Pyrite 45 deg. >> Hairline Py centres with quartz halos/envelopes, chlorite selvages, phyliic halo	220.60	222.00	1.40	3384446	0.01	0.7	119.6	11	3
		<<Vein: 172.55 - 173.3 60% Quartz 35 deg. >> Quartz flooded zone with sericite, 1 cm Py seams/veinlets within zone	222.00	224.00	2.00	3384447	0.014	0.6	59.5	15	3
		<<Vein: 175.8 - 178.1 70% Quartz 45 deg. >> Quartz flooded zone with large blebs and semi-massive seams/veins of pyrite within, crosscut by a couple carbonate-chl vein,	224.00	226.00	2.00	3384448	0.009	0.5	77.5	10	4.3
		<<Vein: 182.4 - 184 0.1% Pyrite 30 deg. >> fresh quartz diorite host	226.00	228.00	2.00	3384449	0.006	0.7	95.1	7	5.5
		<<Vein: 184 - 196 0.1% Quartz 45 deg. >> Milky quartz with chl selvage, weak sericite halo	228.00	229.90	1.90	3384450	0.007	0.6	77.7	10	7.2
		<<Vein: 184 - 197.5 3% Pyrite 55 deg. >> Py+qtz with chl selvage, sericite halo, locally stockworked	229.90	231.00	1.10	3384451	0.005	0.3	70.7	6	12.7
		<<Vein: 196 - 196.45 80% Quartz 40 deg. >> QZ-PY with seams of chlorite-calcite, strong sericite halo	231.00	233.00	2.00	3384452	-0.005	0.2	66.6	6	8.4
		<<Vein: 196.45 - 197.5 0.1% Quartz 45 deg. >> Milky quartz with chl selvage, weak sericite halo	233.00	234.00	1.00	3384453	0.005	0.2	39.4	5	9.3
		<<Vein: 197.5 - 214.6 0.5% Pyrite 45 deg. >> narrow Py veinlets+-Carb with chl selvages and weak sericite halos	234.00	236.00	2.00	3384454	0.019	0.6	108.3	19	6.8
		<<Vein: 213 - 217.999 0.1% Chlorite 25 deg. >> Green black chlorite with euhedral py, no halo	236.00	238.00	2.00	3384455	0.021	1.7	216.9	19	9.1
		<<Vein: 214.6 - 215.7 50% Quartz 40 deg. >> grey vuggy quartz veins with blebby py, strong sericite halo	238.00	240.00	2.00	3384456	0.006	0.4	111.5	6	1.3
		<<Vein: 219.7 - 220.6 50% Quartz 15 deg. >> Quartz-pyrite-chlorite-calcite with a strong sericite halo	240.00	242.00	2.00	3384457	0.011	0.9	201.9	11	2.4
		<<Vein: 222 - 229.9 0.1% Pyrite 40 deg. >> Py+-Ca+-Qz, poorly developed, less quartz and more carbonate involvement	242.00	244.00	2.00	3384458	0.013	0.9	157.3	11	4.1
		<<Vein: 236 - 236.7 5% Pyrite 15 deg. >> Ribboned purple carbonate-pyrite veins	244.00	246.00	2.00	3384459	0.016	1.3	217.3	12	3.6
		<<Vein: 244 - 255.5 2% Calcium carbonate/Carbonate 50 deg. >> Late carbonate vein density increasing	246.00	247.00	1.00	3384461	0.017	1.2	111.1	16	8.8
		<<Vein: 247.95 - 248 20% Massive Sulphide/Sulphides undifferentiated 60 deg. >> Unidentified sulphide+pyrite--> check assays in this interval for sulphosalt metals	247.00	248.00	1.00	3384462	0.017	1.8	218.8	19	2.3
		<<Vein: 253.75 - 253.8 10% Massive Sulphide/Sulphides undifferentiated 60 deg. >> Unidentified sulphide+pyrite--> check assays in this interval for sulphosalt metals	248.00	250.00	2.00	3384463	0.012	1.2	161.4	20	1.6
		<<Struc: 16.3 - 16.6 Intense - >50% (Bt 100%) Fault>> Oxidized clay gouge	250.00	252.00	2.00	3384464	0.012	1.2	144.6	20	1.4

From (m)	To (m)	Rocktype & Description

<<Struc: 20.1 - 21.1 Intense - >50% (Bt 100%) Fault>> Oxidized clay gouge

<<Struc: 25.8 - 25.9 Strong - 20-50% (Bt 50-70%) Fault>> Clay gouge

<<Struc: 38 - 43.15 Strong - 20-50% (Bt 50-70%) Fault Zone>> Large stretches of clay gouge with intermttent rubble zones

<<Struc: 55 - 57 Moderate - 5-20% (Bt 20-50%) Fault>> Mostly rubble with some minor gouge

<<Struc: 62.15 - 64 Moderate - 5-20% (Bt 20-50%) Fault>> Mostly rubble with minor clay gouge

<<Struc: 160 - 163 Strong - 20-50% (Bt 50-70%) Fault Zone>> Total loss of water pressure while drilling potential through this interval

<<Struc: 177.5 - 177.8 Moderate - 5-20% (Bt 20-50%) Fault>> rubble zone

<<Struc: 184.25 - 184.35 Intense - >50% (Bt 100%) Fault>> Gouge with fragments

255.50 257.70 BRXF Breccia Fault

255.5 - 257.7: Calcite-pyrite cement hosting angular fragments of surrounding altered QDR, rubble fault in middle of unit with preserved texture on margins

<<Min: 255.5 - 257.7 7% Pyrite (FeS2)>> Veined also

<<Alt: 255.5 - 257.7 Strong - 20-50% (Bt 50-70%) Chlorite>> Fault crackle breccia zone, sericite-chlorite altered country rock clasts in calcite-pyrite cement

<<Vein: 255.5 - 257.7 10% Calcium carbonate/Carbonate 45 deg. >> Fault/crackle breccia with carbonate cement, late carbonate veins as well

<<Struc: 256 - 257 Intense - >50% (Bt 100%) Fault>> Lots of gouge with fragments

257.70 271.80 QDR Quartz diorite blue MG

257.7 - 271.8: moderate to strong QSP, late Calcite vein density is 3-5%, quartz-pyrite veins are rare

<<Min: 257.7 - 277.6 5% Pyrite (FeS2)>> Veined also

<<Alt: 257.7 - 277.6 Moderate - 5-20% (Bt 20-50%) Chlorite>>

<<Vein: 257.7 - 263.55 5% Pyrite 20 deg. >> Py-Qtz+-Albite, carbonate selvages

<<Vein: 263.55 - 275.9 4% Calcium carbonate/Carbonate 50 deg. >> Massive Ca veins with pink carbonate selvage/halos, +-Py+-Qtz+-Cl

271.80 272.20 BRXH Hydrothermal Breccia

271.8 - 272.2: Intensely and pervasively altered clasts of quartz diorite, clay-serciite is total

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
252.00	254.00	2.00	3384465	0.026	1.7	166.1	38	3.2
254.00	255.50	1.50	3384466	0.019	1.6	157.1	22	2.7
255.50	256.60	1.10	3384467	0.026	1	145.5	21	6.1
256.60	257.70	1.10	3384468	0.023	1.4	98.8	12	6.7
257.70	259.00	1.30	3384469	0.008	0.5	121.1	11	3.7
259.00	261.00	2.00	3384471	0.01	0.7	120.8	7	6.8
261.00	263.00	2.00	3384472	0.018	2.3	1031.4	9	5.1
263.00	265.00	2.00	3384473	0.009	0.6	38.3	7	2.3
265.00	267.00	2.00	3384474	0.015	1.9	269.9	13	2.9
267.00	269.00	2.00	3384475	0.021	1.6	158.5	20	7.1
269.00	271.00	2.00	3384476	0.012	1.3	160.7	17	5
271.00	273.00	2.00	3384477	0.015	1.8	418.1	21	7.1

From (m)	To (m)	Rocktype & Description

272.20 358.00 QDR Quartz diorite blue

272.2 - 358: moderate to strong QSP, late Calcite vein density is 3-5%, quartz-pyrite veins are rare, zones of calcite vein density picking up downhole, T veins are extremely rare

<<Min: 277.6 - 285.5 2% Pyrite (FeS2)>> Veined also

<<Min: 285.5 - 295.55 6% Pyrite (FeS2)>> Veined also

<<Min: 295.55 - 299.6 2% Pyrite (FeS2)>> Veined also

<<Min: 299.6 - 304.85 6% Pyrite (FeS2)>> Veined also

<<Min: 304.85 - 307.5 2% Pyrite (FeS2)>> Veined also

<<Min: 307.5 - 311.3 6% Pyrite (FeS2)>> CB breccia vein

<<Min: 311.3 - 358 3% Pyrite (FeS2)>> Veined also, vein halo's see uptick in Py due to QSP alt.

<<Alt: 277.6 - 285.1 Moderate - 5-20% (Bt 20-50%) Epidote>>

<<Alt: 277.6 - 285.1 Moderate - 5-20% (Bt 20-50%) Sericite>>

<<Alt: 277.6 - 285.1 Weak - 2-5% (Bt 10-20%) Chlorite>>

<<Alt: 285.1 - 311.3 Moderate - 5-20% (Bt 20-50%) Calcite>>

<<Alt: 285.1 - 311.3 Moderate - 5-20% (Bt 20-50%) Chlorite>>

<<Alt: 285.1 - 311.3 Strong - 20-50% (Bt 50-70%) Sericite>> Strong sericite and 15% CB veining, 6% py throughout with mod CB background, QSP zone, a few non-altered zones of quartz-diorite <4 m wide

<<Alt: 311.3 - 336.35 Weak - 2-5% (Bt 10-20%) Chlorite>>

<<Alt: 311.3 - 336.35 Moderate - 5-20% (Bt 20-50%) Epidote>>

<<Alt: 311.3 - 336.35 Weak - 2-5% (Bt 10-20%) Sericite>> Patchy sericite alt of plag

<<Alt: 336.35 - 337.95 Strong - 20-50% (Bt 50-70%) Sericite>> QZ-PY-CB vein with large QSP halo

<<Alt: 336.35 - 358 Moderate - 5-20% (Bt 20-50%) Chlorite>> Selvage mineral for veins and veinlets within interval

<<Alt: 337.95 - 343.8 Weak - 2-5% (Bt 10-20%) Sericite>>

<<Alt: 337.95 - 343.8 Moderate - 5-20% (Bt 20-50%) Epidote>>

<<Alt: 343.8 - 344.7 Moderate - 5-20% (Bt 20-50%) Calcite>> Calcite stringers veinlets and background diss.

<<Alt: 343.8 - 344.7 Strong - 20-50% (Bt 50-70%) Sericite>> moderate QSP associated with CB+QZ+CL+PY veining

<<Alt: 344.7 - 348.5 Moderate - 5-20% (Bt 20-50%) Epidote>>

<<Alt: 344.7 - 348.5 Weak - 2-5% (Bt 10-20%) Sericite>> Patchy partial replacement

<<Alt: 348.5 - 351.3 Moderate - 5-20% (Bt 20-50%) Calcite>> Veined and as background diss.

<<Alt: 348.5 - 351.3 Strong - 20-50% (Bt 50-70%) Sericite>> Moderate to strong phyllic zone, partial to complete plag replacement in zones

<<Alt: 351.3 - 358 Weak - 2-5% (Bt 10-20%) Sericite>>

<<Alt: 351.3 - 358 Moderate - 5-20% (Bt 20-50%) Epidote>>

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
273.00	275.00	2.00	3384478	0.016	1.5	232.6	29	11.3
275.00	277.00	2.00	3384479	0.013	1.1	202.3	17	4.9
277.00	278.00	1.00	3384481	0.011	0.4	124.3	11	4.4
278.00	279.10	1.10	3384482	0.006	0.2	96.4	4	5.3
279.10	280.30	1.20	3384483	0.041	2.1	161.4	19	2.2
280.30	282.00	1.70	3384484	0.024	0.9	113.6	25	6.8
282.00	284.00	2.00	3384485	0.017	1	138.4	28	17.7
284.00	285.10	1.10	3384486	0.015	0.6	97.6	44	3.8
285.10	287.00	1.90	3384487	0.025	2.8	112.7	46	2.8
287.00	289.00	2.00	3384488	0.019	1.4	126.3	35	7.2
289.00	291.00	2.00	3384489	0.02	1.1	88.7	56	4
291.00	293.00	2.00	3384490	0.019	1	62.4	30	2.5
293.00	294.00	1.00	3384491	0.029	1.6	82.8	24	2.5
294.00	295.55	1.55	3384492	0.033	1.7	107.3	29	7.1
295.55	297.00	1.45	3384493	0.013	0.5	106.5	11	4.8
297.00	298.00	1.00	3384494	0.014	0.5	66.2	11	6.8
298.00	299.60	1.60	3384495	0.01	0.9	154.6	16	3.4
299.60	300.65	1.05	3384496	0.01	0.6	102.9	18	4.4
300.65	302.00	1.35	3384497	0.012	0.7	102.9	19	3.1
302.00	304.00	2.00	3384498	0.012	0.8	101.2	18	2.6
304.00	305.00	1.00	3384499	0.017	0.5	68.9	23	5.4
305.00	306.00	1.00	3384501	0.022	0.5	100	18	1.3
306.00	307.50	1.50	3384502	0.012	0.5	119.8	14	1.7
307.50	309.50	2.00	3384503	0.028	1.4	88.2	38	1.4
309.50	311.30	1.80	3384504	0.021	0.6	34.8	25	4.9
311.30	313.30	2.00	3384505	0.006	0.1	25.6	9	2.2
313.30	315.20	1.90	3384506	0.009	0.3	70.5	11	2.1
315.20	316.20	1.00	3384507	0.008	0.7	69.2	14	1.3
316.20	318.00	1.80	3384508	0.006	0.3	83.2	8	1.3

From (m)	To (m)	Rocktype & Description
		<<Vein: 279.1 - 280.3 50% Calcium carbonate/Carbonate 60 deg. >> Large vuggy cb veins with euhedral py and Cl, intense clay-sericite selvages/halo, clay altered country rock frags in vein, L vein
		<<Vein: 280.3 - 285.1 0.1% Quartz 40 deg. >> QZ-PY-CB
		<<Vein: 285.1 - 293.4 15% Calcium carbonate/Carbonate 45 deg. >> Mostly narrow fracture veins with irregular walls, a few larger veins with developed vugs and open space calcite growth, sericite-clay halos are well developed, some veins contain clay altered clasts country rock
		<<Vein: 293.4 - 294 40% Calcium carbonate/Carbonate 50 deg. >> Vuggy CB with quartz, clay altered frags in vein
		<<Vein: 294 - 299.6 3% Calcium carbonate/Carbonate 40 deg. >> CB+PY+-quartz
		<<Vein: 299.6 - 304.85 10% Calcium carbonate/Carbonate 45 deg. >> CB+PY+-QZ+-CL
		<<Vein: 309.5 - 311.3 60% Calcium carbonate/Carbonate 35 deg. >> Large stockwork of vuggy carbonate breccia veins, clay altered frags of country rock, L veins
		<<Vein: 313 - 313.3 40% Quartz 35 deg. >> QZ+Py+-Ca+-Chl+-Bt
		<<Vein: 315.2 - 316.2 20% Calcium carbonate/Carbonate 45 deg. >> CRB+sericite/clay in faulted breccia vein, 5%py
		<<Vein: 328.6 - 328.75 30% Quartz 45 deg. >> Sheeted quartz-pyrite+ CB(?)
		<<Vein: 329.95 - 334.3 2% Calcium carbonate/Carbonate 45 deg. >> hairline CB fracture veinlets, +-Py+-CL+-QZ, no halo
		<<Vein: 334.3 - 334.6 40% Calcium carbonate/Carbonate 30 deg. >> CB+QZ+sericite-clay
		<<Vein: 334.6 - 344.1 2% Calcium carbonate/Carbonate 45 deg. >> hairline CB fracture veinlets, +-Py+-CL+-QZ, no halo
		<<Vein: 336.7 - 337.05 50% Quartz 45 deg. >> QZ+PY+CB, large moderate to strong sericite-clay halo
		<<Vein: 341.15 - 341.3 50% Quartz 50 deg. >> QZ+CB+PY, selvage chlorite and QSP halo
		<<Vein: 344.1 - 344.25 40% Calcium carbonate/Carbonate 45 deg. >>
		<<Vein: 344.25 - 358 2% Calcium carbonate/Carbonate 45 deg. >> hairline CB fracture veinlets, +-Py+-CL+-QZ, no halo
		<<Vein: 350.8 - 350.85 40% Pyrite 55 deg. >> PY-CB, CL halo
		<<Vein: 354.85 - 354.9 20% Pyrite 45 deg. >> PY-CB-CL
		<<Vein: 356.65 - 356.7 40% Pyrite 45 deg. >> PY-CB with sericite-clay halo
		<<Struc: 315.3 - 315.45 Strong - 20-50% (Bt 50-70%) Fault>> Fault gouge in CB breccia vein

From (m)	To (m)	Width	Sample	Au ppm	Ag ppm	Cu ppm	As ppm	Mo ppm
318.00	320.00	2.00	3384509	0.006	0.3	102.9	9	2.2
320.00	322.00	2.00	3384511	0.008	0.4	68.6	16	3.6
322.00	324.00	2.00	3384512	0.006	0.2	71.5	15	1.7
324.00	326.00	2.00	3384513	0.008	0.4	68.2	14	2.7
326.00	328.00	2.00	3384514	0.007	0.4	83.4	10	1.9
328.00	330.00	2.00	3384515	0.011	0.5	86.6	15	5.5
330.00	332.00	2.00	3384516	0.007	0.2	44.2	9	7.3
332.00	334.00	2.00	3384517	0.01	0.5	57	13	3.4
334.00	336.00	2.00	3384518	0.008	0.5	44.5	19	4.1
336.00	338.00	2.00	3384519	0.01	0.7	33	22	11.3
338.00	340.00	2.00	3384521	0.011	0.4	53	25	2.1
340.00	341.00	1.00	3384522	0.023	28.9	199.2	40	4.9
341.00	343.00	2.00	3384523	0.01	0.6	61.1	15	4.5
343.00	343.80	0.80	3384524	0.007	0.7	49.5	12	7.3
343.80	344.70	0.90	3384525	0.014	2.4	20.6	19	5.5
344.70	346.00	1.30	3384526	0.012	1.7	195.3	11	4.8
346.00	347.00	1.00	3384527	0.008	0.3	83.6	6	3.7
347.00	348.50	1.50	3384528	0.007	0.3	136.1	8	2.3
348.50	350.00	1.50	3384529	0.008	0.6	96.4	11	4.7
350.00	351.30	1.30	3384530	0.007	0.4	103.4	12	2.2
351.30	353.00	1.70	3384531	0.005	0.2	64.9	8	2
353.00	354.00	1.00	3384532	0.007	0.5	55.2	11	25.3
354.00	356.00	2.00	3384533	0.008	0.2	71.1	8	1.7
356.00	358.00	2.00	3384534	0.008	0.7	86.4	11	10.5

End of Hole @ 358

Appendix F: Drill Core Analytical Certificates

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Submitted By: Paul Jago
Receiving Lab: Canada-Vancouver
Received: August 08, 2019
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

CLIENT JOB INFORMATION

Project: Berg
Shipment ID: BERG_01
P.O. Number
Number of Samples: 196

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	189	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	2	Split samples by riffle splitter			VAN
PUL85	2	Pulverize to 85% passing 200 mesh		Completed	VAN
SLBHP	5	Sort, label and box pulps			VAN
FA430	196	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	196	Environmental disposal charge-Fire assay lead waste			VAN
MA200	196	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	196	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: Equity Exploration Consultants Ltd.
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8
Canada

CC: Geoff McMaster
Steve Bultitude
Dan Lui
John Bligh

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384001	Drill Core	3.41	0.008	6.0	423.4	6.4	23	0.2	11.7	15.1	262	3.67	2	5.1	9.0	446	<0.1	0.1	0.3	99	1.92
3384002	Drill Core	1.78	0.005	5.2	580.3	8.2	31	0.2	12.1	17.9	309	4.47	2	5.5	11.0	387	<0.1	0.1	0.4	96	1.71
3384003	Drill Core	2.58	0.012	8.8	1683.6	6.8	19	2.2	16.1	24.6	187	5.88	5	4.5	9.0	198	<0.1	0.3	0.6	94	0.96
3384004	Drill Core	2.22	0.009	13.4	957.6	7.3	26	0.2	14.5	20.6	305	5.09	2	4.0	8.9	254	<0.1	0.2	0.3	95	1.14
3384005	Drill Core	0.81	0.005	28.8	305.7	7.0	26	<0.1	11.7	9.2	283	3.45	2	4.1	9.2	449	<0.1	0.1	<0.1	99	1.87
3384006	Drill Core	3.50	0.006	20.0	500.6	7.2	29	0.1	13.7	15.0	323	4.37	2	5.8	11.0	452	<0.1	<0.1	0.2	101	2.06
3384007	Drill Core	2.67	0.006	2.4	398.2	6.7	23	0.1	10.9	11.7	237	3.48	2	5.5	10.6	390	<0.1	0.1	0.1	90	1.78
3384008	Drill Core	3.53	0.008	9.1	710.3	6.1	19	0.2	11.0	12.6	251	5.13	2	5.0	9.6	186	<0.1	0.2	0.3	100	0.86
3384009	Drill Core	3.74	0.008	5.5	1070.6	5.2	17	0.2	11.9	14.5	207	4.94	1	7.1	9.4	126	<0.1	0.2	0.3	102	0.75
3384010	Drill Core	1.64	0.009	4.6	658.7	7.4	22	0.2	11.6	9.7	237	3.52	2	5.4	8.8	298	<0.1	0.2	0.3	97	1.54
3384011	Drill Core	2.17	0.013	4.4	2257.8	5.0	18	0.5	19.8	48.9	210	7.31	<1	4.3	7.9	123	<0.1	0.1	0.3	93	0.65
3384012	Drill Core	1.99	0.007	1.4	830.0	6.2	17	0.2	10.8	12.2	216	4.31	2	5.7	10.0	314	<0.1	0.1	0.2	94	1.49
3384013	Drill Core	3.63	0.011	5.5	1203.8	6.3	16	0.3	14.6	33.5	191	5.89	<1	4.7	9.3	169	<0.1	0.2	0.4	92	1.00
3384014	Drill Core	2.51	<0.005	4.5	361.2	6.9	22	0.1	11.0	12.2	225	3.50	2	5.4	10.6	473	<0.1	0.2	0.2	99	2.20
3384015	Drill Core	3.51	<0.005	2.2	138.0	5.6	24	<0.1	10.6	8.8	260	3.42	2	4.7	9.7	468	<0.1	<0.1	<0.1	96	2.40
3384016	Drill Core	2.31	0.009	11.3	599.2	10.4	25	0.3	11.6	12.4	273	3.19	2	4.8	9.7	377	<0.1	0.2	0.3	83	2.55
3384017	Drill Core	3.27	0.009	4.9	374.7	12.4	37	0.2	12.7	15.3	378	3.87	1	4.2	8.2	294	<0.1	0.2	0.3	85	2.11
3384018	Drill Core	3.70	0.005	5.1	223.5	22.3	75	0.2	10.9	12.1	608	4.08	3	5.6	8.1	357	0.2	0.4	0.5	94	3.10
3384019	Drill Core	3.17	0.006	2.1	399.5	6.5	22	0.1	12.3	12.0	231	3.31	2	4.7	8.5	468	<0.1	0.1	0.2	92	2.45
3384020	Rock Pulp	0.06	0.224	94.6	2700.0	21.7	83	0.4	62.0	16.7	549	4.31	19	4.6	18.0	298	0.1	2.2	0.7	119	2.67
3384021	Drill Core	5.00	0.006	5.4	261.2	6.9	26	0.1	11.2	9.5	287	3.19	2	4.7	8.7	536	<0.1	0.2	0.2	93	2.25
3384022	Drill Core	1.24	0.006	1.5	209.0	10.7	42	0.1	8.8	9.9	392	3.51	5	6.9	8.4	345	<0.1	0.4	0.6	85	2.24
3384023	Drill Core	1.89	<0.005	5.7	237.5	6.0	22	<0.1	10.1	12.3	217	3.06	2	5.2	9.0	446	<0.1	0.1	0.1	96	2.47
3384024	Drill Core	2.90	0.008	20.0	312.3	7.0	33	<0.1	9.8	10.7	267	2.76	2	6.3	7.7	383	0.1	0.4	0.2	84	2.23
3384025	Drill Core	4.21	<0.005	78.9	307.6	5.8	25	<0.1	10.9	10.9	292	3.16	2	4.1	8.8	464	0.2	0.1	0.1	92	2.67
3384026	Drill Core	2.07	0.006	21.1	317.1	5.8	22	0.1	10.3	10.8	278	3.11	1	4.3	9.0	430	<0.1	<0.1	0.1	85	2.56
3384027	Drill Core	2.37	<0.005	2.8	71.5	5.6	24	<0.1	11.2	7.3	328	3.38	2	5.3	10.7	500	<0.1	0.1	<0.1	97	2.84
3384028	Drill Core	4.79	0.006	4.5	292.4	6.0	22	<0.1	11.2	11.4	251	3.32	1	4.5	8.9	473	0.1	<0.1	0.2	90	2.68
3384029	Drill Core	1.18	<0.005	54.1	311.1	5.8	28	<0.1	12.4	13.7	307	3.56	2	4.1	8.6	470	<0.1	<0.1	0.1	94	2.70
3384030	Drill Core	1.17	<0.005	36.7	353.5	5.9	27	<0.1	11.6	12.0	306	3.62	1	4.2	8.7	466	<0.1	<0.1	<0.1	94	2.66

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384001	Drill Core	0.108	16.3	20	1.26	68	0.291	7.55	2.641	2.45	4.1	10.0	33	1.1	11.3	5.0	0.4	2	9	14.2	1.4
3384002	Drill Core	0.107	16.1	23	1.13	51	0.270	7.82	2.482	2.92	11.3	9.3	33	1.7	10.3	4.4	0.4	2	8	14.0	1.9
3384003	Drill Core	0.096	13.8	19	0.70	29	0.181	7.22	1.670	3.23	15.0	8.2	29	2.7	8.4	2.6	0.2	2	8	12.7	4.1
3384004	Drill Core	0.089	18.1	20	1.36	35	0.229	7.14	2.102	3.10	5.2	7.6	37	2.1	7.8	2.9	0.3	2	8	21.3	3.0
3384005	Drill Core	0.102	17.3	20	1.24	283	0.270	7.46	2.744	2.58	3.0	7.6	34	1.0	9.5	4.4	0.4	2	8	15.9	0.9
3384006	Drill Core	0.104	18.9	23	1.28	126	0.306	8.02	2.675	2.68	6.1	10.5	38	1.3	10.6	5.5	0.5	2	9	14.5	1.3
3384007	Drill Core	0.100	15.9	18	1.21	148	0.262	7.14	2.357	2.63	4.3	12.0	31	1.2	9.0	4.6	0.4	1	8	14.0	1.1
3384008	Drill Core	0.099	14.7	21	1.34	67	0.248	6.83	1.553	4.58	8.9	10.5	31	2.6	7.7	3.4	0.3	2	8	25.9	2.3
3384009	Drill Core	0.110	17.7	22	1.42	70	0.227	6.66	1.168	4.64	10.6	10.3	35	4.2	8.2	2.3	0.2	2	8	25.3	3.0
3384010	Drill Core	0.096	16.7	21	1.36	87	0.269	7.00	2.148	4.44	10.7	9.3	35	2.3	8.5	2.6	0.3	1	8	18.4	1.9
3384011	Drill Core	0.085	14.3	19	1.10	35	0.188	6.43	1.303	4.48	9.4	9.0	34	3.3	7.6	1.7	0.2	1	7	23.7	6.4
3384012	Drill Core	0.103	14.6	24	1.23	52	0.229	7.29	2.107	3.91	5.9	10.7	35	2.5	8.9	2.5	0.3	2	9	20.3	2.8
3384013	Drill Core	0.082	16.4	20	1.14	30	0.175	7.36	1.652	3.67	7.6	10.2	33	3.0	7.9	1.7	0.2	1	8	24.4	4.8
3384014	Drill Core	0.109	17.8	22	1.35	184	0.285	7.84	2.480	2.73	3.6	9.9	36	1.1	10.3	4.1	0.3	2	9	15.9	1.4
3384015	Drill Core	0.097	17.4	20	1.23	579	0.306	7.51	2.678	2.34	4.2	10.7	35	1.0	10.6	6.3	0.5	1	8	12.2	0.6
3384016	Drill Core	0.092	17.4	18	0.95	119	0.217	7.00	2.152	3.06	14.1	10.9	34	1.1	9.8	4.1	0.3	1	8	12.3	1.5
3384017	Drill Core	0.087	15.5	18	1.19	183	0.204	7.21	1.595	2.92	5.4	11.5	31	1.1	8.8	3.5	0.3	<1	7	16.5	1.9
3384018	Drill Core	0.096	15.3	20	1.06	78	0.238	7.39	2.089	3.21	29.6	8.8	31	1.5	10.2	3.9	0.3	<1	8	16.6	2.4
3384019	Drill Core	0.099	15.5	20	1.14	109	0.267	7.17	2.616	2.59	2.6	8.7	31	1.1	9.1	4.3	0.3	1	8	10.5	1.3
3384020	Rock Pulp	0.098	32.5	80	1.43	1004	0.473	7.15	2.024	3.05	3.9	67.0	63	3.4	23.8	17.3	1.2	3	12	30.8	0.3
3384021	Drill Core	0.090	15.5	20	1.19	239	0.275	7.35	2.489	2.67	2.7	9.5	31	1.1	8.9	4.9	0.4	1	8	13.0	0.9
3384022	Drill Core	0.091	14.1	19	0.92	107	0.229	6.88	1.905	2.53	5.9	9.7	29	1.7	9.3	4.2	0.3	1	7	18.8	1.4
3384023	Drill Core	0.098	16.0	19	1.17	153	0.257	7.57	2.562	2.69	3.3	8.8	32	0.9	10.3	4.5	0.3	1	8	10.4	1.1
3384024	Drill Core	0.087	16.2	17	1.07	197	0.238	7.05	2.545	2.49	4.9	8.5	31	1.2	9.1	3.7	0.3	1	8	10.1	1.1
3384025	Drill Core	0.091	19.5	20	1.15	239	0.297	7.58	2.649	2.62	3.2	9.3	38	0.7	10.7	5.3	0.4	1	9	10.6	1.0
3384026	Drill Core	0.096	13.7	18	1.06	212	0.292	7.06	2.538	2.54	2.3	9.6	28	0.9	10.3	5.6	0.4	1	8	10.9	1.0
3384027	Drill Core	0.102	16.2	20	1.18	830	0.341	7.74	2.837	2.28	1.8	10.9	32	1.1	11.6	7.5	0.6	2	9	9.7	0.3
3384028	Drill Core	0.094	14.8	20	1.09	163	0.285	7.68	2.716	2.57	2.8	9.9	30	1.1	10.6	5.2	0.4	<1	8	11.5	1.2
3384029	Drill Core	0.091	15.3	20	1.15	173	0.299	7.59	2.659	2.51	1.4	10.5	31	0.9	10.1	5.4	0.4	1	8	11.9	1.2
3384030	Drill Core	0.097	13.9	20	1.15	139	0.299	7.42	2.657	2.59	1.5	10.0	29	1.1	10.1	5.7	0.4	1	8	12.3	1.1

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Project: Berg
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CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384001	Drill Core	115.2	0.5	<0.05	0.021	1	<0.5	1.2
3384002	Drill Core	130.3	0.5	<0.05	0.006	2	<0.5	1.4
3384003	Drill Core	128.9	0.5	<0.05	0.015	5	<0.5	1.3
3384004	Drill Core	140.7	0.4	<0.05	0.028	3	<0.5	1.4
3384005	Drill Core	116.3	0.4	<0.05	0.023	1	<0.5	1.2
3384006	Drill Core	114.1	0.6	<0.05	0.021	1	<0.5	1.2
3384007	Drill Core	118.5	0.6	<0.05	<0.005	1	<0.5	1.2
3384008	Drill Core	191.2	0.6	0.11	<0.005	1	<0.5	2.2
3384009	Drill Core	204.8	0.5	0.06	<0.005	3	<0.5	2.1
3384010	Drill Core	164.8	0.6	0.05	<0.005	<1	<0.5	2.0
3384011	Drill Core	169.6	0.6	0.15	<0.005	7	<0.5	1.9
3384012	Drill Core	164.8	0.5	<0.05	<0.005	2	<0.5	2.0
3384013	Drill Core	163.6	0.6	<0.05	<0.005	6	<0.5	1.7
3384014	Drill Core	131.1	0.5	<0.05	<0.005	2	<0.5	1.3
3384015	Drill Core	93.0	0.6	<0.05	<0.005	<1	<0.5	0.9
3384016	Drill Core	127.3	0.6	0.08	0.013	1	<0.5	1.3
3384017	Drill Core	118.4	0.6	<0.05	<0.005	2	<0.5	1.3
3384018	Drill Core	135.1	0.5	0.14	<0.005	1	<0.5	1.5
3384019	Drill Core	108.1	0.5	<0.05	<0.005	1	<0.5	1.1
3384020	Rock Pulp	172.6	2.2	<0.05	<0.005	2	0.9	0.9
3384021	Drill Core	105.8	0.6	<0.05	0.006	<1	<0.5	1.1
3384022	Drill Core	133.9	0.5	0.21	<0.005	<1	<0.5	1.4
3384023	Drill Core	108.4	0.4	<0.05	<0.005	1	<0.5	1.0
3384024	Drill Core	101.5	0.4	<0.05	0.016	<1	<0.5	0.9
3384025	Drill Core	102.6	0.6	<0.05	0.045	2	<0.5	0.9
3384026	Drill Core	93.2	0.5	<0.05	0.014	1	<0.5	0.7
3384027	Drill Core	83.9	0.5	<0.05	<0.005	<1	0.6	0.7
3384028	Drill Core	96.3	0.6	<0.05	<0.005	<1	<0.5	0.9
3384029	Drill Core	91.5	0.5	<0.05	0.024	1	<0.5	0.8
3384030	Drill Core	94.0	0.5	<0.05	0.022	1	<0.5	0.9

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Project: Berg
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CERTIFICATE OF ANALYSIS VAN19002149.1

Method		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384031	Drill Core	2.00	<0.005	3.4	355.5	5.5	22	<0.1	10.6	9.4	233	3.31	2	3.8	8.1	411	<0.1	0.1	<0.1	86	2.49
3384032	Drill Core	4.55	0.007	2.5	634.3	8.8	31	0.2	13.0	18.0	286	4.42	3	4.7	9.2	388	<0.1	0.2	0.3	103	2.36
3384033	Drill Core	4.39	<0.005	4.0	382.5	6.2	27	0.1	11.3	11.6	287	3.46	2	4.5	8.6	447	<0.1	<0.1	0.2	97	2.55
3384034	Drill Core	3.82	0.007	3.9	398.6	8.2	34	0.2	11.4	11.5	336	3.27	1	4.8	9.0	487	<0.1	0.1	0.3	95	2.58
3384035	Drill Core	2.47	<0.005	42.7	336.2	6.3	30	0.1	11.2	10.8	353	3.26	1	5.4	9.8	501	<0.1	0.1	0.2	98	2.56
3384036	Drill Core	2.47	<0.005	1.3	267.3	8.7	53	0.1	11.6	11.7	533	3.61	2	5.1	9.9	440	<0.1	0.3	0.3	99	2.73
3384037	Drill Core	1.25	<0.005	1.1	253.4	8.3	39	0.1	11.1	10.3	390	3.30	2	4.9	8.9	484	<0.1	0.2	0.3	96	2.50
3384038	Drill Core	3.23	<0.005	1.8	119.2	6.0	28	<0.1	11.2	9.1	396	3.33	1	5.5	10.7	521	<0.1	0.2	<0.1	99	2.65
3384039	Drill Core	3.62	<0.005	1.1	162.1	6.1	30	0.1	10.8	10.5	409	3.45	1	4.8	9.5	515	<0.1	0.2	0.1	99	2.86
3384040	Rock	1.07	<0.005	1.0	6.4	2.9	38	<0.1	1.2	4.4	647	2.05	3	1.3	3.2	212	<0.1	0.1	<0.1	36	1.57
3384041	Drill Core	4.25	0.009	1.0	230.7	7.8	37	0.2	9.7	10.5	502	3.24	2	5.3	9.9	521	<0.1	0.3	0.2	92	2.55
3384042	Drill Core	4.43	0.009	1.5	367.0	6.2	31	<0.1	12.6	13.0	369	3.42	1	5.3	9.9	518	<0.1	0.2	0.1	101	2.72
3384043	Drill Core	2.41	0.011	8.6	883.6	11.4	53	0.4	13.0	20.0	570	3.97	2	4.6	8.5	429	<0.1	0.3	0.7	103	2.38
3384044	Drill Core	4.21	0.010	9.7	366.0	11.6	53	0.3	10.8	14.5	665	3.42	1	5.6	9.2	450	<0.1	0.3	0.6	101	2.63
3384045	Drill Core	4.94	0.008	11.2	334.2	14.8	67	0.2	11.3	10.7	920	4.23	3	5.4	9.8	461	<0.1	0.8	1.4	102	2.58
3384046	Drill Core	2.64	0.012	4.3	230.6	15.0	76	0.2	11.8	11.9	918	3.98	6	5.2	9.9	418	<0.1	0.5	1.9	98	2.49
3384047	Drill Core	1.77	0.006	3.0	288.5	9.1	59	0.2	9.4	11.0	971	2.76	2	4.6	9.0	341	0.3	0.4	0.3	88	4.34
3384048	Drill Core	4.16	0.007	2.5	357.2	9.3	35	0.1	11.9	13.9	387	3.68	6	5.6	10.5	465	0.1	0.5	0.2	100	2.54
3384049	Drill Core	4.20	0.007	1.6	150.1	7.5	41	<0.1	11.5	10.8	424	3.54	5	5.3	10.7	409	0.1	0.5	0.2	101	2.64
3384050	Drill Core	3.21	0.014	41.3	882.2	7.4	27	0.3	11.9	17.5	276	3.72	1	5.2	9.6	471	<0.1	0.2	0.3	101	1.97
3384051	Drill Core	3.53	0.009	5.9	253.5	7.3	33	0.1	10.7	10.4	392	3.41	2	5.9	9.7	493	<0.1	0.1	0.3	99	2.73
3384052	Drill Core	4.56	0.010	2.2	555.3	7.5	35	0.2	11.4	15.4	331	3.80	3	5.6	9.4	478	0.1	0.2	0.4	97	2.41
3384053	Drill Core	4.27	0.010	6.1	863.0	7.4	36	0.2	12.0	14.8	320	3.65	1	5.0	8.7	492	<0.1	0.1	0.2	94	2.45
3384054	Drill Core	2.35	0.006	2.2	360.5	7.0	31	<0.1	10.0	10.2	288	3.23	1	4.9	9.0	501	<0.1	0.1	<0.1	95	2.51
3384055	Drill Core	2.75	0.009	10.0	1355.3	8.1	41	0.3	12.6	24.2	315	6.66	1	6.9	9.1	292	0.1	0.3	0.5	98	1.70
3384056	Drill Core	3.89	0.010	26.3	669.9	7.1	31	0.2	11.1	13.4	288	3.54	2	6.0	10.7	492	<0.1	0.1	0.3	96	2.35
3384057	Drill Core	4.21	0.008	5.7	483.3	7.2	30	0.2	11.4	12.3	340	3.54	2	5.9	10.6	439	<0.1	0.2	0.3	96	2.36
3384058	Drill Core	4.06	0.008	3.6	459.1	6.5	23	0.2	11.3	15.5	275	3.49	2	5.7	10.7	452	<0.1	0.2	0.3	90	2.30
3384059	Drill Core	2.11	0.014	5.7	414.6	17.7	75	0.3	12.3	23.0	1138	4.93	4	5.4	10.3	326	<0.1	0.7	2.3	87	2.31
3384060	Rock Pulp	0.06	0.715	316.7	5296.4	21.5	92	0.8	39.6	17.3	582	4.86	27	5.1	17.9	340	0.6	3.6	0.6	125	2.61

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384031	Drill Core	0.092	14.7	19	1.04	124	0.263	7.11	2.542	2.54	4.4	8.9	30	1.0	9.1	4.8	0.4	1	7	12.4	1.2
3384032	Drill Core	0.090	16.2	24	1.25	64	0.296	7.88	2.370	3.48	4.0	10.0	33	1.5	10.1	4.5	0.3	1	9	13.6	2.2
3384033	Drill Core	0.098	16.5	20	1.24	189	0.305	7.63	2.677	2.70	2.8	9.3	32	1.0	10.7	5.2	0.4	1	9	12.2	1.1
3384034	Drill Core	0.107	14.9	21	1.24	357	0.291	7.20	2.334	2.70	3.5	12.3	32	2.2	11.5	5.9	0.5	1	9	12.6	0.9
3384035	Drill Core	0.112	16.4	20	1.22	332	0.304	7.05	2.489	2.65	2.0	13.9	33	1.0	11.5	6.0	0.5	1	10	10.4	0.9
3384036	Drill Core	0.105	15.5	21	1.32	279	0.318	7.16	2.074	2.87	4.6	11.9	33	1.2	12.4	6.5	0.5	1	10	13.3	1.1
3384037	Drill Core	0.109	14.9	20	1.22	204	0.298	7.11	2.432	2.53	2.6	12.5	32	1.1	11.3	5.6	0.5	1	9	11.9	1.1
3384038	Drill Core	0.114	17.0	21	1.19	907	0.323	7.16	2.625	2.38	1.9	11.5	35	1.1	12.5	7.1	0.6	1	10	9.7	0.5
3384039	Drill Core	0.116	16.4	20	1.14	410	0.305	7.02	2.516	2.63	2.4	10.8	35	1.1	11.5	6.7	0.5	1	9	10.6	0.7
3384040	Rock	0.044	13.0	4	0.49	818	0.192	6.75	3.179	1.77	0.3	48.2	25	0.8	16.6	5.3	0.4	<1	8	3.2	<0.1
3384041	Drill Core	0.103	16.5	19	1.13	254	0.290	6.88	2.446	2.66	2.0	11.8	35	1.2	11.7	6.4	0.5	1	9	10.5	1.0
3384042	Drill Core	0.119	16.9	22	1.24	151	0.301	7.23	2.600	2.73	2.5	11.8	36	1.2	12.1	6.1	0.5	1	11	12.1	1.4
3384043	Drill Core	0.121	15.8	23	1.28	54	0.256	6.93	2.368	3.38	4.5	10.3	35	1.1	11.1	3.5	0.3	1	10	14.8	2.7
3384044	Drill Core	0.186	17.7	22	1.30	82	0.268	7.13	2.062	3.10	3.3	10.9	39	1.0	13.9	4.3	0.4	1	10	14.4	2.0
3384045	Drill Core	0.123	17.8	22	1.24	209	0.309	7.22	1.967	2.76	4.7	12.1	38	1.2	12.6	6.0	0.5	1	10	19.6	1.1
3384046	Drill Core	0.115	17.4	21	1.10	148	0.280	7.12	1.931	2.83	6.3	12.1	36	1.4	11.9	5.8	0.5	1	9	18.5	1.2
3384047	Drill Core	0.109	16.5	18	0.70	225	0.245	6.94	0.999	2.74	8.5	11.9	34	0.9	11.3	4.1	0.3	1	8	46.4	0.9
3384048	Drill Core	0.121	16.7	23	1.14	154	0.306	7.34	2.329	2.80	4.4	12.0	36	2.6	12.4	5.8	0.5	1	9	18.3	1.2
3384049	Drill Core	0.110	17.2	21	1.06	402	0.296	7.55	2.157	2.71	5.0	11.5	36	1.4	11.9	6.2	0.5	<1	9	21.5	0.7
3384050	Drill Core	0.117	19.1	21	1.21	101	0.265	7.35	2.556	2.64	2.6	10.2	39	1.4	11.8	5.1	0.4	1	10	13.8	1.3
3384051	Drill Core	0.114	17.5	21	1.23	220	0.296	7.05	2.530	2.51	3.6	10.2	36	1.2	12.3	6.3	0.5	1	9	13.4	1.1
3384052	Drill Core	0.120	16.6	25	1.24	88	0.296	6.85	2.793	2.32	4.6	10.2	36	1.4	12.3	5.5	0.5	1	9	14.9	1.6
3384053	Drill Core	0.110	17.7	23	1.25	107	0.272	7.05	2.585	2.55	3.6	9.7	36	1.3	11.9	4.2	0.4	1	10	12.7	1.8
3384054	Drill Core	0.114	15.2	19	1.21	113	0.274	6.96	2.581	2.53	2.5	9.4	33	1.1	11.0	4.8	0.4	1	9	12.6	1.4
3384055	Drill Core	0.104	15.2	19	1.55	28	0.232	6.81	2.489	3.09	8.7	10.5	34	1.7	10.9	3.1	0.3	1	8	14.3	4.9
3384056	Drill Core	0.122	19.1	22	1.21	156	0.273	7.24	2.489	3.06	4.5	12.7	39	1.5	12.3	4.4	0.4	1	9	12.9	1.7
3384057	Drill Core	0.104	16.7	21	1.19	125	0.266	7.15	2.339	3.05	3.9	13.7	35	1.4	12.7	5.2	0.4	1	9	12.0	1.4
3384058	Drill Core	0.115	16.6	21	1.07	95	0.258	6.79	2.423	2.87	4.1	14.1	35	1.3	12.6	5.4	0.4	1	8	12.2	1.9
3384059	Drill Core	0.101	16.4	20	1.17	71	0.214	6.92	1.523	3.05	5.8	13.3	35	1.3	11.4	3.7	0.3	1	8	19.7	2.9
3384060	Rock Pulp	0.113	33.5	73	1.45	1013	0.441	6.84	1.962	3.20	4.0	67.0	65	3.6	25.7	16.6	1.1	3	14	34.5	0.5

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384031	Drill Core	93.9	0.5	<0.05	<0.005	<1	<0.5	1.0
3384032	Drill Core	141.6	0.5	0.06	<0.005	2	<0.5	1.5
3384033	Drill Core	105.2	0.5	<0.05	<0.005	1	<0.5	1.0
3384034	Drill Core	100.0	0.6	<0.05	<0.005	<1	<0.5	0.9
3384035	Drill Core	95.7	0.7	<0.05	0.033	<1	<0.5	0.9
3384036	Drill Core	98.9	0.6	0.10	<0.005	<1	<0.5	1.0
3384037	Drill Core	93.0	0.7	<0.05	<0.005	<1	<0.5	0.9
3384038	Drill Core	96.1	0.6	<0.05	<0.005	<1	<0.5	0.7
3384039	Drill Core	87.1	0.6	<0.05	<0.005	<1	<0.5	0.7
3384040	Rock	35.1	1.5	<0.05	<0.005	<1	<0.5	<0.5
3384041	Drill Core	95.8	0.6	<0.05	<0.005	<1	<0.5	1.0
3384042	Drill Core	100.0	0.6	<0.05	<0.005	1	<0.5	0.9
3384043	Drill Core	127.2	0.5	0.07	0.006	2	<0.5	1.3
3384044	Drill Core	126.3	0.6	0.08	0.006	2	<0.5	1.2
3384045	Drill Core	117.9	0.6	0.37	0.006	<1	<0.5	1.3
3384046	Drill Core	115.4	0.6	0.23	<0.005	<1	<0.5	1.3
3384047	Drill Core	102.1	0.6	<0.05	<0.005	<1	<0.5	1.2
3384048	Drill Core	104.8	0.7	<0.05	<0.005	<1	<0.5	1.1
3384049	Drill Core	98.4	0.6	<0.05	<0.005	<1	<0.5	1.0
3384050	Drill Core	127.0	0.5	<0.05	0.025	2	<0.5	1.2
3384051	Drill Core	103.7	0.5	0.06	<0.005	<1	<0.5	1.0
3384052	Drill Core	103.3	0.5	0.06	<0.005	1	<0.5	1.1
3384053	Drill Core	107.6	0.5	<0.05	<0.005	1	<0.5	1.1
3384054	Drill Core	96.7	0.5	<0.05	<0.005	<1	<0.5	1.0
3384055	Drill Core	153.7	0.5	<0.05	<0.005	3	<0.5	1.2
3384056	Drill Core	124.5	0.6	<0.05	0.012	1	<0.5	1.1
3384057	Drill Core	124.1	0.6	<0.05	<0.005	1	<0.5	1.1
3384058	Drill Core	109.7	0.7	<0.05	<0.005	1	<0.5	1.0
3384059	Drill Core	153.5	0.6	0.28	<0.005	2	<0.5	1.6
3384060	Rock Pulp	177.7	2.1	0.09	0.006	3	0.8	0.9

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Project: Berg
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CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384061	Drill Core	2.17	0.007	3.7	234.6	6.2	24	0.1	9.3	8.2	322	2.89	1	5.0	9.7	467	<0.1	0.2	0.1	95	2.51
3384062	Drill Core	4.48	0.007	5.5	319.4	5.9	28	<0.1	11.0	10.4	386	3.23	2	4.9	9.4	466	<0.1	0.2	0.2	96	2.57
3384063	Drill Core	2.55	0.006	7.6	323.5	5.9	29	<0.1	13.0	13.4	440	3.38	2	6.1	11.4	464	<0.1	0.2	0.1	92	2.53
3384064	Drill Core	5.24	0.007	7.3	327.8	6.5	29	<0.1	10.0	12.6	395	3.15	1	6.1	11.3	502	<0.1	0.2	0.1	94	2.42
3384065	Drill Core	2.01	0.008	6.2	249.3	6.7	31	<0.1	11.8	11.6	443	3.32	1	5.3	10.4	483	<0.1	0.2	0.1	95	2.61
3384066	Drill Core	2.75	0.011	42.2	362.2	10.5	35	0.2	10.2	10.1	420	3.01	2	6.5	11.2	402	<0.1	0.3	0.2	95	2.53
3384067	Drill Core	3.85	0.011	7.7	461.5	23.4	62	0.4	12.6	13.5	742	3.79	8	6.4	11.2	418	<0.1	0.8	0.7	94	2.66
3384068	Drill Core	3.06	0.027	18.3	466.7	334.7	3926	1.3	9.0	10.9	751	5.24	51	6.0	12.0	299	32.3	0.9	3.7	83	3.07
3384069	Drill Core	4.24	0.011	18.8	296.6	9.9	32	0.2	11.8	10.4	484	3.25	3	4.2	9.4	387	<0.1	0.2	0.3	97	2.71
3384070	Core DUP		0.010	17.0	296.2	7.6	29	0.1	11.3	10.7	468	3.14	3	4.2	9.6	409	<0.1	0.3	0.2	94	2.74
3384071	Drill Core	3.71	0.010	104.3	529.2	7.2	30	0.3	12.5	14.6	423	3.76	2	4.3	9.3	438	<0.1	0.2	0.2	92	2.89
3384072	Drill Core	2.82	0.011	13.2	576.9	6.6	33	0.2	11.1	11.9	414	3.64	3	4.5	9.2	428	<0.1	0.2	0.4	99	2.57
3384073	Drill Core	2.10	0.009	3.9	338.1	7.0	32	0.2	11.8	8.7	457	3.54	1	4.5	9.7	476	<0.1	0.2	0.2	101	2.83
3384074	Drill Core	3.71	0.009	5.5	294.0	14.8	38	0.2	10.6	9.3	461	3.40	7	5.1	9.6	429	<0.1	0.3	0.4	99	2.74
3384075	Drill Core	3.05	0.047	134.3	172.6	70.4	316	0.7	12.2	11.0	464	8.59	147	4.9	7.8	140	2.1	2.1	4.3	85	1.55
3384076	Drill Core	4.41	0.012	42.8	319.2	44.9	135	0.4	12.2	11.4	924	4.93	27	4.8	10.0	369	0.5	0.7	0.9	98	2.91
3384077	Drill Core	4.36	0.011	5.1	260.9	53.0	84	0.4	10.8	10.7	1036	4.28	27	4.4	8.7	377	0.1	0.9	1.3	96	3.20
3384078	Drill Core	2.19	0.012	6.6	455.8	70.6	225	0.6	9.8	9.2	759	3.28	12	3.8	8.4	345	0.9	1.3	1.3	89	4.23
3384079	Drill Core	4.23	0.010	28.7	459.7	7.4	29	0.2	12.1	10.8	375	3.38	3	4.4	8.7	445	<0.1	0.3	0.3	98	2.74
3384080	Rock	1.07	0.006	1.2	3.9	2.9	34	<0.1	0.9	3.9	678	2.11	4	1.2	2.9	200	<0.1	0.1	<0.1	33	1.54
3384081	Drill Core	4.32	0.016	24.8	199.0	12.7	62	0.2	9.7	6.9	585	3.71	8	4.3	9.1	385	<0.1	0.5	0.4	97	2.31
3384082	Drill Core	1.47	0.016	14.9	833.8	7.1	23	0.4	11.9	16.3	269	3.59	4	3.6	8.0	334	<0.1	0.2	0.7	91	2.10
3384083	Drill Core	2.55	0.012	19.6	243.0	6.9	20	<0.1	10.1	7.3	270	2.93	2	3.8	7.8	421	<0.1	0.4	0.2	99	2.36
3384084	Drill Core	2.89	0.009	11.2	166.2	5.6	23	<0.1	10.7	7.1	359	3.45	3	4.4	8.4	474	<0.1	0.2	0.1	102	2.63
3384085	Drill Core	3.43	0.010	17.2	351.6	7.1	27	0.2	9.7	9.4	342	2.89	3	4.2	8.4	500	<0.1	0.2	0.2	93	3.26
3384086	Drill Core	2.84	0.012	213.4	374.4	6.4	25	0.1	10.1	10.1	363	2.98	3	4.2	8.5	447	0.3	0.2	0.2	91	2.72
3384087	Drill Core	4.11	0.014	40.3	418.5	14.5	37	0.1	9.2	7.9	422	2.85	3	3.7	7.4	409	<0.1	0.3	0.2	95	2.60
3384088	Drill Core	2.14	0.009	5.1	241.3	6.7	21	<0.1	10.4	7.2	297	3.24	4	4.7	8.9	460	<0.1	0.2	0.2	99	2.66
3384089	Drill Core	2.48	0.013	72.9	531.9	7.5	26	0.2	11.2	11.2	274	3.37	2	4.4	8.8	355	0.1	<0.1	0.4	98	2.22
3384090	Drill Core	2.75	0.011	80.4	496.1	9.7	28	0.2	8.3	9.8	251	2.76	5	3.8	8.4	253	0.1	0.1	0.3	84	2.34

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Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384061	Drill Core	0.108	15.0	18	1.15	556	0.278	7.04	2.426	2.77	2.3	14.3	32	1.0	11.1	5.6	0.5	1	8	13.4	0.9
3384062	Drill Core	0.118	15.5	22	1.22	488	0.296	6.76	2.388	2.86	2.2	14.6	32	1.0	12.1	6.1	0.5	1	9	11.5	1.1
3384063	Drill Core	0.111	17.5	21	1.37	328	0.278	6.91	1.929	2.80	2.3	14.3	35	1.2	12.7	5.8	0.5	1	9	13.5	1.1
3384064	Drill Core	0.116	17.2	21	1.22	336	0.290	6.82	2.305	2.95	3.6	13.8	35	1.2	12.6	5.9	0.5	1	9	13.7	1.1
3384065	Drill Core	0.115	19.6	22	1.28	417	0.291	6.99	2.170	2.78	2.1	13.0	41	1.2	12.6	6.7	0.6	1	9	13.2	1.0
3384066	Drill Core	0.153	18.9	22	1.20	171	0.263	6.71	2.033	2.81	2.8	12.1	40	1.0	13.2	4.8	0.4	1	9	21.0	1.3
3384067	Drill Core	0.114	16.1	23	0.98	141	0.253	7.20	1.292	3.09	6.1	14.4	34	1.2	13.8	5.6	0.5	1	9	45.2	1.4
3384068	Drill Core	0.108	18.7	17	0.83	71	0.202	6.58	0.947	2.47	11.7	15.2	38	3.6	12.6	3.9	0.3	1	9	28.8	4.0
3384069	Drill Core	0.097	12.6	19	1.25	423	0.318	7.04	2.243	2.76	2.5	15.6	29	3.3	10.4	6.7	0.6	<1	7	14.1	0.8
3384070	Core DUP	0.092	13.3	18	1.23	227	0.308	7.23	2.216	2.66	2.3	15.2	29	1.1	10.4	6.2	0.5	<1	7	13.3	0.8
3384071	Drill Core	0.113	14.3	20	1.31	94	0.290	7.10	1.917	2.94	3.1	12.8	34	1.1	11.9	5.4	0.4	1	7	13.4	1.9
3384072	Drill Core	0.112	13.3	22	1.21	147	0.333	7.49	2.664	2.97	4.4	15.6	30	1.3	10.8	6.1	0.5	<1	7	12.2	1.2
3384073	Drill Core	0.100	14.4	20	1.20	227	0.349	7.47	2.706	2.91	3.7	14.6	31	1.0	11.7	7.2	0.6	<1	9	11.9	0.9
3384074	Drill Core	0.119	14.1	19	1.09	201	0.326	7.63	2.348	3.03	6.7	14.3	31	1.4	11.2	6.3	0.6	2	8	18.0	1.1
3384075	Drill Core	0.106	12.8	13	0.46	26	0.188	6.58	0.378	3.23	21.7	17.9	30	14.3	8.5	3.4	0.3	1	7	13.8	8.1
3384076	Drill Core	0.110	14.9	20	0.88	104	0.285	7.84	0.904	3.20	13.5	13.5	33	3.6	12.1	5.0	0.4	1	9	41.8	1.8
3384077	Drill Core	0.116	14.2	22	1.00	98	0.291	7.37	1.311	3.31	15.1	13.8	32	3.9	10.9	5.6	0.5	<1	8	28.4	1.7
3384078	Drill Core	0.091	15.1	19	0.95	83	0.252	6.68	1.548	3.02	10.9	13.0	34	1.8	13.9	4.3	0.4	<1	7	28.6	2.6
3384079	Drill Core	0.100	13.2	21	1.18	171	0.311	7.02	2.492	3.20	5.2	13.7	30	1.0	10.6	5.4	0.5	<1	8	15.7	1.2
3384080	Rock	0.039	12.1	4	0.47	788	0.211	6.76	3.490	1.46	0.4	53.1	25	0.7	16.3	5.4	0.4	1	7	3.1	<0.1
3384081	Drill Core	0.092	14.7	20	1.23	222	0.295	7.06	2.282	3.22	8.6	13.1	33	3.0	10.5	5.9	0.5	<1	8	17.9	1.2
3384082	Drill Core	0.093	12.1	21	1.23	93	0.265	6.93	2.166	3.80	3.9	12.1	26	1.4	9.1	3.9	0.3	<1	7	19.0	2.2
3384083	Drill Core	0.097	15.3	18	1.21	455	0.304	7.18	2.812	2.79	33.4	10.9	32	1.5	9.8	5.0	0.5	<1	8	15.9	0.8
3384084	Drill Core	0.106	13.8	21	1.28	613	0.347	7.32	2.720	2.97	3.5	12.1	28	1.3	10.3	7.1	0.6	1	8	14.9	0.6
3384085	Drill Core	0.100	13.7	19	1.11	158	0.304	7.00	2.442	3.15	7.1	13.1	30	1.1	11.7	5.6	0.5	1	8	16.3	1.4
3384086	Drill Core	0.095	13.9	20	1.14	186	0.285	7.22	2.492	2.74	3.0	11.0	29	1.1	10.5	5.3	0.4	<1	7	16.0	1.1
3384087	Drill Core	0.097	14.6	17	1.13	301	0.283	6.96	2.519	3.06	3.0	9.6	32	1.0	8.8	4.7	0.4	1	7	16.2	0.9
3384088	Drill Core	0.111	18.3	19	1.24	504	0.312	7.27	2.715	2.93	2.6	10.7	37	1.2	10.4	5.6	0.5	<1	8	15.5	0.7
3384089	Drill Core	0.103	14.4	19	1.24	121	0.286	7.44	2.542	3.65	3.3	9.1	30	1.6	9.6	3.9	0.4	<1	8	14.5	1.5
3384090	Drill Core	0.086	20.7	19	0.94	96	0.216	6.56	1.882	3.88	7.4	11.7	41	1.8	9.1	2.9	0.3	2	7	23.1	2.1

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384061	Drill Core	92.9	0.7	<0.05	<0.005	<1	<0.5	0.9
3384062	Drill Core	99.1	0.6	<0.05	<0.005	<1	<0.5	0.8
3384063	Drill Core	111.9	0.6	<0.05	<0.005	<1	<0.5	0.9
3384064	Drill Core	111.9	0.6	<0.05	<0.005	<1	<0.5	1.0
3384065	Drill Core	102.2	0.6	<0.05	<0.005	1	<0.5	1.0
3384066	Drill Core	127.2	0.5	<0.05	0.020	1	<0.5	1.1
3384067	Drill Core	145.0	0.6	0.12	<0.005	<1	<0.5	1.5
3384068	Drill Core	199.8	0.6	0.34	0.028	1	<0.5	1.8
3384069	Drill Core	75.3	0.8	0.05	0.013	<1	<0.5	1.0
3384070	Core DUP	74.5	0.7	<0.05	0.006	<1	<0.5	1.0
3384071	Drill Core	92.1	0.6	<0.05	0.062	1	<0.5	1.2
3384072	Drill Core	82.8	0.7	<0.05	0.009	<1	<0.5	1.1
3384073	Drill Core	76.9	0.7	0.07	<0.005	<1	<0.5	0.9
3384074	Drill Core	101.2	0.7	<0.05	<0.005	<1	<0.5	1.3
3384075	Drill Core	201.0	0.6	0.68	0.083	1	<0.5	3.0
3384076	Drill Core	140.7	0.6	0.19	0.034	1	<0.5	1.8
3384077	Drill Core	133.3	0.6	0.12	<0.005	<1	<0.5	2.0
3384078	Drill Core	109.0	0.6	0.20	<0.005	<1	<0.5	1.7
3384079	Drill Core	105.5	0.6	0.05	0.032	1	<0.5	1.3
3384080	Rock	32.5	1.7	<0.05	<0.005	<1	<0.5	<0.5
3384081	Drill Core	119.6	0.6	0.19	0.019	<1	<0.5	1.5
3384082	Drill Core	132.9	0.5	0.09	0.018	<1	<0.5	1.5
3384083	Drill Core	96.3	0.5	<0.05	0.019	<1	<0.5	1.3
3384084	Drill Core	88.3	0.6	0.06	0.010	<1	<0.5	1.2
3384085	Drill Core	93.9	0.6	<0.05	0.021	<1	<0.5	1.4
3384086	Drill Core	89.1	0.5	0.07	0.411	<1	<0.5	1.2
3384087	Drill Core	87.3	0.5	0.09	0.037	<1	<0.5	1.2
3384088	Drill Core	95.0	0.6	<0.05	<0.005	1	<0.5	1.3
3384089	Drill Core	134.4	0.5	<0.05	0.043	2	<0.5	1.6
3384090	Drill Core	149.4	0.6	0.06	0.068	1	<0.5	1.7

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CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384091	Drill Core	2.80	0.009	87.8	435.8	8.6	21	0.1	9.3	8.9	266	3.11	4	4.7	10.1	378	<0.1	0.1	0.2	107	2.18
3384092	Drill Core	2.43	0.027	4.2	2238.7	10.7	31	0.9	16.4	34.0	343	6.61	1	6.9	11.3	181	0.1	0.3	0.8	97	0.95
3384093	Drill Core	2.72	0.010	5.3	669.5	7.5	22	0.2	10.7	14.6	260	3.64	2	5.1	9.2	408	<0.1	0.1	0.2	96	2.27
3384094	Drill Core	4.10	0.010	297.2	334.0	7.3	24	0.2	9.2	8.9	303	3.09	3	4.0	8.6	395	0.1	0.1	1.0	90	2.36
3384095	Drill Core	2.17	0.009	12.3	413.9	6.7	22	0.1	10.1	11.2	278	3.12	3	5.1	10.4	459	0.1	<0.1	0.2	96	2.36
3384096	Drill Core	2.37	0.009	422.2	235.1	7.6	30	0.2	5.8	8.0	317	2.39	3	2.8	8.2	300	0.3	<0.1	0.5	69	2.97
3384097	Drill Core	1.94	0.009	14.4	468.6	11.6	50	0.3	9.7	9.3	581	3.04	1	5.0	9.6	388	<0.1	0.2	0.2	105	2.70
3384098	Drill Core	4.26	0.010	9.9	508.1	8.0	40	0.3	9.3	8.4	443	3.05	4	4.2	7.4	441	<0.1	0.2	0.2	100	2.37
3384099	Drill Core	4.08	0.013	3.1	674.0	8.7	33	0.3	9.5	10.4	422	3.24	2	5.1	9.0	427	<0.1	0.2	0.2	95	2.24
3384100	Rock Pulp	0.06	0.228	99.8	2829.3	24.4	81	0.4	61.2	16.7	605	4.48	20	4.3	17.8	313	0.1	2.5	0.7	127	2.83
3384101	Drill Core	2.41	0.010	7.1	471.8	6.3	24	0.2	12.5	11.2	343	4.12	3	4.3	8.5	447	<0.1	0.1	0.2	92	2.23
3384102	Drill Core	3.94	0.008	16.9	567.0	6.8	26	0.2	11.2	13.7	298	3.78	2	6.1	9.4	446	<0.1	0.1	0.3	94	2.13
3384103	Drill Core	2.26	0.024	4.8	1706.2	7.9	33	0.7	14.3	37.9	401	7.24	2	5.6	11.4	206	<0.1	0.1	0.5	107	1.54
3384104	Drill Core	2.80	0.023	7.1	968.9	8.0	23	0.4	8.6	12.8	236	3.56	2	7.8	13.9	355	<0.1	0.2	0.5	81	1.86
3384105	Drill Core	4.47	0.016	3.8	771.0	6.2	27	0.3	11.4	11.4	268	3.54	2	5.0	10.1	397	<0.1	0.2	0.4	89	2.17
3384106	Drill Core	5.04	0.047	14.1	1949.4	7.6	31	1.0	15.7	19.6	254	4.83	6	5.0	8.7	299	0.1	0.2	1.0	89	1.77
3384107	Drill Core	4.26	0.040	3.4	2174.8	6.0	23	0.9	12.6	18.8	261	3.81	2	5.7	8.6	393	<0.1	0.2	0.3	92	1.86
3384108	Drill Core	4.96	0.022	49.4	1258.9	6.1	21	0.5	8.8	10.3	230	2.99	2	3.9	8.4	389	<0.1	<0.1	0.2	87	2.26
3384109	Drill Core	2.78	0.018	15.8	1047.2	6.3	23	0.4	11.7	16.1	250	3.72	2	4.3	9.1	420	<0.1	0.1	0.2	90	2.43
3384110	Drill Core	2.42	0.015	7.1	918.1	6.1	25	0.4	11.1	15.4	253	3.62	2	5.5	9.1	403	<0.1	0.1	0.2	88	2.26
3384111	Drill Core	4.70	0.014	4.7	816.8	5.8	21	0.3	10.2	11.3	253	3.15	2	4.4	8.2	442	<0.1	0.1	0.1	94	2.57
3384112	Drill Core	2.35	0.010	5.4	568.3	6.0	24	0.2	11.0	13.0	305	3.34	2	4.3	8.6	449	<0.1	0.1	0.1	94	2.46
3384113	Drill Core	2.62	0.007	18.0	429.3	5.9	23	0.2	10.2	9.5	276	3.11	2	4.0	7.7	458	<0.1	<0.1	0.1	97	2.59
3384114	Drill Core	4.81	0.008	17.5	492.7	5.4	23	0.2	11.1	10.6	286	3.36	1	3.7	7.3	471	<0.1	<0.1	<0.1	101	2.75
3384115	Drill Core	3.89	0.012	10.8	913.0	5.5	23	0.3	13.2	14.3	289	3.87	3	4.1	7.8	446	<0.1	<0.1	0.2	100	2.46
3384116	Drill Core	3.96	0.014	185.0	1260.0	5.9	20	0.4	10.0	15.6	228	3.38	2	3.9	7.7	386	<0.1	0.1	0.2	88	2.32
3384117	Drill Core	5.03	0.012	7.8	988.4	6.3	22	0.4	11.8	18.6	229	3.67	2	4.7	8.8	387	<0.1	0.1	0.2	93	2.30
3384118	Drill Core	5.07	0.015	3.5	1107.9	5.8	24	0.4	9.6	11.6	286	3.24	2	5.0	9.2	412	<0.1	<0.1	<0.1	91	2.46
3384119	Drill Core	4.61	0.016	39.1	1439.4	6.4	21	0.5	13.7	12.8	244	3.48	<1	5.2	9.5	433	<0.1	<0.1	0.2	91	2.36
3384120	Rock	1.07	<0.005	0.9	5.4	2.7	37	<0.1	0.8	4.0	657	2.23	3	1.1	2.8	192	<0.1	0.1	<0.1	37	1.56

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384091	Drill Core	0.157	19.3	20	1.35	156	0.292	7.27	2.432	4.01	3.1	12.9	40	1.4	11.7	3.5	0.4	1	9	18.0	1.4
3384092	Drill Core	0.108	15.0	19	1.36	52	0.248	7.18	1.691	4.52	8.0	11.5	34	4.7	9.3	3.3	0.3	2	8	33.3	4.5
3384093	Drill Core	0.104	12.8	20	1.13	109	0.289	7.27	2.714	3.27	5.1	12.4	27	1.2	9.3	4.2	0.4	<1	8	15.1	1.6
3384094	Drill Core	0.089	12.7	18	1.07	129	0.271	6.91	2.574	3.07	3.9	11.6	27	0.8	8.2	4.5	0.4	1	7	11.3	1.4
3384095	Drill Core	0.102	17.6	19	1.18	196	0.305	7.60	2.820	3.17	4.9	9.8	35	1.1	10.2	5.0	0.5	1	8	13.8	1.2
3384096	Drill Core	0.077	20.7	16	0.84	67	0.200	5.68	1.928	2.93	3.3	7.4	37	0.8	8.4	2.7	0.2	1	6	10.6	2.3
3384097	Drill Core	0.104	13.9	19	1.35	145	0.290	7.27	2.355	2.98	3.1	11.1	29	1.4	9.8	4.9	0.5	2	9	14.7	1.3
3384098	Drill Core	0.095	11.5	19	1.18	334	0.315	7.09	2.668	3.12	3.7	9.8	26	1.2	9.2	5.4	0.5	<1	8	11.5	0.8
3384099	Drill Core	0.101	19.1	18	1.19	142	0.299	7.21	2.755	2.73	7.4	11.3	37	1.2	9.7	4.5	0.5	<1	7	12.6	1.2
3384100	Rock Pulp	0.114	31.7	82	1.51	1129	0.510	7.24	2.184	2.90	4.7	77.6	61	3.6	23.1	19.4	1.5	3	12	32.7	0.3
3384101	Drill Core	0.096	14.0	20	1.17	119	0.310	7.31	2.672	2.88	5.0	11.7	29	1.3	10.3	5.9	0.6	1	7	11.2	1.4
3384102	Drill Core	0.101	14.1	19	1.20	110	0.295	7.41	2.707	2.93	6.3	10.7	29	1.3	9.5	4.5	0.4	<1	8	14.8	1.6
3384103	Drill Core	0.103	13.5	17	1.91	43	0.290	7.26	1.621	4.34	8.0	12.4	30	3.5	8.6	4.0	0.4	2	8	46.4	4.5
3384104	Drill Core	0.080	14.1	19	0.99	85	0.238	6.97	2.204	4.09	6.6	14.9	30	1.9	9.3	3.2	0.4	2	7	15.4	2.2
3384105	Drill Core	0.083	13.2	20	1.10	153	0.296	6.95	2.396	3.31	5.1	10.0	29	1.5	8.6	4.6	0.4	2	7	15.7	1.6
3384106	Drill Core	0.088	11.5	20	1.08	56	0.240	6.67	1.821	4.08	8.0	8.6	27	2.3	8.9	3.0	0.3	1	7	20.2	3.1
3384107	Drill Core	0.091	13.2	21	1.27	91	0.271	7.03	2.307	3.56	7.2	9.5	28	1.9	9.5	3.0	0.3	2	8	16.7	2.2
3384108	Drill Core	0.094	12.0	20	1.06	147	0.265	6.87	2.338	3.78	4.4	9.3	26	1.1	8.7	2.6	0.2	1	7	16.5	1.8
3384109	Drill Core	0.092	12.0	20	1.13	96	0.283	7.18	2.475	3.32	6.1	9.6	27	1.2	9.5	4.2	0.4	2	7	14.3	2.3
3384110	Drill Core	0.093	12.4	20	1.08	90	0.267	7.15	2.452	3.17	11.3	9.3	28	1.0	9.6	4.0	0.4	1	8	14.2	2.1
3384111	Drill Core	0.101	11.7	19	1.15	135	0.295	7.36	2.561	3.20	4.3	9.4	25	1.0	9.2	4.3	0.4	1	7	13.2	1.5
3384112	Drill Core	0.089	12.1	19	1.13	172	0.294	7.50	2.622	3.14	10.1	11.4	26	0.8	9.2	4.7	0.4	1	8	12.0	1.3
3384113	Drill Core	0.092	12.2	21	1.16	188	0.296	7.55	2.655	3.24	5.7	9.5	27	1.0	8.9	4.1	0.4	2	8	12.9	1.4
3384114	Drill Core	0.104	10.9	21	1.19	183	0.321	6.92	2.615	2.96	3.4	11.4	25	0.8	9.0	5.0	0.4	1	8	13.3	1.4
3384115	Drill Core	0.102	11.4	22	1.20	122	0.311	7.18	2.609	3.10	5.6	11.6	25	1.0	9.3	4.8	0.4	1	7	12.9	2.0
3384116	Drill Core	0.084	11.7	21	1.08	114	0.256	6.77	2.227	3.68	7.1	9.9	27	0.9	8.4	3.1	0.3	1	7	13.0	2.4
3384117	Drill Core	0.095	12.2	21	1.12	98	0.275	6.90	2.446	3.54	8.3	9.3	27	1.0	9.4	3.8	0.4	1	7	14.0	2.7
3384118	Drill Core	0.092	12.0	19	1.11	178	0.303	7.27	2.612	3.25	10.4	11.3	27	1.1	9.6	5.3	0.5	1	8	12.3	1.4
3384119	Drill Core	0.087	12.2	24	1.07	99	0.266	7.10	2.549	3.33	18.0	9.8	27	1.1	9.2	3.8	0.3	1	7	12.7	2.2
3384120	Rock	0.039	10.2	3	0.50	719	0.212	6.73	3.333	1.66	0.2	49.8	21	0.5	15.0	5.1	0.3	1	7	2.8	<0.1

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384091	Drill Core	142.6	0.7	<0.05	0.047	1	<0.5	1.7
3384092	Drill Core	210.2	0.6	0.15	0.009	3	<0.5	2.1
3384093	Drill Core	114.2	0.6	<0.05	<0.005	2	<0.5	1.5
3384094	Drill Core	102.9	0.6	<0.05	0.207	<1	<0.5	1.2
3384095	Drill Core	116.7	0.5	<0.05	<0.005	2	<0.5	1.2
3384096	Drill Core	92.8	0.3	<0.05	0.224	<1	<0.5	1.1
3384097	Drill Core	102.9	0.6	0.08	0.007	<1	<0.5	1.5
3384098	Drill Core	96.9	0.5	0.09	0.011	<1	<0.5	1.2
3384099	Drill Core	93.8	0.6	0.09	<0.005	<1	<0.5	1.1
3384100	Rock Pulp	143.9	2.5	0.06	<0.005	2	0.8	1.2
3384101	Drill Core	102.3	0.5	<0.05	<0.005	1	<0.5	1.1
3384102	Drill Core	115.2	0.5	0.06	0.024	<1	<0.5	1.4
3384103	Drill Core	218.8	0.6	0.14	<0.005	6	<0.5	2.5
3384104	Drill Core	131.9	0.8	0.07	<0.005	2	<0.5	1.4
3384105	Drill Core	104.0	0.5	<0.05	<0.005	<1	<0.5	1.1
3384106	Drill Core	138.2	0.4	0.19	0.013	4	<0.5	1.3
3384107	Drill Core	132.1	0.5	0.12	<0.005	2	<0.5	1.4
3384108	Drill Core	114.6	0.5	<0.05	0.031	1	<0.5	1.2
3384109	Drill Core	106.6	0.5	<0.05	0.018	2	<0.5	1.1
3384110	Drill Core	106.3	0.4	0.06	<0.005	2	<0.5	1.1
3384111	Drill Core	100.0	0.5	<0.05	<0.005	2	<0.5	1.0
3384112	Drill Core	98.2	0.5	<0.05	0.006	<1	<0.5	1.0
3384113	Drill Core	102.0	0.4	<0.05	0.013	<1	<0.5	1.2
3384114	Drill Core	81.7	0.5	<0.05	0.014	1	<0.5	1.0
3384115	Drill Core	87.7	0.5	<0.05	0.010	2	<0.5	1.0
3384116	Drill Core	119.6	0.5	<0.05	0.257	2	<0.5	1.2
3384117	Drill Core	109.1	0.4	<0.05	0.007	2	<0.5	1.1
3384118	Drill Core	95.0	0.6	<0.05	0.005	<1	<0.5	1.0
3384119	Drill Core	106.5	0.4	<0.05	0.199	3	<0.5	1.2
3384120	Rock	30.3	1.5	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
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Project: Berg
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CERTIFICATE OF ANALYSIS VAN19002149.1

Method		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384121	Drill Core	5.08	0.019	15.4	1728.3	6.3	20	0.7	12.2	16.2	211	4.08	<1	5.3	8.3	360	<0.1	0.1	0.2	93	1.98
3384122	Drill Core	2.79	0.014	124.5	1153.8	6.4	23	0.4	10.6	11.8	247	3.34	2	5.0	8.5	440	0.2	<0.1	0.1	96	2.43
3384123	Drill Core	3.63	0.013	38.7	1035.9	6.7	22	0.4	11.6	18.2	210	3.71	<1	5.5	8.5	389	<0.1	<0.1	0.2	92	2.17
3384124	Drill Core	2.58	0.007	129.4	542.8	6.1	24	0.2	10.5	12.6	260	3.44	<1	4.6	9.7	410	<0.1	<0.1	0.1	84	2.38
3384125	Drill Core	3.74	0.008	8.6	765.1	6.4	27	0.3	11.2	10.7	283	3.35	<1	4.3	8.3	430	<0.1	<0.1	0.1	91	2.46
3384126	Drill Core	4.91	0.010	12.2	1213.4	7.1	24	0.4	10.9	10.0	230	3.58	<1	4.8	8.6	398	<0.1	<0.1	0.2	83	2.08
3384127	Drill Core	4.70	0.007	8.1	779.7	6.4	27	0.2	10.8	10.1	274	3.15	<1	4.6	8.5	414	0.1	<0.1	<0.1	90	2.39
3384128	Drill Core	5.07	0.008	9.6	659.6	6.7	23	0.3	9.9	10.7	248	3.48	1	5.1	8.9	403	<0.1	0.1	0.1	89	2.17
3384129	Drill Core	2.68	0.006	8.2	784.9	7.0	23	0.2	9.2	10.4	239	3.10	1	5.1	9.1	394	<0.1	<0.1	0.1	84	2.19
3384130	Drill Core	5.11	0.006	63.3	732.3	5.6	19	0.3	9.7	17.0	157	5.57	<1	6.2	8.9	222	<0.1	0.1	0.3	89	1.23
3384131	Drill Core	3.26	0.010	4.2	1169.6	6.1	17	0.4	11.6	19.7	177	5.00	<1	9.0	8.9	238	<0.1	<0.1	0.3	84	1.18
3384132	Drill Core	4.40	0.008	116.6	1199.7	8.4	22	0.3	8.5	17.5	183	4.03	<1	6.9	10.0	306	0.1	0.1	0.3	82	1.57
3384133	Drill Core	2.41	0.005	11.5	772.8	7.3	20	0.2	8.2	11.1	183	3.30	<1	4.4	8.9	352	<0.1	0.2	0.1	83	1.81
3384134	Drill Core	3.70	<0.005	7.2	351.7	7.1	20	0.1	7.2	10.2	171	3.46	1	5.2	9.4	322	<0.1	<0.1	0.2	68	1.63
3384135	Drill Core	4.45	0.010	17.8	1347.7	6.3	15	0.5	11.3	23.0	159	5.58	<1	8.3	9.5	187	<0.1	0.1	0.4	92	0.76
3384136	Drill Core	3.19	0.006	32.3	638.1	5.1	18	0.2	10.7	18.0	157	6.26	<1	4.6	8.0	241	<0.1	0.1	0.3	92	1.25
3384137	Drill Core	4.19	0.006	5.6	814.9	7.8	25	0.3	10.3	11.1	232	3.39	1	5.5	9.8	423	<0.1	0.1	0.1	89	2.22
3384138	Drill Core	3.48	0.005	4.5	490.6	6.0	18	0.2	10.8	14.7	164	4.68	<1	6.0	10.0	306	<0.1	0.1	0.3	90	1.57
3384139	Drill Core	3.08	0.006	6.2	623.8	8.3	23	0.2	9.3	14.6	166	3.62	1	6.5	13.2	372	<0.1	0.2	0.3	93	1.91
3384140	Rock Pulp	0.06	0.704	319.9	5349.1	21.0	85	0.8	41.5	15.4	537	4.98	26	4.0	16.1	303	0.8	3.7	0.7	131	2.60
3384141	Drill Core	3.44	0.010	4.6	874.2	8.4	24	0.3	9.3	13.1	210	3.06	3	4.9	11.2	337	<0.1	0.1	0.2	97	1.93
3384142	Drill Core	4.09	0.033	18.8	3846.8	7.9	31	1.3	15.9	41.2	265	8.24	1	4.8	8.7	136	0.1	0.2	0.5	103	1.10
3384143	Drill Core	3.29	0.028	28.2	2568.6	10.0	28	0.8	13.5	26.8	246	5.45	1	6.2	15.7	238	0.1	0.2	0.4	108	1.21
3384144	Drill Core	3.22	0.009	14.3	848.3	8.1	18	0.6	9.0	12.9	164	2.67	2	4.5	9.4	376	<0.1	<0.1	0.2	92	2.02
3384145	Drill Core	4.86	0.010	23.1	1028.3	7.7	22	0.4	11.8	15.6	185	3.17	3	4.7	8.8	404	0.1	<0.1	0.2	95	2.23
3384146	Drill Core	4.78	0.008	16.1	709.6	8.3	24	0.3	11.3	14.7	199	3.32	2	4.2	8.6	395	<0.1	0.1	0.2	97	2.22
3384147	Drill Core	4.99	0.007	75.7	589.0	10.6	26	0.3	7.1	9.4	192	2.31	2	6.7	13.5	415	0.1	<0.1	0.1	99	1.96
3384148	Drill Core	2.94	0.007	51.7	486.2	8.6	21	0.2	7.9	8.8	182	2.15	1	4.5	9.6	374	<0.1	<0.1	0.1	98	2.36
3384149	Drill Core	4.60	0.006	13.9	308.4	7.8	19	0.1	8.6	12.7	164	2.57	2	3.5	7.5	437	<0.1	0.1	0.2	83	2.60
3384150	Core DUP		0.006	17.6	308.1	7.8	22	<0.1	8.4	12.3	171	2.70	2	4.2	8.9	451	<0.1	<0.1	0.2	82	2.68

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CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384121	Drill Core	0.095	12.3	20	1.05	60	0.240	6.94	2.305	3.52	16.1	9.1	28	1.5	9.3	3.2	0.3	1	8	12.8	2.9
3384122	Drill Core	0.094	14.2	21	1.12	129	0.281	7.23	2.639	3.10	4.1	10.3	32	1.1	9.9	3.8	0.3	1	8	11.9	1.8
3384123	Drill Core	0.098	12.7	19	1.06	113	0.241	7.01	2.393	3.35	5.8	9.8	29	1.1	9.6	2.9	0.2	1	8	12.3	2.7
3384124	Drill Core	0.090	12.2	19	1.03	124	0.252	6.73	2.432	3.00	5.5	12.3	27	0.9	8.9	4.5	0.4	<1	7	10.2	1.8
3384125	Drill Core	0.086	11.6	19	1.06	159	0.283	6.95	2.522	3.20	6.6	13.1	27	0.9	9.3	5.1	0.4	1	7	10.7	1.5
3384126	Drill Core	0.089	10.4	19	1.00	78	0.234	6.90	2.353	3.18	14.5	11.9	24	1.3	9.4	4.0	0.3	1	7	11.6	2.5
3384127	Drill Core	0.087	12.2	17	1.08	142	0.265	7.04	2.544	3.06	9.0	9.8	27	0.9	9.2	4.8	0.4	<1	8	11.8	1.6
3384128	Drill Core	0.083	11.2	18	1.03	85	0.255	7.14	2.474	2.99	12.7	10.7	25	1.2	9.5	4.3	0.3	2	7	11.9	2.0
3384129	Drill Core	0.084	14.7	17	1.02	112	0.243	7.07	2.499	2.97	7.2	13.3	32	0.8	9.8	4.0	0.4	1	7	12.1	1.7
3384130	Drill Core	0.083	11.2	17	0.88	23	0.181	6.49	1.518	3.34	24.9	9.2	27	3.7	9.8	2.3	0.2	1	7	12.3	5.5
3384131	Drill Core	0.080	11.8	13	0.91	25	0.189	6.34	1.794	3.24	19.7	11.5	27	2.8	9.5	2.8	0.3	1	7	13.9	4.8
3384132	Drill Core	0.079	17.0	17	0.91	39	0.182	6.48	2.018	3.66	9.9	10.7	36	1.2	9.0	2.1	0.2	<1	6	11.3	3.9
3384133	Drill Core	0.085	13.4	18	0.99	58	0.210	7.03	2.314	3.14	9.1	10.8	30	1.6	8.7	2.4	0.2	2	7	14.2	2.7
3384134	Drill Core	0.062	11.3	14	0.75	41	0.179	7.19	2.254	3.20	14.2	11.0	25	2.4	7.6	2.6	0.2	1	5	9.8	3.0
3384135	Drill Core	0.081	11.4	17	0.85	25	0.153	6.30	1.714	3.84	23.0	10.9	27	3.1	9.0	2.0	0.2	1	6	16.4	5.3
3384136	Drill Core	0.084	13.1	15	0.98	22	0.191	6.57	1.727	3.31	21.1	8.1	31	3.5	10.5	2.1	0.2	1	8	12.0	6.4
3384137	Drill Core	0.085	12.2	20	1.07	103	0.261	7.26	2.680	3.12	3.9	10.4	27	1.2	9.6	3.7	0.4	1	7	12.0	1.7
3384138	Drill Core	0.086	12.5	17	1.04	32	0.211	6.73	2.119	3.04	14.3	11.1	29	2.7	9.8	3.5	0.3	1	7	11.7	4.3
3384139	Drill Core	0.091	19.8	19	1.15	649	0.223	8.14	2.415	2.86	8.4	14.8	39	2.0	11.7	3.5	0.3	2	8	12.0	2.8
3384140	Rock Pulp	0.094	28.0	70	1.54	547	0.465	7.11	1.983	2.71	4.4	66.9	55	3.4	22.2	16.2	1.1	3	12	30.3	0.5
3384141	Drill Core	0.095	14.3	20	1.28	107	0.249	7.09	2.355	2.97	3.2	10.7	33	1.2	10.0	2.3	0.2	1	8	17.7	2.0
3384142	Drill Core	0.084	12.1	16	1.74	50	0.211	6.44	1.500	3.19	8.0	8.3	28	2.8	8.1	2.4	0.2	3	7	31.5	6.5
3384143	Drill Core	0.087	26.3	24	1.45	1491	0.204	8.64	1.713	3.55	8.0	10.5	47	2.2	10.2	5.4	0.2	2	9	28.4	3.8
3384144	Drill Core	0.082	13.6	20	1.11	131	0.215	6.96	2.369	2.90	4.6	9.3	29	1.1	9.3	2.0	0.2	2	7	12.1	2.1
3384145	Drill Core	0.100	12.2	22	1.14	70	0.242	7.10	2.540	2.90	5.2	9.6	27	1.0	9.8	2.2	0.2	1	8	13.9	2.2
3384146	Drill Core	0.094	12.7	22	1.10	61	0.245	7.17	2.556	2.91	6.3	9.5	27	0.9	9.5	2.6	0.3	1	8	12.9	2.5
3384147	Drill Core	0.085	27.0	19	1.20	1453	0.243	7.72	2.224	3.29	4.6	9.0	48	0.7	9.9	2.1	0.2	1	9	13.1	1.4
3384148	Drill Core	0.089	14.5	17	1.16	84	0.241	7.05	2.228	3.34	4.3	15.4	31	0.7	9.8	2.7	0.2	2	7	14.0	1.8
3384149	Drill Core	0.111	12.6	10	1.02	60	0.208	6.87	2.831	3.22	3.3	36.0	27	0.5	9.3	2.7	0.2	2	6	12.2	3.0
3384150	Core DUP	0.112	14.7	11	1.05	52	0.216	7.28	2.946	3.08	3.6	37.7	30	0.5	10.3	2.8	0.2	1	6	12.9	3.2

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384121	Drill Core	119.9	0.5	<0.05	0.035	3	<0.5	1.2
3384122	Drill Core	107.2	0.5	<0.05	0.142	<1	<0.5	1.2
3384123	Drill Core	118.7	0.4	<0.05	0.037	3	<0.5	1.2
3384124	Drill Core	96.4	0.5	<0.05	1.130	1	<0.5	1.0
3384125	Drill Core	96.5	0.5	<0.05	0.011	1	<0.5	1.1
3384126	Drill Core	114.3	0.5	<0.05	0.013	1	<0.5	1.3
3384127	Drill Core	95.3	0.5	<0.05	0.005	2	<0.5	1.1
3384128	Drill Core	102.2	0.5	<0.05	0.009	1	<0.5	1.2
3384129	Drill Core	101.9	0.7	<0.05	0.008	1	<0.5	1.1
3384130	Drill Core	161.1	0.4	<0.05	0.025	4	<0.5	1.6
3384131	Drill Core	133.0	0.6	<0.05	<0.005	5	<0.5	1.3
3384132	Drill Core	138.8	0.6	<0.05	0.079	4	<0.5	1.5
3384133	Drill Core	121.2	0.5	<0.05	<0.005	2	<0.5	1.4
3384134	Drill Core	127.6	0.4	<0.05	<0.005	2	<0.5	1.3
3384135	Drill Core	159.1	0.5	<0.05	0.011	5	<0.5	1.5
3384136	Drill Core	159.3	0.4	<0.05	0.026	4	<0.5	1.6
3384137	Drill Core	117.4	0.5	<0.05	<0.005	<1	<0.5	1.4
3384138	Drill Core	152.3	0.5	<0.05	<0.005	3	<0.5	1.5
3384139	Drill Core	145.9	0.7	<0.05	0.006	3	<0.5	1.4
3384140	Rock Pulp	130.6	2.1	0.08	0.005	3	0.6	0.9
3384141	Drill Core	123.8	0.5	<0.05	<0.005	3	<0.5	1.4
3384142	Drill Core	150.8	0.4	0.07	0.014	7	<0.5	1.9
3384143	Drill Core	181.7	0.5	<0.05	0.026	4	<0.5	1.8
3384144	Drill Core	108.0	0.4	<0.05	0.006	2	<0.5	1.3
3384145	Drill Core	113.8	0.5	<0.05	0.011	3	<0.5	1.3
3384146	Drill Core	108.4	0.5	<0.05	0.010	3	<0.5	1.3
3384147	Drill Core	174.4	0.4	<0.05	0.026	1	<0.5	1.4
3384148	Drill Core	119.0	0.6	<0.05	0.029	1	<0.5	1.5
3384149	Drill Core	100.4	1.1	<0.05	<0.005	3	<0.5	1.3
3384150	Core DUP	109.2	1.1	<0.05	0.009	2	<0.5	1.3

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384151	Drill Core	4.92	0.012	34.7	858.0	8.4	21	0.3	8.1	13.4	177	2.52	2	6.1	8.7	423	0.2	0.1	0.2	79	2.41
3384152	Drill Core	2.35	0.008	15.5	582.5	8.3	23	0.2	8.8	11.2	188	2.47	2	3.4	8.1	425	0.1	0.1	0.2	80	2.58
3384153	Drill Core	3.27	0.007	17.5	520.9	8.8	23	0.2	8.9	12.0	196	2.77	2	3.5	8.5	425	<0.1	0.1	0.2	79	2.62
3384154	Drill Core	3.94	0.006	28.9	521.1	10.4	27	0.2	7.1	9.0	205	2.30	2	3.9	8.7	432	0.1	<0.1	0.2	76	2.88
3384155	Drill Core	3.54	0.010	14.9	1012.8	10.1	27	0.4	11.2	16.0	234	3.17	<1	4.8	11.0	482	<0.1	<0.1	0.4	80	2.68
3384156	Drill Core	4.16	0.010	13.3	843.8	8.5	29	0.3	10.2	16.9	256	3.84	2	4.8	10.0	303	<0.1	0.1	0.2	104	2.29
3384157	Drill Core	4.91	0.009	32.7	736.1	8.6	29	0.3	10.5	11.6	232	3.39	1	4.9	8.2	353	0.1	<0.1	0.3	91	1.99
3384158	Drill Core	2.42	0.012	22.0	1741.7	8.0	29	0.7	13.8	23.8	257	4.95	2	5.1	7.4	294	0.2	0.1	0.4	90	1.84
3384159	Drill Core	2.57	0.010	59.6	970.5	8.0	27	0.4	10.6	13.0	236	3.16	3	5.1	8.7	397	0.1	<0.1	0.2	94	2.02
3384160	Rock	1.07	0.005	1.0	4.6	3.0	36	<0.1	0.8	3.5	616	1.91	3	1.1	2.7	190	<0.1	<0.1	<0.1	32	1.47
3384161	Drill Core	4.64	0.007	10.9	655.6	8.2	29	0.3	9.5	10.4	229	2.89	2	4.3	7.8	380	<0.1	<0.1	0.2	85	1.93
3384162	Drill Core	2.84	0.017	25.4	1554.9	9.3	28	0.6	13.0	20.6	274	4.16	2	4.4	8.0	265	<0.1	<0.1	0.4	95	2.19
3384163	Drill Core	4.65	0.012	33.6	781.3	7.8	25	0.3	10.8	13.2	228	3.02	3	5.0	9.0	370	<0.1	<0.1	0.2	91	2.36
3384164	Drill Core	4.98	0.009	26.5	505.7	7.9	28	0.2	10.1	10.4	255	2.99	2	4.6	8.7	411	<0.1	<0.1	0.2	92	2.34
3384165	Drill Core	2.94	0.009	59.5	794.9	8.4	31	0.3	11.4	16.0	240	3.18	3	4.5	7.5	407	0.1	<0.1	0.2	91	2.18
3384166	Drill Core	4.43	0.006	183.3	314.5	8.1	22	0.1	8.6	8.0	196	2.29	2	3.7	8.1	458	0.3	<0.1	0.2	72	2.46
3384167	Drill Core	4.68	0.007	37.4	408.1	8.0	24	0.1	9.6	10.5	202	2.65	2	3.8	7.7	443	0.2	<0.1	0.2	80	2.58
3384168	Drill Core	5.25	0.006	83.1	368.4	7.7	24	0.1	9.9	12.2	220	2.58	2	3.4	8.1	495	0.2	<0.1	0.2	84	2.97
3384169	Drill Core	5.07	0.008	52.1	530.7	7.8	24	0.1	9.1	11.3	223	2.53	2	4.0	6.9	460	<0.1	<0.1	0.1	86	2.61
3384170	Drill Core	5.03	0.007	68.1	537.1	7.6	23	0.2	9.6	10.3	228	2.42	3	3.4	7.5	469	0.1	<0.1	0.1	85	2.62
3384171	Drill Core	4.64	0.007	8.2	601.7	7.7	22	0.2	9.1	10.0	214	2.49	2	4.0	8.2	484	<0.1	<0.1	0.2	79	2.43
3384172	Drill Core	5.00	0.008	74.9	556.3	8.1	25	0.2	7.9	9.8	247	2.54	2	3.3	8.1	378	0.2	0.1	0.6	76	2.57
3384173	Drill Core	4.19	0.007	103.1	513.2	7.6	22	0.2	8.8	11.0	202	2.59	2	3.9	8.1	629	0.2	<0.1	0.2	81	2.52
3384174	Drill Core	2.93	0.009	64.6	839.2	7.5	28	0.4	11.1	13.3	267	3.19	3	5.4	11.2	486	<0.1	0.1	0.4	91	2.36
3384175	Drill Core	4.71	0.011	18.9	1022.5	7.9	31	0.5	11.0	16.4	266	3.21	3	6.8	10.6	432	<0.1	0.1	0.4	87	2.10
3384176	Drill Core	5.04	0.010	137.9	866.1	8.9	30	0.4	11.0	17.8	259	2.97	4	4.1	8.9	403	0.2	0.1	0.4	82	2.19
3384177	Drill Core	4.05	0.022	199.6	2316.8	8.8	34	1.0	15.2	18.7	276	3.37	2	4.3	8.3	398	<0.1	0.2	0.4	80	2.20
3384178	Drill Core	4.05	0.022	181.4	2465.5	8.0	33	1.1	13.6	17.7	290	3.48	3	4.9	9.5	414	0.2	0.2	0.3	91	1.98
3384179	Drill Core	4.40	0.016	137.6	1623.9	8.2	32	0.7	12.5	24.6	304	3.81	2	5.2	8.5	381	0.2	0.2	0.4	87	1.86
3384180	Rock Pulp	0.06	0.223	92.0	2680.1	20.1	77	0.4	63.5	15.3	563	4.32	18	4.2	17.4	301	0.4	2.1	0.7	121	2.54

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CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384151	Drill Core	0.104	13.6	12	0.99	64	0.209	6.96	2.580	3.59	8.1	40.4	28	0.6	9.5	3.0	0.2	<1	6	12.3	2.7
3384152	Drill Core	0.116	14.2	11	1.06	67	0.213	6.90	2.414	3.42	2.7	39.8	30	0.5	10.3	2.4	0.2	2	6	14.6	2.7
3384153	Drill Core	0.115	16.1	11	1.00	73	0.215	7.11	2.653	3.60	3.8	42.2	32	0.4	10.5	2.8	0.2	1	6	13.7	2.9
3384154	Drill Core	0.167	16.1	11	0.94	88	0.217	7.35	2.460	4.10	2.9	40.5	33	0.5	11.7	2.7	0.2	2	6	13.9	2.5
3384155	Drill Core	0.108	18.7	13	0.99	70	0.244	7.46	2.362	3.70	8.9	33.1	38	0.9	11.0	3.2	0.2	<1	7	13.9	3.0
3384156	Drill Core	0.105	13.4	21	1.57	75	0.273	7.00	1.904	3.93	4.8	15.3	30	1.4	9.8	3.1	0.3	1	8	30.0	3.1
3384157	Drill Core	0.090	11.8	20	1.16	67	0.245	6.44	2.476	2.99	11.9	9.7	26	1.1	9.7	2.8	0.3	1	7	15.0	2.4
3384158	Drill Core	0.088	12.1	20	1.34	42	0.246	6.70	2.110	3.26	5.5	9.0	27	1.2	10.2	2.9	0.3	2	7	20.3	3.6
3384159	Drill Core	0.098	17.1	21	1.23	73	0.261	7.00	2.607	2.99	4.3	10.1	35	0.9	10.6	2.9	0.3	1	8	15.9	2.0
3384160	Rock	0.042	11.6	4	0.45	794	0.203	6.66	3.163	1.70	0.3	49.5	24	0.6	15.6	5.1	0.4	<1	6	2.9	<0.1
3384161	Drill Core	0.090	11.1	18	1.10	111	0.241	6.73	2.508	3.05	4.7	11.0	24	0.8	8.9	2.8	0.3	<1	7	14.2	1.6
3384162	Drill Core	0.094	13.3	22	1.21	62	0.235	6.61	1.839	3.73	5.7	9.8	29	1.0	9.6	2.3	0.2	1	8	22.8	3.3
3384163	Drill Core	0.098	13.0	20	1.08	83	0.248	7.16	2.629	2.58	4.8	10.1	27	0.9	9.4	3.0	0.2	1	7	15.3	2.0
3384164	Drill Core	0.099	13.7	20	1.10	129	0.290	7.18	2.609	1.89	5.3	13.2	29	0.8	10.8	5.3	0.4	1	7	16.2	1.4
3384165	Drill Core	0.092	11.5	18	1.11	75	0.269	6.89	2.581	2.23	5.2	15.2	26	0.7	9.9	3.4	0.3	1	7	13.9	2.0
3384166	Drill Core	0.105	15.3	10	0.93	68	0.233	6.69	2.671	2.45	4.5	34.6	30	0.5	10.1	4.2	0.3	<1	5	12.4	2.1
3384167	Drill Core	0.114	12.9	10	1.03	66	0.239	6.82	2.811	2.53	4.7	37.8	27	0.4	9.8	4.0	0.3	1	6	13.8	2.6
3384168	Drill Core	0.128	14.5	10	1.05	70	0.251	7.03	2.817	2.43	5.9	35.9	29	0.5	10.3	3.5	0.3	1	6	19.2	2.4
3384169	Drill Core	0.127	11.6	10	1.00	68	0.259	6.63	2.912	2.52	4.3	39.5	24	0.6	9.6	4.3	0.3	1	6	14.8	2.2
3384170	Drill Core	0.119	13.0	9	1.03	76	0.255	6.77	2.974	2.30	5.8	37.5	26	0.5	9.7	4.2	0.3	1	6	15.5	2.1
3384171	Drill Core	0.117	12.8	10	1.04	64	0.238	6.76	3.062	2.21	3.8	38.0	26	0.6	9.1	4.1	0.3	1	6	14.4	2.1
3384172	Drill Core	0.114	12.7	10	0.91	66	0.211	6.75	2.537	1.99	4.5	33.8	26	0.9	8.8	3.1	0.2	<1	6	12.8	2.4
3384173	Drill Core	0.123	14.1	10	1.00	66	0.245	6.95	2.896	2.58	4.9	37.1	29	0.5	10.2	3.9	0.3	1	6	13.0	2.4
3384174	Drill Core	0.097	15.6	69	1.08	172	0.294	7.38	2.595	3.11	4.6	13.9	34	0.8	10.7	3.6	0.3	2	8	13.0	1.8
3384175	Drill Core	0.090	13.3	44	1.01	134	0.275	7.21	2.444	3.42	6.0	11.2	29	0.8	10.5	3.3	0.3	2	7	12.6	1.9
3384176	Drill Core	0.091	14.8	28	0.97	84	0.254	6.67	2.106	3.63	6.5	18.2	31	0.9	9.9	3.4	0.3	<1	7	13.3	2.3
3384177	Drill Core	0.107	15.4	22	0.91	98	0.258	6.92	2.325	3.83	9.5	20.1	32	0.7	10.0	3.6	0.3	<1	7	13.8	2.6
3384178	Drill Core	0.096	15.0	21	1.00	113	0.281	7.15	2.394	3.45	12.7	8.3	33	0.9	10.0	3.9	0.3	1	7	15.1	1.9
3384179	Drill Core	0.098	14.9	21	1.03	72	0.256	6.93	2.160	3.57	13.5	11.4	31	0.9	9.9	2.8	0.3	1	8	14.7	2.6
3384180	Rock Pulp	0.100	26.5	89	1.46	898	0.468	7.13	1.989	3.27	3.9	67.0	56	3.1	22.8	16.3	1.1	3	12	33.0	0.3

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CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384151	Drill Core	114.6	1.2	<0.05	0.021	2	<0.5	1.3
3384152	Drill Core	107.2	1.2	<0.05	0.009	2	<0.5	1.3
3384153	Drill Core	108.7	1.2	<0.05	0.014	2	<0.5	1.1
3384154	Drill Core	113.5	1.2	<0.05	0.027	1	<0.5	1.3
3384155	Drill Core	131.9	1.2	0.06	0.008	4	<0.5	1.5
3384156	Drill Core	138.8	0.6	0.06	<0.005	3	<0.5	1.8
3384157	Drill Core	98.5	0.5	<0.05	0.013	2	<0.5	1.4
3384158	Drill Core	118.8	0.4	0.06	0.013	3	<0.5	1.4
3384159	Drill Core	114.0	0.5	<0.05	0.041	2	<0.5	1.4
3384160	Rock	32.8	1.7	<0.05	<0.005	<1	<0.5	<0.5
3384161	Drill Core	102.6	0.5	<0.05	0.006	2	<0.5	1.2
3384162	Drill Core	122.6	0.4	0.09	0.030	3	<0.5	1.4
3384163	Drill Core	92.1	0.5	0.06	0.037	2	<0.5	1.2
3384164	Drill Core	74.6	0.6	<0.05	0.009	1	<0.5	1.1
3384165	Drill Core	70.3	0.6	<0.05	0.073	2	<0.5	1.0
3384166	Drill Core	72.3	1.1	<0.05	0.125	<1	<0.5	1.0
3384167	Drill Core	67.1	1.1	<0.05	0.016	1	<0.5	1.0
3384168	Drill Core	70.0	1.0	<0.05	0.079	2	<0.5	1.1
3384169	Drill Core	59.6	1.2	<0.05	0.049	2	<0.5	1.0
3384170	Drill Core	60.0	1.1	<0.05	0.043	2	<0.5	0.9
3384171	Drill Core	60.8	1.2	<0.05	0.009	<1	<0.5	0.9
3384172	Drill Core	66.7	1.1	<0.05	0.046	1	<0.5	1.2
3384173	Drill Core	77.2	1.1	<0.05	0.097	2	<0.5	1.1
3384174	Drill Core	108.3	0.6	<0.05	0.063	1	<0.5	1.1
3384175	Drill Core	116.0	0.6	<0.05	0.016	2	<0.5	1.0
3384176	Drill Core	124.1	0.6	<0.05	0.066	3	<0.5	1.2
3384177	Drill Core	123.0	0.7	0.05	0.080	3	<0.5	1.2
3384178	Drill Core	123.1	0.4	0.08	0.173	2	<0.5	1.1
3384179	Drill Core	128.9	0.5	<0.05	0.057	4	<0.5	1.2
3384180	Rock Pulp	155.9	2.0	0.06	<0.005	2	0.7	0.9

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Method		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384181	Drill Core	3.68	0.015	35.5	1401.6	7.6	25	0.6	10.4	16.3	248	3.28	2	4.7	9.9	418	0.1	<0.1	0.3	85	1.84
3384182	Drill Core	4.10	0.030	100.1	2866.6	10.6	32	1.6	15.5	29.2	267	4.69	3	6.9	10.7	292	0.2	0.2	0.5	96	1.45
3384183	Drill Core	2.52	0.037	14.8	3494.4	11.1	33	2.0	19.0	34.3	257	4.83	5	7.3	11.5	253	0.2	0.3	0.7	102	1.28
3384184	Drill Core	4.26	0.022	83.9	2011.9	10.0	35	1.1	15.9	27.2	276	4.49	3	6.8	11.2	268	0.1	0.3	0.5	89	1.44
3384185	Drill Core	3.41	0.013	22.4	1103.4	8.2	37	0.6	11.1	44.1	355	4.07	3	5.5	8.5	389	<0.1	0.2	0.5	88	1.81
3384186	Drill Core	4.81	0.013	4.7	949.7	7.8	48	0.5	11.0	15.5	475	4.06	4	5.5	9.8	403	0.1	0.3	0.4	89	2.04
3384187	Drill Core	4.28	0.015	18.4	1239.1	6.8	37	0.6	12.8	16.4	378	4.19	5	5.0	8.7	391	<0.1	0.3	0.3	100	2.00
3384188	Drill Core	3.18	0.015	8.5	1343.1	7.5	36	0.7	13.1	50.7	346	4.77	3	5.0	7.8	375	<0.1	0.2	0.5	88	2.12
3384189	Drill Core	2.13	0.013	12.8	1152.8	6.8	28	0.4	11.7	18.8	285	3.64	2	7.3	10.9	376	<0.1	0.1	0.2	90	1.87
3384190	Drill Core	2.42	0.014	13.6	1200.7	6.9	32	0.5	11.3	18.9	264	3.49	2	6.9	10.1	378	<0.1	0.1	0.2	87	1.95
3384191	Drill Core	4.66	0.018	49.3	1524.0	8.9	46	0.8	11.8	19.9	393	3.74	2	4.7	11.0	346	0.1	0.2	0.3	94	2.17
3384192	Drill Core	2.97	0.015	7.3	1254.5	8.2	43	0.7	11.2	18.6	335	3.42	4	4.8	10.2	362	<0.1	0.2	0.4	78	1.89
3384193	Drill Core	4.13	0.021	101.9	1674.8	14.9	79	1.4	13.1	18.5	597	5.02	27	5.0	10.3	294	0.3	0.7	1.5	105	2.00
3384194	Drill Core	5.14	0.014	30.6	937.1	7.5	47	0.6	10.5	14.4	434	3.44	3	4.7	10.3	389	<0.1	0.2	0.2	89	2.15
3384195	Drill Core	5.02	0.044	187.0	1780.8	9.3	47	1.2	12.6	19.8	435	4.64	16	4.9	9.8	332	0.2	0.5	1.5	93	2.15
3384196	Drill Core	5.18	0.018	143.2	1164.1	8.6	50	0.8	11.2	18.8	427	3.61	4	5.4	10.3	434	0.2	0.3	0.6	90	2.43

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002149.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384181	Drill Core	0.088	18.6	21	1.02	134	0.251	7.48	2.451	3.55	12.6	8.0	37	0.8	9.7	2.9	0.3	1	7	15.8	1.7
3384182	Drill Core	0.106	21.0	22	0.84	50	0.257	9.41	2.035	3.56	43.1	9.1	44	1.4	11.3	4.1	0.3	2	8	27.8	3.1
3384183	Drill Core	0.119	18.2	33	0.84	42	0.258	8.94	2.001	4.07	43.2	8.8	39	1.4	11.5	3.6	0.3	2	8	26.6	3.3
3384184	Drill Core	0.103	21.2	23	0.81	56	0.248	8.94	2.079	3.96	36.3	8.4	45	1.2	11.4	3.7	0.3	2	8	21.0	3.1
3384185	Drill Core	0.092	15.2	23	1.08	62	0.268	7.37	2.293	3.34	30.4	7.6	33	1.3	11.9	2.8	0.3	1	8	12.1	2.6
3384186	Drill Core	0.091	14.6	20	1.23	133	0.284	7.46	2.294	3.02	10.9	8.6	31	1.8	10.9	4.3	0.4	2	7	15.0	2.0
3384187	Drill Core	0.101	14.3	23	1.24	97	0.307	7.52	2.376	3.25	14.1	8.7	31	1.4	10.5	4.3	0.4	1	9	14.4	2.1
3384188	Drill Core	0.095	13.5	21	1.21	66	0.266	6.99	2.043	3.19	9.5	7.7	29	1.2	10.5	3.4	0.3	2	8	15.3	3.5
3384189	Drill Core	0.087	12.7	22	1.18	81	0.290	7.05	2.278	3.33	6.2	9.7	29	0.8	10.5	3.4	0.4	2	8	14.6	2.0
3384190	Drill Core	0.087	12.8	24	1.15	76	0.297	7.11	2.328	3.45	6.9	10.0	29	0.9	10.6	3.6	0.4	1	8	13.6	2.0
3384191	Drill Core	0.094	14.6	23	1.09	69	0.283	7.09	2.047	3.37	7.3	8.9	32	0.6	10.7	3.1	0.3	1	8	15.4	2.3
3384192	Drill Core	0.081	12.5	140	1.00	104	0.264	7.17	2.250	3.53	6.9	9.9	27	0.8	10.1	3.1	0.3	1	7	13.4	2.0
3384193	Drill Core	0.105	15.6	40	1.32	131	0.296	7.26	1.719	3.18	17.9	7.2	33	2.6	11.7	4.1	0.4	<1	10	25.2	2.9
3384194	Drill Core	0.087	13.1	21	1.13	144	0.314	7.30	2.315	3.16	7.8	8.1	28	1.0	10.1	4.8	0.4	1	8	14.8	1.7
3384195	Drill Core	0.091	13.3	22	1.07	77	0.303	7.16	1.831	3.25	13.9	7.9	29	2.4	10.2	4.7	0.4	<1	8	20.4	2.8
3384196	Drill Core	0.095	12.7	21	1.14	88	0.303	7.14	2.134	3.06	7.4	9.0	29	0.7	10.6	4.8	0.4	2	8	18.0	2.1

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CERTIFICATE OF ANALYSIS VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384181	Drill Core	136.6	0.3	<0.05	0.028	3	<0.5	1.1
3384182	Drill Core	146.9	0.4	0.14	0.079	3	<0.5	1.5
3384183	Drill Core	161.8	0.4	0.09	0.022	4	<0.5	1.5
3384184	Drill Core	152.7	0.4	<0.05	0.053	3	<0.5	1.4
3384185	Drill Core	132.2	0.4	0.07	0.015	3	<0.5	1.4
3384186	Drill Core	131.0	0.5	0.13	<0.005	2	<0.5	1.3
3384187	Drill Core	130.1	0.4	0.10	0.008	<1	<0.5	1.3
3384188	Drill Core	136.4	0.4	0.09	<0.005	3	<0.5	1.3
3384189	Drill Core	122.0	0.5	<0.05	0.006	2	<0.5	1.2
3384190	Drill Core	114.8	0.5	0.07	<0.005	2	<0.5	1.1
3384191	Drill Core	120.7	0.4	0.08	0.049	2	<0.5	1.4
3384192	Drill Core	119.1	0.4	0.05	<0.005	1	<0.5	1.2
3384193	Drill Core	154.4	0.4	0.29	0.094	2	<0.5	1.5
3384194	Drill Core	110.4	0.4	0.07	0.021	2	<0.5	1.2
3384195	Drill Core	140.7	0.4	0.23	0.141	2	<0.5	1.4
3384196	Drill Core	113.2	0.4	0.15	0.073	<1	<0.5	1.3

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QUALITY CONTROL REPORT VAN19002149.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3384003	Drill Core	2.58	0.012	8.8	1683.6	6.8	19	2.2	16.1	24.6	187	5.88	5	4.5	9.0	198	<0.1	0.3	0.6	94	0.96
REP 3384003	QC		0.013																		
3384010	Drill Core	1.64	0.009	4.6	658.7	7.4	22	0.2	11.6	9.7	237	3.52	2	5.4	8.8	298	<0.1	0.2	0.3	97	1.54
REP 3384010	QC			4.2	671.9	7.5	18	0.2	11.2	9.4	230	3.59	3	5.4	9.2	316	0.1	0.2	0.2	98	1.55
3384021	Drill Core	5.00	0.006	5.4	261.2	6.9	26	0.1	11.2	9.5	287	3.19	2	4.7	8.7	536	<0.1	0.2	0.2	93	2.25
REP 3384021	QC		0.006																		
3384043	Drill Core	2.41	0.011	8.6	883.6	11.4	53	0.4	13.0	20.0	570	3.97	2	4.6	8.5	429	<0.1	0.3	0.7	103	2.38
REP 3384043	QC			9.8	890.4	12.0	57	0.4	13.9	20.5	596	4.03	1	4.9	8.9	459	<0.1	0.3	0.7	105	2.43
3384077	Drill Core	4.36	0.011	5.1	260.9	53.0	84	0.4	10.8	10.7	1036	4.28	27	4.4	8.7	377	0.1	0.9	1.3	96	3.20
REP 3384077	QC		0.012																		
3384078	Drill Core	2.19	0.012	6.6	455.8	70.6	225	0.6	9.8	9.2	759	3.28	12	3.8	8.4	345	0.9	1.3	1.3	89	4.23
REP 3384078	QC			8.6	458.8	69.1	233	0.6	9.4	9.3	778	3.37	13	3.6	8.1	339	1.2	1.4	1.1	92	4.29
3384096	Drill Core	2.37	0.009	422.2	235.1	7.6	30	0.2	5.8	8.0	317	2.39	3	2.8	8.2	300	0.3	<0.1	0.5	69	2.97
REP 3384096	QC		0.008																		
3384126	Drill Core	4.91	0.010	12.2	1213.4	7.1	24	0.4	10.9	10.0	230	3.58	<1	4.8	8.6	398	<0.1	<0.1	0.2	83	2.08
REP 3384126	QC			12.0	1236.3	7.1	24	0.4	11.3	11.8	238	3.70	<1	4.4	8.2	391	<0.1	<0.1	0.2	84	2.23
3384152	Drill Core	2.35	0.008	15.5	582.5	8.3	23	0.2	8.8	11.2	188	2.47	2	3.4	8.1	425	0.1	0.1	0.2	80	2.58
REP 3384152	QC		0.007																		
3384162	Drill Core	2.84	0.017	25.4	1554.9	9.3	28	0.6	13.0	20.6	274	4.16	2	4.4	8.0	265	<0.1	<0.1	0.4	95	2.19
REP 3384162	QC			26.9	1598.9	9.6	27	0.6	12.6	19.9	272	4.30	2	5.3	8.3	281	0.2	0.1	0.4	97	2.29
3384170	Drill Core	5.03	0.007	68.1	537.1	7.6	23	0.2	9.6	10.3	228	2.42	3	3.4	7.5	469	0.1	<0.1	0.1	85	2.62
REP 3384170	QC		0.007																		
3384196	Drill Core	5.18	0.018	143.2	1164.1	8.6	50	0.8	11.2	18.8	427	3.61	4	5.4	10.3	434	0.2	0.3	0.6	90	2.43
REP 3384196	QC			138.8	1168.0	8.4	55	0.8	11.4	17.1	441	3.64	5	5.1	9.9	434	0.1	0.3	0.7	88	2.45
Core Reject Duplicates																					
3384033	Drill Core	4.39	<0.005	4.0	382.5	6.2	27	0.1	11.3	11.6	287	3.46	2	4.5	8.6	447	<0.1	<0.1	0.2	97	2.55
DUP 3384033	QC		0.006	3.3	386.8	6.1	26	0.1	11.4	11.5	291	3.42	2	4.5	8.7	439	<0.1	0.1	0.2	95	2.41
3384067	Drill Core	3.85	0.011	7.7	461.5	23.4	62	0.4	12.6	13.5	742	3.79	8	6.4	11.2	418	<0.1	0.8	0.7	94	2.66

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QUALITY CONTROL REPORT VAN19002149.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3384003	Drill Core	0.096	13.8	19	0.70	29	0.181	7.22	1.670	3.23	15.0	8.2	29	2.7	8.4	2.6	0.2	2	8	12.7	4.1
REP 3384003	QC																				
3384010	Drill Core	0.096	16.7	21	1.36	87	0.269	7.00	2.148	4.44	10.7	9.3	35	2.3	8.5	2.6	0.3	1	8	18.4	1.9
REP 3384010	QC	0.099	15.2	20	1.37	77	0.267	7.14	2.216	4.52	7.4	10.2	34	2.4	8.7	2.8	0.3	1	8	19.5	1.9
3384021	Drill Core	0.090	15.5	20	1.19	239	0.275	7.35	2.489	2.67	2.7	9.5	31	1.1	8.9	4.9	0.4	1	8	13.0	0.9
REP 3384021	QC																				
3384043	Drill Core	0.121	15.8	23	1.28	54	0.256	6.93	2.368	3.38	4.5	10.3	35	1.1	11.1	3.5	0.3	1	10	14.8	2.7
REP 3384043	QC	0.131	16.8	25	1.29	61	0.268	7.15	2.394	3.47	4.7	10.1	37	1.3	11.8	3.6	0.3	1	11	14.8	2.7
3384077	Drill Core	0.116	14.2	22	1.00	98	0.291	7.37	1.311	3.31	15.1	13.8	32	3.9	10.9	5.6	0.5	<1	8	28.4	1.7
REP 3384077	QC																				
3384078	Drill Core	0.091	15.1	19	0.95	83	0.252	6.68	1.548	3.02	10.9	13.0	34	1.8	13.9	4.3	0.4	<1	7	28.6	2.6
REP 3384078	QC	0.100	14.0	19	0.96	83	0.260	6.65	1.620	3.01	11.2	12.6	30	1.5	13.0	4.4	0.4	<1	8	29.0	2.7
3384096	Drill Core	0.077	20.7	16	0.84	67	0.200	5.68	1.928	2.93	3.3	7.4	37	0.8	8.4	2.7	0.2	1	6	10.6	2.3
REP 3384096	QC																				
3384126	Drill Core	0.089	10.4	19	1.00	78	0.234	6.90	2.353	3.18	14.5	11.9	24	1.3	9.4	4.0	0.3	1	7	11.6	2.5
REP 3384126	QC	0.082	11.2	21	1.03	84	0.251	6.91	2.363	3.10	13.2	10.9	25	1.2	9.3	3.8	0.3	1	7	12.0	2.7
3384152	Drill Core	0.116	14.2	11	1.06	67	0.213	6.90	2.414	3.42	2.7	39.8	30	0.5	10.3	2.4	0.2	2	6	14.6	2.7
REP 3384152	QC																				
3384162	Drill Core	0.094	13.3	22	1.21	62	0.235	6.61	1.839	3.73	5.7	9.8	29	1.0	9.6	2.3	0.2	1	8	22.8	3.3
REP 3384162	QC	0.102	14.6	22	1.26	68	0.233	6.95	1.901	3.60	5.5	10.3	32	1.1	10.4	2.4	0.2	2	8	23.5	3.4
3384170	Drill Core	0.119	13.0	9	1.03	76	0.255	6.77	2.974	2.30	5.8	37.5	26	0.5	9.7	4.2	0.3	1	6	15.5	2.1
REP 3384170	QC																				
3384196	Drill Core	0.095	12.7	21	1.14	88	0.303	7.14	2.134	3.06	7.4	9.0	29	0.7	10.6	4.8	0.4	2	8	18.0	2.1
REP 3384196	QC	0.086	13.4	22	1.15	95	0.293	7.19	2.143	3.04	7.5	8.7	31	0.7	10.9	4.7	0.5	1	8	18.5	2.1
Core Reject Duplicates																					
3384033	Drill Core	0.098	16.5	20	1.24	189	0.305	7.63	2.677	2.70	2.8	9.3	32	1.0	10.7	5.2	0.4	1	9	12.2	1.1
DUP 3384033	QC	0.097	15.3	20	1.22	202	0.303	7.48	2.644	2.71	2.6	10.1	30	1.0	10.2	5.1	0.4	1	8	12.2	1.0
3384067	Drill Core	0.114	16.1	23	0.98	141	0.253	7.20	1.292	3.09	6.1	14.4	34	1.2	13.8	5.6	0.5	1	9	45.2	1.4

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3384003	Drill Core	128.9	0.5	<0.05	0.015	5	<0.5	1.3
REP 3384003	QC							
3384010	Drill Core	164.8	0.6	0.05	<0.005	<1	<0.5	2.0
REP 3384010	QC	172.7	0.5	<0.05	<0.005	2	<0.5	1.9
3384021	Drill Core	105.8	0.6	<0.05	0.006	<1	<0.5	1.1
REP 3384021	QC							
3384043	Drill Core	127.2	0.5	0.07	0.006	2	<0.5	1.3
REP 3384043	QC	129.3	0.5	0.07	0.008	3	<0.5	1.3
3384077	Drill Core	133.3	0.6	0.12	<0.005	<1	<0.5	2.0
REP 3384077	QC							
3384078	Drill Core	109.0	0.6	0.20	<0.005	<1	<0.5	1.7
REP 3384078	QC	103.8	0.6	0.19	<0.005	<1	<0.5	1.6
3384096	Drill Core	92.8	0.3	<0.05	0.224	<1	<0.5	1.1
REP 3384096	QC							
3384126	Drill Core	114.3	0.5	<0.05	0.013	1	<0.5	1.3
REP 3384126	QC	111.5	0.5	<0.05	0.016	3	<0.5	1.1
3384152	Drill Core	107.2	1.2	<0.05	0.009	2	<0.5	1.3
REP 3384152	QC							
3384162	Drill Core	122.6	0.4	0.09	0.030	3	<0.5	1.4
REP 3384162	QC	129.3	0.5	0.09	0.033	3	<0.5	1.4
3384170	Drill Core	60.0	1.1	<0.05	0.043	2	<0.5	0.9
REP 3384170	QC							
3384196	Drill Core	113.2	0.4	0.15	0.073	<1	<0.5	1.3
REP 3384196	QC	114.7	0.5	0.10	0.072	2	<0.5	1.4
Core Reject Duplicates								
3384033	Drill Core	105.2	0.5	<0.05	<0.005	1	<0.5	1.0
DUP 3384033	QC	98.5	0.6	<0.05	<0.005	1	<0.5	1.0
3384067	Drill Core	145.0	0.6	0.12	<0.005	<1	<0.5	1.5

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Project: Berg
Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002149.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP 3384067	QC		0.014	5.8	446.0	22.8	56	0.4	11.9	13.5	706	3.80	7	6.4	10.9	408	<0.1	0.8	0.7	92	2.70
3384101	Drill Core	2.41	0.010	7.1	471.8	6.3	24	0.2	12.5	11.2	343	4.12	3	4.3	8.5	447	<0.1	0.1	0.2	92	2.23
DUP 3384101	QC		0.008	6.5	457.8	6.5	24	0.2	11.1	12.0	347	4.09	2	4.6	9.2	418	<0.1	0.1	0.2	92	2.26
3384135	Drill Core	4.45	0.010	17.8	1347.7	6.3	15	0.5	11.3	23.0	159	5.58	<1	8.3	9.5	187	<0.1	0.1	0.4	92	0.76
DUP 3384135	QC		0.009	15.9	1374.8	6.7	18	0.5	11.7	26.7	168	5.84	<1	8.0	8.7	181	<0.1	0.1	0.4	90	0.76
3384169	Drill Core	5.07	0.008	52.1	530.7	7.8	24	0.1	9.1	11.3	223	2.53	2	4.0	6.9	460	<0.1	<0.1	0.1	86	2.61
DUP 3384169	QC		0.007	47.2	510.4	8.1	22	0.2	9.3	10.8	219	2.59	1	4.3	7.8	486	<0.1	<0.1	0.1	85	2.68
Reference Materials																					
STD OREAS25A-4A	Standard			2.3	33.9	24.4	39	<0.1	45.7	7.7	518	6.45	10	2.7	15.7	49	<0.1	0.6	0.4	154	0.28
STD OREAS25A-4A	Standard			2.5	36.6	26.1	40	<0.1	44.3	7.8	516	6.69	10	3.0	16.3	49	<0.1	0.6	0.3	161	0.27
STD OREAS25A-4A	Standard			2.2	33.3	25.8	37	<0.1	39.5	7.7	477	6.24	9	2.6	15.3	48	<0.1	0.6	0.3	150	0.29
STD OREAS25A-4A	Standard			2.4	35.8	26.1	47	<0.1	47.4	8.2	500	6.90	11	2.9	16.9	52	<0.1	0.6	0.4	166	0.28
STD OREAS25A-4A	Standard			2.6	34.1	23.6	47	<0.1	46.5	7.4	478	6.45	10	2.7	14.6	42	<0.1	0.6	0.3	163	0.25
STD OREAS25A-4A	Standard			2.4	32.0	22.9	40	<0.1	43.5	7.3	476	6.33	9	2.6	14.8	44	<0.1	0.7	0.3	160	0.26
STD OREAS25A-4A	Standard			2.5	34.2	23.2	40	<0.1	45.9	7.9	480	6.54	10	2.8	15.6	49	<0.1	0.5	0.3	156	0.29
STD OREAS25A-4A	Standard			2.4	30.2	23.2	43	<0.1	43.4	7.5	482	6.31	10	2.6	15.9	48	<0.1	0.6	0.4	155	0.29
STD OREAS45E	Standard			2.2	788.5	18.1	43	0.3	466.3	57.0	556	23.93	16	2.5	13.6	17	<0.1	1.1	0.3	325	0.06
STD OREAS45E	Standard			2.6	801.7	18.9	48	0.3	508.7	63.3	577	24.71	19	2.5	13.0	18	<0.1	1.1	0.3	362	0.06
STD OREAS45H	Standard			1.6	783.9	12.8	37	0.1	440.6	96.0	408	20.10	18	1.8	8.0	31	<0.1	0.7	0.2	276	0.12
STD OREAS45E	Standard			2.5	808.2	20.0	49	0.3	503.0	64.0	587	24.58	18	2.7	14.7	19	<0.1	1.1	0.3	358	0.06
STD OREAS45H	Standard			1.5	768.0	12.3	39	0.1	456.7	88.0	387	18.41	17	1.6	7.3	25	<0.1	0.5	0.2	294	0.13
STD OREAS45E	Standard			2.4	796.8	18.0	43	0.3	459.3	58.2	565	23.61	16	2.5	12.9	17	<0.1	0.9	0.2	317	0.06
STD OREAS45E	Standard			2.4	761.2	17.9	44	0.3	458.1	58.3	547	24.80	17	2.4	13.6	16	<0.1	1.1	0.4	315	0.06
STD OREAS45E	Standard			2.3	795.8	17.8	43	0.3	454.1	58.0	571	24.25	16	2.4	13.7	17	<0.1	0.8	0.3	315	0.06
STD OXC145	Standard		0.212																		
STD OXC145	Standard		0.217																		
STD OXC145	Standard		0.224																		
STD OXC152	Standard		0.220																		
STD OXH139	Standard		1.344																		

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QUALITY CONTROL REPORT VAN19002149.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
DUP 3384067	QC	0.108	16.7	21	0.95	147	0.241	6.89	1.262	2.87	5.8	14.9	35	1.1	13.0	4.9	0.4	1	8	43.4	1.5
3384101	Drill Core	0.096	14.0	20	1.17	119	0.310	7.31	2.672	2.88	5.0	11.7	29	1.3	10.3	5.9	0.6	1	7	11.2	1.4
DUP 3384101	QC	0.097	14.1	19	1.16	128	0.316	7.36	2.660	2.88	4.6	10.9	31	1.3	10.4	5.8	0.5	2	8	12.2	1.4
3384135	Drill Core	0.081	11.4	17	0.85	25	0.153	6.30	1.714	3.84	23.0	10.9	27	3.1	9.0	2.0	0.2	1	6	16.4	5.3
DUP 3384135	QC	0.079	11.7	16	0.86	22	0.152	6.29	1.683	3.61	23.0	9.8	27	3.4	9.1	2.1	0.2	<1	7	14.5	5.6
3384169	Drill Core	0.127	11.6	10	1.00	68	0.259	6.63	2.912	2.52	4.3	39.5	24	0.6	9.6	4.3	0.3	1	6	14.8	2.2
DUP 3384169	QC	0.115	14.0	10	1.03	72	0.254	7.05	2.951	2.51	4.5	39.9	28	0.5	10.3	4.0	0.3	2	6	14.4	2.3
Reference Materials																					
STD OREAS25A-4A	Standard	0.048	22.5	111	0.35	154	0.932	9.15	0.130	0.48	2.1	142.2	50	3.8	9.9	19.3	1.4	2	13	37.9	<0.1
STD OREAS25A-4A	Standard	0.053	21.6	115	0.34	153	0.932	9.10	0.137	0.48	1.9	169.0	47	5.0	11.1	20.8	1.5	<1	13	43.3	<0.1
STD OREAS25A-4A	Standard	0.051	22.4	110	0.32	144	0.900	8.47	0.124	0.48	1.7	140.4	47	4.2	10.6	18.5	1.3	<1	13	34.8	<0.1
STD OREAS25A-4A	Standard	0.050	23.4	119	0.32	147	1.012	9.35	0.133	0.48	2.0	144.0	49	4.1	11.3	19.7	1.4	<1	13	36.9	<0.1
STD OREAS25A-4A	Standard	0.049	19.1	120	0.32	139	0.951	8.57	0.124	0.48	1.8	143.0	42	3.9	9.9	19.2	1.3	<1	12	37.5	<0.1
STD OREAS25A-4A	Standard	0.048	18.6	112	0.32	136	0.908	8.57	0.124	0.48	1.7	141.3	42	3.7	9.4	18.0	1.3	<1	12	35.8	<0.1
STD OREAS25A-4A	Standard	0.052	21.6	112	0.34	136	0.948	8.94	0.127	0.52	1.7	159.9	46	3.9	10.4	18.8	1.3	<1	12	35.7	<0.1
STD OREAS25A-4A	Standard	0.047	21.8	99	0.30	141	0.906	8.92	0.118	0.48	1.6	141.4	47	3.7	10.8	17.9	1.3	<1	12	36.0	<0.1
STD OREAS45E	Standard	0.032	11.4	929	0.17	262	0.547	7.06	0.060	0.35	1.0	87.7	25	1.1	7.8	6.3	0.5	<1	94	6.3	<0.1
STD OREAS45E	Standard	0.038	8.2	937	0.18	268	0.591	7.37	0.064	0.37	1.0	104.0	19	1.3	7.8	6.6	0.6	<1	98	6.8	<0.1
STD OREAS45H	Standard	0.027	14.5	632	0.25	356	0.887	7.73	0.094	0.22	1.0	124.0	29	2.2	11.7	14.3	1.0	1	62	13.9	<0.1
STD OREAS45E	Standard	0.039	12.7	1098	0.16	272	0.571	7.49	0.057	0.37	1.0	103.9	26	1.4	9.2	6.6	0.5	<1	102	7.1	<0.1
STD OREAS45H	Standard	0.022	10.9	636	0.25	332	0.912	7.96	0.090	0.19	0.9	112.7	21	1.7	9.2	14.0	0.9	<1	55	13.7	<0.1
STD OREAS45E	Standard	0.034	8.4	951	0.15	236	0.526	6.79	0.055	0.32	0.9	94.6	19	1.1	7.4	6.2	0.5	<1	87	6.6	<0.1
STD OREAS45E	Standard	0.035	10.6	921	0.15	237	0.534	6.67	0.053	0.35	0.9	92.9	24	1.2	8.2	5.9	0.5	<1	86	6.4	<0.1
STD OREAS45E	Standard	0.034	10.8	960	0.16	251	0.542	6.87	0.055	0.36	0.7	93.6	24	1.4	8.3	6.6	0.5	1	94	6.7	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC152	Standard																				
STD OXH139	Standard																				

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QUALITY CONTROL REPORT VAN19002149.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
DUP 3384067	QC	144.8	0.7	0.13	<0.005	<1	<0.5	1.4
3384101	Drill Core	102.3	0.5	<0.05	<0.005	1	<0.5	1.1
DUP 3384101	QC	97.1	0.5	0.06	<0.005	1	<0.5	1.2
3384135	Drill Core	159.1	0.5	<0.05	0.011	5	<0.5	1.5
DUP 3384135	QC	151.2	0.5	<0.05	0.020	6	<0.5	1.5
3384169	Drill Core	59.6	1.2	<0.05	0.049	2	<0.5	1.0
DUP 3384169	QC	67.6	1.2	<0.05	0.049	1	<0.5	1.0
Reference Materials								
STD OREAS25A-4A	Standard	56.4	4.1	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	58.6	4.3	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	58.0	3.9	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	62.1	4.0	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	51.3	3.8	0.10	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	51.4	3.6	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	56.4	3.7	<0.05	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	57.6	3.8	0.08	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	19.9	2.8	0.06	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	19.9	3.1	0.06	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	25.3	3.5	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	23.1	3.0	0.12	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	19.3	3.1	0.12	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	19.8	2.7	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.4	2.7	<0.05	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.1	2.6	0.10	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC152	Standard							
STD OXH139	Standard							

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		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXH139	Standard		1.302																		
STD OXH139	Standard		1.341																		
STD OXH139	Standard		1.342																		
STD OXN134	Standard		7.512																		
STD OXN134	Standard		7.427																		
STD OXN134	Standard		7.753																		
STD OXN134	Standard		7.810																		
STD OXC152 Expected			0.216																		
STD OXC145 Expected			0.212																		
STD OXH139 Expected			1.312																		
STD OXN134 Expected			7.667																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		0.008																		
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

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Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002149.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXC152 Expected																					
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OXN134 Expected																					
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

Project: Berg
Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002149.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXN134	Standard							
STD OXN134	Standard							
STD OXN134	Standard							
STD OXN134	Standard							
STD OXC152 Expected								
STD OXC145 Expected								
STD OXH139 Expected								
STD OXN134 Expected								
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5

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QUALITY CONTROL REPORT VAN19002149.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	1.2	2.5	2.7	37	<0.1	1.0	4.0	658	2.06	3	1.2	3.2	185	<0.1	0.2	<0.1	32	1.40
ROCK-VAN	Prep Blank		<0.005	1.2	2.7	3.0	36	<0.1	0.8	4.0	634	2.10	2	1.3	3.1	195	<0.1	0.2	<0.1	32	1.46

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Project: Berg
Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002149.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.041	13.9	3	0.48	823	0.198	6.89	3.360	1.67	0.2	47.6	26	0.8	16.0	5.3	0.4	1	7	3.1	<0.1
ROCK-VAN	Prep Blank	0.038	13.0	3	0.47	817	0.195	6.99	3.287	1.71	0.3	49.7	24	0.7	16.9	5.6	0.4	<1	7	3.4	<0.1

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Project: Berg
Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002149.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
BLK	Blank	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	32.3	1.8	0.06	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	33.9	1.7	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Submitted By:	Paul Jago
Receiving Lab:	Canada-Vancouver
Received:	August 08, 2019
Report Date:	August 29, 2019
Page:	1 of 3

CERTIFICATE OF ANALYSIS VAN19002150.1

CLIENT JOB INFORMATION

Project:	Berg
Shipment ID:	BERG_02
P.O. Number	
Number of Samples:	58

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	56	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	1	Sort, label and box pulps			VAN
SPTRF	1	Split samples by riffle splitter			VAN
PUL85	1	Pulverize to 85% passing 200 mesh		Completed	VAN
FA430	58	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	58	Environmental disposal charge-Fire assay lead waste			VAN
MA200	58	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	58	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: Equity Exploration Consultants Ltd.
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8
Canada

CC: Geoff McMaster
Steve Bultitude
Dan Lui
John Bligh

JEFFREY CANNON
Geochemistry Department Supervisor

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Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002150.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384197	Drill Core	4.77	0.018	36.5	965.2	7.2	40	0.7	10.8	17.1	351	3.31	3	6.1	11.0	454	<0.1	0.2	0.7	88	2.29
3384198	Drill Core	2.83	0.025	22.9	1610.4	20.2	97	1.6	10.7	19.7	658	5.07	74	6.1	9.9	288	0.5	1.3	3.0	79	2.05
3384199	Drill Core	3.75	0.045	52.9	1077.8	25.3	74	0.7	9.5	14.7	471	4.21	30	4.7	9.8	574	0.4	0.7	3.9	84	2.60
3384200	Rock	1.07	0.006	1.3	5.3	3.1	39	<0.1	1.0	3.5	648	1.96	2	1.2	3.3	190	<0.1	0.2	0.1	33	1.38
3384201	Drill Core	3.89	0.011	165.6	752.0	7.7	30	0.5	8.3	13.4	280	2.38	3	3.2	9.1	447	<0.1	0.2	0.8	74	2.75
3384202	Drill Core	4.67	0.012	101.6	755.9	7.9	18	0.3	8.3	10.4	191	2.09	1	3.4	10.2	452	<0.1	<0.1	0.2	72	2.41
3384203	Drill Core	4.98	0.011	221.5	442.8	22.8	51	0.3	6.1	6.8	367	2.35	17	3.0	8.7	391	0.5	0.3	1.4	57	3.55
3384204	Drill Core	4.87	0.011	352.0	504.3	10.0	22	0.2	7.1	7.6	209	1.63	1	3.0	7.2	483	0.4	0.1	<0.1	87	3.40
3384205	Drill Core	4.93	0.008	58.7	400.9	9.1	18	0.2	6.3	7.7	164	1.38	2	3.1	10.6	441	<0.1	0.2	<0.1	57	2.41
3384206	Drill Core	4.72	0.006	81.4	257.5	8.4	17	<0.1	5.1	5.5	147	1.17	2	3.0	10.6	385	<0.1	0.1	<0.1	45	2.38
3384207	Drill Core	4.77	0.008	471.2	400.4	8.4	18	0.2	4.9	5.4	179	1.30	2	2.9	9.4	404	0.4	<0.1	<0.1	61	3.03
3384208	Drill Core	4.82	0.017	71.7	800.4	8.7	21	0.4	7.4	10.4	185	1.97	5	4.0	10.5	423	0.2	0.1	0.8	57	2.06
3384209	Drill Core	5.38	0.013	426.1	1016.9	8.0	24	0.5	8.4	9.8	216	1.96	1	3.8	10.9	398	0.2	<0.1	0.3	61	2.31
3384210	Drill Core	4.74	0.014	153.4	889.2	16.6	83	0.4	13.6	15.5	271	2.54	3	2.8	7.9	476	0.3	0.2	0.6	95	3.26
3384211	Drill Core	5.11	0.022	189.7	1696.6	27.8	115	0.7	10.2	13.1	295	2.49	40	2.7	6.8	504	1.7	1.9	0.3	87	3.70
3384212	Drill Core	2.84	0.026	61.1	1524.9	158.5	607	2.1	11.2	13.3	529	4.17	510	3.1	6.1	558	10.0	5.7	1.2	101	3.41
3384213	Drill Core	3.93	0.020	103.6	1490.2	79.4	268	1.4	8.7	14.6	422	2.37	333	2.7	6.0	518	4.3	5.2	0.2	110	3.55
3384214	Drill Core	4.06	0.014	1479.4	1218.8	226.3	625	1.2	6.4	12.1	246	4.72	191	2.8	7.7	267	7.8	2.2	1.2	50	2.47
3384215	Drill Core	3.45	0.025	295.8	1659.4	14.2	55	0.6	11.4	18.6	271	2.43	69	4.3	14.3	502	0.9	1.9	0.3	53	3.69
3384216	Drill Core	4.37	0.013	95.4	766.4	7.5	28	0.4	8.7	12.0	238	2.30	3	4.6	10.5	444	<0.1	0.2	0.2	71	2.40
3384217	Drill Core	4.40	0.010	88.5	581.5	8.2	33	0.3	8.7	11.5	228	2.29	2	5.2	10.7	463	0.2	0.2	0.2	75	2.54
3384218	Drill Core	3.52	0.014	289.6	952.5	8.9	42	0.4	10.9	11.7	332	2.94	3	4.6	9.3	430	0.3	0.1	0.1	94	2.77
3384219	Drill Core	4.52	0.013	223.2	663.6	5.9	29	0.3	9.4	10.1	362	2.87	1	4.8	9.9	442	0.2	0.1	<0.1	88	2.63
3384220	Rock Pulp	0.07	0.718	320.4	5383.6	21.3	93	0.8	41.7	16.1	548	4.97	28	4.0	16.2	327	0.3	3.6	0.6	129	2.60
3384221	Drill Core	3.16	0.012	26.2	738.4	6.0	48	0.1	10.7	11.2	411	3.10	4	5.5	13.2	341	0.2	0.1	<0.1	91	2.88
3384222	Drill Core	5.52	0.023	19.1	2013.0	7.8	44	1.1	11.4	22.4	407	3.27	2	5.9	11.6	430	<0.1	0.2	0.3	93	2.02
3384223	Drill Core	2.53	0.041	47.3	2697.2	6.7	44	0.9	10.1	11.1	346	2.80	2	4.5	10.2	422	<0.1	0.2	0.2	94	2.11
3384224	Drill Core	4.23	0.011	478.7	715.2	7.2	39	0.3	10.8	11.2	402	3.18	2	4.5	9.8	428	0.4	<0.1	0.1	94	2.34
3384225	Drill Core	4.55	0.040	71.4	4908.4	10.6	43	2.0	19.6	32.4	380	5.33	1	4.7	9.6	232	0.1	0.2	0.8	96	1.31
3384226	Drill Core	4.52	0.015	41.3	1098.6	8.6	35	0.4	10.4	13.5	362	3.44	2	4.9	10.4	395	0.1	<0.1	0.2	100	2.04

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Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002150.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384197	Drill Core	0.099	15.2	19	1.11	137	0.302	6.90	2.325	3.22	7.1	8.8	34	0.8	11.1	6.3	0.6	1	7	17.5	1.7
3384198	Drill Core	0.089	16.5	18	0.74	58	0.235	6.76	0.735	3.86	36.4	9.0	33	5.3	10.5	4.1	0.4	<1	6	54.4	3.6
3384199	Drill Core	0.098	14.9	17	0.55	80	0.223	7.24	0.439	3.54	19.3	13.4	32	2.9	10.4	3.4	0.3	2	7	71.7	2.3
3384200	Rock	0.038	12.1	3	0.49	841	0.207	6.63	3.429	1.52	0.3	48.8	23	0.7	16.5	5.4	0.4	1	6	3.1	<0.1
3384201	Drill Core	0.100	16.2	10	0.76	81	0.214	6.94	2.139	3.61	5.8	34.0	33	0.5	10.1	2.6	0.2	<1	5	19.2	2.4
3384202	Drill Core	0.096	18.1	12	0.81	103	0.215	6.87	2.218	3.75	6.0	35.3	35	0.3	9.9	2.7	0.2	1	5	17.7	1.9
3384203	Drill Core	0.076	17.3	12	0.76	106	0.160	6.33	1.132	3.94	17.9	26.7	31	1.1	9.1	1.6	0.1	<1	4	40.4	2.4
3384204	Drill Core	0.120	17.4	11	0.99	128	0.236	6.96	1.719	5.31	17.6	35.7	36	0.6	12.2	2.2	0.2	2	7	24.2	2.7
3384205	Drill Core	0.091	17.6	10	0.75	111	0.168	6.73	2.193	4.20	12.2	29.5	33	0.4	8.8	1.8	0.2	1	5	18.1	1.7
3384206	Drill Core	0.082	18.7	10	0.72	114	0.155	6.63	1.836	4.52	5.2	28.7	36	0.2	7.8	1.9	0.2	<1	4	17.6	1.7
3384207	Drill Core	0.102	19.3	8	0.83	86	0.166	6.79	1.695	4.90	22.4	32.2	37	0.4	10.6	2.1	0.2	<1	5	16.0	2.4
3384208	Drill Core	0.085	16.7	11	0.77	66	0.183	7.05	2.342	3.82	13.2	31.2	32	1.0	9.0	2.9	0.2	<1	5	15.2	2.0
3384209	Drill Core	0.085	17.1	10	0.80	58	0.189	6.99	2.072	3.58	9.3	30.7	33	0.5	9.6	3.0	0.3	<1	5	11.9	2.2
3384210	Drill Core	0.124	16.0	22	1.07	85	0.270	7.16	2.271	4.10	10.8	35.2	33	0.6	11.5	2.5	0.2	<1	7	34.0	2.8
3384211	Drill Core	0.127	15.3	10	0.89	84	0.261	6.99	1.939	3.92	20.3	28.4	32	0.9	11.5	3.1	0.2	2	6	54.4	2.8
3384212	Drill Core	0.132	17.5	9	0.95	71	0.244	7.08	0.870	3.74	32.7	27.5	36	4.1	11.5	2.0	0.2	<1	7	156.6	3.4
3384213	Drill Core	0.145	17.1	7	0.81	117	0.270	7.32	1.443	3.60	43.8	27.8	35	0.7	11.3	2.9	0.2	<1	6	171.3	2.0
3384214	Drill Core	0.081	13.2	11	0.37	31	0.106	6.35	0.442	4.40	22.4	27.4	29	8.5	8.7	1.6	0.1	<1	4	48.4	5.4
3384215	Drill Core	0.102	21.5	12	0.36	70	0.149	6.64	1.218	4.44	9.6	29.4	41	0.6	12.0	2.6	0.2	<1	4	113.3	3.0
3384216	Drill Core	0.099	15.8	11	0.84	61	0.193	7.10	2.844	3.08	3.9	29.3	31	0.4	9.1	2.6	0.2	1	5	21.0	2.2
3384217	Drill Core	0.105	15.4	10	0.86	68	0.219	7.24	2.856	3.13	10.1	33.2	32	0.4	9.8	3.0	0.2	1	6	57.4	2.1
3384218	Drill Core	0.092	16.1	19	1.03	155	0.311	7.37	2.467	2.96	7.8	10.5	33	0.8	11.6	6.2	0.5	1	8	23.8	1.3
3384219	Drill Core	0.083	14.5	17	1.04	485	0.322	7.39	2.498	3.08	3.9	8.6	29	0.8	10.6	6.9	0.7	2	7	21.5	0.8
3384220	Rock Pulp	0.097	26.8	72	1.49	708	0.498	7.28	2.098	3.21	4.0	68.3	56	3.3	23.2	16.3	1.2	3	12	31.6	0.5
3384221	Drill Core	0.088	15.2	17	0.99	524	0.313	7.56	1.856	3.08	11.3	11.4	32	0.9	12.7	7.2	0.6	<1	7	107.5	0.8
3384222	Drill Core	0.094	15.9	19	1.26	92	0.320	7.51	2.461	3.24	4.9	11.0	35	1.8	11.8	6.4	0.6	2	8	15.5	1.4
3384223	Drill Core	0.087	17.5	18	1.21	115	0.289	7.42	2.458	3.18	5.5	9.6	35	1.3	11.3	5.4	0.4	<1	7	16.6	1.2
3384224	Drill Core	0.095	16.1	18	1.18	189	0.330	7.72	2.787	3.17	3.4	9.2	34	0.8	11.7	7.3	0.6	<1	7	16.4	1.0
3384225	Drill Core	0.081	15.6	20	1.05	29	0.235	7.17	1.781	3.70	12.8	7.6	35	1.7	10.7	4.0	0.3	1	8	31.6	3.5
3384226	Drill Core	0.093	17.7	19	1.18	93	0.320	7.65	2.590	3.69	3.2	9.5	36	1.0	11.6	5.7	0.5	2	8	20.6	1.4

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#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002150.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384197	Drill Core	118.0	0.5	0.10	0.032	2	<0.5	1.2
3384198	Drill Core	188.4	0.5	0.61	0.007	1	<0.5	2.0
3384199	Drill Core	153.4	0.6	0.25	0.020	<1	<0.5	1.6
3384200	Rock	33.6	1.6	<0.05	<0.005	1	<0.5	<0.5
3384201	Drill Core	123.1	1.1	0.06	0.053	2	<0.5	1.5
3384202	Drill Core	116.2	1.1	<0.05	0.039	2	<0.5	1.1
3384203	Drill Core	114.8	1.0	<0.05	0.101	<1	<0.5	1.5
3384204	Drill Core	148.0	1.2	<0.05	0.286	<1	<0.5	1.7
3384205	Drill Core	120.2	1.0	<0.05	0.027	1	<0.5	1.1
3384206	Drill Core	122.5	1.0	<0.05	0.022	<1	<0.5	1.2
3384207	Drill Core	141.2	1.1	<0.05	0.175	<1	<0.5	1.4
3384208	Drill Core	125.4	1.0	0.07	0.051	1	<0.5	1.2
3384209	Drill Core	118.8	1.1	0.08	0.363	2	<0.5	1.5
3384210	Drill Core	132.3	1.0	0.06	0.096	2	<0.5	1.5
3384211	Drill Core	110.1	0.9	0.12	0.122	2	<0.5	1.4
3384212	Drill Core	138.0	0.8	0.08	0.026	1	<0.5	1.5
3384213	Drill Core	99.5	0.7	0.05	0.056	1	<0.5	1.3
3384214	Drill Core	178.4	1.0	0.17	0.704	2	<0.5	2.0
3384215	Drill Core	129.2	1.1	0.06	0.148	3	<0.5	1.3
3384216	Drill Core	103.1	1.0	<0.05	0.078	1	<0.5	1.1
3384217	Drill Core	103.1	1.0	<0.05	0.088	2	<0.5	1.0
3384218	Drill Core	104.6	0.5	0.06	0.163	2	<0.5	1.2
3384219	Drill Core	101.8	0.5	<0.05	0.143	<1	<0.5	0.8
3384220	Rock Pulp	149.9	2.1	0.08	0.006	3	<0.5	0.9
3384221	Drill Core	111.7	0.7	<0.05	0.021	3	<0.5	1.1
3384222	Drill Core	135.0	0.5	0.10	0.020	2	<0.5	1.5
3384223	Drill Core	130.0	0.6	0.10	0.052	2	<0.5	1.4
3384224	Drill Core	122.8	0.5	0.06	0.256	1	<0.5	1.2
3384225	Drill Core	152.9	0.4	0.18	0.050	2	<0.5	1.5
3384226	Drill Core	145.1	0.5	<0.05	0.026	2	<0.5	1.3

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CERTIFICATE OF ANALYSIS VAN19002150.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384227	Drill Core	3.04	0.031	79.8	3799.0	9.4	41	1.3	14.4	25.3	364	4.83	2	5.7	12.5	220	0.2	<0.1	0.5	96	1.16
3384228	Drill Core	5.14	0.017	26.0	1229.6	7.7	34	0.4	10.6	14.8	359	3.21	2	5.0	11.1	419	<0.1	<0.1	0.1	95	2.40
3384229	Drill Core	5.12	0.012	61.4	925.2	8.1	40	0.3	10.3	17.3	447	3.60	1	4.4	8.2	402	<0.1	0.1	0.2	98	2.32
3384230	Core DUP		0.013	62.0	899.3	7.9	40	0.3	10.7	17.3	450	3.57	2	4.8	8.9	409	<0.1	<0.1	0.3	95	2.31
3384231	Drill Core	5.08	0.036	74.2	2123.9	7.4	35	0.9	10.9	15.4	383	3.28	1	4.7	9.8	426	0.1	<0.1	0.1	97	2.57
3384232	Drill Core	5.00	0.017	24.2	1081.0	6.3	30	0.4	11.2	11.9	446	3.06	2	4.5	9.2	451	<0.1	<0.1	<0.1	95	2.59
3384233	Drill Core	4.36	0.012	107.0	1077.2	6.4	39	0.4	11.3	13.9	459	3.15	2	5.0	11.1	488	<0.1	<0.1	<0.1	98	2.53
3384234	Drill Core	5.40	0.017	7.8	1445.8	6.5	40	0.6	11.6	16.2	465	3.28	2	5.2	9.0	476	<0.1	<0.1	0.2	104	2.64
3384235	Drill Core	4.72	0.012	152.1	973.7	6.6	38	0.5	11.4	14.7	478	3.24	2	4.7	10.1	453	0.2	0.2	0.2	100	2.56
3384236	Drill Core	5.20	0.014	84.7	950.3	6.7	38	0.3	12.3	14.4	484	3.28	2	5.0	10.5	489	0.1	0.2	0.2	101	2.64
3384237	Drill Core	4.95	0.012	34.7	634.9	6.5	36	0.2	10.1	10.8	499	3.11	3	5.8	11.3	488	<0.1	0.1	0.1	96	2.58
3384238	Drill Core	4.34	0.008	59.1	233.5	6.9	39	0.1	10.9	10.8	553	3.22	2	5.4	12.1	462	0.2	0.1	<0.1	97	2.65
3384239	Drill Core	2.63	0.010	74.3	555.9	6.5	35	0.2	10.8	11.1	476	2.99	2	6.1	12.9	487	<0.1	0.1	<0.1	95	2.66
3384240	Rock	1.07	0.005	1.0	4.1	3.2	40	<0.1	1.4	3.9	674	2.04	4	1.3	3.0	201	<0.1	<0.1	<0.1	36	1.76
3384241	Drill Core	4.94	0.018	31.8	3750.7	6.8	46	1.2	11.5	11.3	492	3.28	1	5.6	12.1	482	0.2	0.1	0.1	99	2.67
3384242	Drill Core	3.64	0.011	102.6	599.6	6.5	35	0.2	10.1	10.7	449	2.87	2	5.1	10.3	489	0.1	0.9	<0.1	93	2.65
3384243	Drill Core	1.17	0.015	86.8	1067.9	7.2	24	0.4	10.3	12.0	238	2.33	2	7.2	13.9	472	0.2	0.1	0.3	64	1.71
3384244	Drill Core	4.70	0.031	257.8	3338.7	12.3	41	1.2	11.8	11.5	396	3.31	2	6.2	10.8	427	0.4	0.1	0.6	97	2.39
3384245	Drill Core	4.80	0.018	129.6	1743.4	7.3	41	0.6	11.6	12.0	454	3.22	2	5.6	11.9	471	0.2	<0.1	0.3	99	2.52
3384246	Drill Core	2.43	0.014	39.0	943.3	6.2	40	0.4	10.8	10.4	523	3.22	2	4.9	10.4	450	<0.1	<0.1	0.2	100	2.42
3384247	Drill Core	4.46	0.018	158.0	1677.5	6.8	53	0.7	12.8	14.0	477	3.25	<1	4.9	9.8	449	0.1	0.1	0.1	100	2.46
3384248	Drill Core	4.47	0.018	335.6	1273.8	6.9	41	0.5	10.5	12.3	443	3.07	3	7.0	13.2	485	0.6	<0.1	0.1	98	2.59
3384249	Drill Core	4.81	0.019	229.2	3150.8	7.0	55	1.1	12.2	12.5	487	3.27	2	5.5	11.8	455	0.2	<0.1	0.6	98	2.51
3384250	Drill Core	4.11	0.018	151.9	1335.5	6.9	43	0.5	10.1	10.8	433	3.01	1	5.2	11.4	438	<0.1	<0.1	0.2	96	2.46
3384301	Drill Core	2.32	0.024	108.9	1505.4	6.1	39	0.5	10.7	10.4	357	2.79	<1	5.3	11.0	437	0.1	<0.1	<0.1	98	2.48
3384302	Drill Core	4.77	0.022	64.8	1554.6	6.4	39	0.5	11.6	11.2	440	2.98	<1	5.1	10.5	471	<0.1	<0.1	0.1	99	2.69
3384303	Drill Core	4.69	0.029	132.1	2574.5	6.9	42	0.9	11.8	10.6	397	2.84	2	4.6	9.6	484	0.2	<0.1	0.1	100	2.57
3384304	Drill Core	4.70	0.017	103.0	1780.1	6.4	40	0.6	10.8	10.5	446	2.97	1	5.6	10.9	451	0.2	0.1	0.1	97	2.48

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CERTIFICATE OF ANALYSIS VAN19002150.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384227	Drill Core	0.083	15.2	20	1.01	42	0.247	7.11	1.966	3.41	35.0	10.6	31	1.3	9.8	4.4	0.4	1	7	33.3	2.9
3384228	Drill Core	0.095	15.9	18	1.12	102	0.309	7.72	2.704	2.92	6.6	11.0	33	0.9	11.0	5.9	0.5	2	7	16.2	1.4
3384229	Drill Core	0.100	12.7	19	1.15	100	0.338	7.68	2.620	3.09	4.6	9.4	27	0.9	10.4	6.4	0.5	2	8	16.5	1.4
3384230	Core DUP	0.091	13.1	19	1.15	115	0.327	7.82	2.615	3.39	4.0	9.4	29	1.1	10.7	6.3	0.5	2	7	16.3	1.4
3384231	Drill Core	0.092	15.1	18	1.07	118	0.320	7.65	2.720	2.93	11.8	8.1	32	1.0	10.2	6.1	0.5	<1	8	14.5	1.3
3384232	Drill Core	0.091	13.8	18	1.15	207	0.321	7.72	2.778	2.74	7.7	7.6	30	0.8	10.4	6.1	0.5	1	7	12.5	0.9
3384233	Drill Core	0.092	16.1	19	1.22	328	0.339	7.83	2.776	2.96	6.6	8.1	32	0.8	11.0	6.5	0.6	2	8	13.7	0.8
3384234	Drill Core	0.103	12.1	20	1.23	180	0.352	7.58	2.927	2.76	5.9	8.7	28	0.7	11.7	7.1	0.6	<1	8	11.7	1.0
3384235	Drill Core	0.097	14.3	19	1.22	334	0.338	7.50	2.835	2.83	3.3	8.1	30	0.9	10.9	7.3	0.7	2	8	11.8	0.8
3384236	Drill Core	0.094	15.0	20	1.26	292	0.360	7.76	2.897	2.85	5.9	9.1	30	0.9	11.5	7.9	0.7	1	8	13.2	0.9
3384237	Drill Core	0.093	17.7	19	1.20	739	0.333	7.57	2.851	2.61	4.4	8.9	34	1.0	11.6	8.4	0.7	1	7	11.1	0.5
3384238	Drill Core	0.094	18.2	19	1.20	851	0.356	7.88	2.947	2.77	1.9	11.0	36	0.8	12.5	8.3	0.8	<1	8	8.5	0.3
3384239	Drill Core	0.089	15.0	18	1.10	881	0.334	7.52	2.930	2.71	1.5	10.1	31	0.7	11.4	7.7	0.7	1	7	9.5	0.5
3384240	Rock	0.039	12.5	5	0.50	780	0.205	6.87	3.702	1.57	0.3	51.8	24	0.8	15.1	5.4	0.4	<1	6	3.0	<0.1
3384241	Drill Core	0.090	13.1	19	1.15	215	0.340	7.27	2.883	2.67	15.2	9.4	32	1.4	11.3	7.3	0.7	2	8	10.2	0.9
3384242	Drill Core	0.090	15.6	17	1.15	933	0.334	7.59	2.887	2.60	2.4	9.6	31	0.8	10.7	7.6	0.7	<1	7	11.1	0.5
3384243	Drill Core	0.079	17.6	17	0.82	66	0.230	6.67	2.830	2.40	2.3	28.4	32	0.5	9.1	4.4	0.5	1	5	7.3	1.6
3384244	Drill Core	0.090	16.0	20	1.11	145	0.310	7.28	2.532	3.02	7.2	8.6	32	1.9	11.7	6.6	0.6	1	7	11.0	1.2
3384245	Drill Core	0.098	16.4	19	1.23	215	0.350	7.77	2.709	3.19	3.2	8.1	35	1.1	12.1	7.2	0.7	1	9	15.7	1.1
3384246	Drill Core	0.100	15.2	20	1.28	786	0.343	7.78	2.892	2.80	3.1	9.7	31	0.9	11.2	8.0	0.7	<1	8	14.0	0.6
3384247	Drill Core	0.096	15.8	20	1.25	437	0.351	7.68	2.788	3.04	3.1	9.4	35	1.1	11.1	7.8	0.7	1	8	15.0	0.8
3384248	Drill Core	0.094	16.6	20	1.21	934	0.349	7.67	2.692	3.05	6.3	10.2	33	1.0	12.6	8.1	0.8	2	8	14.3	0.7
3384249	Drill Core	0.092	20.9	20	1.20	230	0.341	7.54	2.761	2.77	3.3	10.7	40	1.0	11.6	7.6	0.7	1	8	16.5	1.0
3384250	Drill Core	0.088	17.3	18	1.21	401	0.341	7.34	2.620	2.72	5.4	9.9	34	1.0	11.1	7.9	0.7	1	7	18.8	0.8
3384301	Drill Core	0.085	13.9	20	1.26	446	0.341	7.25	2.680	2.49	4.1	10.0	29	0.9	11.6	7.6	0.7	2	7	16.7	0.8
3384302	Drill Core	0.095	17.3	19	1.18	433	0.334	7.49	2.863	2.73	10.0	8.2	33	1.1	11.2	7.1	0.7	2	8	14.6	0.7
3384303	Drill Core	0.100	14.2	20	1.19	296	0.332	7.68	2.766	2.94	8.3	10.0	31	1.2	11.0	6.8	0.7	2	8	13.1	0.9
3384304	Drill Core	0.089	23.6	18	1.17	554	0.324	7.50	2.722	2.82	7.0	8.3	45	1.1	11.9	7.2	0.7	<1	8	12.6	0.7

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Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002150.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384227	Drill Core	131.7	0.6	0.13	0.036	3	<0.5	1.4
3384228	Drill Core	103.9	0.5	<0.05	0.037	<1	<0.5	1.2
3384229	Drill Core	105.2	0.5	<0.05	0.043	3	<0.5	1.2
3384230	Core DUP	120.0	0.5	<0.05	0.049	<1	<0.5	1.2
3384231	Drill Core	98.3	0.5	0.05	0.044	2	<0.5	1.0
3384232	Drill Core	90.5	0.4	<0.05	0.017	2	<0.5	0.9
3384233	Drill Core	97.0	0.5	<0.05	0.124	2	<0.5	0.8
3384234	Drill Core	94.8	0.4	<0.05	<0.005	2	<0.5	0.9
3384235	Drill Core	93.6	0.4	0.13	0.074	1	<0.5	0.9
3384236	Drill Core	99.2	0.6	<0.05	0.087	2	<0.5	0.8
3384237	Drill Core	93.6	0.6	0.06	0.023	<1	<0.5	0.8
3384238	Drill Core	91.5	0.7	<0.05	0.040	2	<0.5	0.7
3384239	Drill Core	93.5	0.6	<0.05	0.051	<1	<0.5	0.8
3384240	Rock	30.6	1.9	<0.05	<0.005	1	<0.5	<0.5
3384241	Drill Core	97.6	0.6	0.15	0.023	2	<0.5	0.9
3384242	Drill Core	92.3	0.5	<0.05	0.060	<1	<0.5	0.8
3384243	Drill Core	96.6	1.2	<0.05	0.063	3	<0.5	1.0
3384244	Drill Core	113.7	0.5	0.17	0.164	2	<0.5	1.0
3384245	Drill Core	118.0	0.4	0.06	0.072	2	<0.5	1.1
3384246	Drill Core	98.6	0.6	<0.05	0.040	1	<0.5	1.1
3384247	Drill Core	113.7	0.6	0.06	0.097	1	<0.5	1.1
3384248	Drill Core	110.6	0.6	0.10	0.198	2	0.6	0.9
3384249	Drill Core	106.6	0.6	0.12	0.138	2	<0.5	1.0
3384250	Drill Core	111.5	0.6	<0.05	0.084	1	<0.5	1.1
3384301	Drill Core	98.3	0.5	<0.05	0.062	2	<0.5	1.0
3384302	Drill Core	93.6	0.5	0.06	0.033	1	<0.5	1.0
3384303	Drill Core	112.5	0.6	0.08	0.090	2	<0.5	1.2
3384304	Drill Core	104.2	0.5	0.08	0.085	2	<0.5	1.0

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Project: Berg
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QUALITY CONTROL REPORT VAN19002150.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3384205	Drill Core	4.93	0.008	58.7	400.9	9.1	18	0.2	6.3	7.7	164	1.38	2	3.1	10.6	441	<0.1	0.2	<0.1	57	2.41
REP 3384205	QC		0.010																		
3384208	Drill Core	4.82	0.017	71.7	800.4	8.7	21	0.4	7.4	10.4	185	1.97	5	4.0	10.5	423	0.2	0.1	0.8	57	2.06
REP 3384208	QC		0.013																		
3384211	Drill Core	5.11	0.022	189.7	1696.6	27.8	115	0.7	10.2	13.1	295	2.49	40	2.7	6.8	504	1.7	1.9	0.3	87	3.70
REP 3384211	QC			215.1	1693.9	27.0	118	0.8	10.0	13.4	284	2.50	39	3.0	7.3	521	1.7	1.8	0.3	86	3.76
3384221	Drill Core	3.16	0.012	26.2	738.4	6.0	48	0.1	10.7	11.2	411	3.10	4	5.5	13.2	341	0.2	0.1	<0.1	91	2.88
REP 3384221	QC		0.013																		
3384241	Drill Core	4.94	0.018	31.8	3750.7	6.8	46	1.2	11.5	11.3	492	3.28	1	5.6	12.1	482	0.2	0.1	0.1	99	2.67
REP 3384241	QC			29.5	3799.6	7.1	44	1.2	11.5	11.4	497	3.34	2	5.5	12.3	493	0.1	0.1	0.2	100	2.71
Core Reject Duplicates																					
3384197	Drill Core	4.77	0.018	36.5	965.2	7.2	40	0.7	10.8	17.1	351	3.31	3	6.1	11.0	454	<0.1	0.2	0.7	88	2.29
DUP 3384197	QC		0.017	29.5	978.5	7.1	40	0.7	9.9	16.0	363	3.23	4	5.8	10.2	455	0.1	0.2	0.7	88	2.24
3384231	Drill Core	5.08	0.036	74.2	2123.9	7.4	35	0.9	10.9	15.4	383	3.28	1	4.7	9.8	426	0.1	<0.1	0.1	97	2.57
DUP 3384231	QC		0.031	72.0	2056.2	7.1	37	0.9	10.7	14.9	372	3.19	1	4.7	9.4	408	0.1	<0.1	0.1	92	2.49
Reference Materials																					
STD OREAS25A-4A	Standard			2.0	34.6	24.1	40	<0.1	46.7	7.7	472	6.62	9	2.8	15.4	44	<0.1	0.6	0.3	164	0.27
STD OREAS25A-4A	Standard			2.2	34.0	22.9	39	<0.1	44.3	7.3	473	6.27	11	2.7	14.8	46	<0.1	0.6	0.3	155	0.28
STD OREAS25A-4A	Standard			2.7	33.3	25.5	45	<0.1	45.6	7.3	546	6.68	10	3.0	16.3	48	<0.1	0.6	0.4	161	0.27
STD OREAS45H	Standard			1.6	803.9	12.4	37	0.1	446.6	87.8	430	20.19	16	1.7	7.6	29	<0.1	0.6	0.1	274	0.14
STD OREAS45E	Standard			2.3	800.1	17.2	42	0.3	471.3	59.3	560	24.04	20	2.4	12.9	17	<0.1	1.0	0.3	321	0.06
STD OREAS45E	Standard			2.3	804.6	18.9	45	0.3	478.3	63.1	603	25.51	17	2.5	14.5	17	<0.1	1.1	0.3	329	0.06
STD OXC152	Standard		0.219																		
STD OXH139	Standard		1.336																		
STD OXH139	Standard		1.343																		
STD OXN134	Standard		7.760																		
STD OXN134	Standard		7.668																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135

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Project: Berg
Report Date: August 29, 2019

QUALITY CONTROL REPORT VAN19002150.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3384205	Drill Core	0.091	17.6	10	0.75	111	0.168	6.73	2.193	4.20	12.2	29.5	33	0.4	8.8	1.8	0.2	1	5	18.1	1.7
REP 3384205	QC																				
3384208	Drill Core	0.085	16.7	11	0.77	66	0.183	7.05	2.342	3.82	13.2	31.2	32	1.0	9.0	2.9	0.2	<1	5	15.2	2.0
REP 3384208	QC																				
3384211	Drill Core	0.127	15.3	10	0.89	84	0.261	6.99	1.939	3.92	20.3	28.4	32	0.9	11.5	3.1	0.2	2	6	54.4	2.8
REP 3384211	QC	0.125	17.2	10	0.90	102	0.265	7.10	1.903	3.82	19.5	30.7	35	1.0	12.1	3.1	0.2	2	7	59.8	2.9
3384221	Drill Core	0.088	15.2	17	0.99	524	0.313	7.56	1.856	3.08	11.3	11.4	32	0.9	12.7	7.2	0.6	<1	7	107.5	0.8
REP 3384221	QC																				
3384241	Drill Core	0.090	13.1	19	1.15	215	0.340	7.27	2.883	2.67	15.2	9.4	32	1.4	11.3	7.3	0.7	2	8	10.2	0.9
REP 3384241	QC	0.099	15.3	19	1.20	407	0.351	7.72	2.868	2.66	16.8	9.2	33	1.4	11.4	7.7	0.7	2	9	10.8	0.9
Core Reject Duplicates																					
3384197	Drill Core	0.099	15.2	19	1.11	137	0.302	6.90	2.325	3.22	7.1	8.8	34	0.8	11.1	6.3	0.6	1	7	17.5	1.7
DUP 3384197	QC	0.093	15.1	17	1.11	104	0.298	7.05	2.289	3.29	7.2	9.1	31	0.7	11.1	6.0	0.6	3	7	16.2	1.6
3384231	Drill Core	0.092	15.1	18	1.07	118	0.320	7.65	2.720	2.93	11.8	8.1	32	1.0	10.2	6.1	0.5	<1	8	14.5	1.3
DUP 3384231	QC	0.086	14.3	17	1.04	114	0.313	7.42	2.685	2.78	12.1	10.1	29	1.0	10.2	6.1	0.5	1	8	15.5	1.2
Reference Materials																					
STD OREAS25A-4A	Standard	0.046	18.4	119	0.34	146	0.937	8.67	0.129	0.45	1.8	150.5	42	3.9	10.4	19.3	1.4	1	11	40.5	<0.1
STD OREAS25A-4A	Standard	0.048	21.4	117	0.34	147	0.857	8.92	0.137	0.46	1.6	134.0	45	3.8	9.7	17.6	1.2	1	11	41.4	<0.1
STD OREAS25A-4A	Standard	0.047	21.0	113	0.34	154	0.977	8.98	0.136	0.51	2.0	157.7	45	4.3	11.1	21.3	1.5	<1	13	36.0	<0.1
STD OREAS45H	Standard	0.022	13.2	686	0.27	336	0.881	8.48	0.096	0.21	0.8	119.6	24	1.7	10.7	13.7	0.9	1	56	14.7	<0.1
STD OREAS45E	Standard	0.036	11.1	1125	0.17	257	0.524	7.00	0.063	0.32	1.0	84.9	23	1.2	8.0	5.8	0.5	<1	93	7.2	<0.1
STD OREAS45E	Standard	0.035	12.2	972	0.18	262	0.541	7.33	0.069	0.35	1.1	88.0	24	1.3	8.6	6.5	0.5	<1	98	7.0	<0.1
STD OXC152	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	

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Project: Berg

Report Date: August 29, 2019

QUALITY CONTROL REPORT VAN19002150.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3384205	Drill Core	120.2	1.0	<0.05	0.027	1	<0.5	1.1
REP 3384205	QC							
3384208	Drill Core	125.4	1.0	0.07	0.051	1	<0.5	1.2
REP 3384208	QC							
3384211	Drill Core	110.1	0.9	0.12	0.122	2	<0.5	1.4
REP 3384211	QC	119.5	1.0	<0.05	0.129	3	<0.5	1.3
3384221	Drill Core	111.7	0.7	<0.05	0.021	3	<0.5	1.1
REP 3384221	QC							
3384241	Drill Core	97.6	0.6	0.15	0.023	2	<0.5	0.9
REP 3384241	QC	103.9	0.6	0.13	0.020	3	<0.5	1.0
Core Reject Duplicates								
3384197	Drill Core	118.0	0.5	0.10	0.032	2	<0.5	1.2
DUP 3384197	QC	114.1	0.6	<0.05	0.021	1	<0.5	1.1
3384231	Drill Core	98.3	0.5	0.05	0.044	2	<0.5	1.0
DUP 3384231	QC	94.2	0.5	<0.05	0.040	2	<0.5	1.0
Reference Materials								
STD OREAS25A-4A	Standard	51.7	4.1	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	55.1	3.7	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	57.5	4.4	0.14	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	21.8	3.1	0.07	<0.005	<1	<0.5	<0.5
STD OREAS45E	Standard	20.7	2.5	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.5	2.8	0.10	<0.005	3	<0.5	<0.5
STD OXC152	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXN134	Standard							
STD OXN134	Standard							
STD OREAS45H Expected		22.5	3.6	0.1		2.02		

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QUALITY CONTROL REPORT VAN19002150.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXC152 Expected			0.216																		
STD OXH139 Expected			1.312																		
STD OXN134 Expected			7.667																		
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		0.007																		
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	1.3	2.0	2.7	34	<0.1	0.9	3.4	613	2.10	2	1.2	3.3	225	<0.1	0.2	<0.1	34	1.57
ROCK-VAN	Prep Blank		0.005	1.2	3.4	3.4	40	<0.1	1.0	3.3	602	2.18	2	1.2	2.8	216	<0.1	0.2	<0.1	33	1.50

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QUALITY CONTROL REPORT VAN19002150.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXC152 Expected																					
STD OXH139 Expected																					
STD OXN134 Expected																					
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.041	11.9	4	0.47	883	0.207	6.99	3.473	1.62	0.3	49.0	25	0.5	17.7	5.4	0.4	1	6	2.7	<0.1
ROCK-VAN	Prep Blank	0.039	11.0	4	0.46	857	0.196	6.75	3.399	1.66	0.3	49.2	22	0.5	15.2	5.0	0.4	<1	6	3.6	<0.1

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Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 29, 2019

QUALITY CONTROL REPORT VAN19002150.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXC152 Expected								
STD OXH139 Expected								
STD OXN134 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	31.3	1.7	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	29.1	1.6	<0.05	<0.005	<1	<0.5	<0.5

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Submitted By:	Paul Jago
Receiving Lab:	Canada-Vancouver
Received:	August 08, 2019
Report Date:	August 31, 2019
Page:	1 of 8

CERTIFICATE OF ANALYSIS VAN19002151.1

CLIENT JOB INFORMATION

Project:	Berg
Shipment ID:	BERG_03
P.O. Number	
Number of Samples:	196

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	188	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	5	Sort, label and box pulps			VAN
FA430	196	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	196	Environmental disposal charge-Fire assay lead waste			VAN
MA200	196	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	196	Environmental disposal fee - Multi-acid neutralization			VAN
SPTRF	3	Split samples by riffle splitter			VAN
PUL85	3	Pulverize to 85% passing 200 mesh		Completed	VAN
TC000	3	Analysis by Leco	0.1	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Equity Exploration Consultants Ltd.
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8
Canada

CC: Geoff McMaster
Steve Bultitude
Dan Lui
John Bligh

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384305	Drill Core	2.49	0.027	7.0	182.6	213.7	218	2.0	4.0	5.0	309	3.98	34	1.9	4.7	228	0.5	30.0	1.5	150	0.11
3384306	Drill Core	2.71	0.247	11.1	157.2	1161.7	232	20.8	3.0	2.6	296	4.42	70	1.8	4.4	220	0.4	52.2	4.0	153	0.20
3384307	Drill Core	1.67	0.010	66.1	139.5	590.7	198	5.0	5.4	5.5	434	4.31	22	1.8	4.6	541	0.2	13.0	0.7	142	1.43
3384308	Drill Core	2.23	0.006	6.5	88.6	233.3	186	0.6	7.6	9.3	617	4.29	10	1.9	5.2	720	0.4	8.1	0.3	147	2.22
3384309	Drill Core	1.81	0.007	5.5	55.6	116.1	151	0.3	8.2	11.5	675	4.47	6	1.7	4.6	813	0.3	7.7	0.2	154	2.77
3384310	Core DUP		0.008	6.2	54.8	118.1	158	0.4	7.8	12.0	679	4.49	6	1.8	4.5	815	0.3	7.6	0.2	152	2.82
3384311	Drill Core	4.26	0.005	9.0	57.7	35.6	136	0.2	7.7	11.3	641	4.34	6	1.9	4.7	744	0.3	4.3	0.6	145	2.90
3384312	Drill Core	3.05	0.009	21.6	97.4	32.5	138	0.4	9.1	9.9	694	4.62	9	1.8	4.1	716	0.3	5.1	1.2	145	2.62
3384313	Drill Core	2.16	0.043	7.3	147.8	379.8	240	2.8	3.2	4.4	226	4.72	59	2.5	4.5	438	0.1	36.7	2.3	153	0.22
3384314	Drill Core	2.46	0.024	7.2	324.8	53.6	150	1.0	7.1	13.2	417	4.42	19	2.7	4.2	647	0.5	13.4	2.5	145	0.68
3384315	Drill Core	2.03	0.012	4.4	249.2	46.9	235	0.7	6.6	12.4	441	4.33	17	2.3	3.4	487	0.3	18.7	1.2	147	0.33
3384316	Drill Core	2.96	0.021	25.3	91.2	50.6	147	1.3	3.8	6.9	164	4.01	35	2.1	3.8	217	0.1	23.9	1.9	147	0.08
3384317	Drill Core	2.67	0.023	35.0	142.8	51.1	131	1.2	3.6	5.7	230	4.64	26	2.2	4.3	304	0.2	19.7	2.1	149	0.15
3384318	Drill Core	1.91	0.009	33.0	156.0	54.3	192	0.6	7.1	8.8	645	4.39	9	2.1	4.2	633	0.4	9.8	0.9	147	1.17
3384319	Drill Core	2.05	0.011	4.9	258.4	47.5	175	0.8	8.9	13.1	755	4.33	6	2.0	3.9	729	0.5	11.6	1.4	147	1.67
3384320	Rock	1.07	<0.005	1.4	5.6	3.3	40	<0.1	1.1	4.5	691	2.13	3	1.3	3.1	201	<0.1	0.2	<0.1	35	1.55
3384321	Drill Core	2.05	0.129	6.8	165.6	212.1	269	3.9	6.1	9.2	345	5.16	209	2.9	4.1	143	3.5	53.2	2.3	151	0.11
3384322	Drill Core	4.20	0.013	11.4	104.3	24.9	259	0.5	8.6	16.4	793	4.59	23	2.0	4.7	598	2.5	23.4	1.0	152	1.56
3384323	Drill Core	2.39	0.011	51.5	254.2	16.0	170	0.6	9.1	15.7	462	4.80	10	2.0	4.3	700	4.0	13.1	2.7	149	1.02
3384324	Drill Core	3.39	0.006	5.1	98.9	15.0	229	0.3	10.3	18.2	836	4.41	7	1.4	3.9	871	2.1	8.0	0.7	146	2.94
3384325	Drill Core	4.22	0.007	4.2	90.1	12.4	196	0.2	10.2	18.0	624	4.44	9	1.6	3.9	799	1.9	7.5	0.7	146	2.22
3384326	Drill Core	4.82	0.008	5.5	96.7	13.2	217	0.3	10.7	20.8	576	4.56	8	2.0	4.1	791	2.9	7.4	1.3	146	2.09
3384327	Drill Core	4.02	0.009	4.0	117.6	21.6	289	0.5	12.1	19.9	664	4.76	8	2.4	4.4	732	5.6	6.9	1.5	151	2.00
3384328	Drill Core	4.42	0.036	9.0	271.7	27.1	215	1.9	10.2	15.7	470	4.55	43	2.9	4.1	304	4.0	19.5	1.4	147	0.49
3384329	Drill Core	2.25	0.085	9.7	222.1	194.8	83	2.9	6.5	12.3	140	6.35	107	3.3	3.2	47	0.2	48.8	1.9	146	0.03
3384330	Drill Core	2.09	0.043	11.9	137.5	29.7	36	1.0	9.7	23.7	81	7.50	32	1.7	2.3	25	0.2	7.2	3.2	138	0.05
3384331	Drill Core	3.49	0.018	3.7	673.1	14.0	143	1.0	9.8	13.9	333	5.49	11	3.3	3.5	106	0.8	8.7	1.8	138	0.15
3384332	Drill Core	2.85	0.013	6.8	329.6	17.6	119	0.6	10.5	13.1	350	5.89	17	3.2	2.8	178	<0.1	6.2	1.7	141	0.35
3384333	Drill Core	1.98	0.015	4.2	393.7	16.2	125	0.7	8.9	14.6	371	5.29	25	3.0	2.2	31	0.2	13.3	1.5	144	0.07
3384334	Drill Core	3.75	0.023	9.9	307.2	17.9	161	1.0	9.6	21.8	401	7.24	27	2.4	1.9	23	2.2	14.7	2.3	143	0.18

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#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS   VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384305	Drill Core	0.118	14.9	35	0.54	871	0.518	7.96	0.904	3.08	3.7	6.0	32	1.4	6.0	6.7	0.4	<1	14	9.9	0.6
3384306	Drill Core	0.118	19.3	33	0.63	998	0.499	7.65	0.602	2.92	5.1	5.4	35	2.0	5.3	6.1	0.4	<1	12	13.4	0.4
3384307	Drill Core	0.104	25.0	27	1.33	684	0.409	7.59	1.942	1.15	1.6	4.6	49	1.0	10.4	5.0	0.3	<1	13	21.5	0.4
3384308	Drill Core	0.112	22.2	34	1.53	960	0.494	8.05	2.388	1.11	1.1	4.8	42	1.0	12.7	6.0	0.4	<1	14	21.2	0.3
3384309	Drill Core	0.118	19.6	29	1.61	1103	0.511	8.10	2.549	1.39	1.1	5.3	41	1.2	14.6	6.3	0.4	1	15	15.9	<0.1
3384310	Core DUP	0.118	20.8	30	1.60	1126	0.514	8.08	2.527	1.48	1.1	5.3	44	1.0	14.5	6.2	0.4	<1	14	17.9	<0.1
3384311	Drill Core	0.111	21.2	30	1.64	1071	0.507	8.07	2.541	1.37	0.9	4.9	43	0.9	14.9	6.4	0.4	1	14	16.5	0.3
3384312	Drill Core	0.107	18.6	36	1.66	639	0.494	7.93	2.266	1.18	1.0	6.8	37	1.2	13.2	6.1	0.4	2	13	19.8	0.5
3384313	Drill Core	0.115	11.2	36	0.64	861	0.501	8.13	1.326	2.87	3.4	6.3	22	1.6	4.2	6.7	0.4	1	13	9.9	0.6
3384314	Drill Core	0.114	12.7	39	0.96	51	0.469	8.21	2.121	1.75	2.1	5.5	27	1.6	9.2	6.4	0.4	1	12	19.2	2.5
3384315	Drill Core	0.115	9.2	37	0.84	62	0.497	7.95	1.819	2.31	2.4	5.7	21	1.3	6.2	6.9	0.4	<1	11	21.2	1.9
3384316	Drill Core	0.084	11.0	31	0.49	106	0.458	7.82	0.983	3.27	3.2	6.7	24	2.2	4.4	5.6	0.4	2	11	10.9	1.4
3384317	Drill Core	0.113	12.8	30	0.56	201	0.476	7.82	1.262	2.92	2.7	5.4	27	1.8	4.4	5.9	0.4	1	12	10.0	1.1
3384318	Drill Core	0.118	18.8	30	1.59	522	0.490	7.96	1.967	1.44	1.5	4.4	40	1.1	10.2	5.7	0.4	<1	13	29.4	0.5
3384319	Drill Core	0.113	17.4	30	1.58	103	0.488	8.15	2.142	1.36	1.5	5.3	38	1.1	11.7	6.7	0.4	<1	12	28.2	1.3
3384320	Rock	0.040	13.2	4	0.48	817	0.224	6.97	3.410	1.54	0.4	48.9	27	0.6	17.1	5.4	0.4	<1	6	2.8	<0.1
3384321	Drill Core	0.117	10.2	31	0.61	71	0.486	7.82	0.407	3.39	3.2	6.0	22	1.3	7.0	6.5	0.4	3	12	14.0	1.6
3384322	Drill Core	0.129	18.5	29	1.11	426	0.501	8.44	2.026	2.08	1.6	5.6	39	1.1	15.7	6.5	0.4	<1	13	21.8	0.8
3384323	Drill Core	0.123	20.2	32	1.14	71	0.512	8.14	2.291	1.76	1.2	5.3	44	1.2	16.0	6.8	0.4	2	12	25.8	1.8
3384324	Drill Core	0.121	18.5	30	1.65	755	0.497	8.19	2.402	1.14	1.1	5.5	39	1.2	19.1	6.8	0.4	1	12	28.0	0.5
3384325	Drill Core	0.127	17.6	30	1.66	406	0.504	8.21	2.452	1.36	1.1	5.1	38	1.3	16.0	6.5	0.4	<1	13	29.8	0.7
3384326	Drill Core	0.126	18.5	34	1.56	124	0.459	8.20	2.391	1.24	1.4	5.1	41	1.2	18.2	6.3	0.4	1	12	31.5	1.8
3384327	Drill Core	0.126	21.4	34	1.75	95	0.482	8.19	2.322	1.16	1.3	5.4	46	1.2	19.9	6.2	0.4	2	12	33.3	1.7
3384328	Drill Core	0.104	14.6	37	0.83	60	0.454	7.75	1.206	2.85	2.9	5.4	32	1.3	13.7	6.2	0.4	<1	12	21.1	2.3
3384329	Drill Core	0.224	10.0	28	0.51	29	0.241	7.29	0.097	3.76	3.6	4.0	21	1.9	4.3	2.7	0.2	<1	12	11.3	3.7
3384330	Drill Core	0.042	3.9	28	0.44	24	0.193	7.54	0.165	4.00	5.9	4.6	12	2.8	4.2	1.9	0.1	<1	11	13.1	7.5
3384331	Drill Core	0.115	6.8	37	1.37	37	0.358	7.47	0.581	2.95	3.1	4.9	17	1.5	5.6	4.1	0.3	<1	10	40.6	3.0
3384332	Drill Core	0.102	7.2	24	1.23	25	0.379	7.26	0.850	2.46	2.6	4.9	20	1.5	7.1	3.8	0.2	<1	11	31.9	3.8
3384333	Drill Core	0.103	2.9	24	0.81	30	0.432	7.80	0.146	3.38	5.1	4.9	9	1.4	4.8	4.5	0.3	<1	11	26.8	3.9
3384334	Drill Core	0.107	3.9	21	0.79	20	0.330	7.10	0.104	3.39	6.6	4.1	12	2.4	9.7	3.2	0.2	1	11	23.3	6.5

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#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3384305	Drill Core	140.1	0.4	0.22	<0.005	2	1.4	2.4	
3384306	Drill Core	131.3	0.4	0.53	<0.005	1	6.1	2.3	
3384307	Drill Core	50.4	0.3	0.16	<0.005	1	<0.5	0.8	
3384308	Drill Core	33.5	0.4	0.20	<0.005	<1	<0.5	<0.5	
3384309	Drill Core	35.8	0.3	0.13	<0.005	<1	<0.5	0.5	
3384310	Core DUP	38.0	0.4	0.13	<0.005	1	<0.5	0.5	
3384311	Drill Core	42.0	0.4	0.15	<0.005	<1	<0.5	0.6	
3384312	Drill Core	33.9	0.3	0.33	0.006	<1	0.7	0.6	
3384313	Drill Core	142.3	0.4	0.25	<0.005	<1	1.2	2.4	
3384314	Drill Core	89.8	0.4	0.15	0.006	2	1.0	1.5	
3384315	Drill Core	115.4	0.4	0.29	<0.005	<1	<0.5	2.0	
3384316	Drill Core	146.5	0.4	0.15	<0.005	1	0.7	2.6	
3384317	Drill Core	133.1	0.4	0.16	0.018	<1	0.8	2.2	
3384318	Drill Core	58.8	0.3	0.31	0.013	<1	<0.5	1.1	
3384319	Drill Core	46.4	0.3	0.37	<0.005	1	0.9	1.0	
3384320	Rock	33.0	1.6	<0.05	<0.005	2	<0.5	<0.5	
3384321	Drill Core	170.9	0.4	0.50	0.008	<1	1.3	2.7	
3384322	Drill Core	85.4	0.4	0.23	<0.005	<1	0.6	1.4	
3384323	Drill Core	80.8	0.4	0.26	0.028	1	1.2	1.3	
3384324	Drill Core	25.6	0.4	0.12	<0.005	<1	0.6	0.6	
3384325	Drill Core	36.8	0.4	0.15	<0.005	<1	<0.5	0.8	
3384326	Drill Core	40.2	0.3	0.12	<0.005	1	0.7	0.8	
3384327	Drill Core	40.8	0.4	0.13	<0.005	<1	0.9	0.7	
3384328	Drill Core	112.7	0.4	0.16	<0.005	1	1.2	2.0	
3384329	Drill Core	140.3	0.2	0.19	<0.005	3	1.1	2.3	
3384330	Drill Core	126.8	0.3	0.22	<0.005	3	1.3	1.7	
3384331	Drill Core	100.4	0.3	0.17	<0.005	2	0.6	1.8	
3384332	Drill Core	84.1	0.3	0.16	<0.005	1	0.7	1.4	
3384333	Drill Core	121.4	0.3	0.21	<0.005	<1	0.7	2.2	
3384334	Drill Core	104.8	0.2	0.20	<0.005	2	1.5	1.7	

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384335	Drill Core	2.69	0.013	4.0	401.8	15.1	229	0.7	8.1	14.6	742	4.74	8	2.9	2.4	80	4.5	15.6	1.5	149	0.19
3384336	Drill Core	3.11	0.009	5.1	103.6	11.4	140	0.4	8.2	16.7	454	4.83	9	2.6	3.2	103	5.1	18.7	1.1	147	0.19
3384337	Drill Core	3.67	0.008	3.3	146.4	15.9	236	0.2	12.7	18.3	486	5.03	10	3.0	3.2	342	2.9	16.4	1.1	142	0.38
3384338	Drill Core	3.49	0.011	6.0	35.9	10.7	138	0.3	14.7	100.5	575	7.44	15	1.5	2.7	244	0.3	15.8	1.9	113	1.78
3384339	Drill Core	4.54	0.011	3.2	108.1	12.9	374	0.4	10.5	19.2	914	4.57	13	2.5	3.5	415	2.1	13.4	1.3	141	1.89
3384340	Rock Pulp	0.07	0.229	99.2	2735.1	22.2	83	0.4	62.7	16.5	575	4.36	21	4.8	18.5	310	0.2	2.3	0.8	124	2.78
3384341	Drill Core	4.41	0.013	7.2	91.5	12.6	277	0.5	10.0	18.7	706	5.22	12	2.0	3.4	301	3.0	18.1	1.3	137	1.99
3384342	Drill Core	3.05	0.009	4.4	61.3	12.3	389	0.3	10.8	18.7	592	4.57	6	2.2	3.6	523	4.8	17.5	1.1	140	0.77
3384343	Drill Core	3.82	0.008	4.2	89.2	16.3	480	0.3	11.3	20.5	905	4.48	8	1.4	3.4	787	3.8	13.2	0.8	140	2.55
3384344	Drill Core	1.91	0.010	3.9	102.7	12.3	512	0.3	10.8	21.0	775	4.46	8	1.6	3.6	688	3.3	9.2	1.0	140	2.15
3384345	Drill Core	1.60	0.007	3.9	87.9	22.5	471	0.3	10.4	19.1	938	4.26	5	1.7	3.7	743	3.6	15.6	0.6	146	2.06
3384346	Drill Core	2.08	0.012	6.3	73.3	30.7	411	0.5	9.9	20.0	906	4.79	14	2.1	3.5	539	3.8	20.3	0.9	140	1.59
3384347	Drill Core	2.84	0.008	4.8	61.6	11.7	319	0.1	9.4	19.4	834	4.58	5	1.3	3.3	691	1.6	7.7	0.8	141	3.09
3384348	Drill Core	3.12	0.021	3.2	139.8	118.5	870	0.9	11.0	23.6	973	4.89	33	1.8	2.6	203	7.9	24.8	1.2	131	0.70
3384349	Drill Core	2.11	0.107	3.3	160.7	254.4	1229	1.4	9.0	16.6	1078	5.32	92	2.4	3.6	149	10.0	22.4	2.4	134	1.54
3384350	Drill Core	2.19	0.116	3.1	156.8	156.1	688	1.4	8.9	15.2	1005	5.37	101	2.2	3.5	143	4.7	21.6	2.3	140	1.43
3384351	Drill Core	4.71	0.029	5.1	60.4	13.2	262	0.4	9.0	17.3	917	4.95	34	2.0	3.8	148	0.6	25.1	1.3	140	1.77
3384352	Drill Core	2.21	0.011	2.1	76.1	11.9	241	0.2	18.2	21.5	818	4.77	12	1.2	3.0	643	0.9	9.8	1.0	173	3.55
3384353	Drill Core	4.70	0.007	44.0	57.1	11.3	223	0.2	9.9	18.3	559	4.65	8	1.3	3.2	591	1.3	5.1	0.8	139	3.07
3384354	Drill Core	4.49	0.011	8.4	37.8	14.3	347	0.2	11.4	22.2	565	5.37	20	1.6	3.0	463	2.3	6.1	1.3	139	2.12
3384355	Drill Core	3.57	0.053	3.4	76.1	224.2	1764	1.6	9.1	17.6	1528	4.82	27	1.4	3.1	520	15.0	27.5	2.3	144	4.00
3384356	Drill Core	3.17	0.011	11.8	88.6	19.5	129	0.3	9.6	17.3	838	4.77	24	1.2	3.0	523	0.3	21.7	1.0	154	3.46
3384357	Drill Core	4.94	0.013	14.6	21.0	12.9	75	0.2	8.3	16.7	730	5.86	25	1.1	2.5	191	0.3	17.5	1.2	131	2.79
3384358	Drill Core	4.92	0.012	4.0	119.1	10.9	85	0.4	8.7	16.5	648	5.09	13	1.4	2.7	370	0.4	28.3	1.1	141	2.54
3384359	Drill Core	2.16	0.016	3.1	101.8	9.3	83	0.3	8.0	17.5	733	5.35	19	1.2	2.7	470	0.2	9.9	1.0	132	3.31
3384360	Rock	1.07	<0.005	0.9	5.5	2.9	39	<0.1	1.0	4.2	663	2.05	3	1.3	2.9	196	<0.1	0.3	<0.1	33	1.54
3384361	Drill Core	4.06	0.017	3.9	80.5	23.7	137	0.5	7.7	14.1	902	4.71	21	1.4	3.2	508	0.5	22.2	0.7	131	3.48
3384362	Drill Core	2.94	0.015	6.6	103.8	13.9	108	0.6	7.9	14.8	771	4.68	22	1.6	3.2	71	0.4	55.8	1.3	137	1.37
3384363	Drill Core	4.98	0.014	11.4	161.9	17.1	166	0.6	7.5	14.3	988	4.79	15	1.7	3.5	314	0.9	43.6	1.2	137	1.95
3384364	Drill Core	4.57	0.009	3.3	126.6	14.4	111	0.4	8.2	15.5	917	4.70	9	1.3	3.2	553	0.3	18.4	0.7	131	3.30

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CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384335	Drill Core	0.127	4.4	25	1.21	43	0.440	7.86	0.594	3.00	5.7	4.3	12	1.3	7.6	4.9	0.3	1	11	45.3	2.3
3384336	Drill Core	0.126	7.6	28	0.75	32	0.454	7.89	0.605	3.12	8.9	4.9	21	1.4	12.2	5.2	0.3	1	11	28.4	3.6
3384337	Drill Core	0.126	10.7	34	0.74	37	0.418	7.87	1.609	2.47	7.1	4.9	27	1.4	13.8	4.6	0.3	1	11	32.9	3.3
3384338	Drill Core	0.111	10.4	23	0.94	22	0.275	6.75	0.884	2.52	33.0	4.2	23	1.6	11.8	3.1	0.2	1	9	21.1	7.0
3384339	Drill Core	0.131	17.8	33	1.20	47	0.464	8.31	1.671	2.49	11.3	5.6	43	1.4	19.5	5.6	0.3	2	11	36.3	2.2
3384340	Rock Pulp	0.100	28.1	88	1.49	1068	0.498	7.42	2.125	2.95	4.2	74.6	59	3.5	23.7	17.8	1.3	3	12	35.1	0.3
3384341	Drill Core	0.128	17.8	32	0.96	30	0.395	8.08	1.156	2.63	9.0	5.4	42	1.7	16.9	4.2	0.3	2	11	28.2	3.7
3384342	Drill Core	0.130	18.7	29	0.85	39	0.438	7.91	2.044	2.24	3.2	5.1	43	1.2	19.1	5.2	0.3	<1	11	26.6	2.5
3384343	Drill Core	0.128	17.3	26	1.52	90	0.489	7.98	2.481	1.10	1.5	5.4	41	1.3	17.7	6.6	0.4	1	11	32.1	1.2
3384344	Drill Core	0.124	16.8	27	1.57	56	0.477	8.06	2.462	1.16	1.6	5.4	38	1.1	15.2	6.2	0.4	1	11	31.2	1.5
3384345	Drill Core	0.137	18.5	32	1.35	96	0.495	8.49	2.403	1.59	1.6	5.4	38	1.3	16.5	6.4	0.4	<1	12	28.8	1.2
3384346	Drill Core	0.130	16.4	28	1.06	44	0.461	7.96	1.830	2.18	2.4	5.2	40	1.3	16.7	5.5	0.3	1	12	24.5	2.8
3384347	Drill Core	0.120	15.3	27	1.63	76	0.474	7.99	2.399	1.30	1.6	5.0	37	1.3	15.7	5.6	0.3	2	11	29.6	1.7
3384348	Drill Core	0.130	11.7	26	0.97	32	0.353	7.18	0.634	3.00	3.1	4.7	29	1.3	16.7	4.3	0.2	2	10	22.1	3.7
3384349	Drill Core	0.128	15.7	24	0.87	31	0.411	7.75	0.735	3.19	5.3	5.0	36	1.3	14.4	4.6	0.3	<1	11	19.2	4.3
3384350	Drill Core	0.127	13.9	26	0.85	32	0.414	7.79	0.755	3.11	5.8	4.7	33	1.6	12.9	4.6	0.3	<1	11	20.8	4.4
3384351	Drill Core	0.130	14.7	25	0.85	35	0.393	7.98	0.551	3.23	4.7	4.7	35	1.6	15.6	4.6	0.3	2	12	20.5	4.0
3384352	Drill Core	0.115	13.1	41	1.41	59	0.468	7.74	2.199	1.31	1.7	5.7	30	1.2	15.4	5.1	0.3	<1	15	29.6	2.7
3384353	Drill Core	0.117	13.5	28	1.65	52	0.422	7.69	2.260	1.25	1.4	4.8	31	1.5	14.4	4.9	0.3	<1	11	32.8	3.1
3384354	Drill Core	0.124	13.4	22	1.57	28	0.298	7.51	1.714	1.81	1.5	4.0	34	1.3	15.7	3.2	0.2	1	12	35.0	4.5
3384355	Drill Core	0.112	11.3	28	1.30	69	0.450	7.60	1.570	1.90	2.1	4.9	25	1.2	13.8	5.5	0.3	<1	13	30.6	2.6
3384356	Drill Core	0.115	11.9	31	1.53	53	0.419	8.03	1.764	1.70	1.7	5.5	29	1.3	12.9	4.8	0.3	1	13	32.2	3.1
3384357	Drill Core	0.105	11.2	20	1.09	28	0.204	7.17	0.527	2.81	3.2	3.6	27	1.7	12.0	2.1	0.1	<1	12	22.4	5.3
3384358	Drill Core	0.112	11.8	24	0.99	40	0.328	7.48	1.407	2.42	2.3	4.5	30	1.2	12.3	3.7	0.2	1	12	23.7	4.1
3384359	Drill Core	0.110	11.0	24	1.61	33	0.315	7.30	1.676	1.68	2.0	3.5	27	1.3	11.9	3.3	0.2	<1	11	32.1	3.8
3384360	Rock	0.038	12.2	5	0.49	767	0.213	7.05	3.413	1.62	0.3	50.3	24	0.6	15.7	5.2	0.4	<1	6	3.7	<0.1
3384361	Drill Core	0.113	12.4	29	1.46	71	0.414	7.62	1.832	1.58	1.6	4.4	28	1.0	13.4	4.9	0.3	<1	11	34.0	2.7
3384362	Drill Core	0.123	14.7	25	0.68	32	0.419	8.17	0.263	3.11	3.3	4.1	36	1.3	12.4	4.9	0.3	1	12	20.1	3.6
3384363	Drill Core	0.117	13.0	24	0.69	47	0.466	8.11	1.440	2.61	2.8	4.0	32	1.1	12.3	5.4	0.3	<1	13	23.4	2.9
3384364	Drill Core	0.110	12.7	25	1.29	47	0.422	7.67	1.980	1.46	1.7	4.2	31	1.1	13.5	5.0	0.3	<1	11	28.4	2.6

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3384335	Drill Core	103.4	0.3	0.06	<0.005	1	0.7	1.8	
3384336	Drill Core	117.7	0.3	0.06	<0.005	1	<0.5	1.8	
3384337	Drill Core	94.0	0.3	0.11	<0.005	1	<0.5	1.5	
3384338	Drill Core	95.6	0.3	0.16	<0.005	3	0.7	1.5	
3384339	Drill Core	92.1	0.3	0.10	<0.005	2	0.6	1.8	
3384340	Rock Pulp	141.4	2.3	0.11	<0.005	2	<0.5	1.0	
3384341	Drill Core	90.3	0.3	<0.05	<0.005	1	0.6	1.6	
3384342	Drill Core	84.5	0.3	0.08	<0.005	2	<0.5	1.4	
3384343	Drill Core	32.1	0.3	0.14	<0.005	<1	<0.5	0.7	
3384344	Drill Core	35.7	0.3	0.12	<0.005	<1	0.6	0.7	
3384345	Drill Core	63.1	0.4	0.18	<0.005	<1	<0.5	1.1	
3384346	Drill Core	90.5	0.3	0.10	<0.005	2	<0.5	1.7	
3384347	Drill Core	32.0	0.3	0.08	<0.005	<1	<0.5	0.8	
3384348	Drill Core	112.0	0.3	0.16	<0.005	2	<0.5	2.4	
3384349	Drill Core	133.4	0.3	0.36	<0.005	1	1.0	2.5	
3384350	Drill Core	127.7	0.3	0.28	<0.005	<1	1.3	2.6	
3384351	Drill Core	124.2	0.3	0.11	<0.005	1	0.5	2.3	
3384352	Drill Core	43.4	0.4	0.09	<0.005	<1	0.7	0.9	
3384353	Drill Core	31.4	0.3	0.06	0.022	<1	0.7	0.8	
3384354	Drill Core	47.7	0.3	<0.05	<0.005	1	0.7	0.9	
3384355	Drill Core	72.5	0.3	0.13	<0.005	1	1.3	1.4	
3384356	Drill Core	59.5	0.3	0.08	<0.005	1	0.7	1.3	
3384357	Drill Core	80.7	0.2	<0.05	<0.005	2	0.6	1.5	
3384358	Drill Core	76.7	0.2	<0.05	<0.005	1	0.6	1.5	
3384359	Drill Core	54.2	0.2	<0.05	<0.005	1	<0.5	1.1	
3384360	Rock	32.5	1.6	<0.05	<0.005	1	<0.5	<0.5	
3384361	Drill Core	52.9	0.3	0.07	<0.005	1	<0.5	1.2	
3384362	Drill Core	123.6	0.3	0.19	<0.005	2	0.7	2.7	
3384363	Drill Core	107.2	0.3	0.11	0.006	<1	0.7	2.0	
3384364	Drill Core	49.2	0.2	0.07	<0.005	1	<0.5	1.0	

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Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384365	Drill Core	3.52	0.008	5.4	104.5	14.6	90	0.3	8.4	14.7	1084	5.25	8	0.9	2.6	495	0.1	13.6	0.6	142	4.11
3384366	Drill Core	3.53	0.016	5.8	133.7	16.3	105	0.6	7.4	13.2	1267	4.23	17	1.9	3.9	337	0.5	53.4	0.7	128	2.91
3384367	Drill Core	5.46	0.027	4.6	164.3	31.2	206	1.1	6.0	12.3	1014	3.89	32	2.5	4.7	229	1.3	108.6	1.0	119	2.27
3384368	Drill Core	2.36	0.006	3.1	97.4	15.4	101	0.3	7.8	12.5	762	3.97	11	2.8	7.0	567	0.6	12.0	0.6	119	3.42
3384369	Drill Core	2.44	0.010	27.2	72.5	9.0	76	0.1	7.4	13.4	872	4.18	16	2.8	5.8	385	<0.1	23.7	0.6	119	3.01
3384370	Drill Core	2.42	0.051	9.6	99.3	29.2	1099	1.2	7.0	13.1	2080	4.57	41	2.4	5.2	203	9.2	77.5	1.3	108	4.40
3384371	Drill Core	4.45	0.021	9.1	114.3	15.3	118	0.8	8.5	15.8	911	4.59	30	4.5	6.4	64	0.6	83.8	1.1	128	1.39
3384372	Drill Core	5.19	0.016	10.1	40.4	16.5	83	0.5	8.3	14.6	1121	4.95	42	3.5	5.8	69	0.3	40.2	1.1	110	1.76
3384373	Drill Core	4.54	0.022	5.7	145.4	25.6	168	2.0	8.9	13.6	1449	4.86	30	3.4	5.1	94	1.1	74.9	1.6	116	2.22
3384374	Drill Core	2.41	0.016	8.8	193.0	9.7	89	0.5	8.3	13.3	943	4.85	28	2.8	5.4	95	0.1	100.9	1.2	122	1.80
3384375	Drill Core	3.14	0.013	50.1	103.3	8.9	74	0.6	8.1	12.9	779	5.20	21	2.9	5.4	75	0.3	73.4	1.2	122	1.36
3384376	Drill Core	3.71	0.009	5.2	154.5	10.7	112	0.6	7.4	14.0	982	4.32	16	3.4	6.9	292	0.5	76.1	1.1	129	2.05
3384377	Drill Core	4.74	0.012	7.1	86.8	11.5	160	0.4	8.0	14.0	936	4.09	12	2.6	4.6	374	0.8	32.2	1.0	124	3.07
3384378	Drill Core	4.90	0.020	4.6	73.8	11.5	87	0.5	7.0	13.0	1133	4.43	20	3.4	5.4	91	0.4	52.3	1.1	130	1.87
3384379	Drill Core	5.00	0.089	14.2	172.6	44.3	465	2.8	23.6	18.2	1100	5.30	88	2.3	3.1	58	3.3	129.3	2.0	154	1.55
3384380	Rock Pulp	0.07	0.682	320.6	5273.7	20.6	85	0.8	41.3	15.6	592	5.02	29	4.7	18.0	324	0.5	4.9	0.6	129	2.61
3384381	Drill Core	4.49	0.019	38.9	131.2	23.3	224	1.1	10.9	18.5	1366	5.55	29	1.9	3.8	81	1.8	70.3	1.4	126	2.01
3384382	Drill Core	4.34	0.020	9.4	105.8	23.1	645	1.4	11.7	18.2	1129	4.69	38	2.7	4.3	66	5.2	66.5	1.5	142	1.55
3384383	Drill Core	4.19	0.023	15.7	130.6	18.4	287	1.4	8.9	14.7	918	4.36	43	2.8	4.7	64	2.4	54.2	1.3	135	1.39
3384384	Drill Core	4.79	0.020	9.9	80.6	13.6	75	0.6	9.5	14.5	1019	4.41	33	1.9	3.2	259	0.1	29.6	0.8	135	2.51
3384385	Drill Core	4.41	0.012	16.3	103.9	38.3	141	0.5	6.9	13.1	1138	4.39	15	2.0	4.2	347	0.6	19.9	0.8	126	2.71
3384386	Drill Core	4.81	0.065	4.5	132.7	58.7	453	3.0	7.9	13.3	2040	4.09	83	2.8	4.7	131	2.9	59.8	1.1	121	3.15
3384387	Drill Core	4.17	0.201	13.2	131.5	19.8	88	1.3	8.8	15.1	1754	4.66	204	1.6	2.9	100	0.2	52.1	1.0	137	2.29
3384388	Drill Core	3.88	0.050	4.8	110.4	50.6	210	1.2	7.7	13.7	1676	4.37	111	2.4	4.5	124	1.4	39.2	1.2	133	2.61
3384389	Drill Core	3.97	0.053	7.9	92.3	21.0	269	1.3	8.3	16.2	1809	4.62	76	2.8	5.5	141	1.9	54.1	1.2	118	3.17
3384390	Core DUP		0.051	8.2	90.1	20.8	236	1.3	7.1	14.7	1840	4.66	73	2.8	5.4	144	1.6	53.4	1.1	120	3.15
3384391	Drill Core	4.32	0.017	3.2	89.4	15.6	90	0.6	7.3	14.4	1211	4.17	17	2.2	4.2	524	0.2	18.7	0.7	134	3.31
3384392	Drill Core	2.24	0.027	3.1	62.4	15.3	84	0.5	7.5	13.9	1530	4.19	45	1.4	3.7	718	0.1	13.3	0.4	136	4.21
3384393	Drill Core	4.67	0.011	6.0	88.7	13.6	78	0.4	7.6	14.7	961	4.52	18	2.1	4.9	607	0.1	12.3	0.5	132	3.59
3384394	Drill Core	2.50	0.079	2.5	59.2	15.2	82	0.6	8.4	13.3	1318	4.15	84	1.7	3.9	496	0.1	26.1	0.5	135	3.15

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384365	Drill Core	0.104	13.2	28	1.54	88	0.428	7.42	1.674	1.34	2.0	4.0	29	1.2	15.3	4.9	0.3	1	13	28.6	2.7
3384366	Drill Core	0.109	15.2	25	0.88	68	0.430	7.99	1.104	2.37	2.7	5.2	37	1.3	13.4	5.5	0.4	<1	12	22.8	2.5
3384367	Drill Core	0.098	14.6	24	0.72	59	0.407	7.80	1.068	2.76	3.0	6.0	31	1.2	11.0	6.3	0.4	<1	10	16.6	2.5
3384368	Drill Core	0.103	14.1	35	1.44	71	0.399	7.83	2.045	1.63	1.1	6.6	34	1.2	12.6	6.3	0.5	2	10	25.5	1.8
3384369	Drill Core	0.104	12.9	34	0.89	49	0.329	7.44	1.548	2.34	1.8	6.2	30	1.1	11.4	4.7	0.4	<1	10	19.0	2.7
3384370	Drill Core	0.095	14.7	31	0.97	59	0.352	6.71	0.488	2.38	4.3	5.6	31	1.4	12.6	5.0	0.4	<1	9	21.8	3.1
3384371	Drill Core	0.111	15.7	35	0.72	33	0.359	7.87	0.078	3.20	3.0	6.3	37	1.8	10.8	4.8	0.4	<1	12	16.4	4.0
3384372	Drill Core	0.109	14.5	30	0.93	32	0.187	7.44	0.072	3.29	1.7	4.9	35	1.2	11.3	2.3	0.2	<1	10	15.3	4.6
3384373	Drill Core	0.103	15.6	30	0.94	42	0.245	7.44	0.059	3.33	2.1	4.9	37	1.7	10.6	3.4	0.2	<1	9	13.8	4.4
3384374	Drill Core	0.104	16.1	24	0.97	32	0.270	7.53	0.058	3.44	2.0	5.4	37	1.1	9.9	3.7	0.2	1	10	17.6	4.0
3384375	Drill Core	0.109	13.2	20	0.77	31	0.202	7.49	0.079	3.45	2.1	5.2	31	1.5	9.7	2.7	0.2	1	11	14.1	4.8
3384376	Drill Core	0.117	15.9	33	0.80	60	0.332	8.02	1.206	2.78	2.3	6.6	38	1.3	13.2	4.9	0.4	1	10	19.1	2.9
3384377	Drill Core	0.109	10.5	31	0.77	48	0.338	7.17	1.461	2.26	2.0	5.8	29	1.4	10.7	5.0	0.4	1	9	20.1	3.0
3384378	Drill Core	0.113	15.6	27	0.73	38	0.353	7.71	0.170	3.36	3.4	5.3	37	1.4	10.8	5.0	0.4	<1	10	15.7	3.5
3384379	Drill Core	0.102	12.9	62	0.77	30	0.346	7.42	0.067	3.27	4.7	5.0	30	1.9	11.2	3.9	0.2	<1	13	15.6	4.9
3384380	Rock Pulp	0.089	29.9	61	1.53	499	0.467	7.33	2.118	3.39	4.5	63.8	61	3.2	22.3	15.7	1.2	2	12	27.1	0.5
3384381	Drill Core	0.108	11.7	26	0.92	31	0.237	7.43	0.063	3.36	2.1	4.1	29	1.3	11.8	2.7	0.2	<1	11	16.4	5.0
3384382	Drill Core	0.103	13.5	34	0.78	28	0.361	7.83	0.066	3.64	3.4	4.2	33	1.7	11.5	4.7	0.3	<1	12	15.9	4.2
3384383	Drill Core	0.118	15.0	24	0.72	32	0.395	8.11	0.064	3.73	2.8	4.3	36	1.3	10.6	5.4	0.4	<1	11	16.0	3.6
3384384	Drill Core	0.108	11.7	31	0.98	44	0.333	7.47	0.767	2.74	2.5	3.6	29	1.3	10.8	4.1	0.3	1	11	18.2	3.1
3384385	Drill Core	0.109	13.1	22	0.92	53	0.376	7.68	1.530	2.49	1.7	4.4	31	1.3	12.5	5.3	0.3	1	11	20.6	2.6
3384386	Drill Core	0.112	16.4	23	0.94	48	0.373	7.57	0.316	3.11	3.2	5.0	37	1.3	13.9	5.3	0.3	<1	10	19.5	2.8
3384387	Drill Core	0.120	15.2	23	0.93	48	0.400	7.61	0.128	3.36	3.3	4.1	35	1.1	12.2	5.0	0.3	1	11	18.5	3.5
3384388	Drill Core	0.113	16.0	21	1.01	62	0.404	7.87	0.189	3.38	2.6	5.2	35	1.3	12.4	5.5	0.4	1	11	18.3	2.7
3384389	Drill Core	0.109	17.4	20	1.11	47	0.352	7.50	0.154	3.12	3.1	4.8	36	1.2	12.4	4.6	0.3	1	11	18.6	3.5
3384390	Core DUP	0.109	15.4	21	1.10	42	0.348	7.39	0.155	3.13	3.2	4.7	34	1.2	12.8	4.4	0.3	2	10	19.0	3.5
3384391	Drill Core	0.110	13.6	26	1.13	93	0.431	7.81	1.904	2.17	1.3	5.0	31	1.1	12.6	5.8	0.3	<1	11	21.4	1.5
3384392	Drill Core	0.107	14.2	22	1.44	117	0.467	7.81	2.304	1.64	1.6	5.6	32	1.1	14.0	6.2	0.4	<1	11	26.1	1.3
3384393	Drill Core	0.109	14.0	25	1.53	87	0.415	7.77	2.237	1.55	1.4	4.6	32	1.2	12.4	5.4	0.3	<1	11	27.2	1.7
3384394	Drill Core	0.111	14.4	25	1.12	106	0.430	7.72	1.610	2.48	2.5	3.5	34	1.1	13.3	5.8	0.4	1	11	21.7	1.4

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
Analyte		Rb	Hf	In	Re	Se	Te	Tl	TOT/S
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3384365	Drill Core	44.8	0.3	0.09	<0.005	1	<0.5	1.0	
3384366	Drill Core	101.8	0.2	0.09	<0.005	1	<0.5	2.3	
3384367	Drill Core	111.5	0.3	0.13	<0.005	<1	0.6	2.4	
3384368	Drill Core	56.5	0.4	0.07	<0.005	1	<0.5	1.2	
3384369	Drill Core	88.8	0.4	<0.05	0.005	<1	<0.5	2.0	
3384370	Drill Core	94.7	0.3	0.25	<0.005	1	0.8	2.0	
3384371	Drill Core	134.5	0.4	0.10	<0.005	1	1.0	3.0	
3384372	Drill Core	117.3	0.2	0.08	<0.005	2	0.6	2.4	
3384373	Drill Core	123.0	0.3	0.12	<0.005	<1	0.9	3.0	
3384374	Drill Core	142.2	0.3	0.14	<0.005	<1	0.6	3.1	
3384375	Drill Core	142.0	0.2	0.08	0.012	<1	0.6	2.8	
3384376	Drill Core	117.0	0.4	0.06	<0.005	<1	<0.5	2.5	
3384377	Drill Core	77.4	0.3	0.08	<0.005	<1	<0.5	2.1	
3384378	Drill Core	126.4	0.3	0.08	<0.005	<1	0.8	3.4	
3384379	Drill Core	140.4	0.4	0.10	<0.005	1	1.5	2.9	
3384380	Rock Pulp	177.2	2.1	0.21	<0.005	3	<0.5	1.0	
3384381	Drill Core	123.5	0.2	0.08	0.023	<1	0.6	2.7	
3384382	Drill Core	145.5	0.2	0.12	<0.005	<1	0.7	3.2	
3384383	Drill Core	162.2	0.2	0.22	<0.005	<1	0.7	3.5	
3384384	Drill Core	98.9	0.2	0.06	<0.005	<1	<0.5	2.3	
3384385	Drill Core	96.2	0.2	0.07	<0.005	<1	0.5	2.3	
3384386	Drill Core	134.3	0.4	0.15	<0.005	<1	0.9	2.9	
3384387	Drill Core	132.6	0.2	0.19	<0.005	1	<0.5	2.8	
3384388	Drill Core	121.4	0.2	0.07	<0.005	<1	<0.5	3.1	
3384389	Drill Core	146.7	0.2	0.08	<0.005	1	<0.5	2.7	
3384390	Core DUP	129.3	0.2	0.08	<0.005	1	<0.5	2.6	
3384391	Drill Core	78.7	0.3	0.11	<0.005	<1	0.8	1.7	
3384392	Drill Core	53.8	0.3	0.07	<0.005	<1	<0.5	1.3	
3384393	Drill Core	48.2	0.2	0.07	<0.005	<1	<0.5	1.2	
3384394	Drill Core	91.9	0.2	0.19	<0.005	<1	<0.5	2.0	

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	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384395	Drill Core	1.84	0.028	4.1	110.6	11.9	100	0.7	6.7	11.9	1325	4.07	24	1.6	3.9	184	0.2	37.4	0.7	143	2.48
3384396	Drill Core	4.52	0.020	8.3	139.1	13.5	94	0.8	8.1	14.1	995	4.52	18	1.7	3.6	382	0.2	22.2	1.3	137	2.34
3384397	Drill Core	4.56	0.025	6.8	117.2	14.3	77	1.1	7.5	14.8	868	5.20	14	1.9	3.7	238	0.1	23.7	2.6	132	2.25
3384398	Drill Core	3.06	0.016	4.2	118.3	24.6	513	1.3	7.7	12.4	1372	4.12	42	2.5	4.9	178	3.7	37.4	0.9	126	2.68
3384399	Drill Core	4.60	0.017	3.2	95.5	14.7	103	0.6	10.3	14.4	1319	4.37	37	1.5	3.1	496	0.1	25.1	0.6	146	2.95
3384400	Rock	1.07	<0.005	1.0	6.8	3.2	37	<0.1	1.4	3.5	661	2.02	4	1.2	2.9	196	<0.1	0.6	<0.1	36	1.60
3384401	Drill Core	4.28	0.030	2.9	85.4	17.0	96	0.5	7.9	13.6	1094	4.25	24	1.3	3.2	445	0.2	16.0	0.5	128	3.34
3384402	Drill Core	3.79	0.025	4.1	73.2	18.2	150	0.6	8.5	15.3	1389	4.78	33	1.3	2.7	439	0.6	17.0	0.7	131	3.41
3384403	Drill Core	4.81	0.013	2.8	79.0	14.0	106	0.5	7.3	13.3	1297	4.19	16	1.5	4.0	350	<0.1	25.5	0.6	132	2.34
3384404	Drill Core	4.01	0.016	5.8	145.0	12.5	99	2.0	6.8	11.6	1335	4.36	14	1.9	3.6	179	0.4	28.2	0.9	129	1.83
3384405	Drill Core	2.14	0.045	3.2	101.3	24.6	254	1.9	8.3	19.3	1566	6.64	22	1.4	2.3	73	1.9	38.6	2.4	122	2.06
3384406	Drill Core	2.09	0.047	4.1	446.8	29.3	937	3.0	8.2	15.0	1056	6.00	26	1.5	2.4	81	8.5	28.4	2.9	124	1.76
3384407	Drill Core	2.47	0.007	3.0	100.5	14.3	105	0.3	8.1	13.3	1086	4.59	9	1.0	2.5	591	<0.1	9.9	0.5	141	3.44
3384408	Drill Core	2.66	0.030	1.9	81.3	11.6	90	0.7	8.6	12.8	1252	4.52	29	1.2	2.7	472	0.2	12.7	0.9	138	2.89
3384409	Drill Core	3.22	0.022	2.5	129.4	15.4	233	1.1	8.6	14.7	1449	4.42	27	1.1	2.8	297	1.5	30.4	1.6	150	2.03
3384410	Drill Core	4.65	0.022	3.7	132.4	19.3	562	1.1	8.4	14.5	1812	4.52	39	1.8	3.7	188	4.4	30.9	1.6	134	2.25
3384411	Drill Core	4.66	0.016	3.9	150.8	12.1	122	1.0	9.4	16.0	1508	4.81	21	1.9	3.5	303	0.4	21.8	1.8	132	2.00
3384412	Drill Core	3.78	0.026	1.5	136.1	14.7	400	1.3	6.8	12.6	1469	4.68	32	1.9	3.7	151	3.3	23.7	2.2	125	1.87
3384413	Drill Core	1.37	0.081	8.2	53.5	20.9	526	2.8	7.3	19.5	1081	9.86	70	1.1	2.1	64	4.9	16.7	5.5	146	1.57
3384414	Drill Core	2.81	0.010	1.6	121.5	10.3	88	0.5	6.4	11.7	1028	4.07	13	2.1	3.8	470	0.3	11.9	1.4	119	2.83
3384415	Drill Core	2.31	0.015	5.5	130.5	13.5	85	0.9	9.3	13.0	1110	4.85	18	1.9	3.4	82	0.3	25.7	1.7	131	1.30
3384416	Drill Core	2.46	0.029	14.1	11.6	13.3	49	1.3	6.4	15.8	448	10.15	8	1.1	1.6	43	<0.1	9.1	3.1	106	0.87
3384417	Drill Core	2.94	0.031	5.3	14.6	15.2	117	0.7	6.2	18.2	566	10.76	40	1.1	1.8	71	0.7	11.7	4.3	93	1.36
3384418	Drill Core	4.34	0.012	2.7	49.4	12.2	131	0.5	6.7	11.9	815	4.33	15	2.6	4.1	98	0.7	17.1	2.0	116	1.22
3384419	Drill Core	2.18	0.021	2.1	60.4	16.6	85	0.9	7.0	12.4	988	4.39	14	2.3	4.5	390	0.2	12.6	2.0	116	2.22
3384420	Rock Pulp	0.07	0.218	90.5	2624.6	21.6	79	0.4	56.5	14.9	554	4.27	21	5.4	18.6	319	0.3	2.4	0.8	120	2.57
3384421	Drill Core	3.26	0.014	2.2	105.2	10.7	108	0.7	5.7	10.9	1123	3.85	21	2.7	5.5	418	0.4	17.9	1.3	125	2.17
3384422	Drill Core	3.70	0.011	4.8	107.9	12.4	110	0.5	6.4	11.7	1065	3.85	18	2.4	5.2	676	0.2	12.8	0.9	122	3.10
3384423	Drill Core	4.77	0.018	2.5	151.2	16.5	125	1.5	6.7	14.6	1039	4.61	19	2.7	5.1	360	0.8	15.9	1.8	121	2.15
3384424	Drill Core	4.37	0.018	2.2	161.6	29.8	124	1.8	6.9	12.7	717	4.94	14	2.6	5.0	120	0.8	19.3	2.7	124	1.42

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS   VAN19002151.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384395	Drill Core	0.112	19.6	24	1.00	108	0.481	8.47	0.782	3.07	3.1	3.9	42	1.2	12.9	6.5	0.3	<1	13	22.3	1.6
3384396	Drill Core	0.115	13.6	20	1.07	67	0.417	8.11	1.586	2.50	2.7	4.0	33	1.5	13.0	5.1	0.3	1	12	22.6	2.3
3384397	Drill Core	0.112	14.2	18	0.91	37	0.338	7.88	0.939	3.01	2.9	3.7	33	1.8	12.1	3.9	0.2	1	12	18.3	4.1
3384398	Drill Core	0.110	13.8	28	0.93	67	0.401	7.88	0.720	3.04	3.5	4.7	32	1.1	12.3	5.1	0.4	<1	12	18.6	2.6
3384399	Drill Core	0.108	13.7	24	1.21	117	0.447	7.95	1.868	2.45	2.0	4.6	31	1.0	14.1	5.2	0.3	1	14	21.4	1.6
3384400	Rock	0.040	12.2	3	0.50	716	0.198	7.10	3.552	1.50	0.4	45.4	24	0.7	15.8	5.0	0.3	<1	6	3.1	<0.1
3384401	Drill Core	0.101	13.3	17	1.32	72	0.415	7.73	1.630	1.73	1.4	3.8	32	1.0	15.6	5.2	0.3	1	12	22.8	1.7
3384402	Drill Core	0.107	11.3	19	1.15	59	0.394	7.78	1.730	2.28	2.0	3.6	29	1.1	14.9	4.8	0.3	<1	12	19.9	2.6
3384403	Drill Core	0.107	14.8	20	0.88	96	0.427	8.27	1.870	2.61	2.2	4.0	34	1.1	12.9	5.5	0.3	<1	12	20.5	1.5
3384404	Drill Core	0.119	13.4	21	0.76	49	0.379	7.94	1.131	2.97	6.5	3.8	33	1.2	11.3	5.3	0.3	<1	11	19.0	2.4
3384405	Drill Core	0.086	11.0	12	0.78	37	0.259	6.83	0.060	3.10	2.9	3.4	27	2.4	13.6	3.0	0.2	<1	11	16.2	5.9
3384406	Drill Core	0.098	11.7	19	0.83	39	0.238	7.64	0.081	3.38	2.7	3.0	29	1.5	13.8	2.6	0.1	<1	12	21.3	5.1
3384407	Drill Core	0.100	13.1	17	1.43	136	0.448	7.87	2.161	1.48	1.0	3.6	32	1.0	15.6	5.2	0.3	<1	13	24.5	1.0
3384408	Drill Core	0.113	10.4	18	1.37	43	0.361	7.55	1.712	1.72	1.7	4.4	28	1.3	15.0	4.6	0.3	1	12	28.0	2.1
3384409	Drill Core	0.126	13.4	29	0.96	73	0.433	8.01	1.150	2.88	3.3	4.5	33	1.3	14.8	5.4	0.3	1	14	26.7	2.1
3384410	Drill Core	0.123	15.3	23	0.94	52	0.423	8.26	0.566	3.38	3.2	4.0	38	1.7	15.9	5.6	0.4	1	13	26.0	2.5
3384411	Drill Core	0.115	14.3	20	0.77	46	0.361	8.10	1.223	2.78	2.1	3.9	35	1.2	15.0	4.6	0.3	1	13	25.9	2.8
3384412	Drill Core	0.110	15.7	18	0.86	44	0.342	8.04	0.542	3.42	3.6	3.4	39	1.3	15.0	4.6	0.3	<1	11	23.1	3.3
3384413	Drill Core	0.086	5.0	13	0.67	22	0.176	7.23	0.156	3.76	6.7	2.7	15	3.2	10.0	1.9	0.1	<1	12	14.0	>10
3384414	Drill Core	0.115	15.3	20	0.99	52	0.323	7.84	1.724	2.14	2.9	4.1	38	0.9	13.5	4.2	0.3	1	11	22.8	2.8
3384415	Drill Core	0.108	13.7	23	0.81	25	0.244	7.96	0.200	3.90	3.3	4.7	36	1.6	14.1	3.0	0.2	1	13	19.9	4.0
3384416	Drill Core	0.082	4.6	12	0.48	12	0.096	6.14	0.153	3.31	4.0	2.7	15	2.6	9.0	1.0	<0.1	<1	9	12.3	>10
3384417	Drill Core	0.072	3.4	10	0.52	12	0.090	5.69	0.096	3.01	3.5	2.1	12	2.1	8.5	1.0	<0.1	<1	8	11.7	>10
3384418	Drill Core	0.116	16.2	21	0.63	27	0.289	7.86	0.571	3.66	3.7	4.0	40	1.4	12.5	4.0	0.3	<1	11	16.6	3.7
3384419	Drill Core	0.112	14.7	28	0.67	39	0.329	7.47	1.683	2.35	3.0	4.1	35	1.2	12.1	4.6	0.3	1	11	22.3	3.3
3384420	Rock Pulp	0.102	29.8	77	1.48	1033	0.474	7.16	1.965	3.46	4.2	72.0	66	3.3	23.9	17.3	1.3	3	13	35.4	0.3
3384421	Drill Core	0.114	15.5	29	0.79	68	0.403	7.81	1.830	2.45	2.9	5.1	38	1.1	11.4	6.1	0.4	2	11	25.0	1.7
3384422	Drill Core	0.113	16.5	28	0.98	108	0.421	7.77	2.318	1.65	1.6	4.9	39	1.0	13.0	6.5	0.4	1	11	25.8	1.5
3384423	Drill Core	0.113	15.3	27	0.76	42	0.394	7.65	1.503	2.69	4.7	4.9	37	1.2	12.3	6.0	0.4	1	12	23.3	3.3
3384424	Drill Core	0.115	14.7	27	0.65	30	0.341	8.05	0.561	3.64	4.8	4.2	38	1.7	13.3	5.0	0.3	<1	11	17.0	4.3

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3384395	Drill Core	123.7	0.2	0.17	<0.005	<1	0.6	2.3	
3384396	Drill Core	97.5	0.2	0.22	<0.005	<1	0.6	2.0	
3384397	Drill Core	107.9	0.2	0.09	<0.005	1	0.7	2.1	
3384398	Drill Core	129.3	0.2	0.11	<0.005	<1	<0.5	2.6	
3384399	Drill Core	95.8	0.3	0.15	<0.005	<1	<0.5	1.8	
3384400	Rock	32.5	1.7	<0.05	<0.005	<1	<0.5	<0.5	
3384401	Drill Core	74.1	0.2	0.17	<0.005	<1	<0.5	1.5	
3384402	Drill Core	88.3	0.2	0.15	<0.005	<1	<0.5	1.9	
3384403	Drill Core	109.7	0.2	0.29	<0.005	<1	<0.5	2.0	
3384404	Drill Core	114.8	0.3	0.15	<0.005	<1	<0.5	2.1	
3384405	Drill Core	104.5	0.2	0.07	<0.005	<1	0.9	2.0	
3384406	Drill Core	123.2	0.2	0.48	<0.005	<1	1.0	2.3	
3384407	Drill Core	46.5	0.2	0.16	<0.005	<1	<0.5	1.2	
3384408	Drill Core	63.0	0.3	0.10	<0.005	<1	<0.5	1.3	
3384409	Drill Core	119.7	0.3	0.29	<0.005	<1	0.7	2.2	
3384410	Drill Core	139.4	0.3	0.32	<0.005	<1	0.7	2.4	
3384411	Drill Core	115.4	0.3	0.11	<0.005	<1	0.7	2.2	
3384412	Drill Core	135.7	0.3	0.17	<0.005	<1	0.8	2.3	
3384413	Drill Core	94.2	0.1	0.12	<0.005	4	3.0	1.5	10.25
3384414	Drill Core	84.5	0.2	0.06	<0.005	<1	0.5	1.6	
3384415	Drill Core	133.7	0.2	0.08	<0.005	<1	0.6	2.2	
3384416	Drill Core	72.0	0.1	0.07	<0.005	2	2.4	1.0	11.68
3384417	Drill Core	76.3	0.1	0.13	<0.005	2	1.3	1.1	12.53
3384418	Drill Core	133.6	0.2	<0.05	<0.005	1	1.0	2.3	
3384419	Drill Core	87.8	0.3	<0.05	<0.005	1	1.0	1.5	
3384420	Rock Pulp	177.4	2.3	<0.05	<0.005	2	<0.5	1.0	
3384421	Drill Core	95.7	0.3	0.05	<0.005	<1	0.7	1.6	
3384422	Drill Core	64.3	0.3	0.09	<0.005	<1	0.6	1.0	
3384423	Drill Core	104.7	0.2	0.12	<0.005	<1	1.0	1.6	
3384424	Drill Core	126.2	0.2	0.09	<0.005	2	1.0	2.1	

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Project: Berg
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CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384425	Drill Core	4.79	0.014	3.7	78.1	14.2	77	0.7	7.1	14.5	826	4.92	19	2.5	5.3	286	0.2	12.3	1.2	127	1.99
3384426	Drill Core	4.51	0.012	1.6	102.4	41.1	149	0.8	6.6	14.6	596	4.38	19	2.3	4.8	250	1.4	12.2	1.6	127	1.81
3384427	Drill Core	4.24	0.009	1.6	108.5	9.6	78	0.5	6.3	12.0	643	3.96	12	2.3	5.4	291	0.3	9.8	1.2	122	1.98
3384428	Drill Core	2.60	0.013	3.2	126.3	13.2	81	0.8	6.3	12.4	689	3.99	21	2.1	5.1	246	0.4	8.6	1.0	114	1.96
3384429	Drill Core	1.75	0.008	2.6	83.3	11.5	72	0.7	6.2	16.6	593	4.97	11	2.3	5.0	177	0.1	8.0	1.5	116	1.92
3384430	Drill Core	1.64	0.010	2.9	115.2	11.3	76	0.8	6.1	13.6	640	4.65	9	2.2	4.9	178	0.3	8.6	1.2	112	2.12
3384431	Drill Core	2.69	0.018	2.2	137.2	20.2	92	1.6	5.9	11.3	888	4.13	19	2.8	5.3	283	0.1	7.1	2.4	112	2.88
3384432	Drill Core	3.41	0.009	3.8	126.8	13.6	86	0.7	6.0	12.3	796	3.93	10	2.5	5.4	581	0.2	4.1	1.1	113	2.66
3384433	Drill Core	4.66	0.008	4.3	188.4	13.1	93	0.5	6.0	11.1	666	4.16	5	2.0	5.6	665	0.3	2.0	1.2	118	3.11
3384434	Drill Core	4.57	0.009	2.0	104.4	16.2	83	0.5	5.3	12.0	709	4.05	9	2.5	5.4	526	0.4	3.5	0.6	114	2.91
3384435	Drill Core	4.38	<0.005	3.2	61.7	11.9	75	0.2	5.9	11.2	685	3.76	5	2.6	5.6	646	<0.1	1.4	0.2	114	3.35
3384436	Drill Core	4.81	0.007	2.6	86.7	16.4	86	0.4	6.5	11.8	678	3.93	12	2.2	5.4	587	0.1	2.2	0.4	119	3.08
3384437	Drill Core	4.94	0.006	2.5	100.2	20.4	103	0.4	6.4	12.2	767	3.97	9	1.9	5.6	654	0.5	1.1	0.3	121	3.36
3384438	Drill Core	4.32	<0.005	1.7	59.9	17.7	88	0.2	6.3	11.0	720	3.88	5	2.0	5.1	694	0.1	0.9	0.3	121	3.28
3384439	Drill Core	4.60	0.010	3.7	108.4	22.0	200	0.7	6.7	11.8	638	3.94	6	2.2	5.5	628	1.4	1.4	0.9	116	3.01
3384440	Rock	1.07	<0.005	0.9	6.3	2.6	37	<0.1	1.2	3.1	599	1.88	4	1.2	3.0	186	<0.1	0.1	<0.1	31	1.41
3384441	Drill Core	4.15	0.018	3.2	106.6	33.4	175	1.0	6.1	10.5	723	4.06	9	2.7	5.6	513	1.3	1.8	1.8	113	2.57
3384442	Drill Core	3.38	0.014	2.7	91.6	58.6	185	1.2	5.6	9.3	755	4.58	13	2.2	5.1	294	1.6	1.7	2.4	114	2.89
3384443	Drill Core	4.21	0.009	3.6	175.1	12.9	86	0.5	6.3	11.3	600	4.39	11	1.9	5.3	540	0.2	1.4	1.4	118	2.57
3384444	Drill Core	4.84	0.036	3.0	76.1	18.6	81	1.6	6.4	13.2	726	4.20	12	2.7	5.6	327	0.3	5.9	1.6	119	2.34
3384445	Drill Core	2.10	0.028	26.6	333.8	45.3	309	2.6	7.9	23.3	787	8.31	15	1.5	3.1	101	3.2	13.4	2.5	86	3.18
3384446	Drill Core	3.49	0.010	3.0	119.6	12.7	90	0.7	6.3	11.2	853	3.77	11	2.5	6.0	454	0.2	7.4	0.8	124	2.42
3384447	Drill Core	4.82	0.014	3.0	59.5	15.8	107	0.6	6.9	14.0	929	4.01	15	2.3	5.1	416	0.2	10.2	0.8	126	2.76
3384448	Drill Core	4.84	0.009	4.3	77.5	14.7	96	0.5	7.1	14.0	973	3.91	10	1.7	4.7	645	0.2	3.1	0.6	127	3.60
3384449	Drill Core	5.15	0.006	5.5	95.1	12.7	88	0.7	7.0	13.6	739	4.06	7	2.3	5.0	626	0.2	2.9	0.6	129	3.12
3384450	Drill Core	4.32	0.007	7.2	77.7	17.3	156	0.6	7.9	15.2	841	4.16	10	2.6	4.8	513	0.7	10.3	0.6	133	2.98
3384451	Drill Core	3.16	0.005	12.7	70.7	11.4	81	0.3	7.6	13.4	583	4.15	6	1.9	4.7	650	0.1	3.5	0.4	132	3.25
3384452	Drill Core	4.08	<0.005	8.4	66.6	10.6	84	0.2	7.4	13.6	673	4.05	6	1.5	4.5	682	0.1	1.5	0.4	135	3.50
3384453	Drill Core	2.58	0.005	9.3	39.4	9.6	99	0.2	10.3	16.8	866	4.88	5	1.3	4.6	660	0.2	0.9	0.5	189	3.81
3384454	Drill Core	5.08	0.019	6.8	108.3	17.6	174	0.6	7.9	14.7	876	4.54	19	2.0	4.5	506	1.2	4.7	0.9	127	3.89

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Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384425	Drill Core	0.115	18.3	26	0.75	32	0.362	7.70	1.260	2.96	3.6	4.2	42	1.2	14.2	5.1	0.3	1	12	21.4	4.1
3384426	Drill Core	0.115	17.6	27	0.75	33	0.336	7.76	1.068	3.16	4.8	4.2	42	2.0	12.6	4.6	0.3	1	12	20.9	3.5
3384427	Drill Core	0.113	19.1	28	0.84	39	0.313	7.69	1.256	2.99	4.2	4.0	43	1.4	12.1	4.2	0.3	1	11	20.4	3.0
3384428	Drill Core	0.102	15.1	27	0.73	35	0.300	7.10	1.470	2.80	3.3	3.8	35	1.4	10.9	4.1	0.3	1	10	18.3	3.3
3384429	Drill Core	0.105	14.0	25	0.76	26	0.329	7.21	1.279	2.99	3.8	3.3	33	1.9	11.0	4.6	0.3	<1	10	18.5	4.4
3384430	Drill Core	0.099	15.0	25	0.78	30	0.325	7.05	1.249	2.85	3.7	3.5	35	1.6	11.0	4.5	0.3	1	10	18.0	3.8
3384431	Drill Core	0.110	15.0	27	0.96	47	0.386	7.26	1.496	2.91	2.9	4.0	35	1.6	11.7	5.7	0.4	2	10	19.0	2.9
3384432	Drill Core	0.102	15.1	27	1.27	54	0.388	7.46	2.063	2.31	1.8	4.3	36	1.0	12.1	5.8	0.4	1	11	26.2	1.9
3384433	Drill Core	0.109	16.1	27	1.55	86	0.391	7.47	2.235	1.83	1.2	4.2	38	1.0	12.0	5.7	0.4	<1	11	27.2	1.3
3384434	Drill Core	0.103	14.9	28	1.47	53	0.371	7.08	1.780	2.27	3.0	4.3	36	1.1	11.5	5.3	0.4	1	11	25.0	2.1
3384435	Drill Core	0.102	18.1	24	1.55	106	0.379	7.30	2.228	1.76	0.7	4.6	41	0.8	12.2	5.8	0.4	1	11	27.4	1.2
3384436	Drill Core	0.111	15.8	27	1.56	84	0.391	7.42	2.120	1.83	0.9	4.6	36	1.0	11.9	5.7	0.4	1	11	24.9	1.6
3384437	Drill Core	0.113	17.4	28	1.69	117	0.446	7.59	2.405	1.84	0.9	5.3	39	1.0	12.4	6.4	0.4	<1	12	26.4	1.2
3384438	Drill Core	0.112	16.6	28	1.63	160	0.436	7.47	2.424	1.67	0.6	5.6	37	0.9	12.3	6.5	0.4	2	11	25.2	1.0
3384439	Drill Core	0.107	17.2	30	1.61	59	0.394	7.55	2.339	1.56	2.1	4.8	38	1.0	11.7	5.4	0.4	1	11	28.2	2.5
3384440	Rock	0.037	11.2	2	0.47	766	0.184	6.50	3.270	1.61	0.3	48.8	23	0.6	14.7	5.1	0.4	<1	6	2.5	<0.1
3384441	Drill Core	0.107	15.4	26	1.52	30	0.314	7.21	2.100	2.21	1.8	4.7	36	1.2	11.3	4.3	0.3	2	10	25.7	3.0
3384442	Drill Core	0.101	15.0	22	1.27	66	0.242	6.93	1.323	2.67	2.8	4.0	33	2.5	12.5	3.2	0.2	<1	10	23.1	4.0
3384443	Drill Core	0.106	17.4	34	1.59	69	0.369	7.26	2.294	1.63	1.7	4.9	37	1.1	11.4	4.8	0.3	1	10	32.6	1.9
3384444	Drill Core	0.095	15.3	31	0.89	47	0.354	7.10	1.571	2.60	2.7	4.7	33	1.8	10.0	5.3	0.3	<1	10	21.3	3.4
3384445	Drill Core	0.067	8.8	19	0.59	29	0.202	4.96	0.282	2.17	3.0	3.0	22	2.1	8.4	2.6	0.2	<1	6	18.9	8.6
3384446	Drill Core	0.109	19.6	31	0.89	69	0.479	8.11	2.146	2.64	2.1	5.6	41	1.3	12.2	6.6	0.4	1	10	23.2	2.1
3384447	Drill Core	0.103	16.5	33	0.98	65	0.477	7.56	1.810	2.54	2.4	5.5	38	1.3	10.8	6.4	0.4	1	11	23.6	2.3
3384448	Drill Core	0.100	15.7	36	1.53	97	0.445	7.23	2.252	1.74	1.2	5.5	36	1.0	11.4	6.2	0.4	<1	11	32.2	1.4
3384449	Drill Core	0.105	16.7	38	1.58	66	0.450	7.42	2.317	1.93	1.9	5.4	36	1.3	12.0	6.1	0.4	<1	11	32.3	1.9
3384450	Drill Core	0.115	14.8	35	1.53	67	0.473	7.72	1.860	2.32	3.0	5.4	34	1.2	11.4	6.5	0.4	1	11	35.7	2.3
3384451	Drill Core	0.114	15.9	35	1.53	89	0.447	7.64	2.314	2.07	1.3	5.5	34	1.2	12.2	6.1	0.4	<1	11	37.3	1.7
3384452	Drill Core	0.113	14.4	35	1.65	207	0.447	7.46	2.487	1.93	0.8	5.8	33	1.2	12.2	6.8	0.5	2	11	29.5	0.9
3384453	Drill Core	0.109	16.5	34	2.15	141	0.545	7.77	2.370	1.57	1.0	10.0	34	1.2	13.5	6.0	0.4	<1	16	26.3	1.2
3384454	Drill Core	0.108	16.4	36	1.45	72	0.462	7.31	1.786	1.98	2.3	5.6	34	1.4	12.2	5.8	0.4	<1	11	31.3	2.9

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#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3384425	Drill Core	109.1	0.3	0.05	<0.005	<1	0.6	1.6	
3384426	Drill Core	108.1	0.3	<0.05	<0.005	2	0.6	1.6	
3384427	Drill Core	100.0	0.3	0.08	<0.005	<1	0.6	1.5	
3384428	Drill Core	93.8	0.2	0.11	<0.005	2	<0.5	1.5	
3384429	Drill Core	96.0	0.2	0.07	<0.005	<1	0.7	1.5	
3384430	Drill Core	98.9	0.3	0.06	<0.005	2	<0.5	1.5	
3384431	Drill Core	105.3	0.3	<0.05	<0.005	1	0.9	1.8	
3384432	Drill Core	71.4	0.2	0.14	<0.005	1	0.9	1.1	
3384433	Drill Core	41.2	0.3	0.11	<0.005	<1	<0.5	0.7	
3384434	Drill Core	62.4	0.2	0.10	<0.005	1	<0.5	1.1	
3384435	Drill Core	52.1	0.3	0.08	<0.005	<1	<0.5	0.8	
3384436	Drill Core	54.3	0.2	0.08	<0.005	<1	<0.5	1.0	
3384437	Drill Core	47.0	0.4	0.08	<0.005	2	<0.5	0.9	
3384438	Drill Core	39.0	0.3	0.06	<0.005	1	0.5	0.7	
3384439	Drill Core	45.0	0.3	0.11	<0.005	2	1.0	0.8	
3384440	Rock	31.6	1.6	<0.05	<0.005	<1	<0.5	<0.5	
3384441	Drill Core	65.9	0.2	0.10	<0.005	<1	0.8	1.0	
3384442	Drill Core	76.5	0.2	<0.05	<0.005	<1	1.0	1.2	
3384443	Drill Core	42.1	0.3	0.09	<0.005	<1	0.7	0.8	
3384444	Drill Core	85.9	0.3	0.06	<0.005	<1	2.1	1.3	
3384445	Drill Core	61.6	0.2	0.14	<0.005	3	2.8	1.0	
3384446	Drill Core	103.4	0.3	0.19	<0.005	<1	0.8	1.5	
3384447	Drill Core	92.0	0.3	0.10	<0.005	<1	0.9	1.5	
3384448	Drill Core	47.5	0.3	0.12	<0.005	<1	0.7	0.9	
3384449	Drill Core	62.1	0.3	0.16	<0.005	1	<0.5	1.2	
3384450	Drill Core	64.7	0.3	0.11	<0.005	<1	0.8	1.2	
3384451	Drill Core	55.9	0.3	0.10	<0.005	1	0.6	1.1	
3384452	Drill Core	39.5	0.4	0.12	<0.005	<1	0.6	1.0	
3384453	Drill Core	40.2	0.5	0.13	<0.005	1	0.6	0.8	
3384454	Drill Core	74.0	0.3	0.16	<0.005	<1	0.9	1.2	

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384455	Drill Core	5.19	0.021	9.1	216.9	19.6	195	1.7	8.1	16.3	1194	4.46	19	2.2	4.0	426	1.5	3.7	1.6	135	3.43
3384456	Drill Core	4.89	0.006	1.3	111.5	11.9	95	0.4	8.0	13.5	803	4.41	6	1.7	4.9	678	0.2	0.9	0.5	136	3.57
3384457	Drill Core	4.74	0.011	2.4	201.9	17.5	114	0.9	8.0	16.3	965	5.04	11	2.0	4.3	551	0.5	3.0	0.9	137	3.27
3384458	Drill Core	4.87	0.013	4.1	157.3	12.5	86	0.9	7.9	13.8	1024	4.40	11	1.9	4.6	567	0.1	4.8	0.8	137	3.29
3384459	Drill Core	5.20	0.016	3.6	217.3	13.5	97	1.3	8.6	15.3	969	4.52	12	2.1	4.2	467	0.3	7.9	0.9	143	2.41
3384460	Rock Pulp	0.07	0.699	322.1	5339.5	21.3	91	0.8	42.7	15.3	568	5.03	29	4.2	15.4	327	0.4	3.9	0.6	130	2.82
3384461	Drill Core	2.80	0.017	8.8	111.1	16.5	74	1.2	7.3	15.4	1088	5.16	16	2.0	3.8	395	0.2	3.6	1.1	128	3.12
3384462	Drill Core	2.72	0.017	2.3	218.8	16.6	112	1.8	7.3	13.2	1165	3.98	19	2.7	5.3	262	0.5	8.2	1.2	129	2.20
3384463	Drill Core	4.89	0.012	1.6	161.4	16.0	126	1.2	7.2	13.4	1426	4.04	20	2.3	5.3	422	0.5	8.5	0.8	135	3.04
3384464	Drill Core	4.92	0.012	1.4	144.6	31.4	260	1.2	9.0	13.7	1180	4.15	20	2.0	4.4	435	1.7	10.0	1.2	147	2.95
3384465	Drill Core	4.61	0.026	3.2	166.1	40.6	215	1.7	9.4	20.8	1302	4.93	38	2.2	4.2	84	1.6	16.1	1.5	144	2.07
3384466	Drill Core	3.57	0.019	2.7	157.1	27.3	438	1.6	7.3	11.9	1957	4.16	22	2.1	5.0	285	4.3	10.6	1.3	138	3.20
3384467	Drill Core	2.18	0.026	6.1	145.5	22.7	105	1.0	7.8	15.0	2685	4.75	21	2.3	4.5	157	0.4	17.0	1.3	122	5.19
3384468	Drill Core	2.28	0.023	6.7	98.8	54.5	825	1.4	5.9	12.0	5470	4.86	12	1.3	2.6	400	7.0	23.8	1.8	77	10.17
3384469	Drill Core	3.20	0.008	3.7	121.1	12.1	73	0.5	7.6	13.7	1111	3.93	11	1.8	4.6	185	0.1	8.7	0.8	140	2.84
3384470	Core DUP	<0.01	0.007	3.8	123.2	12.4	68	0.6	7.7	13.0	1109	3.94	11	1.9	4.7	200	<0.1	8.6	0.9	139	2.93
3384471	Drill Core	4.95	0.010	6.8	120.8	14.5	59	0.7	6.8	26.0	774	4.40	7	2.1	4.5	280	<0.1	4.9	1.5	127	2.79
3384472	Drill Core	4.26	0.018	5.1	1031.4	15.1	80	2.3	7.0	20.4	773	4.49	9	1.7	4.5	432	0.3	2.3	1.7	135	2.97
3384473	Drill Core	4.52	0.009	2.3	38.3	15.2	75	0.6	7.4	12.9	668	4.16	7	2.0	5.1	534	0.1	1.3	1.4	133	2.54
3384474	Drill Core	4.19	0.015	2.9	269.9	48.5	205	1.9	7.8	14.2	1119	4.66	13	1.9	4.6	413	1.6	2.2	2.5	130	2.65
3384475	Drill Core	5.08	0.021	7.1	158.5	23.3	114	1.6	7.5	15.4	1529	4.42	20	1.8	4.1	262	0.6	3.6	1.5	134	3.57
3384476	Drill Core	4.74	0.012	5.0	160.7	19.2	89	1.3	8.1	14.0	1198	4.54	17	1.6	4.4	414	<0.1	1.5	1.6	139	2.56
3384477	Drill Core	4.97	0.015	7.1	418.1	22.1	93	1.8	7.6	23.0	1345	4.86	21	1.8	4.4	469	0.3	1.7	2.3	135	3.13
3384478	Drill Core	5.08	0.016	11.3	232.6	24.9	111	1.5	7.1	10.9	1411	4.73	29	2.0	5.1	559	0.3	2.0	3.4	135	2.83
3384479	Drill Core	4.94	0.013	4.9	202.3	19.2	109	1.1	8.0	13.5	1140	4.63	17	1.7	5.5	525	0.2	1.4	2.6	130	3.37
3384480	Rock	1.07	<0.005	1.5	6.3	3.3	40	<0.1	1.1	4.0	666	1.99	3	1.3	3.2	198	<0.1	0.1	<0.1	36	1.55
3384481	Drill Core	2.55	0.011	4.4	124.3	12.9	63	0.4	8.1	15.2	596	5.33	11	1.7	4.2	459	<0.1	0.9	2.2	131	2.61
3384482	Drill Core	2.44	0.006	5.3	96.4	10.1	70	0.2	8.1	12.7	789	4.35	4	1.7	4.6	674	<0.1	1.1	1.4	137	3.72
3384483	Drill Core	2.59	0.041	2.2	161.4	36.6	238	2.1	5.2	10.0	5817	3.94	19	2.2	4.1	213	1.6	2.2	1.9	97	9.18
3384484	Drill Core	3.73	0.024	6.8	113.6	16.2	92	0.9	8.1	14.3	1725	4.15	25	1.6	4.5	501	<0.1	1.7	0.9	138	3.34

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Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384455	Drill Core	0.112	14.1	35	1.55	51	0.440	7.46	1.703	2.38	3.4	5.4	32	1.4	10.6	5.8	0.4	<1	11	32.2	3.3
3384456	Drill Core	0.111	16.5	35	1.76	153	0.499	7.84	2.448	1.45	1.1	5.2	35	1.2	12.9	6.4	0.4	<1	12	28.9	1.2
3384457	Drill Core	0.114	15.3	36	1.70	47	0.463	7.79	2.151	1.82	2.3	5.7	35	1.3	12.7	5.7	0.4	1	12	33.6	3.0
3384458	Drill Core	0.116	15.4	34	1.48	75	0.468	7.72	1.991	1.82	1.9	5.3	35	1.2	12.1	6.6	0.4	<1	12	29.4	1.7
3384459	Drill Core	0.118	14.4	35	1.32	45	0.469	7.76	1.865	2.60	2.9	5.1	34	1.4	12.2	6.0	0.4	1	12	28.9	2.8
3384460	Rock Pulp	0.095	29.8	68	1.50	631	0.499	7.25	2.076	3.34	5.8	68.1	60	3.5	21.6	16.5	1.2	3	13	32.2	0.5
3384461	Drill Core	0.109	12.0	30	1.25	48	0.356	7.16	1.286	2.98	4.6	4.8	28	1.7	10.0	4.1	0.3	<1	11	27.2	4.5
3384462	Drill Core	0.105	16.3	36	0.97	50	0.421	7.61	0.923	3.20	3.8	5.5	35	1.4	10.9	5.6	0.4	1	10	24.1	3.1
3384463	Drill Core	0.107	18.0	36	1.24	96	0.473	7.69	1.562	2.47	3.0	5.4	38	1.2	11.5	6.7	0.4	1	11	31.6	1.7
3384464	Drill Core	0.122	14.9	39	1.35	108	0.495	7.61	1.449	2.56	2.8	4.9	33	1.1	11.6	6.9	0.4	1	11	32.5	1.7
3384465	Drill Core	0.129	18.5	36	0.91	57	0.473	7.94	0.050	3.67	6.5	13.0	43	1.2	11.5	6.1	0.4	2	12	32.2	3.8
3384466	Drill Core	0.108	16.0	35	1.10	62	0.478	7.79	1.325	2.78	4.6	5.4	34	1.2	12.1	7.0	0.4	2	11	35.8	2.4
3384467	Drill Core	0.099	20.1	26	1.68	144	0.403	6.97	0.041	2.82	7.2	4.9	37	1.9	13.7	5.3	0.3	<1	10	34.8	3.7
3384468	Drill Core	0.061	13.7	13	2.17	55	0.163	4.58	0.026	1.21	3.3	2.1	26	2.5	15.6	1.8	0.1	<1	6	52.9	3.2
3384469	Drill Core	0.117	16.4	32	1.22	75	0.427	7.95	0.646	3.01	6.2	4.6	35	1.0	11.4	5.2	0.3	<1	11	35.5	2.6
3384470	Core DUP	0.121	16.2	34	1.22	76	0.420	7.78	0.707	2.94	6.1	4.6	34	0.9	11.7	5.3	0.3	<1	11	37.1	2.6
3384471	Drill Core	0.109	15.9	36	1.17	45	0.364	7.48	1.456	2.74	4.6	4.7	35	1.2	11.8	4.5	0.3	<1	11	28.2	3.8
3384472	Drill Core	0.112	14.3	35	1.64	47	0.446	7.37	2.327	1.71	3.1	5.0	32	1.4	11.9	5.8	0.4	1	11	37.1	2.8
3384473	Drill Core	0.115	15.9	35	1.72	51	0.429	7.75	2.621	1.71	2.3	4.7	35	1.5	11.9	5.4	0.3	1	11	36.0	2.7
3384474	Drill Core	0.108	16.0	30	1.75	42	0.445	7.10	2.451	1.74	3.1	4.5	38	1.7	11.9	5.7	0.4	1	11	40.7	3.3
3384475	Drill Core	0.108	14.4	33	1.26	49	0.472	6.97	1.857	2.38	4.5	4.8	31	1.7	12.1	6.1	0.4	1	11	31.1	3.6
3384476	Drill Core	0.113	17.1	34	1.91	51	0.497	7.86	2.520	1.96	2.9	5.1	38	1.5	13.0	6.6	0.4	<1	12	35.9	3.0
3384477	Drill Core	0.119	15.0	35	1.82	45	0.470	7.41	2.245	2.22	3.1	5.2	33	1.7	12.0	5.9	0.4	<1	12	42.9	3.0
3384478	Drill Core	0.107	16.9	33	1.80	52	0.479	7.65	2.535	1.96	2.8	4.8	36	1.2	12.1	6.2	0.4	2	11	40.4	2.3
3384479	Drill Core	0.118	14.5	38	1.73	67	0.486	7.13	2.198	2.12	2.8	5.0	30	1.4	11.9	6.4	0.4	<1	12	39.7	2.6
3384480	Rock	0.039	11.9	3	0.48	773	0.214	6.66	3.337	1.63	0.3	53.7	21	0.7	16.5	5.6	0.4	<1	6	3.2	<0.1
3384481	Drill Core	0.108	12.5	34	1.66	66	0.431	6.98	2.199	2.14	3.2	5.8	29	1.3	11.6	5.8	0.3	1	11	36.7	3.2
3384482	Drill Core	0.117	15.7	34	1.71	557	0.469	7.51	2.502	1.33	1.6	5.9	33	1.1	12.2	6.8	0.4	1	11	31.5	0.7
3384483	Drill Core	0.074	19.2	24	2.67	71	0.294	5.80	0.487	1.96	3.4	4.7	37	2.2	17.3	3.9	0.3	1	8	22.6	2.7
3384484	Drill Core	0.119	14.3	36	1.79	126	0.495	7.39	1.914	1.84	2.3	5.9	31	1.1	11.7	6.5	0.4	1	12	37.0	1.9

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3384455	Drill Core	81.7	0.3	0.27	<0.005	2	1.2	1.4	
3384456	Drill Core	38.8	0.3	0.14	<0.005	<1	1.0	0.7	
3384457	Drill Core	51.1	0.3	0.20	<0.005	<1	1.1	1.1	
3384458	Drill Core	64.7	0.3	0.20	<0.005	1	0.8	1.4	
3384459	Drill Core	93.6	0.3	0.17	<0.005	1	0.6	1.9	
3384460	Rock Pulp	148.0	2.2	0.10	0.007	2	0.6	0.9	
3384461	Drill Core	110.0	0.3	0.08	<0.005	2	1.0	2.2	
3384462	Drill Core	127.9	0.3	0.14	<0.005	2	1.1	2.7	
3384463	Drill Core	96.1	0.4	0.15	<0.005	1	0.7	1.9	
3384464	Drill Core	76.0	0.3	0.24	<0.005	1	1.1	1.8	
3384465	Drill Core	138.7	0.5	0.25	<0.005	1	1.3	3.1	
3384466	Drill Core	111.8	0.4	0.84	<0.005	<1	1.4	2.1	
3384467	Drill Core	134.1	0.3	0.12	<0.005	<1	0.9	2.1	
3384468	Drill Core	57.1	0.1	0.41	<0.005	<1	1.8	0.8	
3384469	Drill Core	109.6	0.3	0.12	<0.005	1	<0.5	1.9	
3384470	Core DUP	109.0	0.3	0.10	<0.005	1	<0.5	1.9	
3384471	Drill Core	118.8	0.2	0.09	<0.005	<1	0.8	1.7	
3384472	Drill Core	65.3	0.2	0.37	<0.005	2	1.1	1.0	
3384473	Drill Core	67.4	0.3	0.10	<0.005	1	1.2	1.0	
3384474	Drill Core	79.5	0.2	0.23	<0.005	<1	1.3	1.1	
3384475	Drill Core	100.6	0.3	0.16	<0.005	1	1.4	1.7	
3384476	Drill Core	87.1	0.3	0.17	<0.005	1	0.9	1.2	
3384477	Drill Core	74.4	0.2	0.19	<0.005	1	0.9	1.2	
3384478	Drill Core	67.7	0.3	0.16	<0.005	2	1.2	1.1	
3384479	Drill Core	58.7	0.3	0.13	<0.005	1	1.2	1.1	
3384480	Rock	33.4	1.9	<0.05	<0.005	<1	<0.5	<0.5	
3384481	Drill Core	42.8	0.3	0.15	<0.005	2	1.1	1.0	
3384482	Drill Core	30.5	0.3	0.25	<0.005	<1	0.6	0.8	
3384483	Drill Core	93.0	0.2	0.19	<0.005	<1	2.2	1.4	
3384484	Drill Core	55.1	0.4	0.14	<0.005	<1	1.1	1.4	

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384485	Drill Core	4.42	0.017	17.7	138.4	14.8	91	1.0	8.0	12.8	1541	4.16	28	1.4	4.3	447	0.2	3.6	0.9	136	3.05
3384486	Drill Core	2.56	0.015	3.8	97.6	14.1	80	0.6	8.0	16.2	1969	4.52	44	1.6	4.6	396	<0.1	3.5	1.2	134	3.19
3384487	Drill Core	4.35	0.025	2.8	112.7	23.6	219	2.8	7.6	13.4	3798	4.18	46	1.6	4.4	154	1.7	7.6	1.4	130	4.94
3384488	Drill Core	4.04	0.019	7.2	126.3	13.3	93	1.4	7.6	14.4	2099	4.31	35	1.8	3.8	145	0.3	6.7	1.3	133	2.36
3384489	Drill Core	4.39	0.020	4.0	88.7	8.8	74	1.1	7.7	12.9	3009	4.09	56	1.8	4.3	200	<0.1	3.7	0.8	133	3.05
3384490	Drill Core	4.58	0.019	2.5	62.4	8.9	67	1.0	7.6	13.1	2700	3.99	30	1.6	3.7	83	0.1	2.3	1.2	126	3.02
3384491	Drill Core	1.95	0.029	2.5	82.8	12.8	101	1.6	6.3	11.8	4557	4.08	24	2.3	4.7	133	0.4	1.9	1.5	116	7.06
3384492	Drill Core	3.92	0.033	7.1	107.3	18.3	109	1.7	7.0	16.5	1970	5.98	29	1.8	3.8	78	0.7	2.4	3.8	127	2.35
3384493	Drill Core	3.59	0.013	4.8	106.5	7.5	49	0.5	7.9	11.6	1196	4.78	11	1.7	4.6	334	<0.1	1.2	2.2	133	2.68
3384494	Drill Core	2.50	0.014	6.8	66.2	13.1	83	0.5	8.1	25.6	1382	5.52	11	2.0	4.8	309	0.4	1.2	2.2	133	2.77
3384495	Drill Core	3.87	0.010	3.4	154.6	12.6	65	0.9	7.6	17.0	1282	5.01	16	1.7	4.0	424	<0.1	1.4	26.2	136	2.96
3384496	Drill Core	2.67	0.010	4.4	102.9	9.6	69	0.6	7.9	11.3	1857	4.56	18	1.5	4.8	257	0.1	2.0	1.3	135	2.48
3384497	Drill Core	2.98	0.012	3.1	102.9	8.5	73	0.7	6.7	17.6	4201	4.90	19	2.5	4.5	168	0.2	2.2	2.0	109	6.86
3384498	Drill Core	4.69	0.012	2.6	101.2	11.7	72	0.8	6.4	12.2	1581	4.52	18	1.9	5.0	387	0.2	1.9	1.2	123	2.87
3384499	Drill Core	2.44	0.017	5.4	68.9	8.7	80	0.5	6.7	13.7	2360	4.49	23	2.2	4.8	211	0.1	1.9	0.9	125	3.17
3384500	Rock Pulp	0.07	0.231	99.4	2736.6	22.9	80	0.4	61.3	15.7	545	4.22	18	4.3	18.4	311	<0.1	2.2	0.6	125	2.56

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Project: Berg
Report Date: August 31, 2019

CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384485	Drill Core	0.110	13.0	39	1.72	92	0.472	7.12	1.766	1.82	2.2	6.1	27	1.6	10.7	6.3	0.4	<1	10	35.9	2.2
3384486	Drill Core	0.115	13.8	32	1.69	69	0.451	7.16	1.621	1.93	2.5	5.3	30	1.2	10.9	5.8	0.4	<1	11	32.2	3.0
3384487	Drill Core	0.105	16.8	28	1.66	68	0.436	6.93	0.430	3.69	5.6	5.1	35	1.1	14.4	6.0	0.4	1	10	29.3	3.1
3384488	Drill Core	0.105	12.1	37	1.59	62	0.410	7.11	0.450	3.76	4.8	5.1	28	1.4	9.8	5.4	0.3	<1	10	24.6	3.6
3384489	Drill Core	0.112	14.0	35	1.77	92	0.458	7.46	0.581	3.66	5.3	5.4	31	1.1	10.7	6.1	0.4	1	10	32.5	2.9
3384490	Drill Core	0.103	11.8	29	1.61	68	0.369	6.68	0.114	3.88	5.7	4.8	26	1.1	8.4	4.6	0.3	<1	9	26.5	3.3
3384491	Drill Core	0.093	20.2	25	2.05	117	0.324	6.69	0.133	3.20	4.4	5.5	41	2.3	19.1	4.0	0.3	2	10	21.6	3.2
3384492	Drill Core	0.106	10.6	28	1.40	40	0.243	7.02	0.242	3.56	4.2	3.9	24	1.9	10.1	2.6	0.2	<1	10	29.4	5.7
3384493	Drill Core	0.108	16.4	36	1.67	64	0.332	7.67	1.502	2.28	2.4	3.9	35	1.1	10.5	3.5	0.2	1	11	33.5	3.5
3384494	Drill Core	0.112	14.8	33	1.63	41	0.345	7.50	1.445	2.40	2.9	4.8	32	1.3	10.8	3.8	0.2	1	12	35.0	4.5
3384495	Drill Core	0.117	13.8	35	1.66	58	0.406	7.55	1.716	2.56	2.5	4.9	32	1.2	11.2	5.0	0.3	<1	12	34.6	3.2
3384496	Drill Core	0.106	14.0	34	1.76	68	0.395	7.46	1.097	3.11	3.7	4.8	30	1.1	10.2	4.8	0.3	1	11	33.6	3.3
3384497	Drill Core	0.095	17.8	21	1.75	68	0.281	6.79	0.292	3.28	4.6	3.8	36	1.3	15.3	3.4	0.2	<1	10	22.4	4.2
3384498	Drill Core	0.105	16.8	31	1.71	64	0.364	7.56	1.560	2.45	2.8	4.9	34	1.1	11.5	4.7	0.3	2	11	32.1	3.3
3384499	Drill Core	0.108	13.8	34	1.61	65	0.391	7.30	0.692	3.18	5.1	5.5	32	0.9	10.4	5.0	0.3	1	10	31.2	3.3
3384500	Rock Pulp	0.098	27.9	83	1.44	1007	0.481	7.22	2.042	2.70	3.8	70.1	57	3.3	24.2	17.9	1.3	3	12	32.9	0.3

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Project: Berg
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CERTIFICATE OF ANALYSIS VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3384485	Drill Core	55.1	0.3	0.16	0.006	<1	0.5	1.6	
3384486	Drill Core	60.6	0.3	0.11	<0.005	<1	0.7	1.7	
3384487	Drill Core	122.7	0.3	0.19	<0.005	<1	1.1	3.4	
3384488	Drill Core	113.3	0.3	0.08	<0.005	<1	0.8	3.0	
3384489	Drill Core	123.0	0.3	0.12	<0.005	<1	0.8	3.2	
3384490	Drill Core	111.8	0.3	0.10	<0.005	<1	0.9	3.4	
3384491	Drill Core	148.0	0.3	0.09	<0.005	<1	1.8	2.3	
3384492	Drill Core	110.4	0.2	0.09	<0.005	1	2.7	2.3	
3384493	Drill Core	74.7	0.2	0.08	<0.005	1	1.3	1.4	
3384494	Drill Core	81.7	0.2	0.06	<0.005	2	1.3	1.4	
3384495	Drill Core	72.4	0.3	0.06	<0.005	1	1.4	1.4	
3384496	Drill Core	133.2	0.3	0.07	<0.005	<1	0.8	2.0	
3384497	Drill Core	155.8	0.2	0.07	<0.005	2	1.4	2.4	
3384498	Drill Core	95.5	0.3	<0.05	<0.005	<1	1.1	1.6	
3384499	Drill Core	116.8	0.4	<0.05	0.008	<1	0.6	2.4	
3384500	Rock Pulp	137.1	2.3	0.06	<0.005	2	<0.5	1.1	

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QUALITY CONTROL REPORT VAN19002151.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3384332	Drill Core	2.85	0.013	6.8	329.6	17.6	119	0.6	10.5	13.1	350	5.89	17	3.2	2.8	178	<0.1	6.2	1.7	141	0.35
REP 3384332	QC		0.015																		
3384335	Drill Core	2.69	0.013	4.0	401.8	15.1	229	0.7	8.1	14.6	742	4.74	8	2.9	2.4	80	4.5	15.6	1.5	149	0.19
REP 3384335	QC			4.4	419.3	15.6	218	0.7	8.2	15.5	760	4.87	7	3.2	3.0	89	5.1	15.8	1.5	153	0.19
3384369	Drill Core	2.44	0.010	27.2	72.5	9.0	76	0.1	7.4	13.4	872	4.18	16	2.8	5.8	385	<0.1	23.7	0.6	119	3.01
REP 3384369	QC			26.5	77.5	9.3	80	0.1	7.7	13.7	891	4.19	16	3.0	6.2	392	<0.1	24.1	0.6	118	3.03
3384373	Drill Core	4.54	0.022	5.7	145.4	25.6	168	2.0	8.9	13.6	1449	4.86	30	3.4	5.1	94	1.1	74.9	1.6	116	2.22
REP 3384373	QC		0.021																		
3384404	Drill Core	4.01	0.016	5.8	145.0	12.5	99	2.0	6.8	11.6	1335	4.36	14	1.9	3.6	179	0.4	28.2	0.9	129	1.83
REP 3384404	QC			5.6	147.5	12.4	100	2.0	6.7	11.7	1349	4.38	14	2.0	3.7	178	0.4	29.4	1.0	128	1.83
3384405	Drill Core	2.14	0.045	3.2	101.3	24.6	254	1.9	8.3	19.3	1566	6.64	22	1.4	2.3	73	1.9	38.6	2.4	122	2.06
REP 3384405	QC		0.037																		
3384417	Drill Core	2.94	0.031	5.3	14.6	15.2	117	0.7	6.2	18.2	566	10.76	40	1.1	1.8	71	0.7	11.7	4.3	93	1.36
REP 3384417	QC																				
3384439	Drill Core	4.60	0.010	3.7	108.4	22.0	200	0.7	6.7	11.8	638	3.94	6	2.2	5.5	628	1.4	1.4	0.9	116	3.01
REP 3384439	QC			3.2	103.4	21.7	201	0.7	6.2	11.6	635	3.96	8	2.2	5.4	613	1.1	1.4	0.8	117	2.93
3384448	Drill Core	4.84	0.009	4.3	77.5	14.7	96	0.5	7.1	14.0	973	3.91	10	1.7	4.7	645	0.2	3.1	0.6	127	3.60
REP 3384448	QC		0.009																		
3384475	Drill Core	5.08	0.021	7.1	158.5	23.3	114	1.6	7.5	15.4	1529	4.42	20	1.8	4.1	262	0.6	3.6	1.5	134	3.57
REP 3384475	QC			5.9	152.4	22.5	116	1.9	7.1	15.4	1554	4.36	21	1.8	4.2	247	0.5	3.4	1.5	133	3.52
3384480	Rock	1.07	<0.005	1.5	6.3	3.3	40	<0.1	1.1	4.0	666	1.99	3	1.3	3.2	198	<0.1	0.1	<0.1	36	1.55
REP 3384480	QC		<0.005																		
3384499	Drill Core	2.44	0.017	5.4	68.9	8.7	80	0.5	6.7	13.7	2360	4.49	23	2.2	4.8	211	0.1	1.9	0.9	125	3.17
REP 3384499	QC			6.4	69.0	8.8	79	0.5	6.9	13.8	2326	4.47	23	2.2	4.7	215	0.1	1.8	0.9	122	3.10
Core Reject Duplicates																					
3384333	Drill Core	1.98	0.015	4.2	393.7	16.2	125	0.7	8.9	14.6	371	5.29	25	3.0	2.2	31	0.2	13.3	1.5	144	0.07
DUP 3384333	QC		0.016	4.2	406.1	16.5	124	0.7	8.6	15.1	369	5.51	27	3.1	2.3	32	0.2	13.5	1.6	145	0.07
3384367	Drill Core	5.46	0.027	4.6	164.3	31.2	206	1.1	6.0	12.3	1014	3.89	32	2.5	4.7	229	1.3	108.6	1.0	119	2.27

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Vancouver British Columbia V6C 3R8 Canada

Project: Berg

Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3384332	Drill Core	0.102	7.2	24	1.23	25	0.379	7.26	0.850	2.46	2.6	4.9	20	1.5	7.1	3.8	0.2	<1	11	31.9	3.8
REP 3384332	QC																				
3384335	Drill Core	0.127	4.4	25	1.21	43	0.440	7.86	0.594	3.00	5.7	4.3	12	1.3	7.6	4.9	0.3	1	11	45.3	2.3
REP 3384335	QC	0.130	5.2	27	1.24	49	0.462	8.18	0.619	3.01	6.2	4.8	14	1.2	8.7	5.3	0.3	<1	12	45.8	2.3
3384369	Drill Core	0.104	12.9	34	0.89	49	0.329	7.44	1.548	2.34	1.8	6.2	30	1.1	11.4	4.7	0.4	<1	10	19.0	2.7
REP 3384369	QC	0.104	12.9	37	0.89	59	0.338	7.28	1.570	2.38	1.8	6.5	30	1.2	12.1	5.0	0.4	1	10	18.9	2.7
3384373	Drill Core	0.103	15.6	30	0.94	42	0.245	7.44	0.059	3.33	2.1	4.9	37	1.7	10.6	3.4	0.2	<1	9	13.8	4.4
REP 3384373	QC																				
3384404	Drill Core	0.119	13.4	21	0.76	49	0.379	7.94	1.131	2.97	6.5	3.8	33	1.2	11.3	5.3	0.3	<1	11	19.0	2.4
REP 3384404	QC	0.119	14.4	22	0.77	59	0.373	7.93	1.138	2.98	6.1	3.7	34	1.4	11.3	5.2	0.3	<1	11	18.5	2.4
3384405	Drill Core	0.086	11.0	12	0.78	37	0.259	6.83	0.060	3.10	2.9	3.4	27	2.4	13.6	3.0	0.2	<1	11	16.2	5.9
REP 3384405	QC																				
3384417	Drill Core	0.072	3.4	10	0.52	12	0.090	5.69	0.096	3.01	3.5	2.1	12	2.1	8.5	1.0	<0.1	<1	8	11.7	>10
REP 3384417	QC																				
3384439	Drill Core	0.107	17.2	30	1.61	59	0.394	7.55	2.339	1.56	2.1	4.8	38	1.0	11.7	5.4	0.4	1	11	28.2	2.5
REP 3384439	QC	0.109	16.2	29	1.62	43	0.377	7.24	2.316	1.60	1.8	4.8	37	1.0	11.4	5.2	0.4	1	11	28.6	2.5
3384448	Drill Core	0.100	15.7	36	1.53	97	0.445	7.23	2.252	1.74	1.2	5.5	36	1.0	11.4	6.2	0.4	<1	11	32.2	1.4
REP 3384448	QC																				
3384475	Drill Core	0.108	14.4	33	1.26	49	0.472	6.97	1.857	2.38	4.5	4.8	31	1.7	12.1	6.1	0.4	1	11	31.1	3.6
REP 3384475	QC	0.105	15.6	32	1.25	48	0.459	7.17	1.866	2.37	4.3	4.5	31	1.6	12.0	5.9	0.3	<1	11	31.8	3.5
3384480	Rock	0.039	11.9	3	0.48	773	0.214	6.66	3.337	1.63	0.3	53.7	21	0.7	16.5	5.6	0.4	<1	6	3.2	<0.1
REP 3384480	QC																				
3384499	Drill Core	0.108	13.8	34	1.61	65	0.391	7.30	0.692	3.18	5.1	5.5	32	0.9	10.4	5.0	0.3	1	10	31.2	3.3
REP 3384499	QC	0.105	14.7	32	1.58	111	0.393	7.34	0.659	3.14	5.0	5.3	31	1.1	10.5	5.0	0.3	<1	10	31.4	3.2
Core Reject Duplicates																					
3384333	Drill Core	0.103	2.9	24	0.81	30	0.432	7.80	0.146	3.38	5.1	4.9	9	1.4	4.8	4.5	0.3	<1	11	26.8	3.9
DUP 3384333	QC	0.102	3.4	24	0.80	28	0.440	7.85	0.141	3.42	5.1	4.8	11	1.2	5.4	4.6	0.3	<1	11	26.3	4.1
3384367	Drill Core	0.098	14.6	24	0.72	59	0.407	7.80	1.068	2.76	3.0	6.0	31	1.2	11.0	6.3	0.4	<1	10	16.6	2.5

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Project: Berg
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QUALITY CONTROL REPORT VAN19002151.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
Pulp Duplicates									
3384332	Drill Core	84.1	0.3	0.16	<0.005	1	0.7	1.4	
REP 3384332	QC								
3384335	Drill Core	103.4	0.3	0.06	<0.005	1	0.7	1.8	
REP 3384335	QC	113.7	0.3	0.09	<0.005	<1	0.7	1.9	
3384369	Drill Core	88.8	0.4	<0.05	0.005	<1	<0.5	2.0	
REP 3384369	QC	91.8	0.3	<0.05	0.007	1	<0.5	2.0	
3384373	Drill Core	123.0	0.3	0.12	<0.005	<1	0.9	3.0	
REP 3384373	QC								
3384404	Drill Core	114.8	0.3	0.15	<0.005	<1	<0.5	2.1	
REP 3384404	QC	118.7	0.2	0.12	<0.005	<1	0.6	2.3	
3384405	Drill Core	104.5	0.2	0.07	<0.005	<1	0.9	2.0	
REP 3384405	QC								
3384417	Drill Core	76.3	0.1	0.13	<0.005	2	1.3	1.1	12.53
REP 3384417	QC								12.26
3384439	Drill Core	45.0	0.3	0.11	<0.005	2	1.0	0.8	
REP 3384439	QC	43.7	0.3	0.10	<0.005	<1	0.9	0.8	
3384448	Drill Core	47.5	0.3	0.12	<0.005	<1	0.7	0.9	
REP 3384448	QC								
3384475	Drill Core	100.6	0.3	0.16	<0.005	1	1.4	1.7	
REP 3384475	QC	100.5	0.3	0.13	<0.005	1	1.2	1.6	
3384480	Rock	33.4	1.9	<0.05	<0.005	<1	<0.5	<0.5	
REP 3384480	QC								
3384499	Drill Core	116.8	0.4	<0.05	0.008	<1	0.6	2.4	
REP 3384499	QC	113.8	0.3	<0.05	0.006	<1	0.6	2.4	
Core Reject Duplicates									
3384333	Drill Core	121.4	0.3	0.21	<0.005	<1	0.7	2.2	
DUP 3384333	QC	122.4	0.3	0.20	<0.005	1	1.0	2.0	
3384367	Drill Core	111.5	0.3	0.13	<0.005	<1	0.6	2.4	

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Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

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		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP 3384367	QC		0.025	4.6	161.1	31.3	203	1.1	6.5	12.6	1014	3.89	34	2.9	5.1	247	1.3	108.7	0.9	119	2.27
3384401	Drill Core	4.28	0.030	2.9	85.4	17.0	96	0.5	7.9	13.6	1094	4.25	24	1.3	3.2	445	0.2	16.0	0.5	128	3.34
DUP 3384401	QC		0.033	3.4	88.6	17.4	95	0.5	7.8	14.0	1143	4.38	28	1.3	2.8	443	0.3	16.8	0.6	133	3.44
3384435	Drill Core	4.38	<0.005	3.2	61.7	11.9	75	0.2	5.9	11.2	685	3.76	5	2.6	5.6	646	<0.1	1.4	0.2	114	3.35
DUP 3384435	QC		<0.005	7.3	60.1	11.9	75	0.2	6.5	10.9	686	3.82	5	2.6	5.7	649	0.2	1.4	0.2	115	3.30
Reference Materials																					
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS25A-4A	Standard			2.8	36.3	25.2	41	<0.1	46.4	7.7	537	6.54	11	3.0	16.0	47	<0.1	1.0	0.4	163	0.28
STD OREAS25A-4A	Standard			2.5	34.8	25.2	44	<0.1	47.4	8.2	481	6.49	10	2.9	16.9	46	<0.1	0.6	0.3	159	0.28
STD OREAS25A-4A	Standard			2.6	31.6	22.7	40	<0.1	47.1	7.4	462	6.40	9	2.7	13.9	45	<0.1	0.8	0.3	159	0.25
STD OREAS25A-4A	Standard			2.6	34.9	22.8	41	<0.1	46.8	7.8	456	6.42	9	2.8	14.3	46	<0.1	0.6	0.4	157	0.26
STD OREAS25A-4A	Standard			2.1	32.4	24.9	40	<0.1	45.9	7.8	495	6.44	9	3.0	15.8	43	<0.1	0.6	0.3	157	0.26
STD OREAS25A-4A	Standard			2.3	32.8	23.0	47	<0.1	43.6	7.4	473	6.41	10	2.7	15.4	48	<0.1	0.7	0.4	151	0.26
STD OREAS45E	Standard			2.1	789.5	18.5	45	0.3	498.8	58.5	598	23.25	16	2.4	14.2	17	<0.1	1.5	0.3	346	0.07
STD OREAS45E	Standard			2.4	772.0	18.4	46	0.3	470.7	63.7	560	25.37	17	2.6	14.4	17	<0.1	1.1	0.2	323	0.06
STD OREAS45H	Standard			1.5	771.9	11.8	37	0.1	466.0	95.7	411	19.46	16	1.7	7.7	29	<0.1	0.8	0.2	282	0.14
STD OREAS45E	Standard			2.4	789.8	17.9	47	0.3	499.6	60.2	554	23.59	15	2.4	13.3	18	<0.1	0.9	0.2	335	0.07
STD OREAS45H	Standard			1.3	783.2	12.1	36	<0.1	469.5	88.6	421	19.27	16	1.6	7.7	28	<0.1	0.7	0.1	285	0.14
STD OREAS45H	Standard			1.4	787.8	12.4	47	0.1	422.6	87.9	409	20.54	17	1.6	7.8	31	<0.1	0.6	0.1	260	0.14
STD OXC145	Standard		0.207																		
STD OXC145	Standard		0.209																		
STD OXC145	Standard		0.211																		
STD OXH139	Standard		1.280																		
STD OXH139	Standard		1.309																		
STD OXH139	Standard		1.316																		
STD OXN134	Standard		7.619																		
STD OXN134	Standard		7.757																		
STD OXN134	Standard		7.772																		

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
DUP 3384367	QC	0.099	16.1	22	0.73	57	0.400	8.11	1.061	2.74	2.6	5.9	33	1.0	10.0	5.7	0.4	<1	10	18.7	2.5
3384401	Drill Core	0.101	13.3	17	1.32	72	0.415	7.73	1.630	1.73	1.4	3.8	32	1.0	15.6	5.2	0.3	1	12	22.8	1.7
DUP 3384401	QC	0.103	12.3	18	1.35	84	0.420	7.69	1.662	1.74	1.6	3.7	29	0.9	15.0	5.1	0.3	1	12	22.5	1.8
3384435	Drill Core	0.102	18.1	24	1.55	106	0.379	7.30	2.228	1.76	0.7	4.6	41	0.8	12.2	5.8	0.4	1	11	27.4	1.2
DUP 3384435	QC	0.106	17.3	25	1.58	89	0.382	7.26	2.220	1.77	0.7	4.5	39	1.0	12.6	5.6	0.4	2	11	26.8	1.2
Reference Materials																					
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS25A-4A	Standard	0.046	21.2	120	0.34	143	0.920	9.08	0.126	0.47	1.9	151.0	49	3.7	9.8	18.5	1.4	1	13	35.3	<0.1
STD OREAS25A-4A	Standard	0.047	21.9	124	0.35	150	0.924	9.04	0.135	0.47	1.8	148.6	45	4.2	10.5	19.3	1.4	<1	12	35.9	<0.1
STD OREAS25A-4A	Standard	0.045	17.7	119	0.33	140	0.918	8.50	0.132	0.45	2.0	148.1	40	3.6	8.8	19.1	1.3	1	11	38.5	<0.1
STD OREAS25A-4A	Standard	0.048	18.6	109	0.34	147	0.899	8.52	0.134	0.47	1.7	142.8	43	4.0	8.6	18.7	1.3	<1	12	40.8	<0.1
STD OREAS25A-4A	Standard	0.051	19.8	123	0.33	148	0.946	8.46	0.133	0.46	2.1	148.9	43	4.0	9.9	20.1	1.5	1	12	43.3	<0.1
STD OREAS25A-4A	Standard	0.051	19.8	104	0.31	147	0.855	8.94	0.136	0.49	1.7	145.5	46	3.9	10.1	18.7	1.3	<1	14	39.9	<0.1
STD OREAS45E	Standard	0.033	10.4	954	0.16	229	0.551	7.09	0.056	0.31	0.9	95.3	25	1.1	8.0	5.9	0.5	<1	94	6.5	<0.1
STD OREAS45E	Standard	0.032	11.7	972	0.19	259	0.531	6.98	0.062	0.34	0.9	93.1	25	1.1	8.3	6.0	0.5	<1	93	8.1	<0.1
STD OREAS45H	Standard	0.021	13.5	659	0.27	340	0.918	8.41	0.095	0.21	0.8	121.4	24	2.1	10.4	13.6	0.9	<1	57	15.2	<0.1
STD OREAS45E	Standard	0.034	11.8	973	0.17	262	0.539	7.21	0.065	0.36	1.2	94.3	27	1.3	8.4	6.3	0.5	<1	96	7.2	<0.1
STD OREAS45H	Standard	0.022	12.9	662	0.28	333	0.907	8.59	0.091	0.19	0.9	118.8	24	1.6	10.5	13.6	0.9	1	57	16.4	<0.1
STD OREAS45H	Standard	0.025	12.9	631	0.25	349	0.833	8.34	0.085	0.22	0.9	122.3	25	1.8	10.4	13.9	0.9	2	61	14.8	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
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Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002151.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
		Rb	Hf	In	Re	Se	Te	Tl	TOT/S
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
DUP 3384367	QC	116.4	0.3	0.12	<0.005	<1	0.6	2.3	
3384401	Drill Core	74.1	0.2	0.17	<0.005	<1	<0.5	1.5	
DUP 3384401	QC	67.7	0.2	0.16	<0.005	<1	<0.5	1.6	
3384435	Drill Core	52.1	0.3	0.08	<0.005	<1	<0.5	0.8	
DUP 3384435	QC	52.2	0.3	0.07	<0.005	<1	<0.5	0.8	
Reference Materials									
STD GS311-1	Standard								2.43
STD GS910-4	Standard								8.67
STD OREAS25A-4A	Standard	58.1	4.0	0.10	<0.005	<1	<0.5	<0.5	
STD OREAS25A-4A	Standard	58.4	4.1	0.11	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	53.0	3.8	0.12	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	54.0	4.0	0.08	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	53.2	4.1	0.09	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	57.9	3.8	0.08	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	20.8	2.7	0.12	<0.005	3	<0.5	<0.5	
STD OREAS45E	Standard	21.5	2.7	0.09	<0.005	3	<0.5	<0.5	
STD OREAS45H	Standard	22.8	3.2	0.12	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	21.8	2.6	0.08	<0.005	3	<0.5	<0.5	
STD OREAS45H	Standard	22.3	3.2	0.08	<0.005	2	<0.5	<0.5	
STD OREAS45H	Standard	22.7	3.3	0.07	<0.005	2	<0.5	<0.5	
STD OXC145	Standard								
STD OXC145	Standard								
STD OXC145	Standard								
STD OXH139	Standard								
STD OXH139	Standard								
STD OXH139	Standard								
STD OXN134	Standard								
STD OXN134	Standard								
STD OXN134	Standard								

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Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002151.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD OXC145 Expected			0.212																		
STD OXH139 Expected			1.312																		
STD OXN134 Expected			7.667																		
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	0.2	<0.2	3	<0.01	<1	<0.1	<0.1	<1	<0.1	0.2	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.3	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	0.2	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	2	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank																				
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	0.9	3.6	3.9	42	<0.1	0.7	3.8	655	2.14	2	1.4	3.2	216	<0.1	0.3	0.1	35	1.69
ROCK-VAN	Prep Blank		<0.005	1.4	4.2	2.9	42	<0.1	1.4	4.2	585	2.17	3	1.2	3.2	197	<0.1	0.1	<0.1	34	1.50

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Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg

Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002151.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	**La**	**Cr**	**Mg**	**Ba**	**Ti**	**Al**	**Na**	**K**	**W**	**Zr**	**Ce**	**Sn**	**Y**	**Nb**	**Ta**	**Be**	**Sc**	**Li**	**S**
		%	**ppm**	**ppm**	**%**	**ppm**	**%**	**%**	**%**	**%**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**%**
		0.001	**0.1**	**1**	**0.01**	**1**	**0.001**	**0.01**	**0.001**	**0.01**	**0.1**	**0.1**	**1**	**0.1**	**0.1**	**0.1**	**0.1**	**1**	**1**	**0.1**	**0.1**
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OXN134 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.2	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.035	13.3	3	0.48	759	0.200	6.88	3.321	1.42	0.2	49.7	25	0.9	16.8	5.4	0.4	<1	6	3.5	<0.1
ROCK-VAN	Prep Blank	0.038	13.2	4	0.52	741	0.209	6.81	3.290	1.47	0.3	48.8	24	0.7	16.1	5.3	0.4	<1	7	3.4	<0.1

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Project: Berg

Report Date: August 31, 2019

QUALITY CONTROL REPORT VAN19002151.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
		Rb	Hf	In	Re	Se	Te	Tl	TOT/S
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15	
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35	
STD OREAS45H Expected		22.5	3.6	0.1		2.02			
STD GS311-1 Expected									2.35
STD GS910-4 Expected									8.27
STD OXC145 Expected									
STD OXH139 Expected									
STD OXN134 Expected									
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5	
BLK	Blank								<0.02
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
ROCK-VAN	Prep Blank	32.3	1.8	<0.05	<0.005	1	<0.5	<0.5	
ROCK-VAN	Prep Blank	34.0	1.6	<0.05	<0.005	<1	<0.5	<0.5	

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Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
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Submitted By:	Paul Jago
Receiving Lab:	Canada-Vancouver
Received:	August 08, 2019
Report Date:	August 29, 2019
Page:	1 of 3

CERTIFICATE OF ANALYSIS VAN19002152.1

CLIENT JOB INFORMATION

Project:	Berg
Shipment ID:	BERG_04
P.O. Number	
Number of Samples:	34

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	34	Crush, split and pulverize 250 g rock to 200 mesh			VAN
FA430	34	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	34	Environmental disposal charge-Fire assay lead waste			VAN
MA200	34	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	34	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: Equity Exploration Consultants Ltd.
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8
Canada

CC: Geoff McMaster
Steve Bultitude
Dan Lui
John Bligh

JEFFREY CANNON
Geochemistry Department Supervisor

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Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002152.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384501	Drill Core	2.45	0.022	1.3	100.0	8.9	59	0.5	8.0	13.9	1027	4.71	18	2.0	5.0	505	0.1	1.0	1.0	132	3.12
3384502	Drill Core	3.76	0.012	1.7	119.8	9.3	52	0.5	7.6	12.0	818	4.35	14	2.0	5.3	490	0.1	1.2	1.4	130	2.73
3384503	Drill Core	4.31	0.028	1.4	88.2	13.1	74	1.4	7.6	12.2	2107	3.82	38	2.1	5.1	255	<0.1	2.6	1.0	131	3.73
3384504	Drill Core	3.52	0.021	4.9	34.8	12.5	75	0.6	6.5	11.1	4667	4.03	25	1.8	4.3	228	0.5	2.2	0.9	107	9.04
3384505	Drill Core	4.98	0.006	2.2	25.6	9.0	65	0.1	7.5	15.1	586	4.42	9	1.8	4.8	607	0.1	0.6	0.5	133	3.19
3384506	Drill Core	4.09	0.009	2.1	70.5	11.9	73	0.3	7.8	12.8	570	4.09	11	2.2	6.0	629	0.2	1.0	0.6	131	2.91
3384507	Drill Core	2.41	0.008	1.3	69.2	20.5	87	0.7	7.8	12.7	671	4.23	14	1.9	4.4	322	0.8	1.2	1.0	131	1.66
3384508	Drill Core	4.01	0.006	1.3	83.2	12.5	74	0.3	8.4	15.0	570	4.22	8	2.0	5.5	700	0.3	0.5	0.5	140	3.11
3384509	Drill Core	2.92	0.006	2.2	102.9	16.2	80	0.3	7.8	14.6	561	4.28	9	1.9	4.7	617	0.3	0.7	0.7	135	3.12
3384510	Drill Core	2.47	0.006	4.6	83.3	18.2	79	0.3	7.6	14.0	579	4.27	8	1.7	4.6	633	0.3	0.8	0.7	136	3.48
3384511	Drill Core	4.25	0.008	3.6	68.6	38.6	119	0.4	8.0	15.3	668	4.16	16	2.6	4.9	677	0.6	0.8	0.7	139	2.99
3384512	Drill Core	4.90	0.006	1.7	71.5	25.6	90	0.2	8.3	15.7	593	4.34	15	2.0	5.2	701	0.5	1.8	0.4	139	3.49
3384513	Drill Core	4.05	0.008	2.7	68.2	35.8	112	0.4	7.9	15.5	544	4.18	14	1.7	4.7	685	0.4	1.3	0.7	142	3.53
3384514	Drill Core	4.46	0.007	1.9	83.4	44.4	158	0.4	7.6	13.9	593	4.19	10	1.7	5.1	667	1.2	0.6	0.4	141	3.38
3384515	Drill Core	4.80	0.011	5.5	86.6	35.8	129	0.5	8.0	18.2	561	4.89	15	2.1	5.4	620	0.7	1.0	0.8	133	3.19
3384516	Drill Core	4.96	0.007	7.3	44.2	17.9	97	0.2	7.8	14.0	577	4.12	9	2.2	5.8	705	0.3	0.6	0.3	134	3.75
3384517	Drill Core	4.79	0.010	3.4	57.0	24.2	85	0.5	7.5	13.0	478	4.49	13	1.8	5.5	690	0.3	0.9	0.8	127	2.88
3384518	Drill Core	4.88	0.008	4.1	44.5	20.9	78	0.5	7.6	14.8	356	3.81	19	1.8	5.0	434	0.4	1.1	1.0	121	2.66
3384519	Drill Core	4.62	0.010	11.3	33.0	27.4	95	0.7	6.6	15.3	653	4.18	22	1.8	4.9	416	0.6	2.0	1.1	121	2.89
3384520	Rock	1.07	<0.005	1.1	3.6	2.9	35	<0.1	0.9	3.6	654	2.08	4	1.2	2.8	201	<0.1	<0.1	<0.1	34	1.52
3384521	Drill Core	4.97	0.011	2.1	53.0	15.6	90	0.4	6.7	11.0	830	3.83	25	2.1	5.4	592	0.3	5.5	0.4	121	3.35
3384522	Drill Core	2.50	0.023	4.9	199.2	973.0	2797	28.9	8.5	12.1	1117	3.70	40	2.3	5.1	252	26.1	58.1	1.7	116	3.83
3384523	Drill Core	5.08	0.010	4.5	61.1	30.0	82	0.6	7.4	13.0	458	3.98	15	1.7	4.6	566	0.4	4.4	0.9	123	3.36
3384524	Drill Core	2.02	0.007	7.3	49.5	24.5	84	0.7	7.3	13.2	506	3.99	12	1.9	4.7	614	0.4	2.3	0.7	122	3.38
3384525	Drill Core	2.26	0.014	5.5	20.6	77.8	243	2.4	6.5	12.8	969	3.98	19	2.0	4.9	370	2.0	7.4	1.0	114	3.46
3384526	Drill Core	3.12	0.012	4.8	195.3	159.0	227	1.7	7.4	13.3	590	3.80	11	1.8	4.3	604	1.8	5.6	1.0	118	3.41
3384527	Drill Core	2.56	0.008	3.7	83.6	17.3	54	0.3	6.9	12.9	352	4.02	6	2.0	4.9	620	0.2	0.8	0.8	117	3.31
3384528	Drill Core	3.95	0.007	2.3	136.1	13.2	56	0.3	7.7	13.4	458	3.92	8	1.9	6.4	707	0.1	0.8	0.5	124	3.44
3384529	Drill Core	3.18	0.008	4.7	96.4	17.9	50	0.6	8.4	12.7	340	4.11	11	2.0	5.4	475	0.2	1.9	0.7	124	3.02
3384530	Drill Core	3.49	0.007	2.2	103.4	11.3	60	0.4	7.2	11.6	398	4.05	12	1.9	4.8	599	0.1	2.2	0.5	129	2.85

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Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002152.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384501	Drill Core	0.112	14.7	38	1.66	98	0.435	7.44	2.120	1.46	1.4	4.6	33	0.9	10.9	5.2	0.4	<1	10	30.3	2.1
3384502	Drill Core	0.108	16.2	40	1.58	72	0.372	7.54	1.972	1.86	1.5	4.7	36	1.2	10.9	4.4	0.3	1	10	29.9	2.6
3384503	Drill Core	0.115	15.7	36	1.44	102	0.447	7.42	0.776	2.98	3.9	5.0	36	1.0	12.0	5.9	0.4	1	11	28.2	2.4
3384504	Drill Core	0.082	21.4	20	2.43	67	0.225	6.23	0.408	2.27	3.6	3.7	38	1.2	17.0	2.5	0.2	<1	10	13.0	3.3
3384505	Drill Core	0.114	16.3	38	1.59	98	0.443	7.42	2.369	1.47	1.0	4.6	35	1.0	11.9	5.5	0.4	1	11	27.8	2.0
3384506	Drill Core	0.119	19.4	34	1.68	92	0.438	7.81	2.339	1.54	1.3	4.7	41	1.3	12.5	5.6	0.4	2	11	31.7	1.9
3384507	Drill Core	0.117	11.0	27	1.58	25	0.338	7.10	1.564	2.54	2.5	4.3	27	1.8	9.6	4.0	0.3	1	10	29.1	3.8
3384508	Drill Core	0.128	19.8	35	1.79	169	0.494	7.77	2.550	1.30	0.9	5.6	39	1.3	13.5	6.0	0.4	2	12	27.1	1.1
3384509	Drill Core	0.123	18.0	37	1.78	101	0.451	7.49	2.401	1.40	1.4	4.8	38	1.1	13.4	5.8	0.4	2	11	33.4	1.8
3384510	Drill Core	0.118	16.9	35	1.82	101	0.451	7.56	2.456	1.40	1.6	5.1	38	1.3	13.4	5.6	0.4	1	11	33.0	1.8
3384511	Drill Core	0.128	17.4	37	1.87	73	0.486	7.63	2.660	1.13	1.4	5.3	38	1.2	12.6	6.4	0.4	2	12	35.9	1.9
3384512	Drill Core	0.131	18.0	37	1.74	220	0.486	7.91	2.649	1.45	2.0	5.5	39	1.1	12.5	5.9	0.4	2	12	33.9	1.1
3384513	Drill Core	0.128	16.8	33	1.80	97	0.470	7.60	2.558	1.27	1.7	5.3	37	1.2	12.8	5.8	0.4	2	12	36.4	1.8
3384514	Drill Core	0.121	16.7	33	1.84	162	0.481	7.54	2.552	1.16	1.1	4.6	38	1.3	13.0	6.0	0.4	1	12	32.0	1.5
3384515	Drill Core	0.119	15.4	33	1.68	54	0.445	7.40	2.495	1.39	1.2	4.2	35	1.1	12.2	6.0	0.4	<1	11	29.3	3.4
3384516	Drill Core	0.122	16.5	33	1.74	191	0.481	7.44	2.577	1.49	1.0	4.7	36	1.0	12.6	6.6	0.4	1	11	26.1	1.4
3384517	Drill Core	0.120	14.2	31	1.68	65	0.416	7.22	2.570	1.33	2.0	4.5	30	1.0	8.1	5.3	0.3	2	11	30.4	2.9
3384518	Drill Core	0.110	12.9	23	1.40	45	0.304	7.16	1.524	2.42	1.8	4.0	30	1.8	9.7	3.5	0.2	<1	11	27.8	3.7
3384519	Drill Core	0.106	15.9	27	1.41	66	0.324	7.09	1.420	2.46	1.8	4.0	35	1.7	10.8	4.0	0.3	<1	10	33.9	3.6
3384520	Rock	0.041	12.0	4	0.48	887	0.214	6.71	3.352	1.66	0.3	48.7	26	0.7	16.8	5.1	0.4	1	7	3.6	<0.1
3384521	Drill Core	0.108	17.6	28	1.65	167	0.408	7.48	1.869	1.95	1.0	4.9	38	0.9	12.1	5.5	0.4	1	10	38.5	1.4
3384522	Drill Core	0.103	18.4	29	1.40	147	0.390	7.55	0.080	3.43	3.3	4.4	37	1.1	10.2	4.7	0.3	<1	10	33.4	3.0
3384523	Drill Core	0.109	16.6	32	1.51	51	0.356	7.26	2.038	1.55	1.1	4.1	37	1.1	11.2	4.5	0.3	<1	10	30.9	3.2
3384524	Drill Core	0.110	17.8	32	1.53	82	0.386	7.44	2.486	1.19	1.3	4.3	36	0.9	11.5	4.7	0.3	3	10	32.4	3.1
3384525	Drill Core	0.105	17.2	27	1.32	60	0.358	7.23	0.948	3.13	2.7	3.9	36	1.2	11.4	4.6	0.3	1	10	26.2	4.0
3384526	Drill Core	0.110	17.1	32	1.41	81	0.400	7.04	2.262	1.38	1.4	5.8	38	1.1	11.7	5.2	0.4	2	10	28.9	3.3
3384527	Drill Core	0.111	14.6	29	1.48	51	0.395	7.05	2.324	1.47	0.8	4.2	34	1.1	11.4	5.1	0.3	<1	10	29.0	3.3
3384528	Drill Core	0.118	16.6	29	1.63	107	0.423	7.41	2.561	1.27	1.0	4.6	38	1.1	12.2	5.9	0.3	1	11	29.3	1.9
3384529	Drill Core	0.111	15.6	29	1.56	81	0.349	7.39	2.631	1.64	2.1	5.5	33	1.2	12.1	4.1	0.3	2	10	37.3	2.7
3384530	Drill Core	0.123	17.3	32	1.54	114	0.419	7.52	2.504	1.80	1.7	4.7	40	1.0	12.6	5.3	0.4	1	11	43.5	1.6

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Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002152.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
3384501	Drill Core	39.3	0.3	0.11	<0.005	<1	0.9	1.1
3384502	Drill Core	50.8	0.3	0.09	<0.005	<1	0.9	1.1
3384503	Drill Core	105.4	0.3	<0.05	<0.005	<1	0.6	2.4
3384504	Drill Core	100.3	0.2	<0.05	<0.005	<1	1.7	1.6
3384505	Drill Core	31.5	0.3	0.08	<0.005	2	0.7	0.7
3384506	Drill Core	43.0	0.4	0.09	<0.005	<1	0.9	0.8
3384507	Drill Core	63.3	0.3	0.08	<0.005	<1	0.7	1.1
3384508	Drill Core	37.2	0.4	0.06	<0.005	<1	<0.5	0.6
3384509	Drill Core	35.4	0.3	0.11	<0.005	<1	0.5	0.7
3384510	Drill Core	34.7	0.3	0.05	<0.005	<1	0.7	0.6
3384511	Drill Core	28.8	0.3	0.06	<0.005	<1	0.7	0.6
3384512	Drill Core	38.0	0.3	0.09	<0.005	<1	<0.5	0.6
3384513	Drill Core	31.5	0.3	0.08	<0.005	<1	<0.5	0.7
3384514	Drill Core	24.2	0.3	0.08	<0.005	<1	0.5	0.5
3384515	Drill Core	30.1	0.3	0.07	<0.005	<1	0.8	0.7
3384516	Drill Core	32.7	0.3	0.09	<0.005	<1	<0.5	0.5
3384517	Drill Core	38.5	0.3	0.08	<0.005	<1	0.7	0.8
3384518	Drill Core	60.4	0.3	0.07	<0.005	<1	0.6	0.9
3384519	Drill Core	80.0	0.3	0.08	<0.005	<1	0.6	1.2
3384520	Rock	32.2	1.7	<0.05	<0.005	<1	<0.5	<0.5
3384521	Drill Core	71.3	0.3	0.10	<0.005	<1	0.5	1.2
3384522	Drill Core	150.8	0.2	0.35	<0.005	<1	0.8	2.1
3384523	Drill Core	52.5	0.2	0.08	<0.005	<1	0.5	0.9
3384524	Drill Core	42.2	0.3	0.06	<0.005	<1	0.7	0.6
3384525	Drill Core	124.4	0.3	0.13	<0.005	<1	0.7	1.9
3384526	Drill Core	50.1	0.3	0.18	<0.005	<1	0.7	0.9
3384527	Drill Core	33.8	0.2	0.05	<0.005	<1	0.7	0.7
3384528	Drill Core	28.4	0.3	0.11	<0.005	<1	<0.5	0.5
3384529	Drill Core	62.0	0.2	<0.05	<0.005	<1	<0.5	0.9
3384530	Drill Core	55.0	0.3	0.08	<0.005	<1	<0.5	0.8

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Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002152.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3384531	Drill Core	4.31	0.005	2.0	64.9	11.6	59	0.2	7.0	13.1	493	4.14	8	1.9	5.2	727	0.3	1.0	0.4	130	3.61
3384532	Drill Core	2.60	0.007	25.3	55.2	12.7	57	0.5	7.3	13.2	410	4.17	11	1.8	4.4	595	0.1	1.6	0.8	126	3.29
3384533	Drill Core	5.16	0.008	1.7	71.1	19.7	66	0.2	7.2	11.8	523	3.98	8	1.7	4.9	734	0.1	0.8	0.5	126	3.61
3384534	Drill Core	4.93	0.008	10.5	86.4	18.8	73	0.7	6.7	13.7	536	4.23	11	2.1	5.2	659	0.2	1.7	0.6	123	2.64

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CERTIFICATE OF ANALYSIS VAN19002152.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3384531	Drill Core	0.120	17.9	32	1.65	100	0.459	7.53	2.612	1.41	0.9	4.7	40	1.1	13.8	6.3	0.4	2	12	32.1	1.6
3384532	Drill Core	0.113	15.0	30	1.50	59	0.379	7.26	2.554	1.70	1.7	4.4	35	1.1	12.5	4.8	0.4	2	11	41.3	2.8
3384533	Drill Core	0.124	15.9	31	1.61	130	0.428	7.22	2.468	1.25	1.0	4.6	37	1.0	12.6	5.8	0.4	2	10	32.3	1.7
3384534	Drill Core	0.107	16.3	30	1.53	61	0.388	7.17	2.517	1.54	1.6	4.0	37	1.0	10.8	5.1	0.4	1	10	35.8	2.4

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Project: Berg
Report Date: August 29, 2019

CERTIFICATE OF ANALYSIS VAN19002152.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3384531	Drill Core	29.7	0.3	0.06	<0.005	<1	<0.5	<0.5
3384532	Drill Core	45.3	0.3	<0.05	0.007	1	0.5	0.8
3384533	Drill Core	22.9	0.3	0.07	<0.005	<1	0.6	<0.5
3384534	Drill Core	40.8	0.2	0.06	<0.005	<1	0.5	0.7

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Project: Berg
Report Date: August 29, 2019

QUALITY CONTROL REPORT VAN19002152.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3384529	Drill Core	3.18	0.008	4.7	96.4	17.9	50	0.6	8.4	12.7	340	4.11	11	2.0	5.4	475	0.2	1.9	0.7	124	3.02
REP 3384529	QC			4.5	97.0	18.3	52	0.5	9.3	13.1	345	4.14	11	2.0	4.9	475	0.2	2.1	0.8	121	3.15
Core Reject Duplicates																					
3384530	Drill Core	3.49	0.007	2.2	103.4	11.3	60	0.4	7.2	11.6	398	4.05	12	1.9	4.8	599	0.1	2.2	0.5	129	2.85
DUP 3384530	QC		0.006	2.8	99.6	11.9	64	0.4	7.3	12.2	416	4.18	13	2.2	6.0	637	0.3	2.3	0.4	130	2.98
Reference Materials																					
STD OREAS25A-4A	Standard			2.0	33.1	22.5	43	<0.1	45.7	7.3	490	6.33	10	2.5	14.9	45	<0.1	0.5	0.3	158	0.28
STD OREAS25A-4A	Standard			2.2	34.0	22.9	39	<0.1	44.3	7.3	473	6.27	11	2.7	14.8	46	<0.1	0.6	0.3	155	0.28
STD OREAS45H	Standard			1.5	786.0	11.9	40	0.1	441.1	87.2	426	19.71	17	1.7	7.9	29	<0.1	0.6	0.3	272	0.14
STD OREAS45E	Standard			2.3	800.1	17.2	42	0.3	471.3	59.3	560	24.04	20	2.4	12.9	17	<0.1	1.0	0.3	321	0.06
STD OXC145	Standard		0.205																		
STD OXC152	Standard		0.219																		
STD OXH139	Standard		1.278																		
STD OXH139	Standard		1.336																		
STD OXH139	Standard		1.343																		
STD OXN134	Standard		7.683																		
STD OXN134	Standard		7.760																		
STD OXN134	Standard		7.668																		
STD OXC145 Expected			0.212																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXC152 Expected			0.216																		
STD OXH139 Expected			1.312																		
STD OXN134 Expected			7.667																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

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Project: Berg

Report Date: August 29, 2019

QUALITY CONTROL REPORT VAN19002152.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3384529	Drill Core	0.111	15.6	29	1.56	81	0.349	7.39	2.631	1.64	2.1	5.5	33	1.2	12.1	4.1	0.3	2	10	37.3	2.7
REP 3384529	QC	0.113	15.6	32	1.57	71	0.348	7.30	2.622	1.71	2.1	5.5	34	1.2	11.6	4.1	0.3	<1	10	39.3	2.8
Core Reject Duplicates																					
3384530	Drill Core	0.123	17.3	32	1.54	114	0.419	7.52	2.504	1.80	1.7	4.7	40	1.0	12.6	5.3	0.4	1	11	43.5	1.6
DUP 3384530	QC	0.128	20.5	31	1.57	117	0.446	7.80	2.531	1.97	1.9	4.8	46	1.2	13.5	5.7	0.4	<1	12	43.2	1.6
Reference Materials																					
STD OREAS25A-4A	Standard	0.045	19.6	116	0.32	137	0.877	8.93	0.124	0.44	1.7	134.1	44	3.7	9.9	18.1	1.2	<1	12	34.6	<0.1
STD OREAS25A-4A	Standard	0.048	21.4	117	0.34	147	0.857	8.92	0.137	0.46	1.6	134.0	45	3.8	9.7	17.6	1.2	1	11	41.4	<0.1
STD OREAS45H	Standard	0.024	13.6	646	0.28	337	0.843	8.34	0.098	0.20	0.8	113.5	25	1.7	10.3	12.9	0.9	<1	58	13.9	<0.1
STD OREAS45E	Standard	0.036	11.1	1125	0.17	257	0.524	7.00	0.063	0.32	1.0	84.9	23	1.2	8.0	5.8	0.5	<1	93	7.2	<0.1
STD OXC145	Standard																				
STD OXC152	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXC145 Expected																					
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXC152 Expected																					
STD OXH139 Expected																					
STD OXN134 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	4	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Equity Exploration Consultants Ltd.**
#1510 - 250 Howe St.
Vancouver British Columbia V6C 3R8 Canada

Project: Berg
Report Date: August 29, 2019

QUALITY CONTROL REPORT VAN19002152.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3384529	Drill Core	62.0	0.2	<0.05	<0.005	<1	<0.5	0.9
REP 3384529	QC	63.8	0.2	<0.05	<0.005	<1	<0.5	0.9
Core Reject Duplicates								
3384530	Drill Core	55.0	0.3	0.08	<0.005	<1	<0.5	0.8
DUP 3384530	QC	61.6	0.3	0.08	<0.005	<1	0.5	0.9
Reference Materials								
STD OREAS25A-4A	Standard	53.9	4.0	0.07	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	55.1	3.7	0.08	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	21.8	3.1	0.16	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	20.7	2.5	0.11	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC152	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXN134	Standard							
STD OXN134	Standard							
STD OXN134	Standard							
STD OXC145 Expected								
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXC152 Expected								
STD OXH139 Expected								
STD OXN134 Expected								
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5

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		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		0.007																		
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	1.1	2.6	2.7	34	<0.1	1.4	3.5	603	1.94	3	1.3	2.8	200	<0.1	0.1	<0.1	32	1.44
ROCK-VAN	Prep Blank		<0.005	1.2	2.3	2.8	33	<0.1	0.9	3.8	615	2.04	3	1.4	3.2	216	<0.1	0.2	<0.1	34	1.47

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.039	12.4	6	0.46	810	0.208	6.49	3.452	1.50	0.2	45.3	24	0.6	15.7	5.1	0.4	<1	6	2.8	<0.1
ROCK-VAN	Prep Blank	0.039	12.9	7	0.48	895	0.212	6.81	3.594	1.58	0.3	49.8	26	0.6	17.7	5.5	0.4	1	6	3.2	<0.1

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QUALITY CONTROL REPORT VAN19002152.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	30.2	1.7	<0.05	<0.005	1	<0.5	<0.5
ROCK-VAN	Prep Blank	32.1	1.8	<0.05	<0.005	<1	<0.5	<0.5

Appendix G: Assay

Quality Control/Quality Assurance

Appendix G: Quality Control /

Quality Assurance

QUALITY CONTROL / QUALITY ASSURANCE

I Chain of Custody

All samples were packed in rice sacks and sealed with uniquely numbered non-resealable security straps. Rice sacks were delivered to Smithers and forwarded from there to Bureau Veritas laboratory facilities in in Vancouver. Bureau Veritas reported that all bags were received in good condition, with all security straps intact, and with no evidence of tampering.

II Blanks

Blanks are samples which are known to be barren of mineralization and are inserted into the sample stream in the field to determine whether contamination has occurred after sample collection. For the Berg Project, blank material consisted of coarse-crystalline granite and granodiorite composed of 60-70% potassium feldspar, 10% quartz, and 20% mafic minerals (primarily hornblende will lesser biotite). Accessory magnetite is present, but no sulphides are typically observed (Xu et al., 2014). Average abundances of elements of interest are presented in Table G1 below for a 15-sample population analyzed by method ME-ICP41 by ALS Laboratories.

Table G1: Average abundances of elements of interest in the Cox Station Quarry Granite (n=15). Methods 1: Au-AA23, 2: ME-ICP41

	Au	Ag	As	Bi	Cd	Co	Cu	Fe	Hg	Mo	Ni	Pb	S	Sb	Zn
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Method	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AVG	<DL (0.005)	0.1	1.8	1	0.25	3.067	3.8	1.808	0.567	1	0.867	2.4	0.033	1.13	34.73
S.D	N/A	N/A	0.56	N/A	N/A	0.258	1.01	0.144	0.01	N/A	0.3994	3.00	0.013	0.516	3.06

Review of analytical results indicates that most blank samples in the core sample stream returned uniformly low values in elements of interest, including below detection limit for Au (0.005 ppm), Ag (0.1 ppm) and S (0.1%). Blanks did return 0.9 to 1.5 ppm Mo with a mean of 1.1 and a standard deviation of 0.2, which is consistent with known concentrations of ~1 ppm Mo in the Cox Station granitoid. Cu in the Berg blanks is consistently higher than reported in the 15-sample test, with a mean of 5.32 and a standard deviation of 1.06. This may be due to a difference in sample digestion technique between the two labs and does not have a significant effect on the results of this program.

III Field Duplicate Analysis

Field duplicates are collection and analysis of two separate samples from the same field location or core interval. They are used to measure the reproducibility of sampling, which includes both laboratory variation and sample variation. There is a strong correlation between the original field samples and the duplicates, indicating that the sample material is uniform, and the collection and preparation methods used on the Berg Program did not bias the samples (Figure G1).

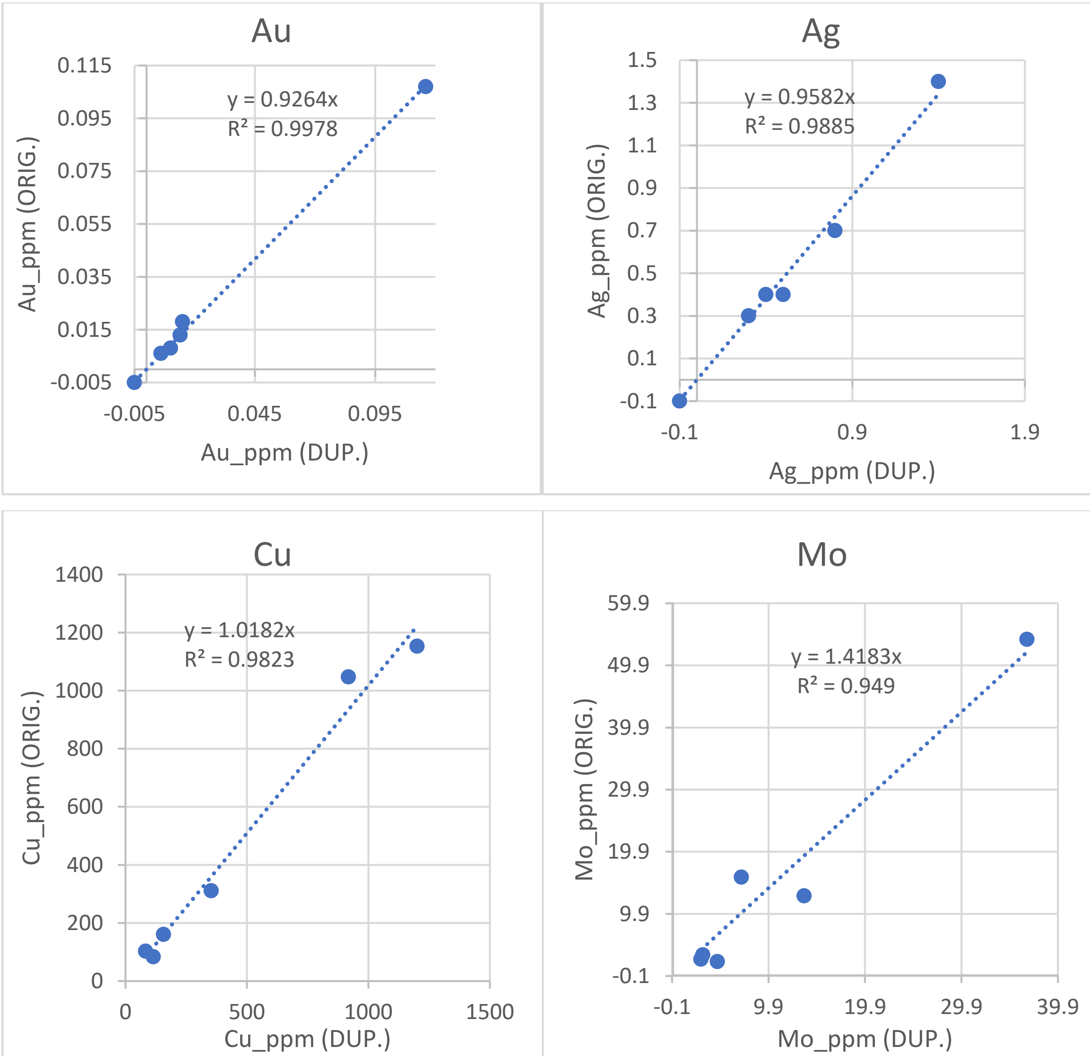


Figure G1: Plots of field duplicate sample vs. original sample for Au, Ag, Cu, and Mo.

IV Lab Duplicate Analysis

Lab duplicates are separate analyses of two portions of a prepared sample. They are used to measure the reproducibility of laboratory analyses. Bureau Veritas conducts duplicate analyses of random samples at varying frequencies depending on the particular sample preparation code.

The results of this duplicate analysis (

Figure G2) on pulps and coarse rejects shows that there is good homogenization of samples and high analytical precision for Ag, Cu, and Mo. Au shows a relatively lower correlation between lab duplicates versus base metals but is still a strong correlation. This lower R-value for Au likely reflects the natural small-scale variability of gold in the host rocks and its resistance to homogenization by comminution.

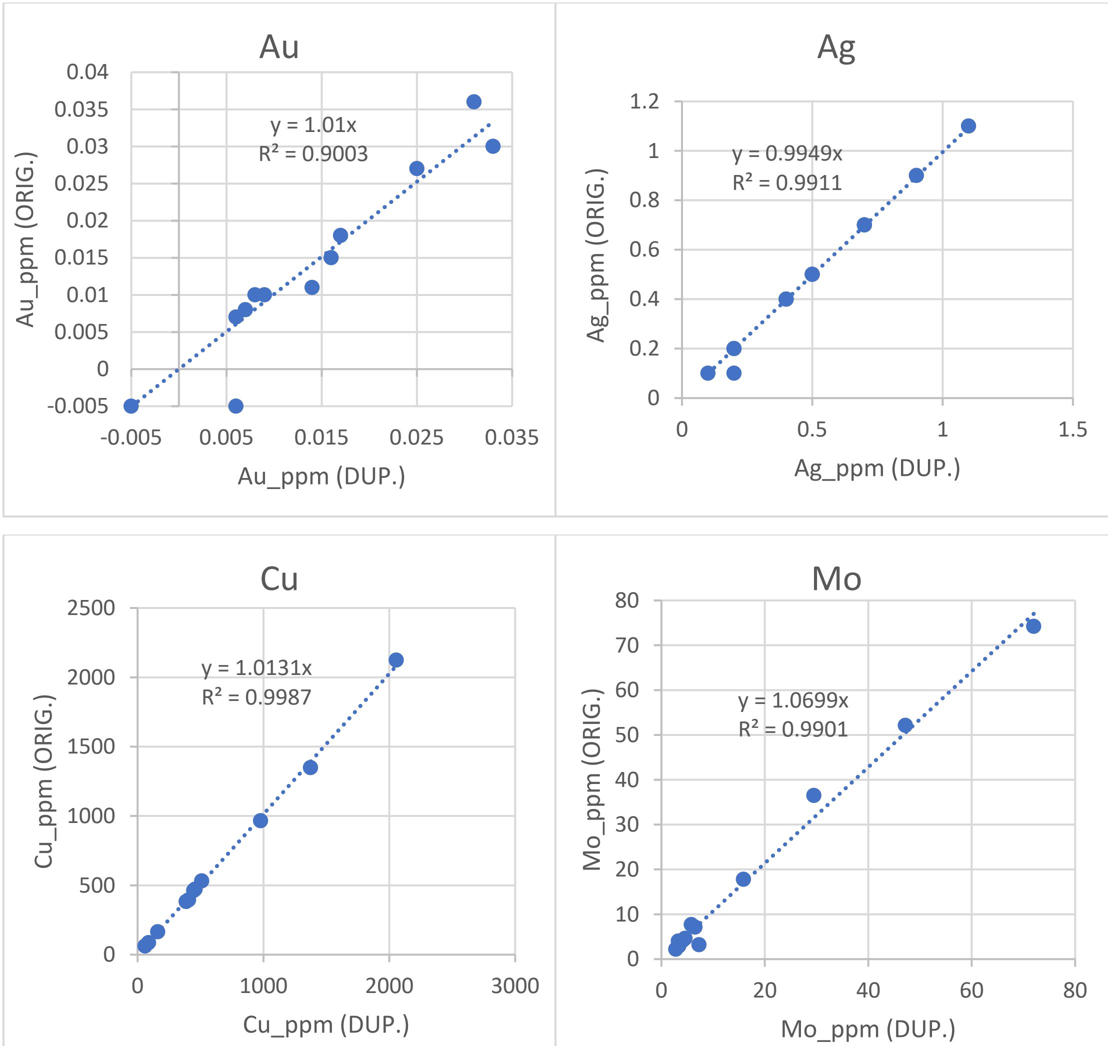


Figure G2: Plots of lab duplicate sample vs. original for Au, Ag, Cu, and Mo.

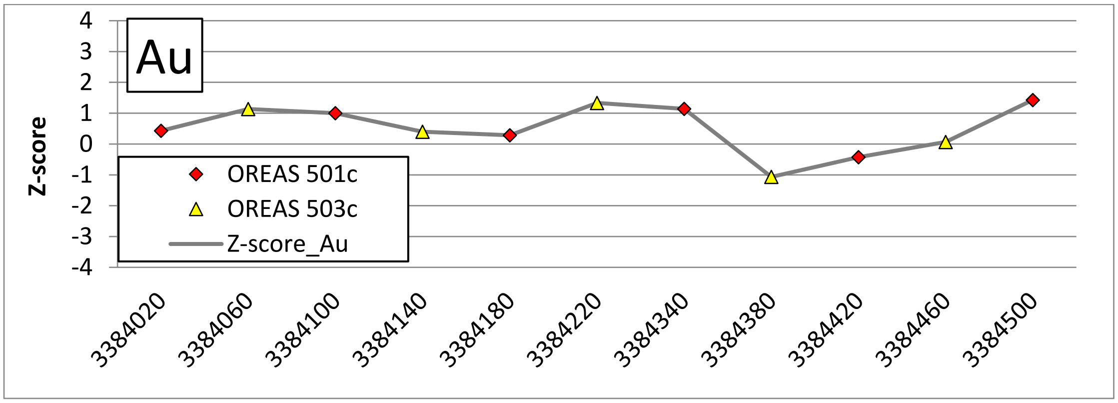
IV Standards

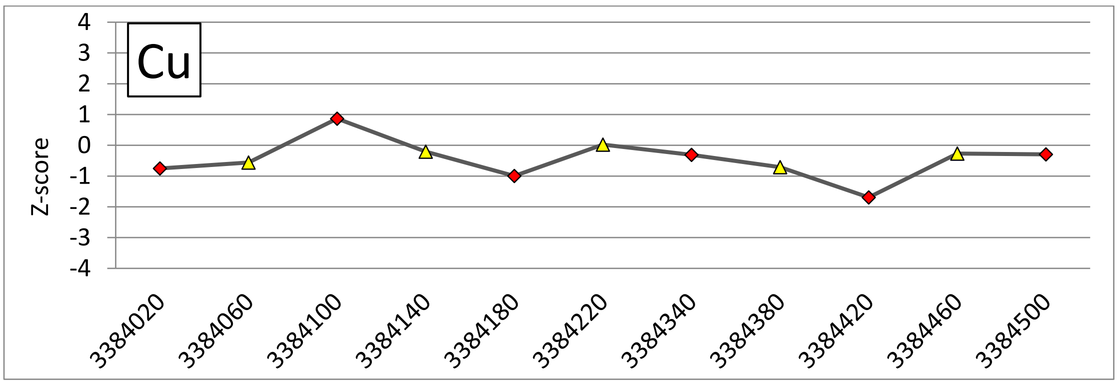
Standard reference materials (SRM) are inserted into the sample stream to gauge the accuracy of the lab's analyses. Two SRM's were used for the 2019 work; OREAS 501c and OREAS 503c. The means and standard deviations established during round robin standard certification are used for calculating warning and control limits.

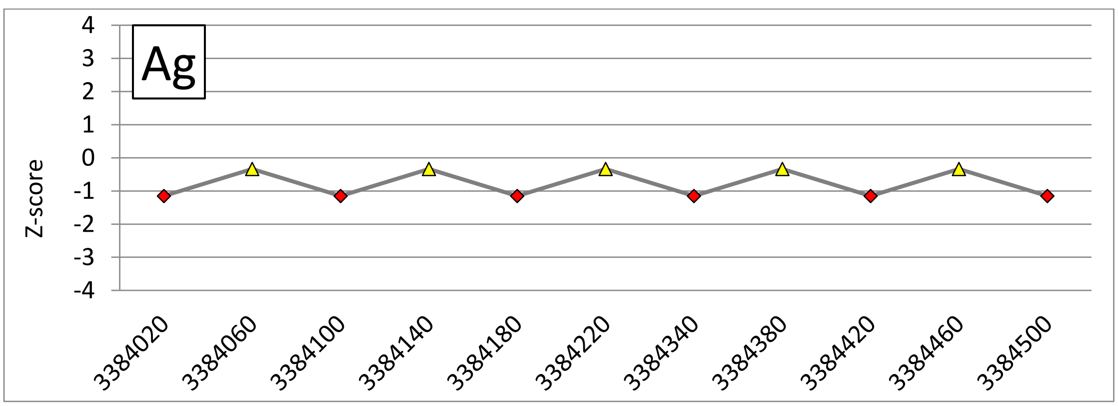
Warning limits are set at the mean ±2 standard deviations (σ) and control limits are set at ±3σ. Any single SRM beyond the upper and lower control limits is deemed a failure and consecutive standards on the same certificate exceeding the warning limits are also deemed failures.

Shewhart charts that plot concentration versus sample sequence are shown as Figure G3 below. By plotting the Z-score, multiple SRM's can be displayed for each element; the Z-score levels the mean and standard deviation for each SRM so that warning limits are indicated by a Z-score of ±2 and control limits are indicated by a Z-score of ±3.

One SRM analysis warnings occurred during the 2019 Berg Program. Sample ID 3384420 triggered a warning limit for Mo with a Z-score of less than -2. This could possibly be due to an incomplete digestion of the sample, with Cu returning a Z-score between -1 and 02.







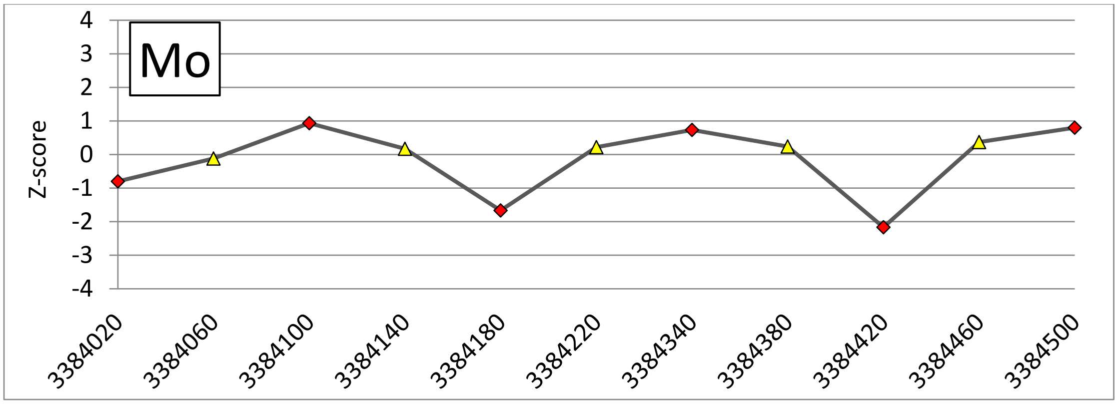


Figure G3: Z-score analysis for Au, Cu, Ag and Mo in SRMs submitted as part of the Berg Program

V Conclusions

- There is no evidence of tampering with the samples between collection and the laboratory.
- Consistently low values for all metals of interest in all blank analyses indicate that contamination of drill core samples did not occur either in the field or the lab.
- All but one SRM analyses were accurate to within 2σ of their certified values. Sample 3384420 returned a Z-score of ≤-2 for Mo and Cu returning a Z-score between -1 and -2. This potentially indicates an incomplete digestion of the pulp.
- Field duplicates and pulp duplicates do not show bias between the original and the duplicate. They also show good correlation between the original and duplicate samples, indicating well homogenized samples and high analytical precision.

Appendix H: Geochronology

UBC MDRU Mineral Deposit Research Unit

MDRU GEOCHRONOLOGY REPORT

To: Daniel Lui, Equity Exploration
From: Robert G. Lee and Craig J.R. Hart
Date: January 2020
Subject: U-Pb geochronology results from Equity-Centerra Gold drill core samples

---

Summary

- Zircon U-Pb dating (LA-ICP-MS) for five samples from the Berg Property drill core pulp samples (**3384101; 3384169; 3384214; 3384225; 3384387**).
- Results for four of the five samples yielded ages of **~79 Ma**.
- Sample **3384387 quartz diorite** yielded an age of **53 Ma**.
- Deliverables
    - o Age report [Equity_MDRU Geochron_Final Report.pdf]
    - o U-Th-Pb geochronology tables [excel file - Equity_MDRU Geochron_data tables.xls]
    - o Zircon grain images (cathodoluminescence) [Equity_MDRU Geochron_Zircon Images.pdf]

Introduction

The Berg Property located in west-central British Columbia is a copper-molybdenum-silver deposit currently under evaluation by Centerra Gold. Recent drilling on the project has been conducted to determine the commercial viability of the project. Five new U-Pb geochronology ages are presented herein from drill core pulps collected during the exploration program to determine the age relationship for the lithologies present within the target area. The age dating was conducted at the University of British Columbia Pacific Centre for Isotopic and Geochemical Research (PCIGR) laser ablation laboratory under the supervision of the Mineral Deposit Research Unit (MDRU).

Samples

Pulp samples from five drill core pulps were processed for heavy mineral zircon separation and analyses by the conventional U-Pb dating technique (Table 1). Sample 3384101 is a tonalite with 70% subhedral to euhedral plagioclase associated with anhedral interstitial quartz, fine-grained crystal clusters of secondary biotite+magnetite after hornblende, and K-feldspar. Sample 3384169 is a granodiorite with subhedral phenocrysts of plagioclase, and embayed phenocrysts of quartz are immersed within a groundmass of plagioclase with lesser biotite and quartz. Sample 3384214 is an altered granitoid with intensely potassically flooded zone of megacrystic plagioclase-quartz-phyric granodiorite and lesser zones of strong to intense sericite alteration. Sample 3384225 is a plagioclase-phyric dioritic rock with strong secondary K-feldspar alteration. Sample 3384387 is an intensely white mica-pyrite altered quartz diorite.
Zircon crystals from each sample were collected and analyzed using the Laser Ablation-ICP-MS technique. For the full analytical method, see Appendix A. Weighted mean **^{207}Pb-corrected ^{206}Pb/^{238}U ages** for each sample are reported below, along with spot age Concordia plots. In most cases, age plots show individual

grain ages (core or rim), with error bars used to calculate the weighted mean. Error bars shown in black are included in weighted mean age calculation; bars shown in light gray are excluded from the calculation.

Table 1. Sample descriptions and age for Berg Property geochronology samples

Sample ID	Lithology	Rock description	Easting (UTM)	Northing (UTM)	Elevation (M)	Age (Ma)
3384101	Tonalite	70% subhedral to euhedral plagioclase associated with anhedral interstitial quartz, fine-grained crystals/crystal clusters of secondary biotite+magnetite after hornblende, and K-feldspar	613686	5962216	1730	79.62±0.81
3384169	Granodiorite	subhedral phenocrysts of plagioclase and embayed phenocrysts of quartz are immersed within a groundmass of plagioclase with lesser biotite and quartz	613686	5962216	1730	78.61±0.67
3384214	Altered Granitoid	Intensely potassically flooded zone of megacrystic plagioclase-quartz-phyric granodiorite, lesser zones of strong to intense sericite/white mica alteration	613686	5962216	1730	79.76±0.43
3384225	K-feldspar-altered dioritic rock	plagioclase-phyric rock strongly overprinted by secondary K-feldspar	613686	5962216	1730	78.53±0.82
3384387	Quartz Diorite	Intensely white mica-pyrite altered quartz diorite	602686	5957057	1695	52.75±0.97

Zircon Morphology

Locations of laser spots and cathodoluminescence images of the analysed zircons are presented in the additional attached document. Zircon crystals from the drill pulp samples ranged in size from 100 to 200 μm and were light pink to rose in colour. The crystals are euhedral to sub-euhedral with a few of the grains equant. All grains displayed concentric oscillatory growth zoning typically observed in magmatic zircon and clear older cores or late hydrothermal overprints were not observed in the zircon images or revealed by the laser ablation analyses. Two analytical spots were collected on each grain where possible. Spots that were not used for age determination due to inclusions or discordance are marked on the attached image file.

Results

U-Pb zircon results for the samples are summarized in Table 1 and briefly discussed below.

Sample 3384101

Twenty zircons were analyzed with thirty analytical spots that ranged from 75.0 ± 2.1 to 84.9 ± 5.1 Ma. A weighted mean $^{206}Pb/^{238}U$ age for the sample gives an age of 79.62 ± 0.81 (MSWD of 1.6) based on 29 spot analyses (Fig. 1). The younger age of 75.0 ± 2.1 fell outside of the statistical age determination and was not used in the age calculation. See the 3384101_U-Pb data in the attached Excel datasheet for full analytical results for the sample.

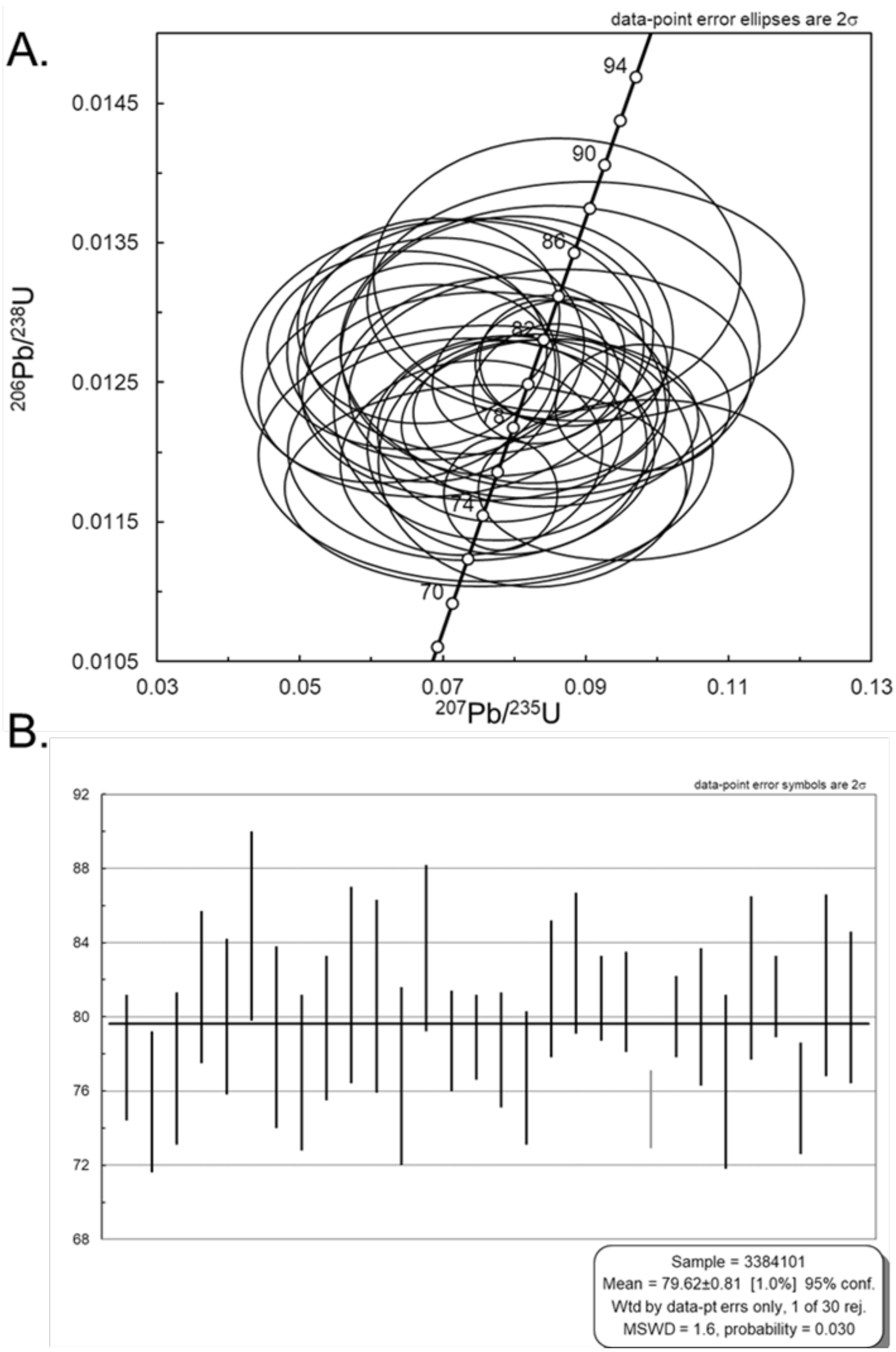


Figure 1. A. Concordia plot and B. weighted mean average plot of sample 3384101. Lighter shaded line in weighted mean average indicates value outside of statistical calculation and is not used in the calculation of U-Pb age.

Sample 3384169

Eighteen zircons were analyzed with thirty-one analytical spots that ranged from 74.5 ± 1.9 to 82.3 ± 2.6 Ma. A weighted mean $^{206}Pb/^{238}U$ age for the sample gives an age of 78.61 ± 0.67 (MSWD of 2.3) based on 30 spot analyses (Fig. 2). The younger age of 74.5 ± 1.9 fell outside of the statistical age determination and was not used in the age calculation. See the 3384169_U-Pb data in the attached Excel datasheet for full analytical results for the sample.

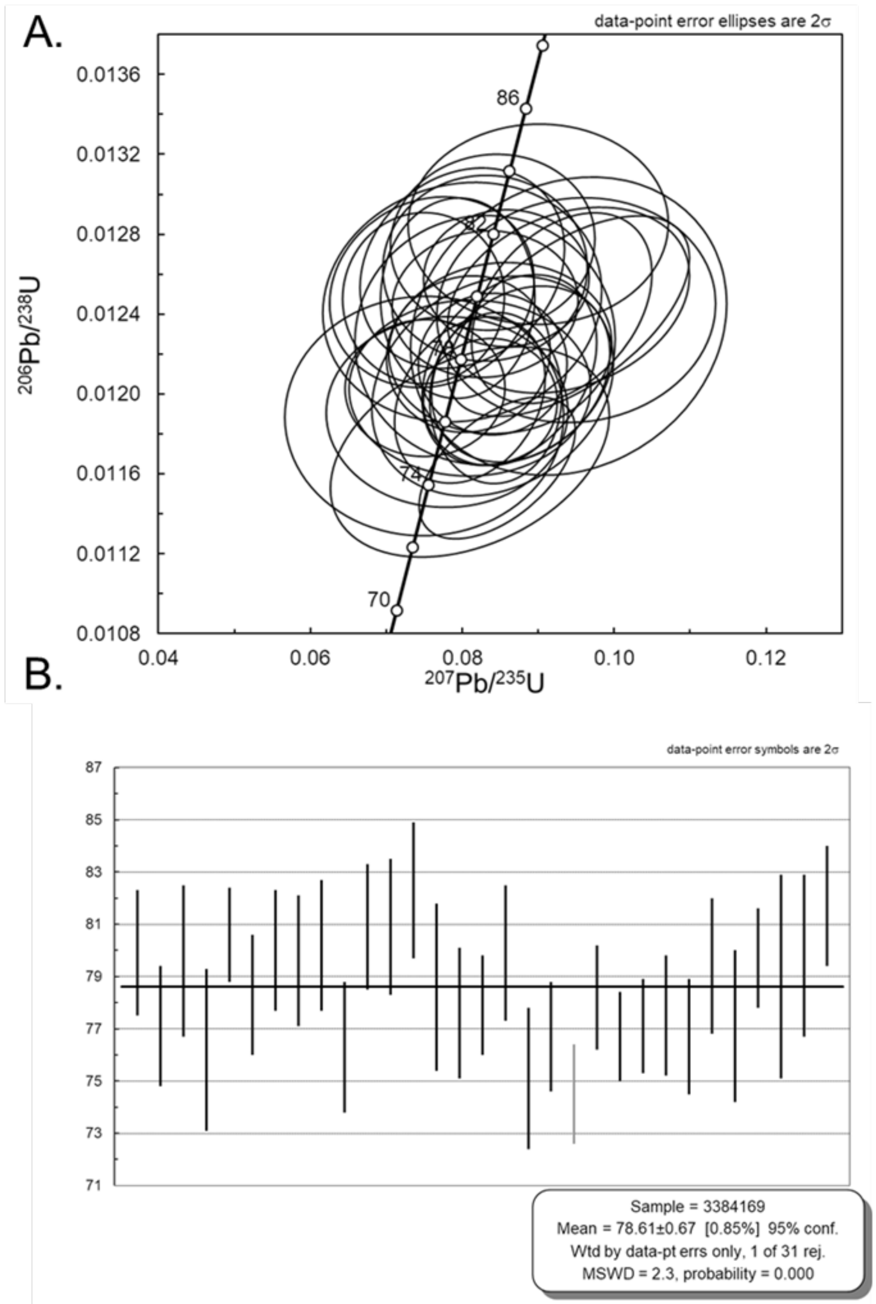


Figure 2. A. Concordia plot and B. weighted mean average plot of sample 3384169. Lighter shaded line in weighted mean average indicates value outside of statistical calculation and is not used in the calculation of U-Pb age.

Sample 3384214

Eighteen zircons were analyzed with thirty-two analytical spots that ranged from 77.0 ± 1.8 to 87.8 ± 3.1 Ma. The majority of the ages ranged from 77 to 83 Ma with the 87.8 Ma age representing an antycrystic core age (MDRU19-33-8_5C) with a younger 79 Ma rim age (MDRU19-33-8_5R). A weighted mean $^{206}Pb/^{238}U$ age for the sample gives an age of 79.76 ± 0.43 (MSWD of 1.2) based on 30 spot analyses (Fig. 3). The younger age of 77.0 ± 1.8 fell outside of the statistical age determination and was not used in the age calculation along with the older antycrystic age. See the 3384214_U-Pb data in the attached Excel datasheet for full analytical results for the sample.

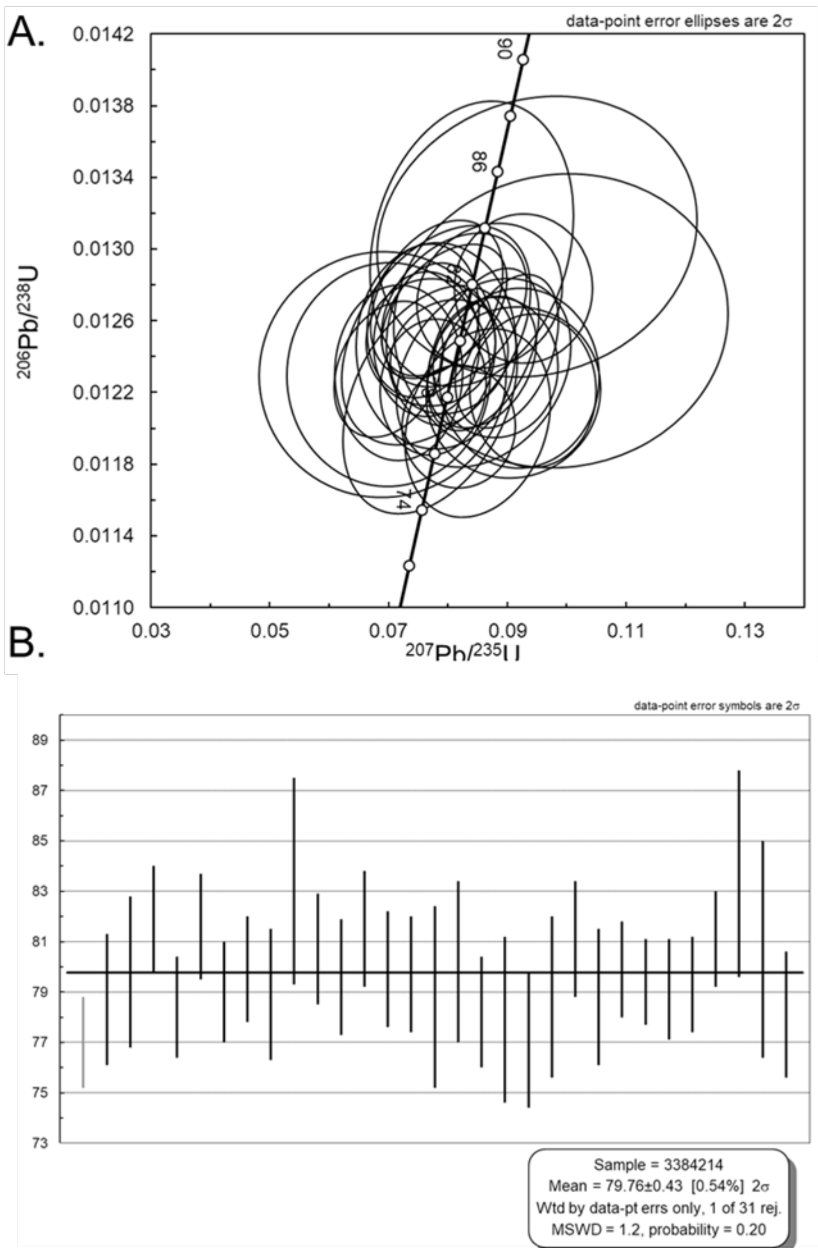


Figure 3. A. Concordia plot and B. weighted mean average plot of sample 3384214. Lighter shaded line in weighted mean average indicates value outside of statistical calculation and is not used in the calculation of U-Pb age.

Sample 3384225

Fifteen zircons were analyzed with twenty-two analytical spots that ranged from 72.4.0 ± 4.1 to 84.7 ± 3.6 Ma. A weighted mean $^{206}Pb/^{238}U$ age for the sample gives an age of 78.53 ± 0.82 (MSWD of 1.4) based on 20 spot analyses (Fig. 4). Both the youngest age of 72.4 ± 4.1 and the oldest age of 84.7 ± 3.6 fell outside of the statistical age determination and were not used in the age calculation. See the 3384225_U-Pb data in the attached Excel datasheet for full analytical results for the sample.

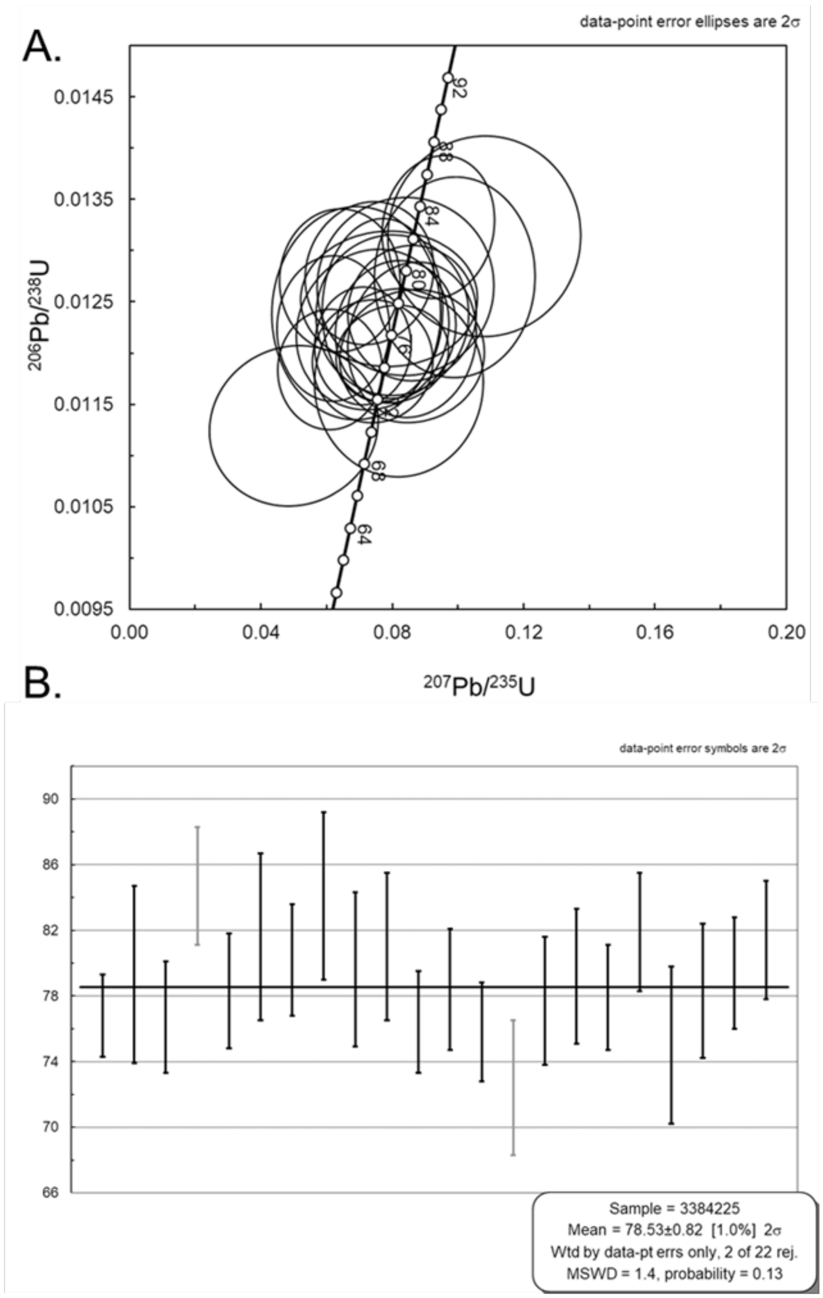


Figure 4. A. Concordia plot and B. weighted mean average plot of sample 3384225. Lighter shaded line in weighted mean average indicates value outside of statistical calculation and is not used in the calculation of U-Pb age.

Sample 3384387

Eleven zircons were analyzed with twelve analytical spots that ranged from 50.2 ± 3.0 to 60.0 ± 5.7 Ma. The majority of the zircon grains were smaller than 75 μm and only one spot was obtained on these grains. The majority of the ages ranged from 50-57 Ma, with the older 60 Ma occurring in the core of the one larger grain (MDRU19-34-1-13C). This older core age is attributed as an antycrystic age for the sample. A weighted mean $^{206}Pb/^{238}U$ age for the sample gives an age of 52.75 ± 0.97 (MSWD of 1.6) based on 11 spot analyses (Fig. 5). See the 3384387_U-Pb data in the attached Excel datasheet for full analytical results for the sample.

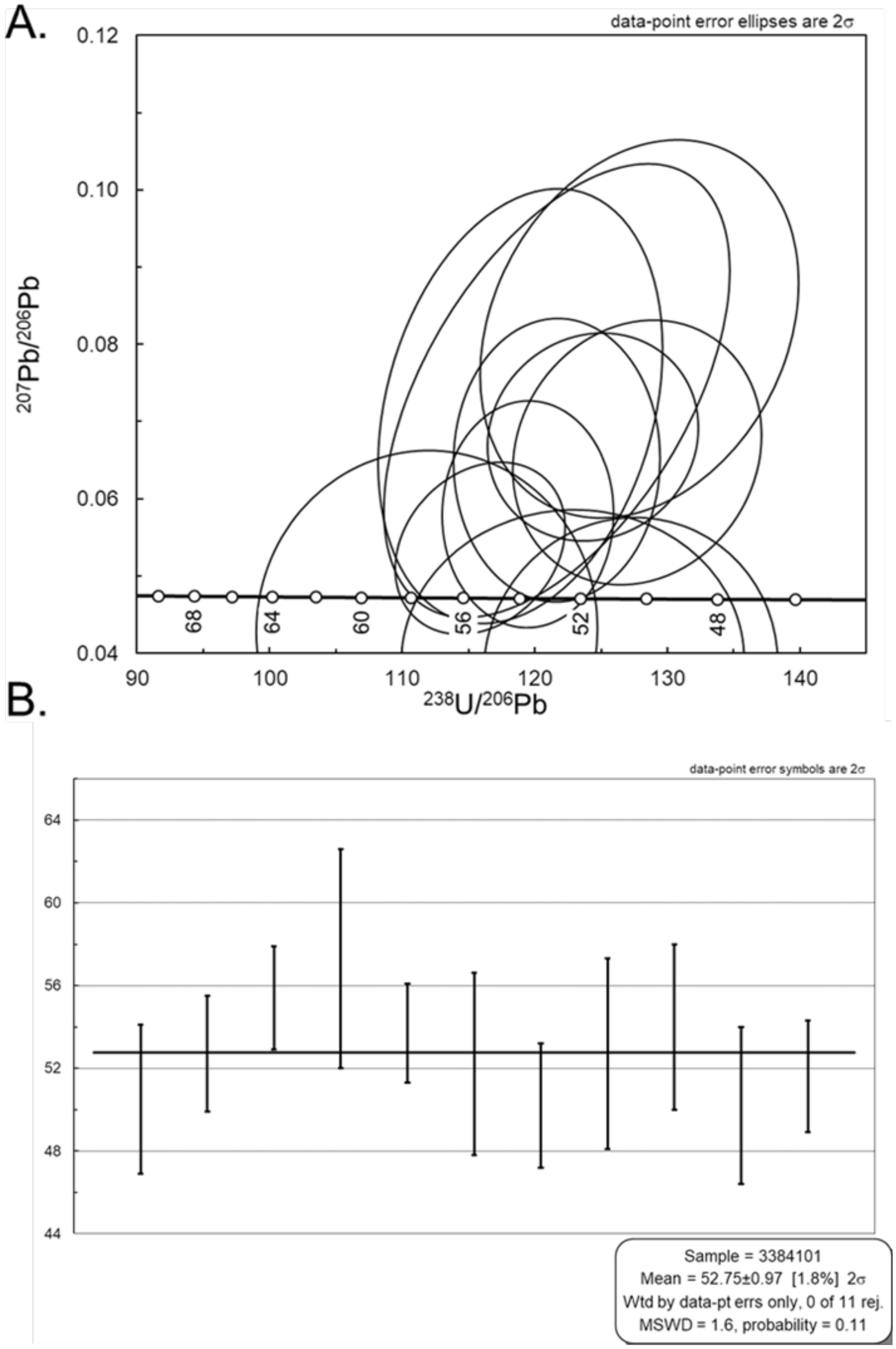


Figure 5. A. Terra-Wasserberg Concordia plot and B. weighted mean average plot of sample 3384387.

Discussion

Samples 3384101 to 3384225 have Cretaceous ages that overlap in error indicating they are part of the same intrusive suite. The overlap in error makes it difficult to resolve the timing of emplacement between the four samples, although the cross-cutting relationship can distinguish the true age between the samples. Alternatively, more precise dating techniques such as CA-TIMS on one or two of the samples could resolve the age between these samples. Sample 3384387 formed from a separate Eocene intrusion, and the high-intensity alteration and sulfide veining present in the sample suggests that mineralization is syn- to post-Eocene in age. Despite the high intensity of alteration in the samples, the zircon petrography suggests that the grains are robust and the ages are coherent for the rocks.

Summary

1. U-Pb dating from the five Berg Property samples yielded two age populations of **79 Ma and 53 Ma**.
2. The similar resulting ages suggest the drill core from the older samples represents a single event or coeval intrusions that were emplaced at **~79 Ma**.
3. The high intensity of alteration and veining observed in sample **3384387** suggests that mineralization occurred at or immediately post **52.75 ± 0.97**

Appendix A

Analytical Techniques

Heavy mineral separation

The pulps were split and passed along a Wilfley table to separate the remaining heavy minerals from any light fraction material. Further separation of the heavy separates was conducted using heavy liquid methylene iodide and a magnetic Frantz separator. Approximately **twenty zircon grains** were picked from each sample and mounted in epoxy pucks and polished using a Buehler Minimet polisher. Reflected and transmitted light photos were taken of each grain, both prior to, and post-laser analysis using a high-powered binocular microscope at 20x to 50x to identify any internal melt and mineral inclusions as well as any grain defects. Cathodoluminescence imaging was conducted using a Philips XL-30 scanning electron microscope (SEM) at the University of British Columbia Electron Microbeam & X-Ray Diffraction Facility using 3 nA beam current and 20 kV accelerating voltage.

Laser ablation inductively-coupled plasma mass spectrometer analyses

All zircon trace element compositions were analyzed using a **RESOlution M-50LR laser** attached to an **Agilent 7700 Series quadrupole inductively coupled plasma mass spectrometer (ICP-MS)** at PCIGR. An ablation spot size of **34 µm** was used for all grains with core and rim analysis of the zircon collected wherever possible. Isotope masses analysed included: ^{202}Hg, ^{204}Pb, **^{206}Pb**, **^{207}Pb,** **^{208}Pb**, ^{232}Th, **^{235}U,** and **^{238}U**. During the analytical run, eight to ten unknown analyses were bracketed by zircon standards: 91500 (Wiedenbeck et al. 2004), Plešovice (Sláma et al. 2008), and Temora (Black et al. 2003).

All time-resolved data were reduced using the Iolite software. Age calculations were conducted using Plešovice as the reference standard and cross-checked with 91500 and Temora zircon standards. Results from the standard calculation were within 5% threshold of accepted values.

References

Black, L.P., Kamo, S.L., Allen, C.M., Aleinikoff, J.N., Davis, D.W., Korsch, R.J. and Foudoulis, C., 2003, TEMORA 1: a new zircon standard for Phanerozoic U–Pb geochronology, Chemical Geology. V. 200, Issues 1–2, p. 155-170.

Sláma, J., Košler, J., Condon, D.J., Crowley, J.L., Gerdes, A., Hanchar, J.M., Horstwood, M.S.A., Morris, G.A., Nasdala, L., Norberg, Schaltegger, U., Schoene, B., Tubrett, M.N. and Whitehouse, M.J., 2008, Plešovice zircon — A new natural reference material for U–Pb and Hf isotopic microanalysis, Chemical Geology, v. 249, p. 1–35.

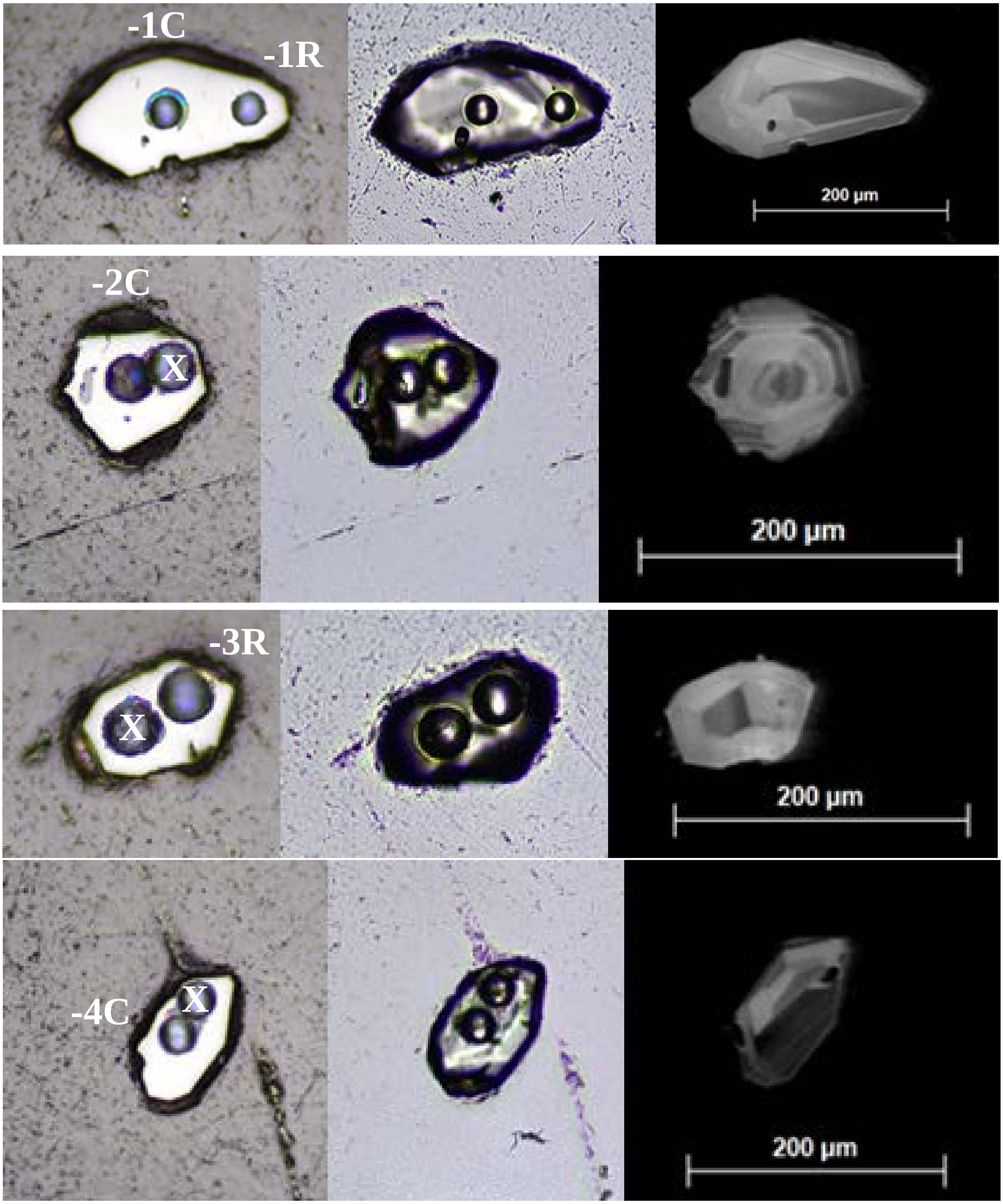
Wiedenbeck, M., Hanchar, J.M., Peck, W.H., Sylvester, P., Valley, J., Whitehouse, M., Kronz, A., Morishita, Y., Nasdala, L., Fiebig, J. and Franchi, I., 2004, Further characterisation of the 91500 zircon crystal, Geostandards and Geoanalytical Research, v. 28, p. 9-39.

Equity Zircon Image File
Berg Project

Zircon grain images (reflected light, transmitted light, cathodoluminescence) – spots noted by sample ID
X – denotes unused spot for age interpretation

Sample ID	Lithology	Rock description	Age (Ma)
3384101	Tonalite	70% subhedral to euhedral plagioclase associated with anhedral interstitial quartz, fine-grained crystals/crystal clusters of secondary biotite+magnetite after hornblende, and K-feldspar	79.62±0.81
3384169	Granodiorite	subhedral phenocrysts of plagioclase and embayed phenocrysts of quartz are immersed within a groundmass of plagioclase with lesser biotite and quartz	78.61±0.67
3384214	Altered Granitoid	Intensely potassically flooded zone of megacrystic plagioclase-quartz-phyric granodiorite, lesser zones of strong to intense sericite/white mica alteration	79.76±0.43
3384225	K-feldspar-altered dioritic rock	plagioclase-phyric rock strongly overprinted by secondary K-feldspar	78.53±0.82
3384387	Quartz Diorite	Intensely white mica-pyrite altered quartz diorite	52.75±0.97

3384101 – MDRU19-33-10



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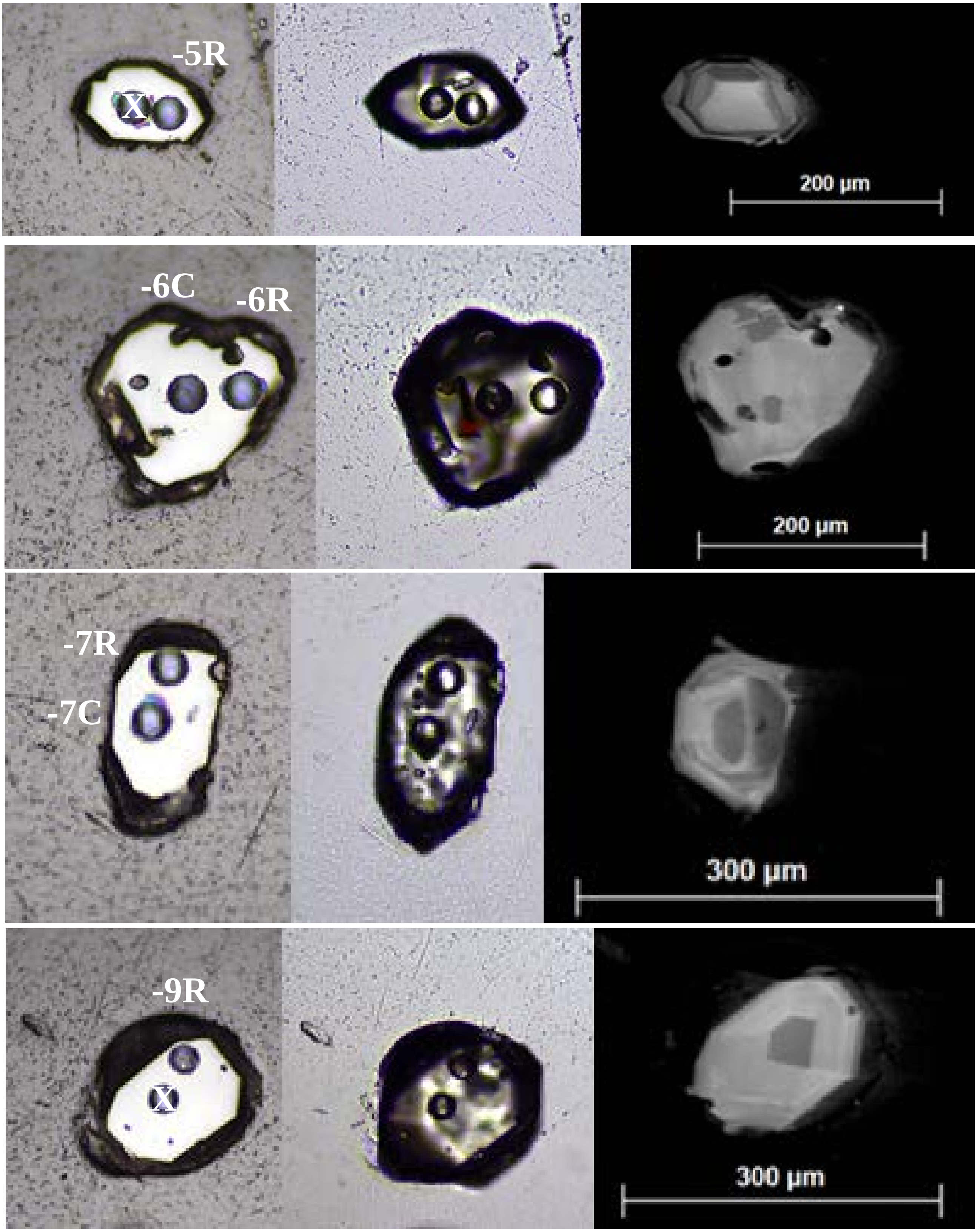

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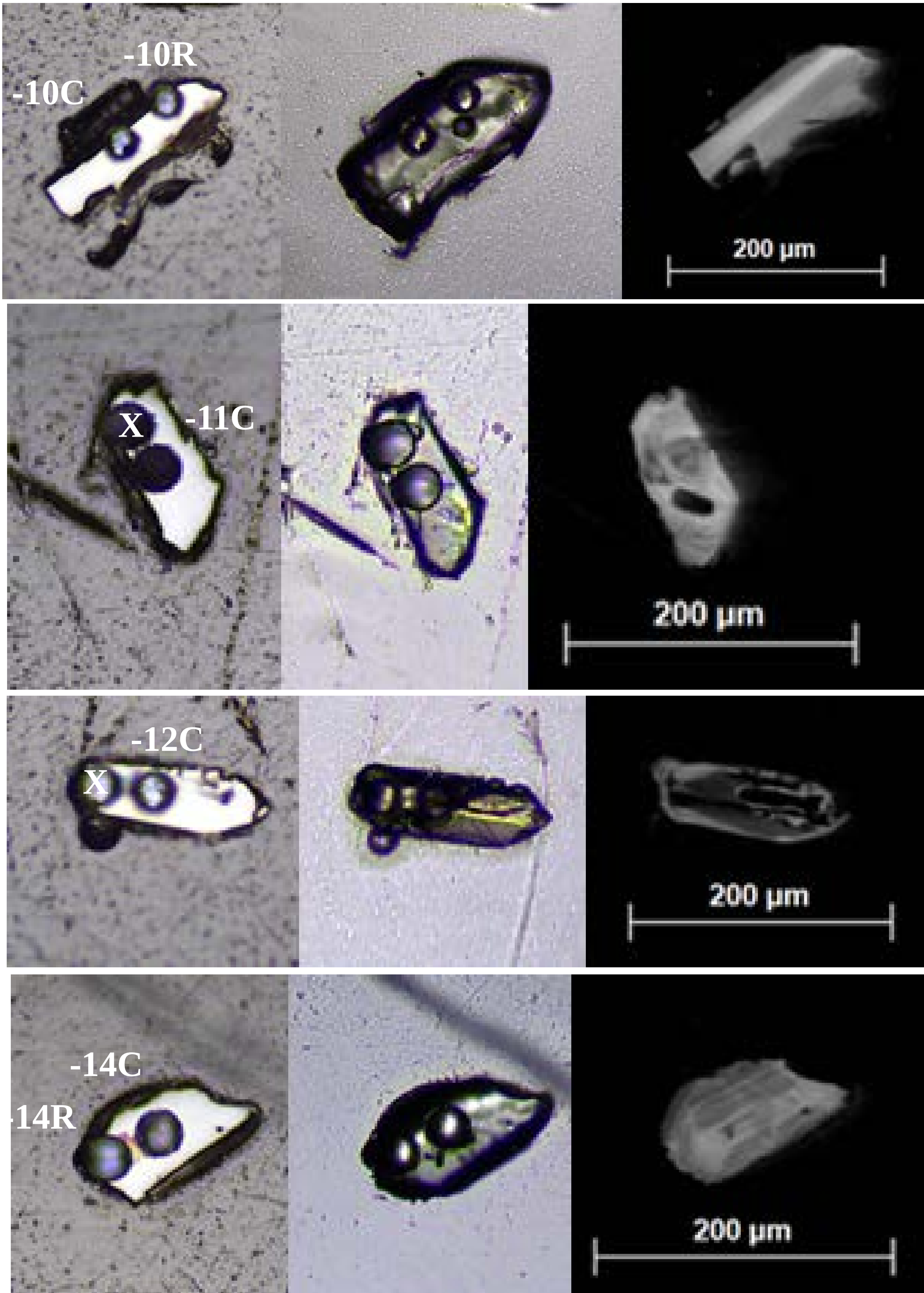

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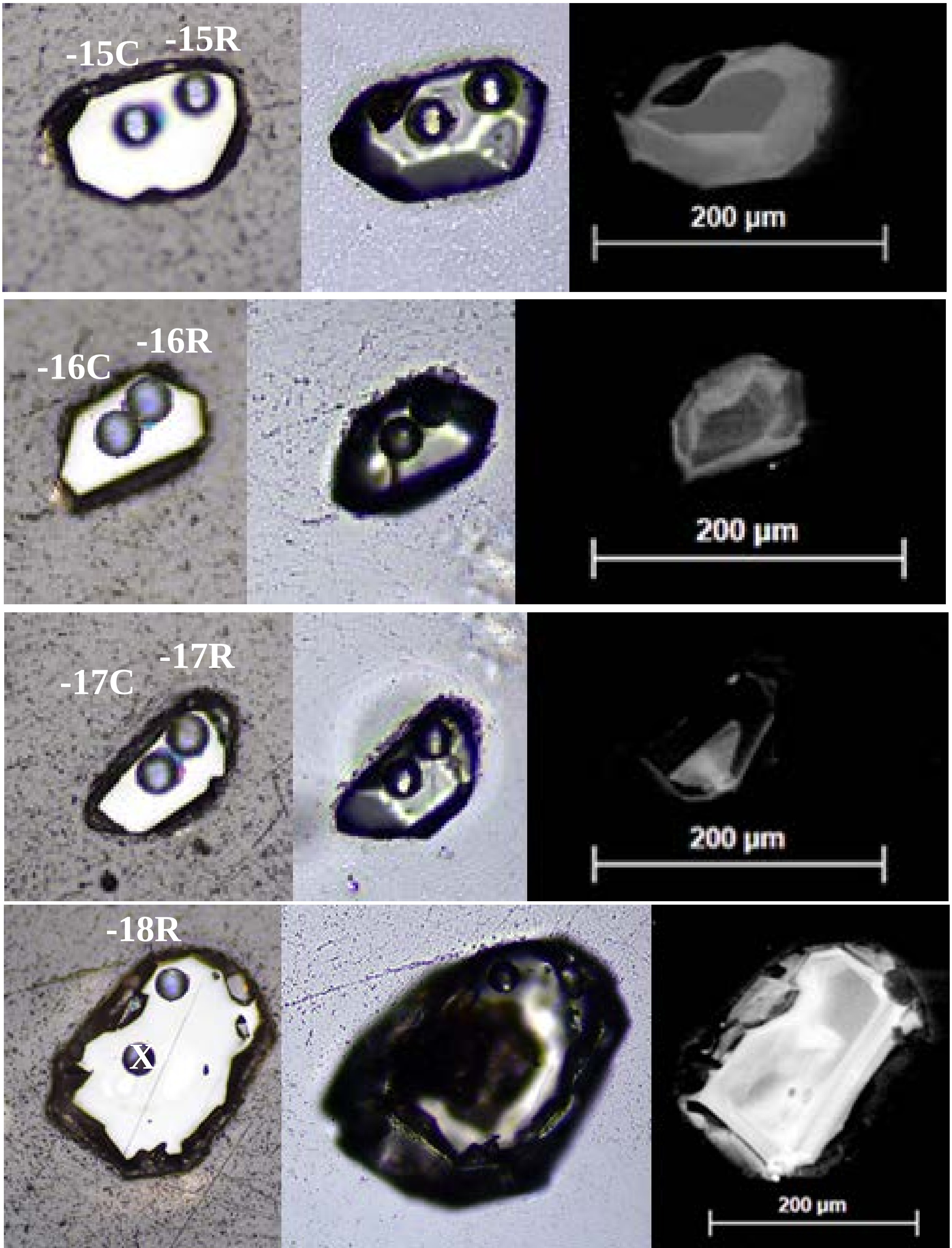

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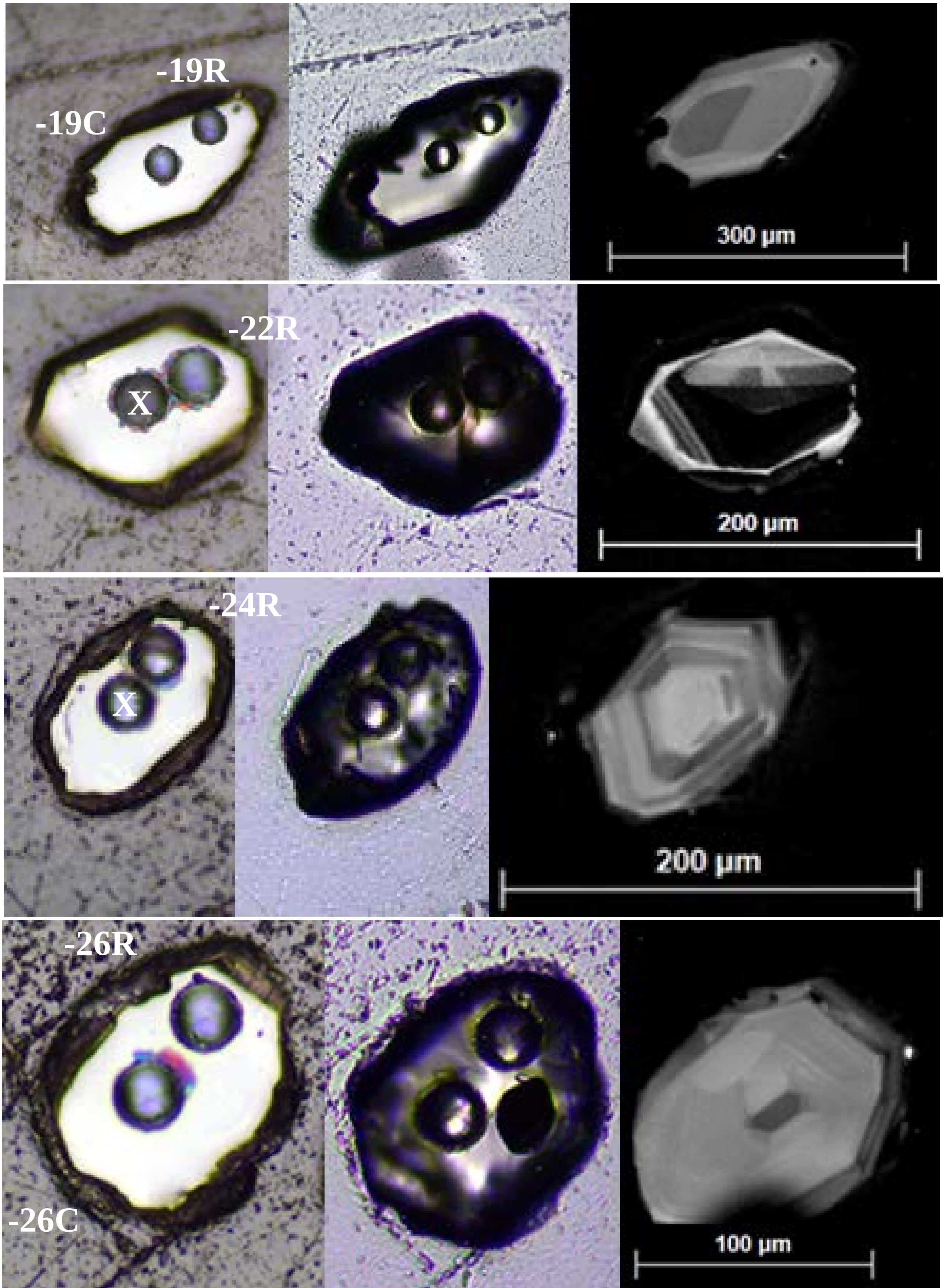

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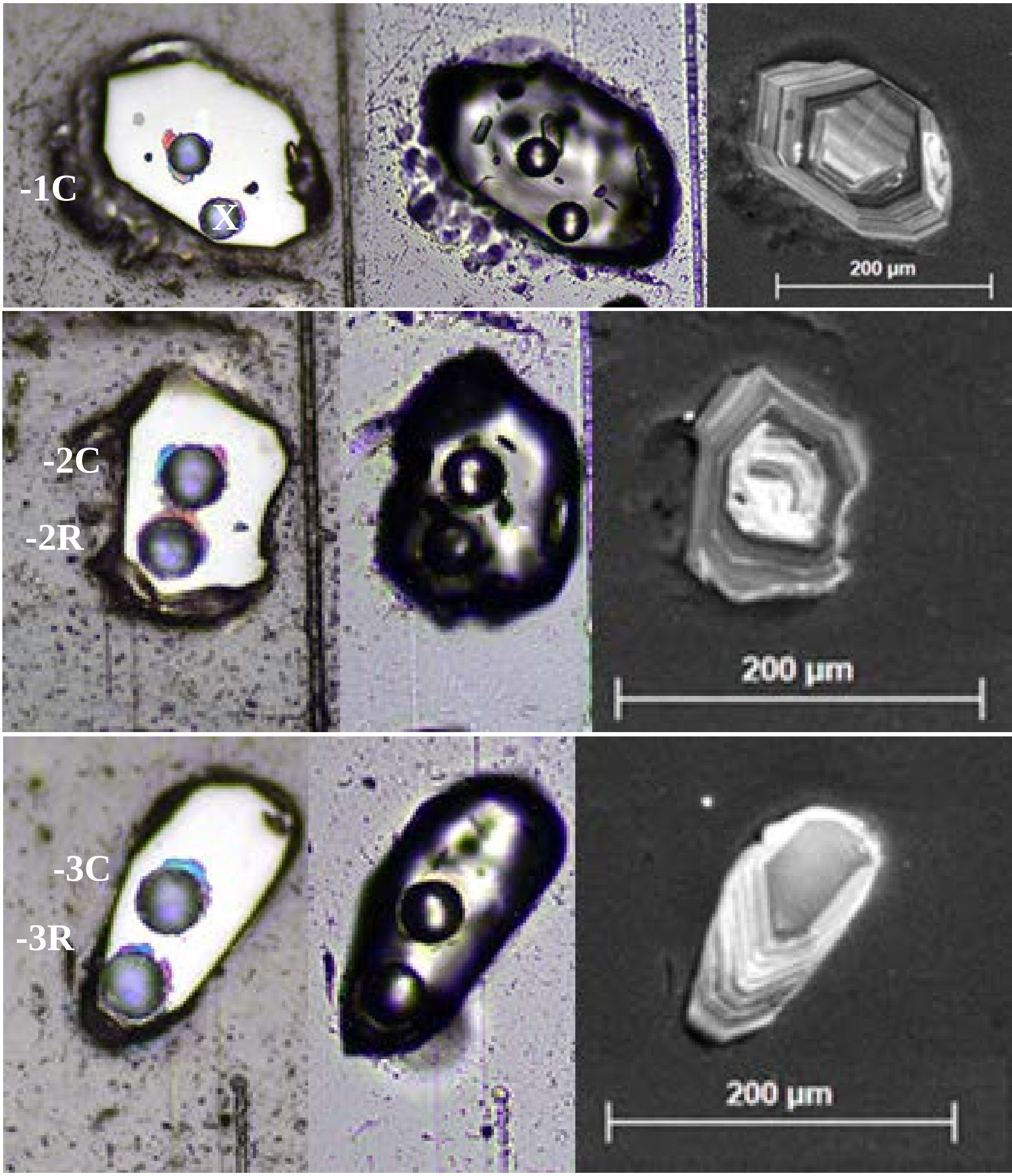

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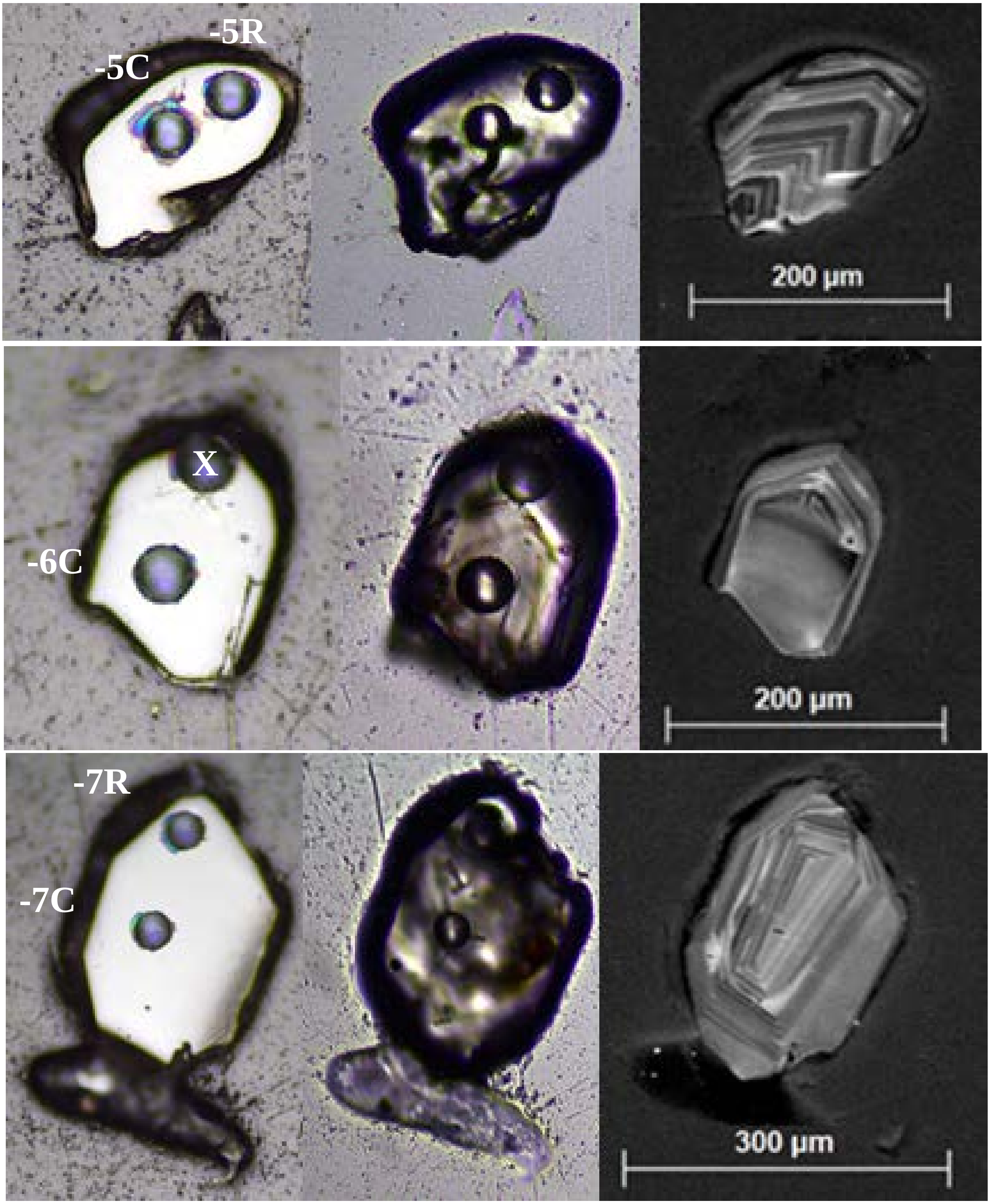

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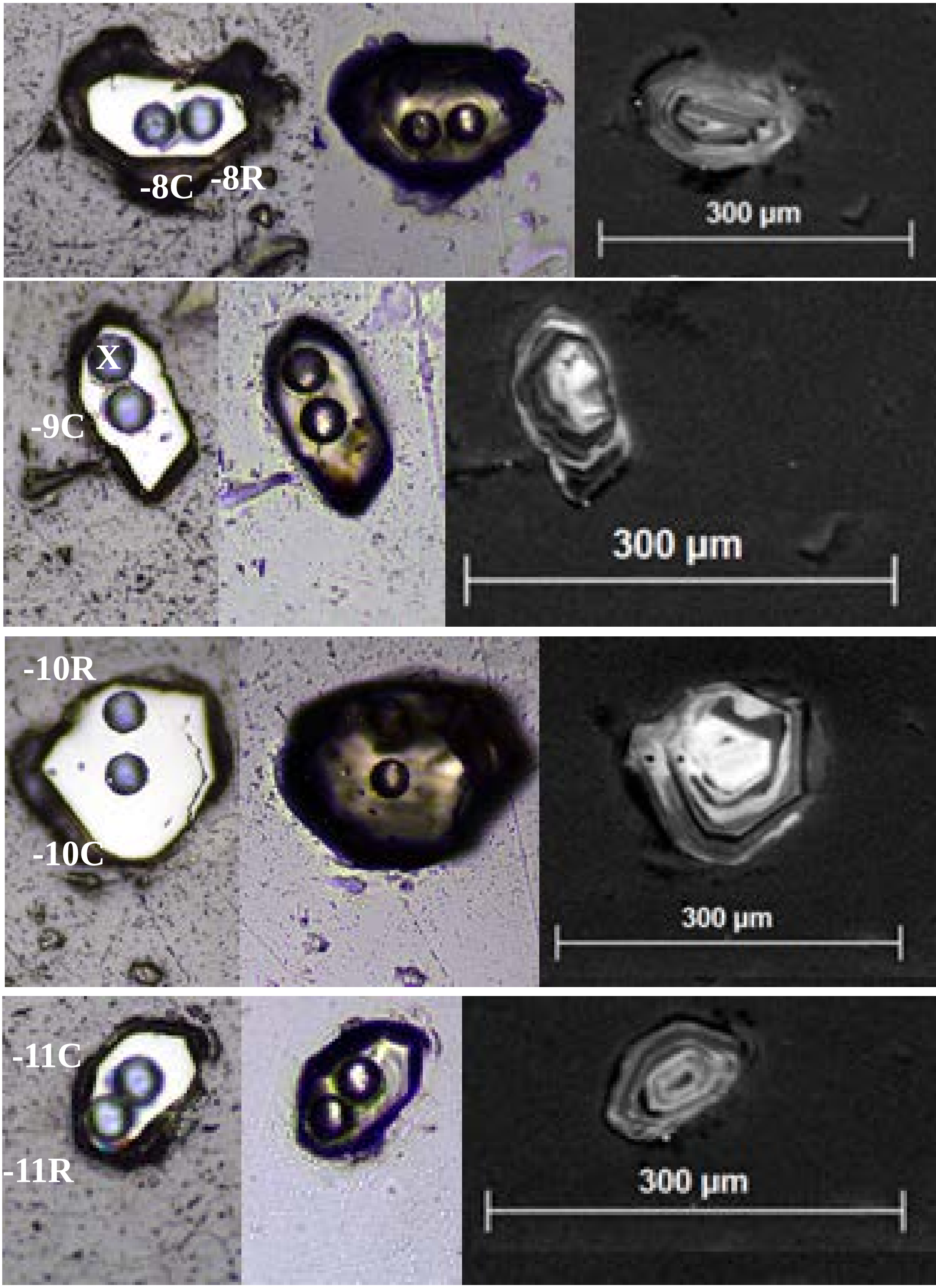

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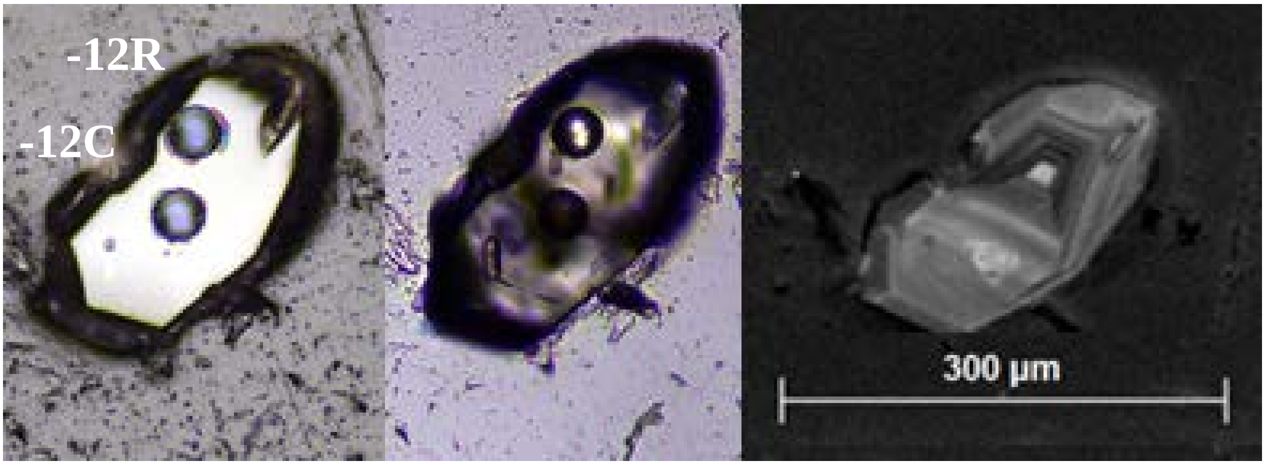

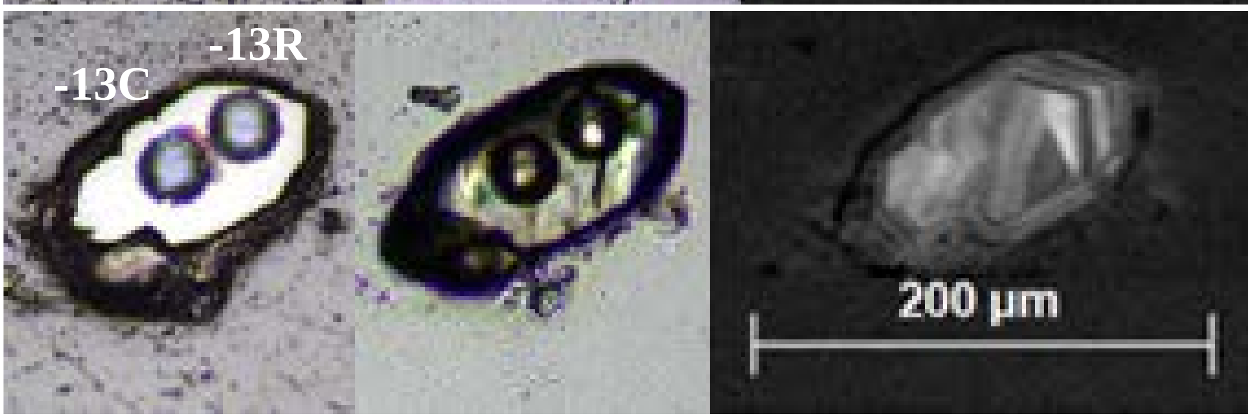

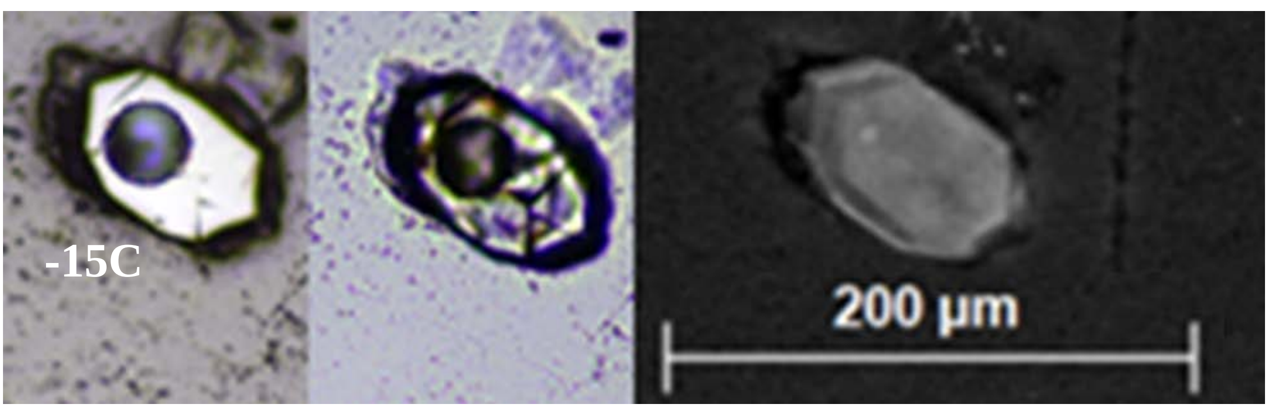

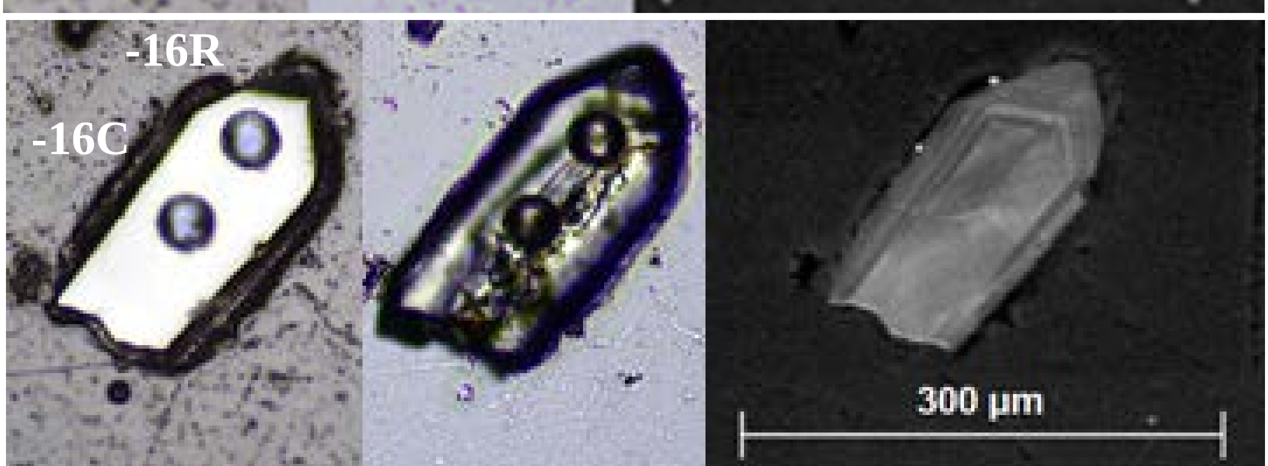

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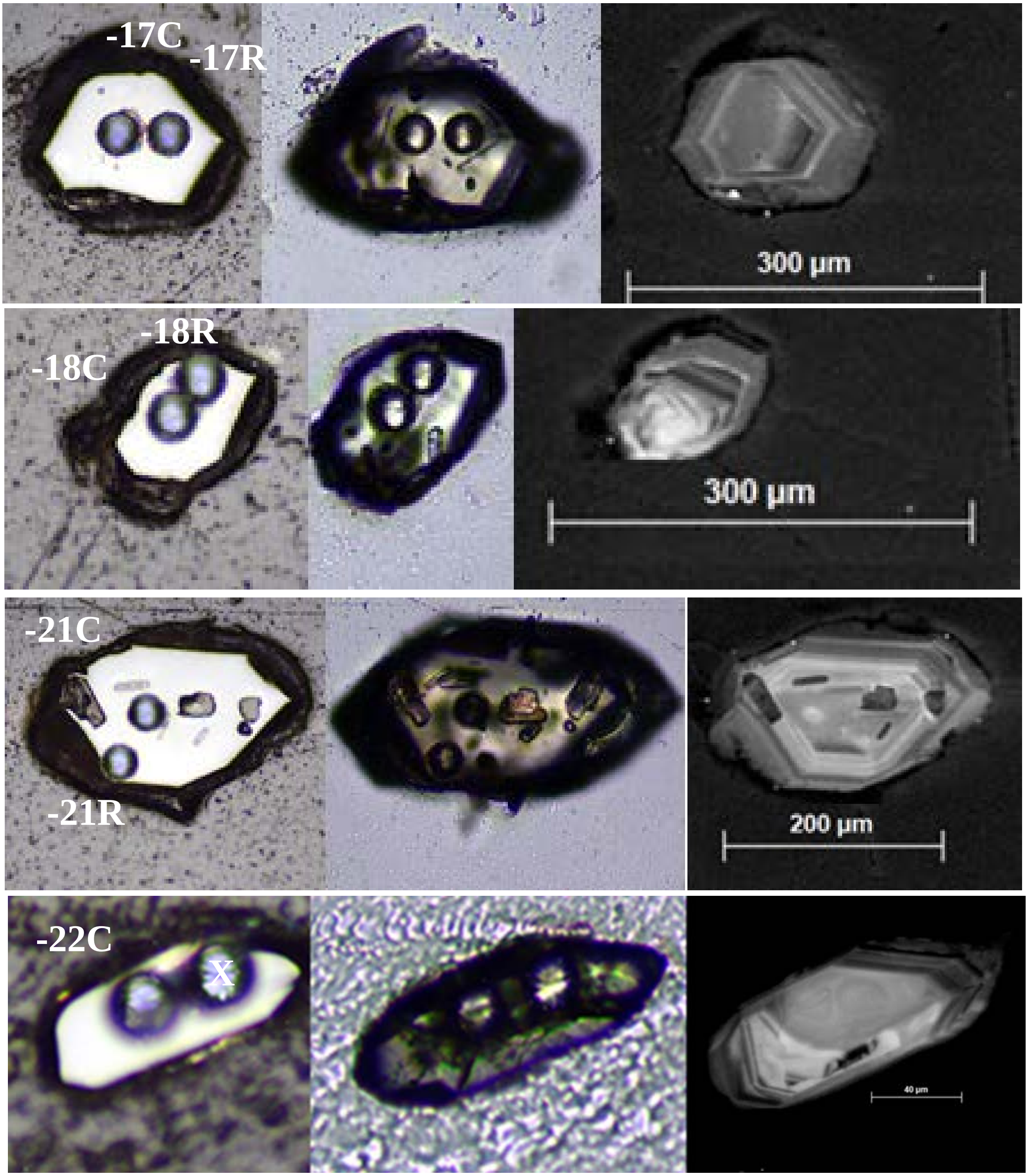

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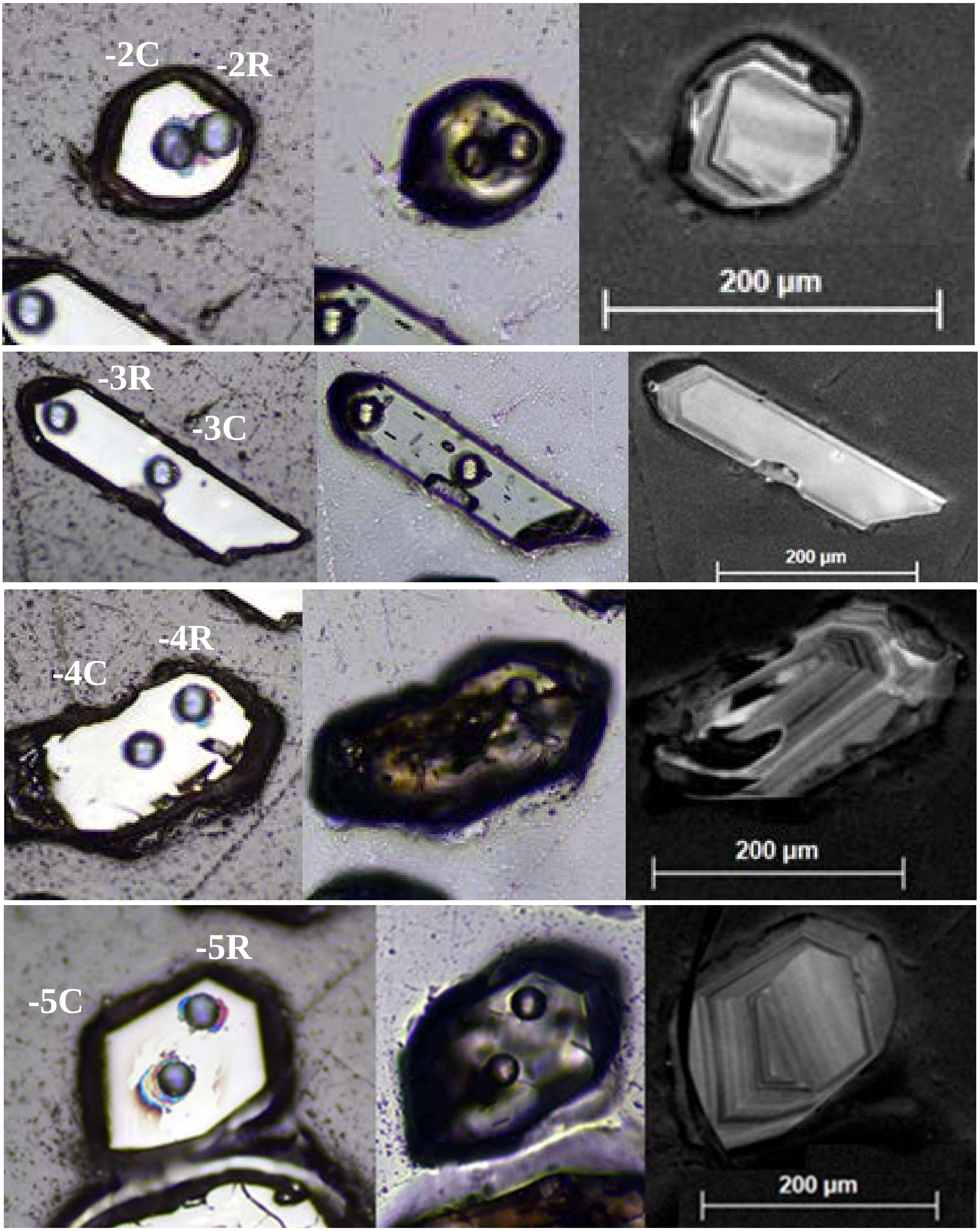

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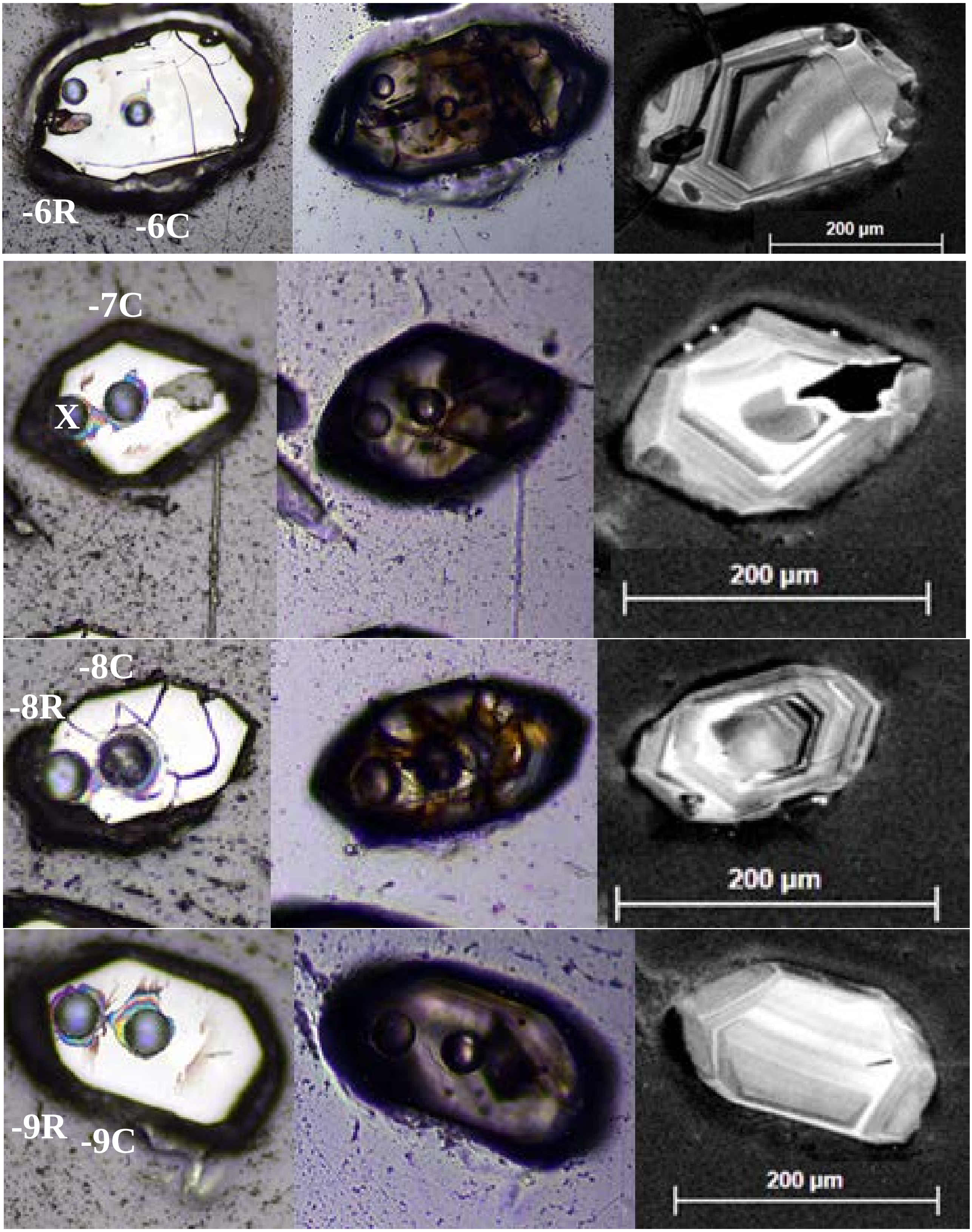

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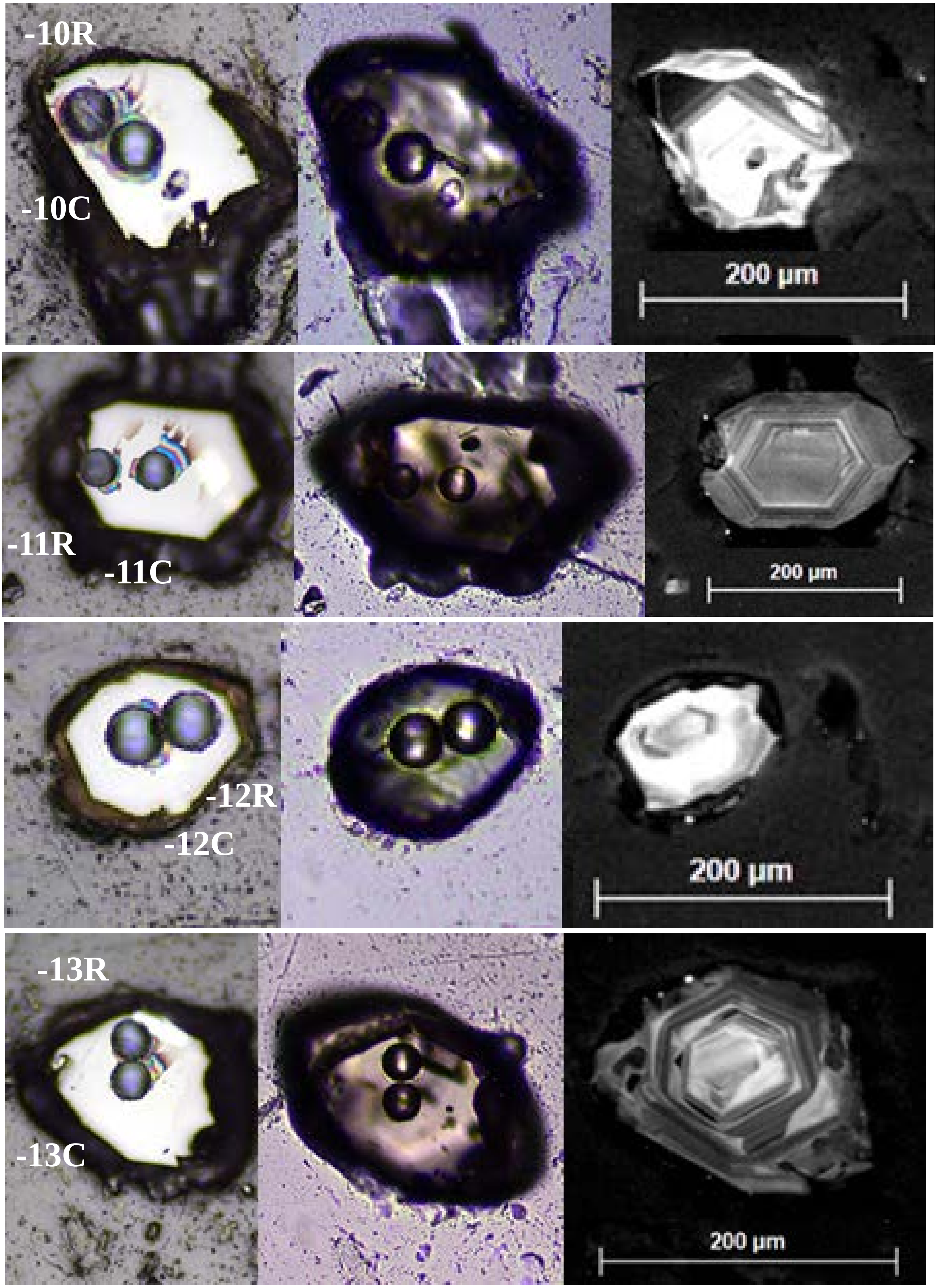

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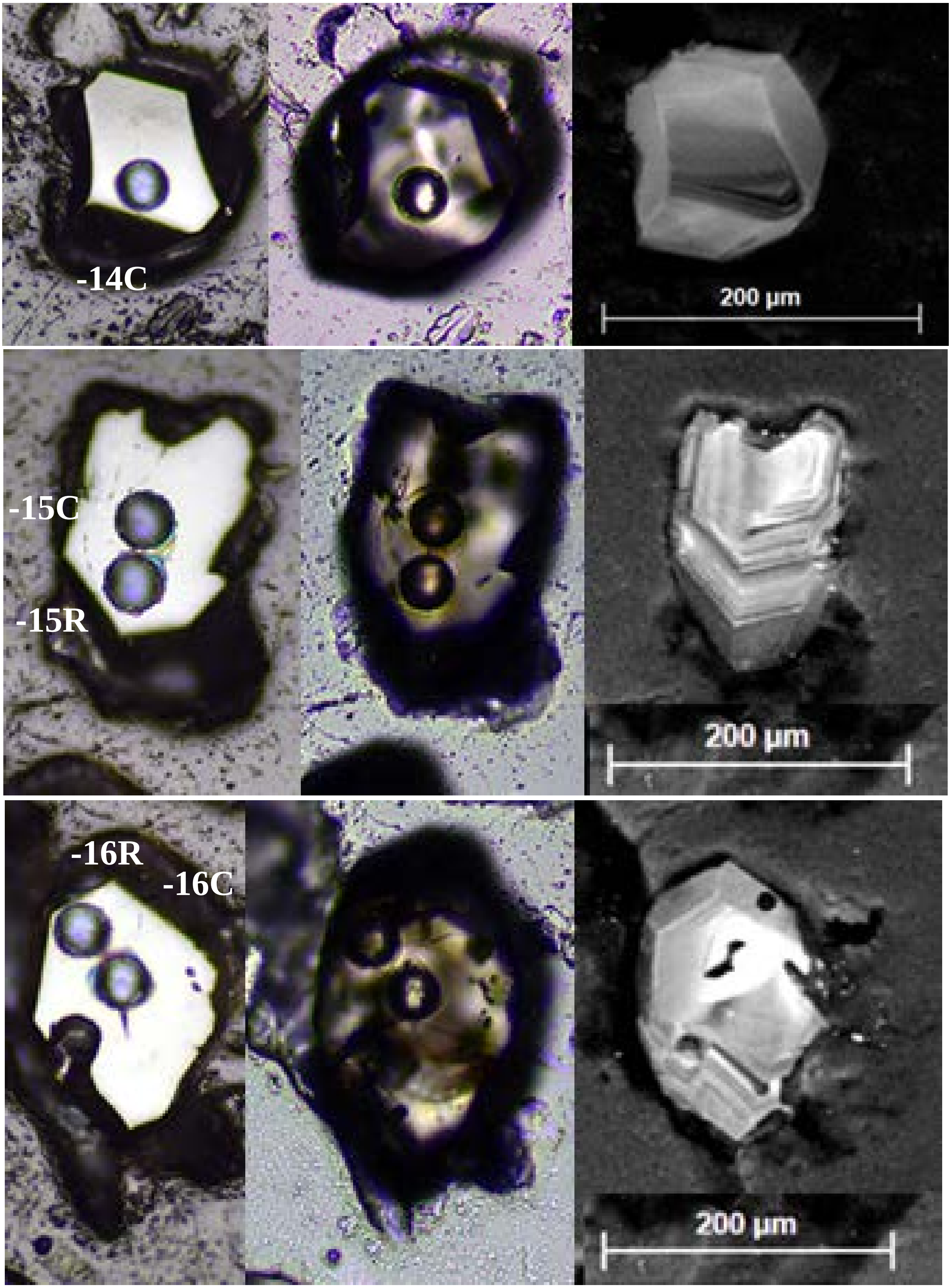

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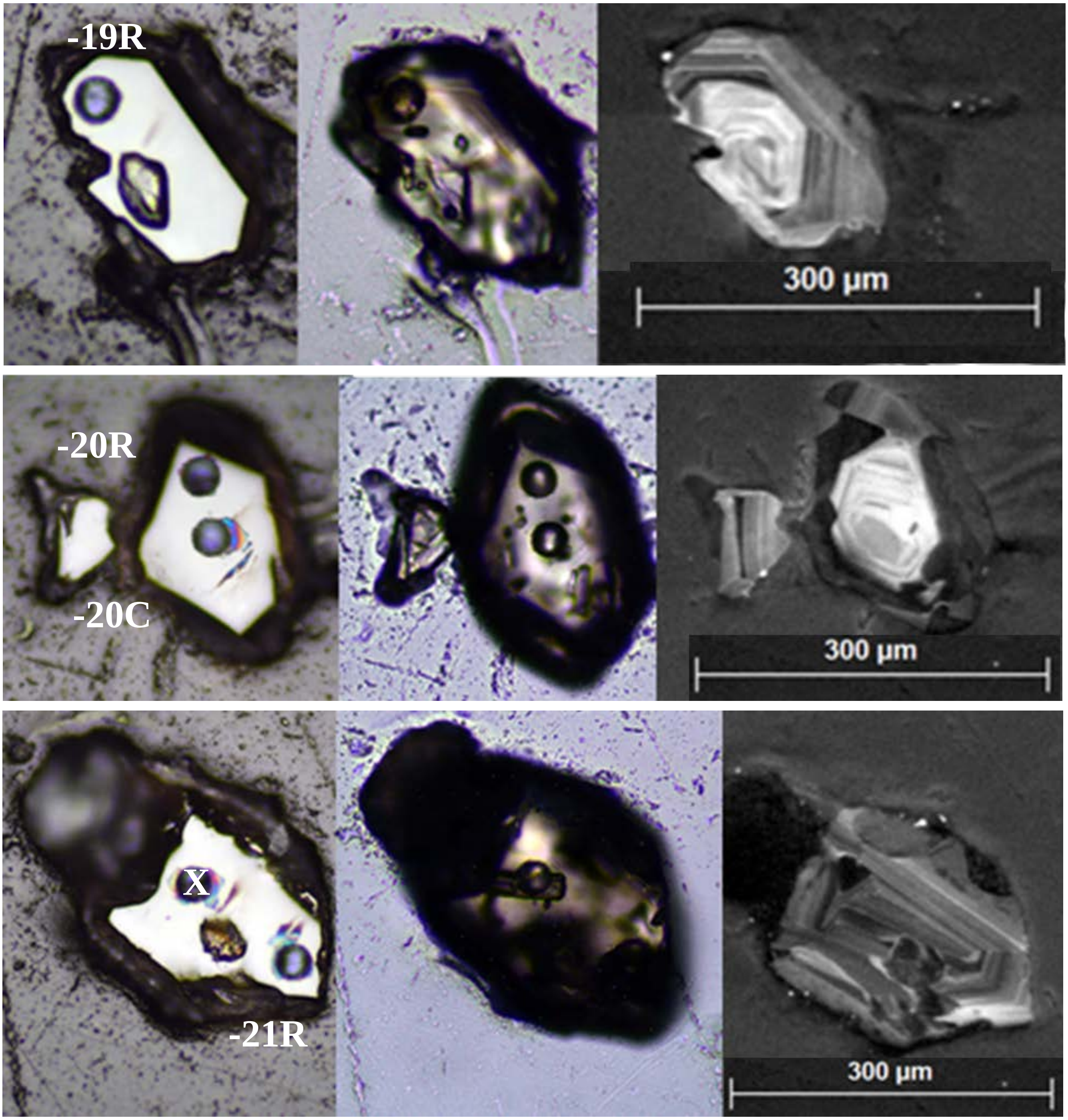

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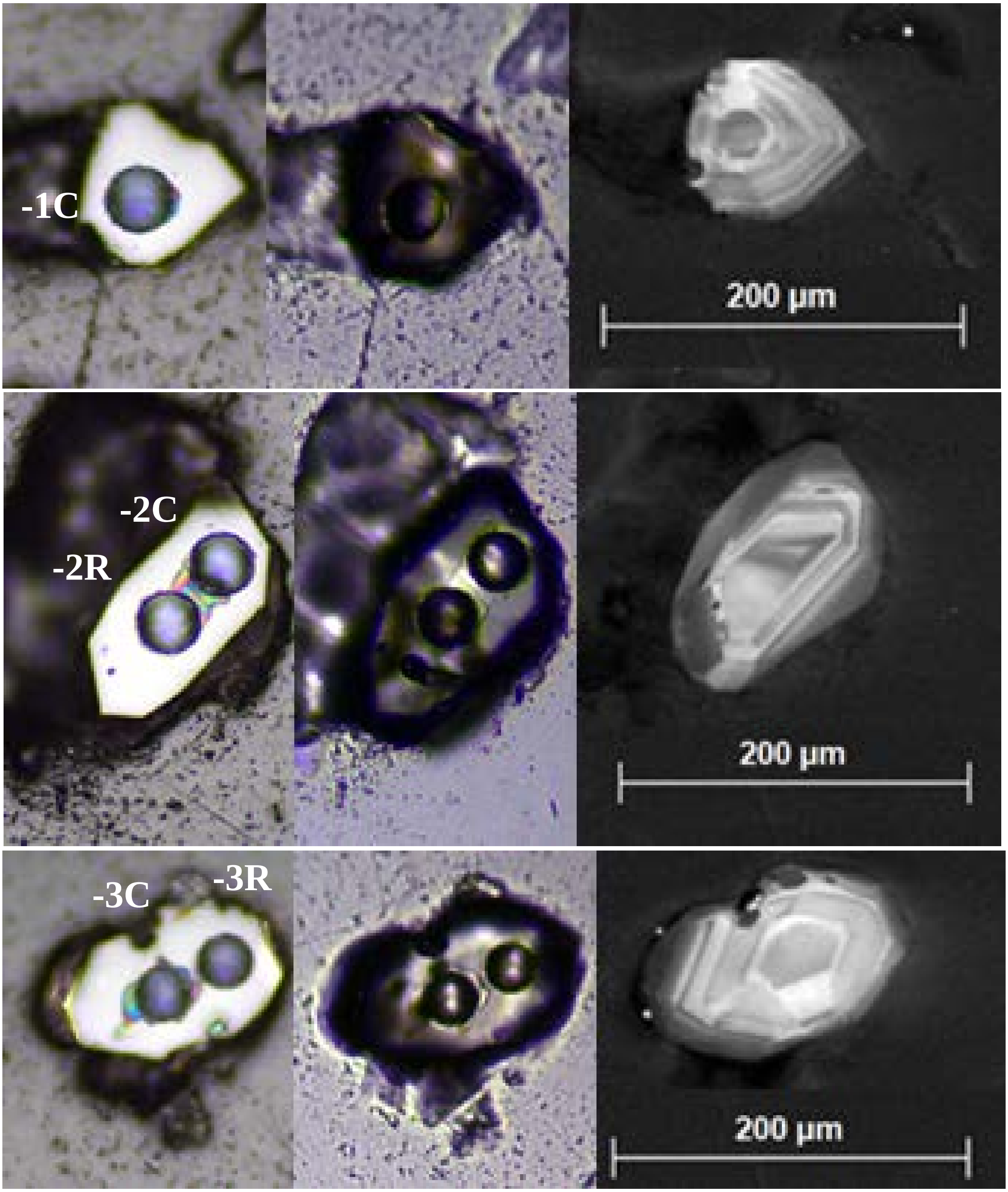

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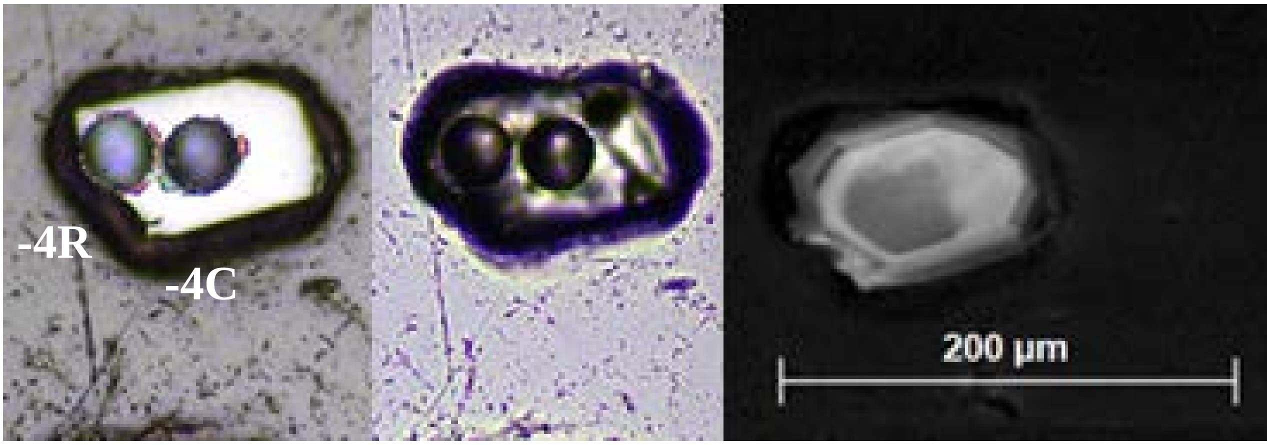

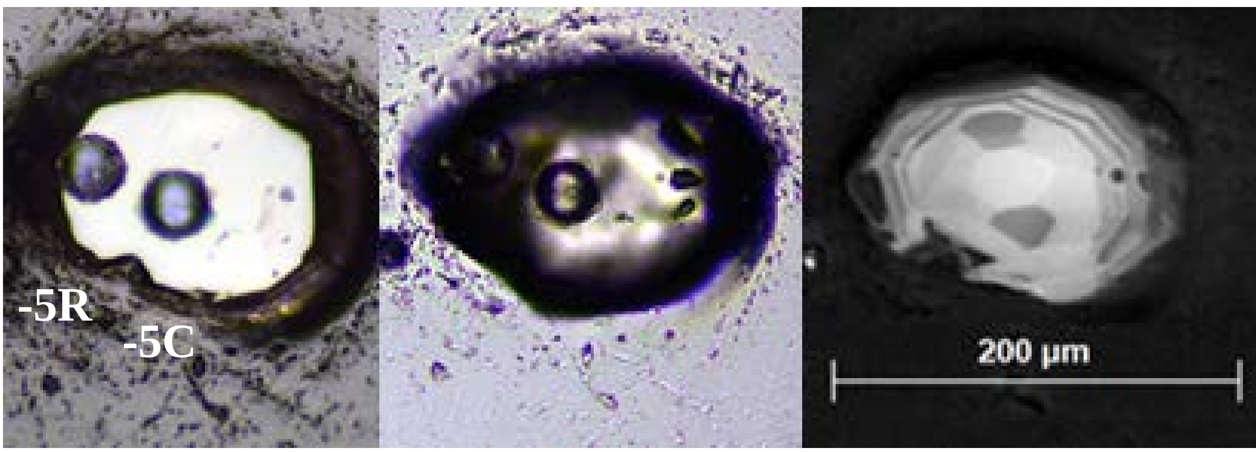

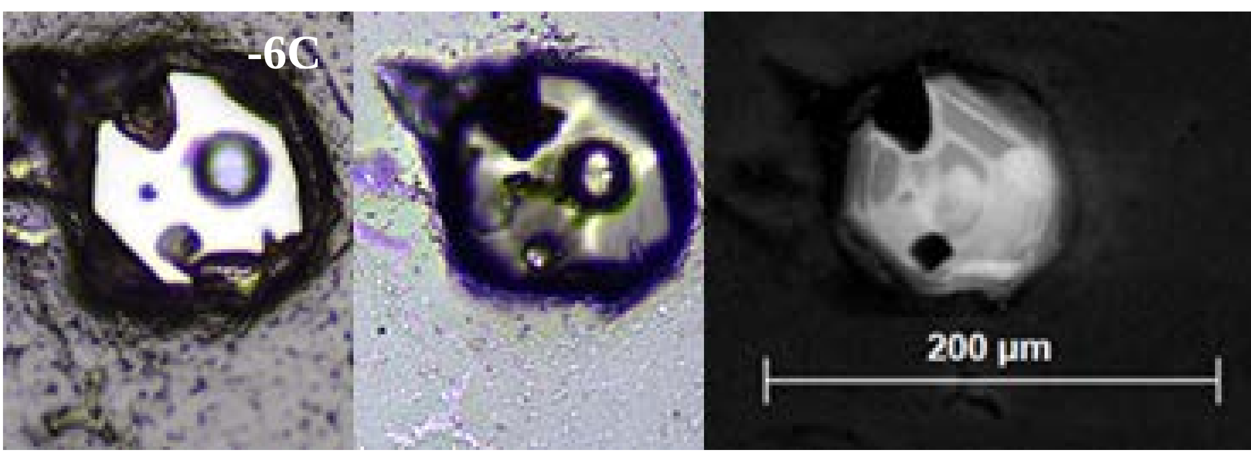

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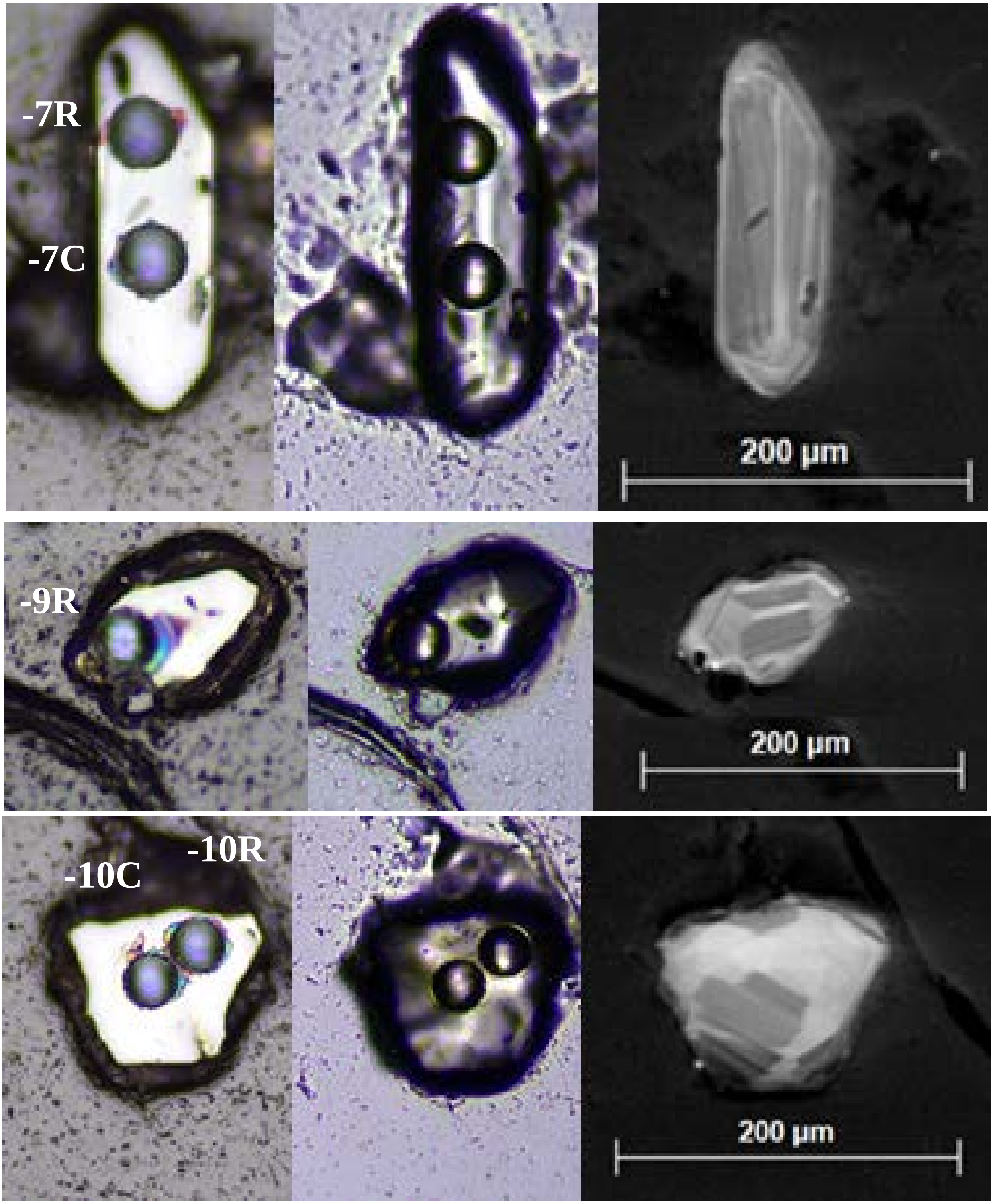

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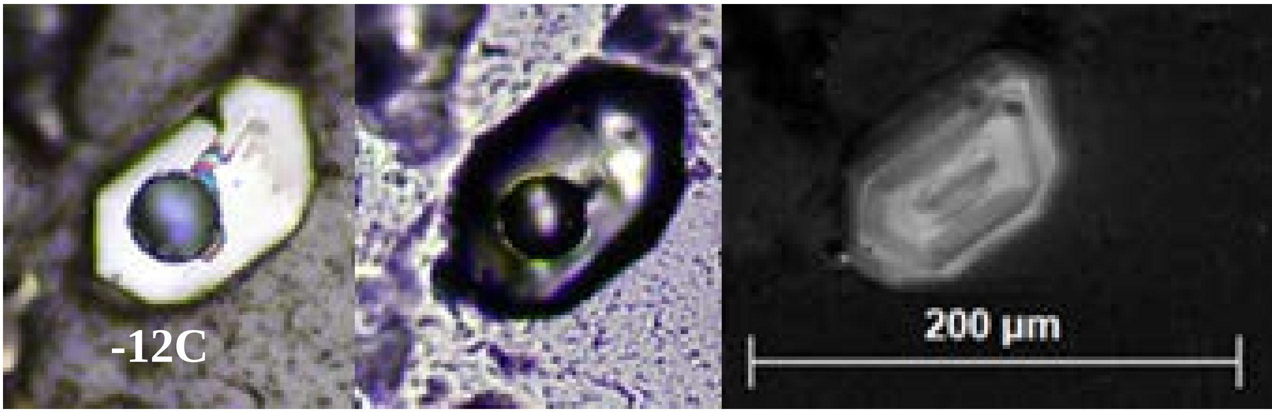

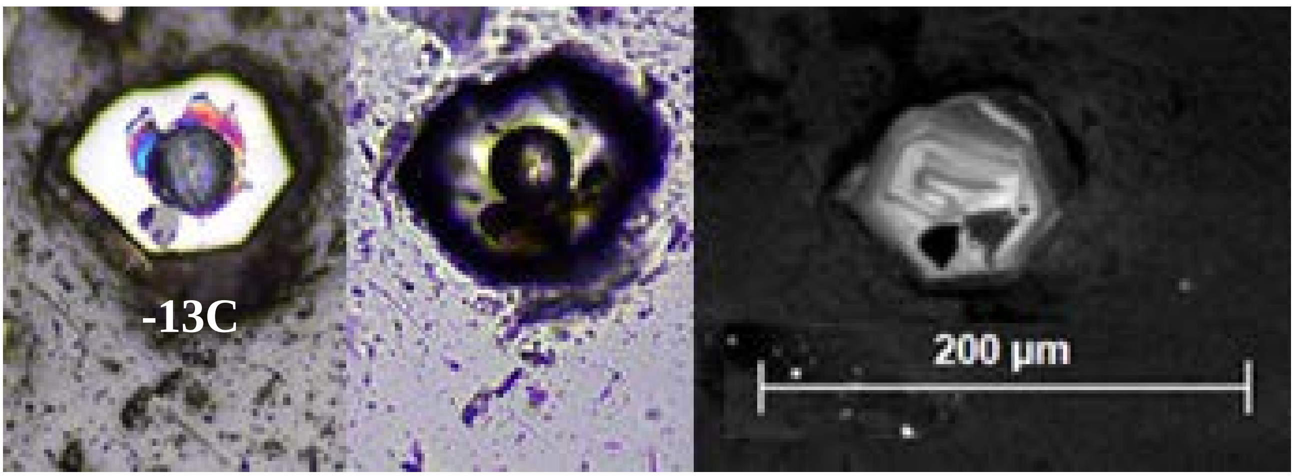

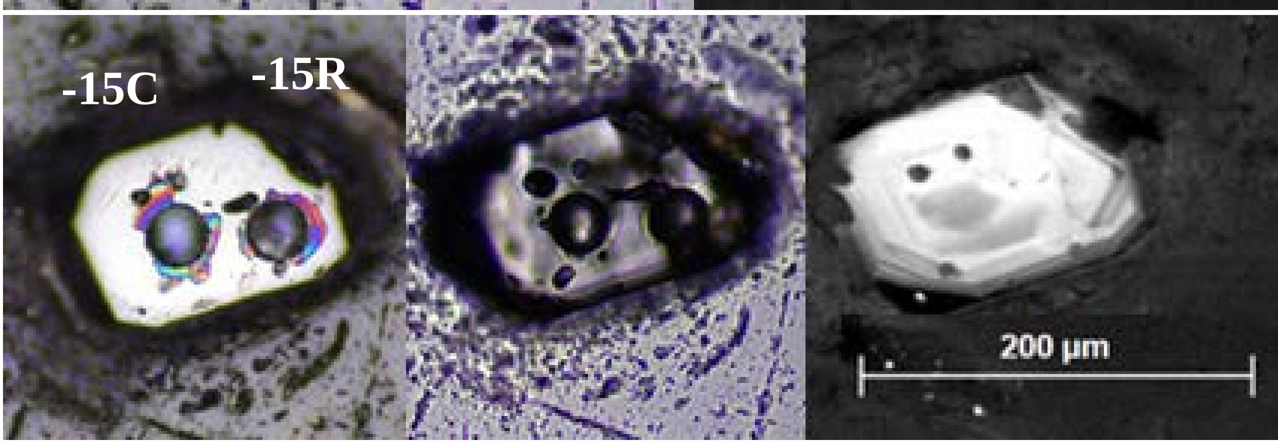

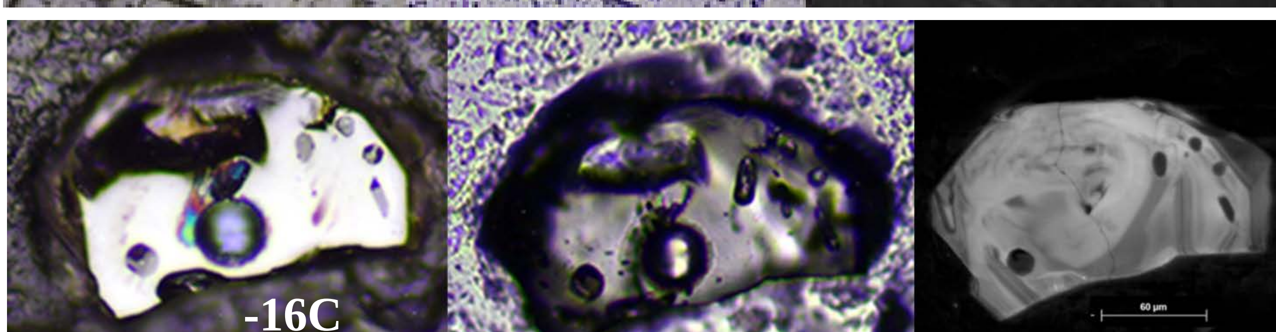

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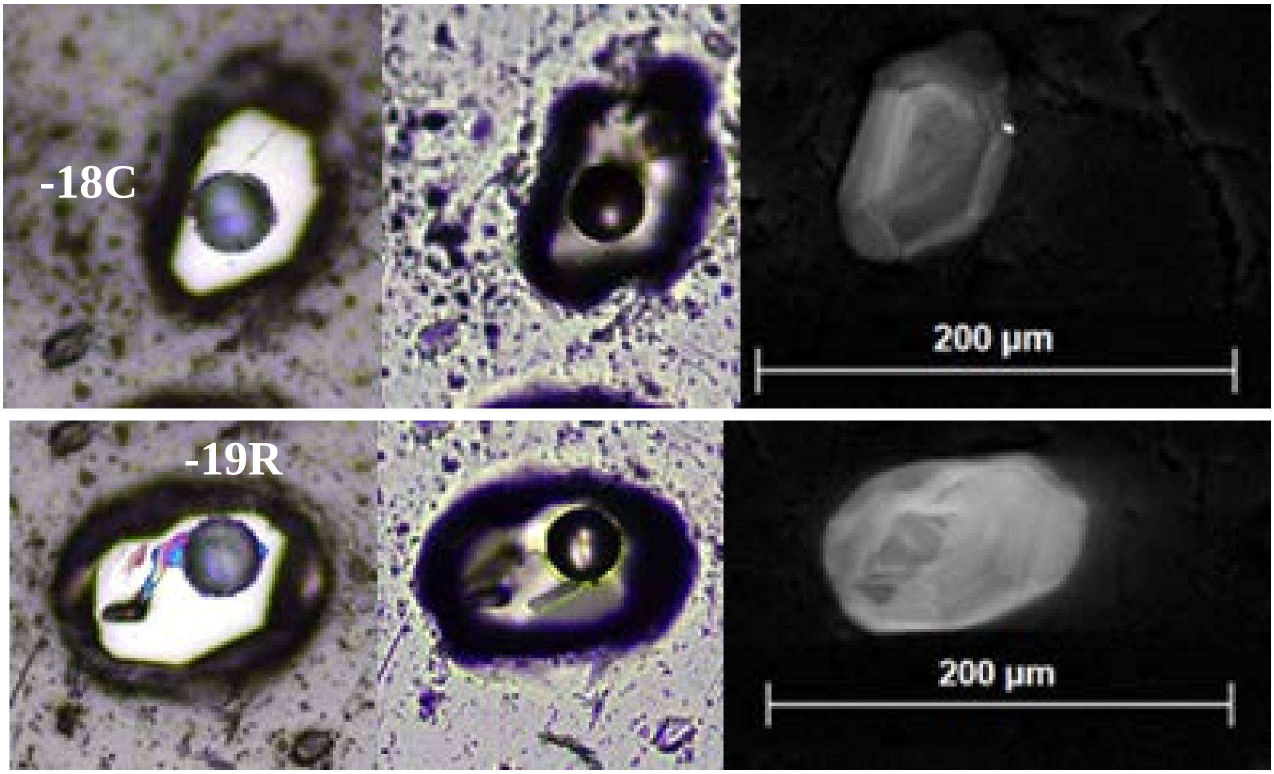

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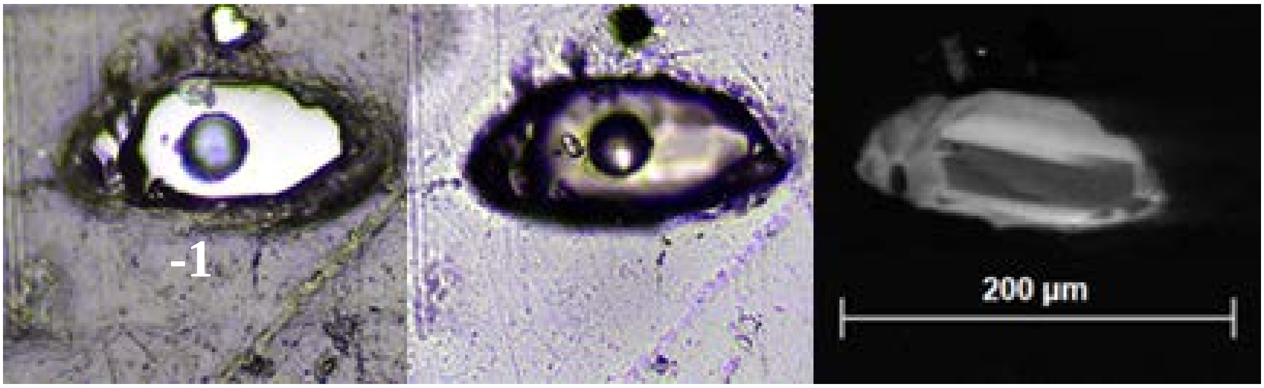

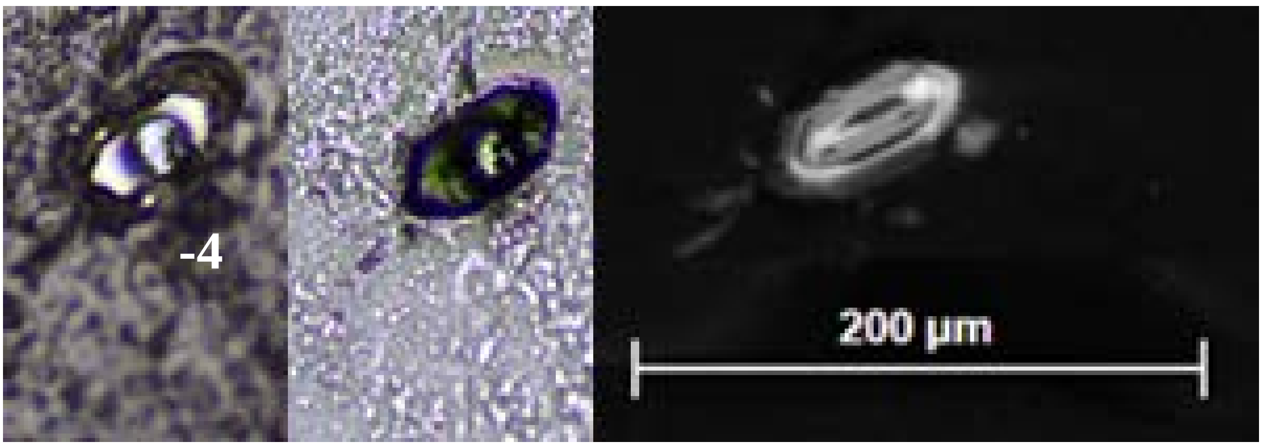

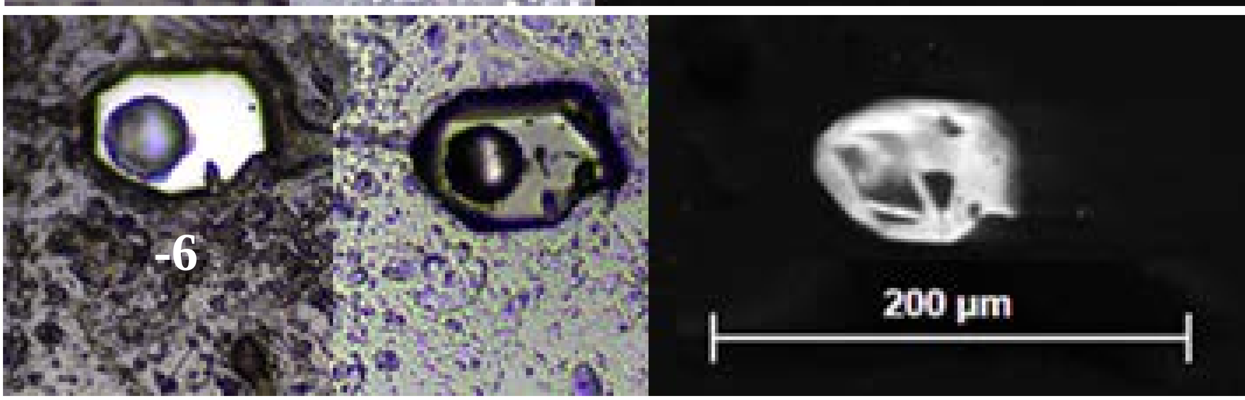

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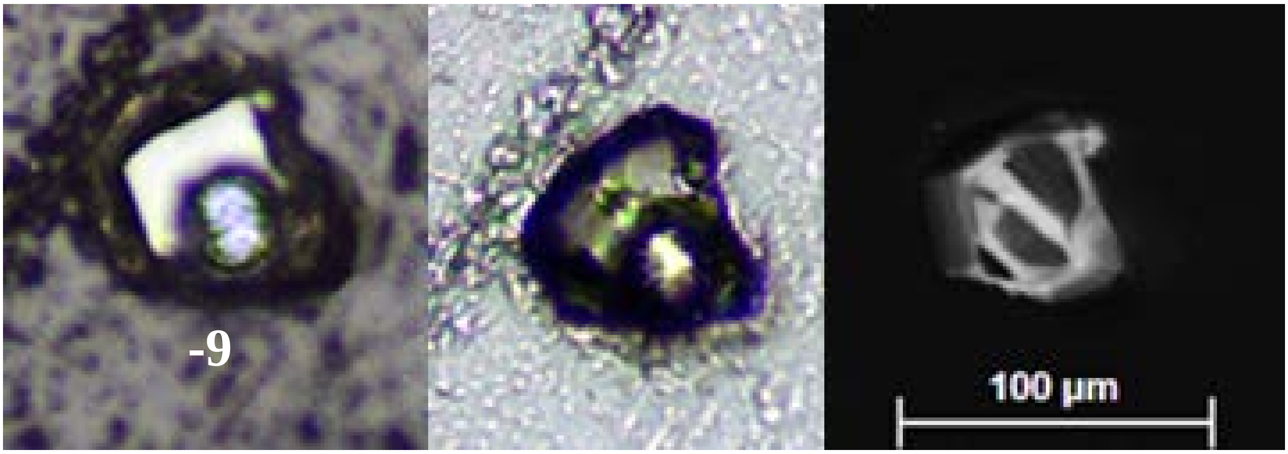

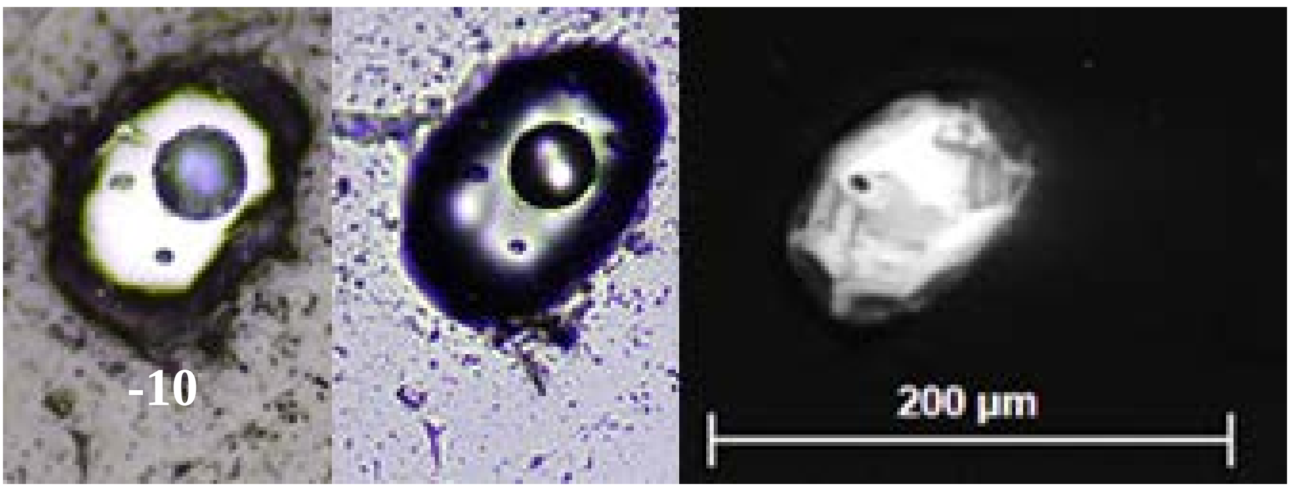

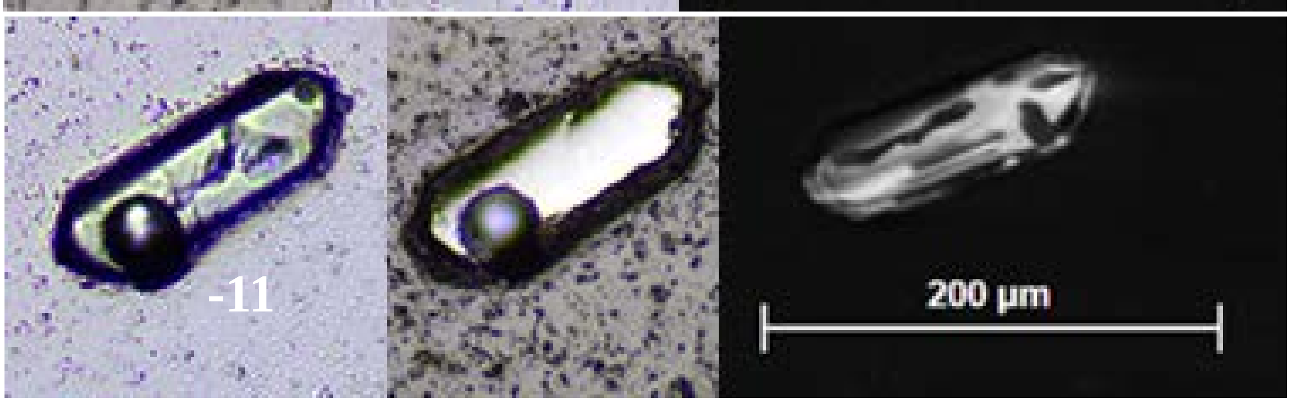

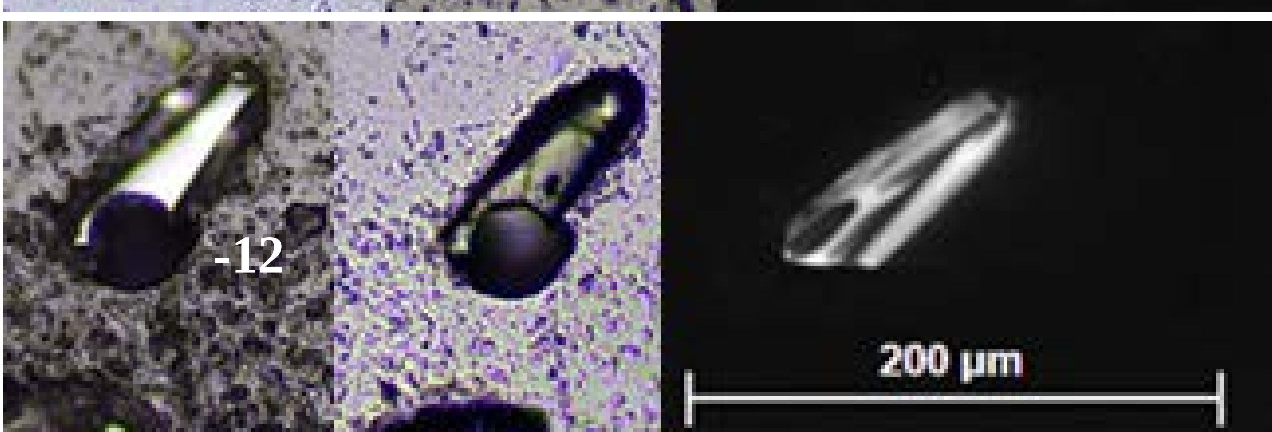

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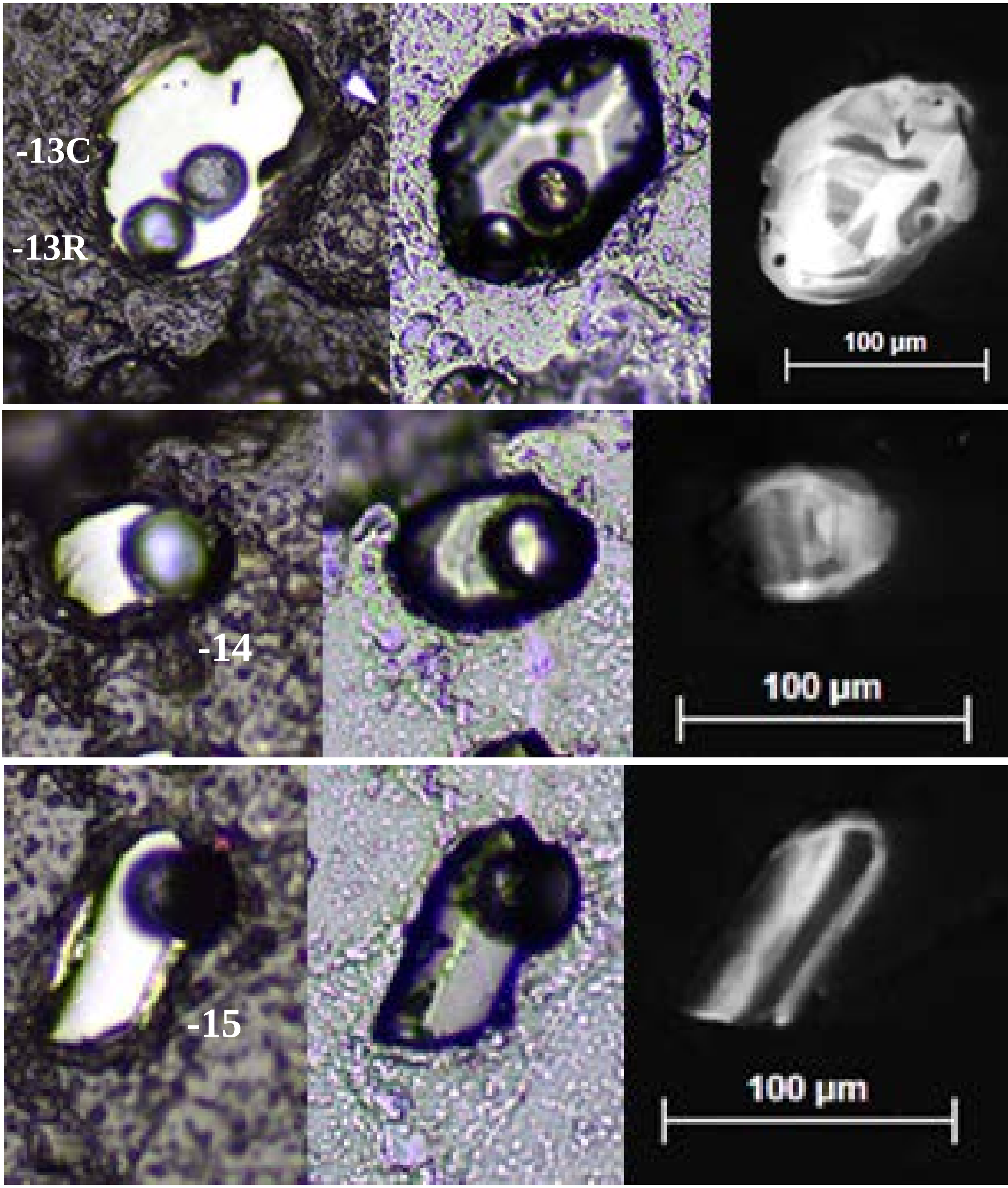
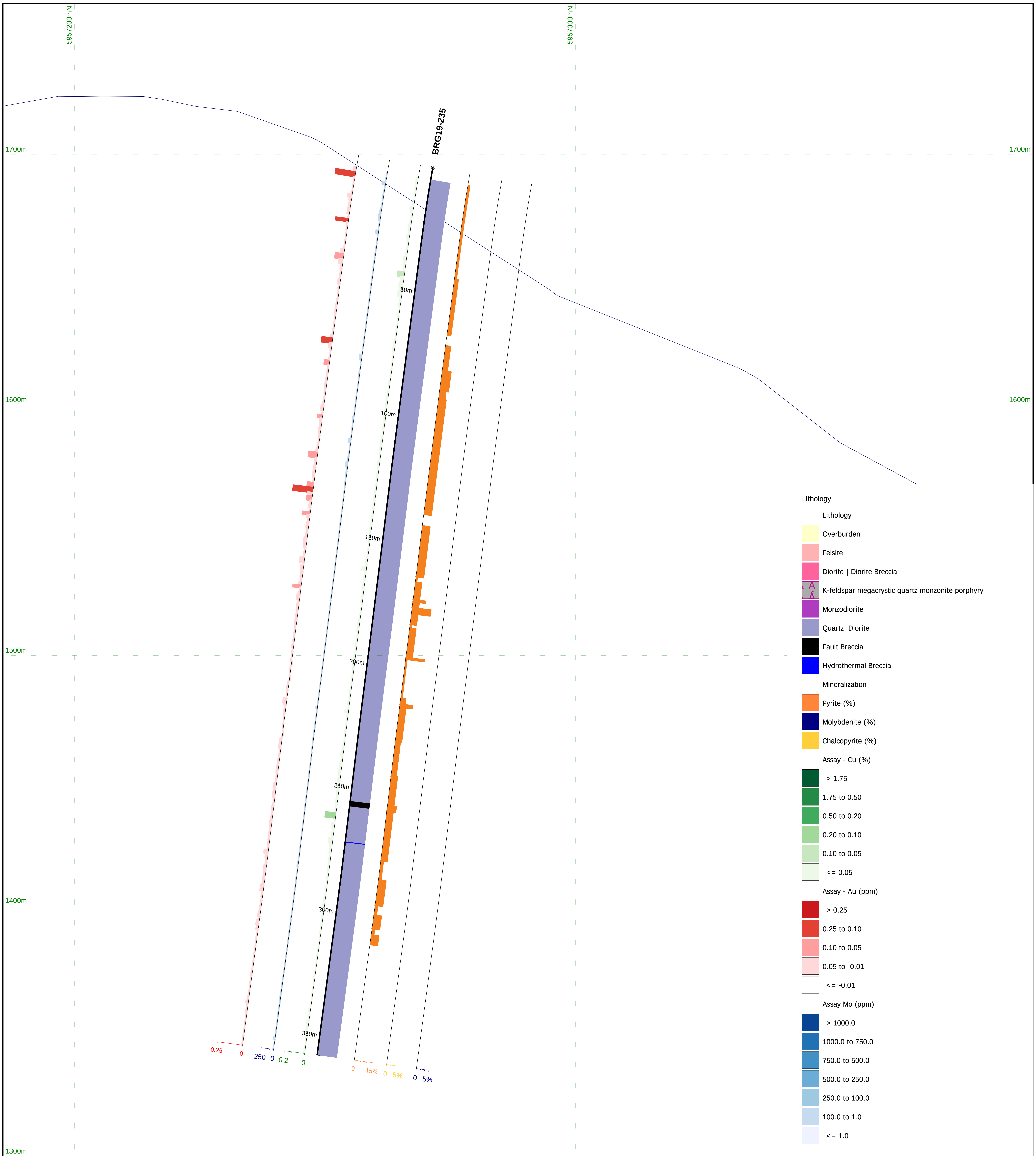


Appendix I: Drill Core Sections



Centerra Gold

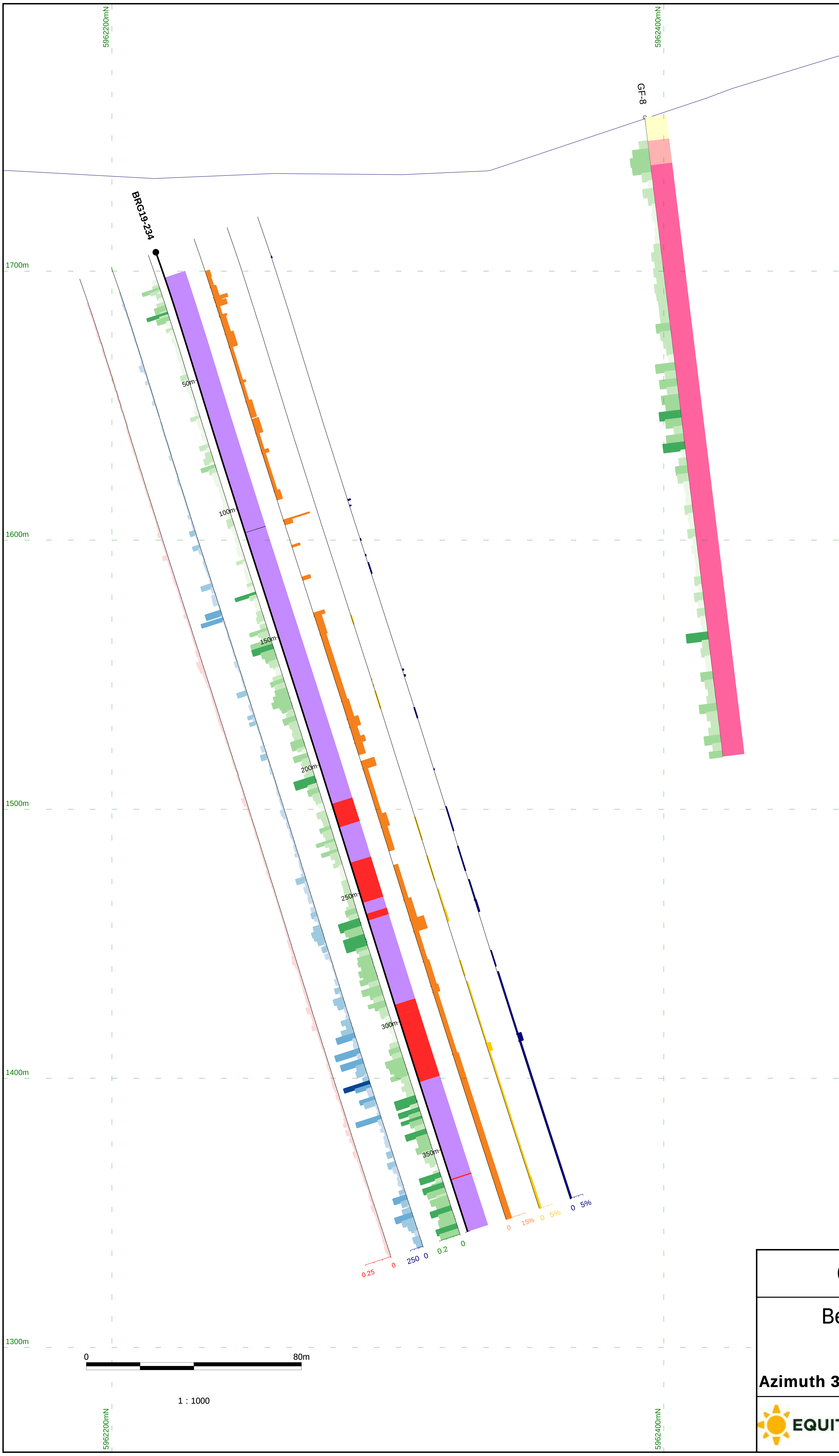
Berg Project - A12

2019 Drilling, A12
Vertical Cross Section
Azimuth 180, Looking west, +/- 50 m

EQUITY

Date: 16-Oct-2019
Proj: UTM 17 - NAD83
Prov: BC

Figure:



Lithology

Lithology
- Overburden
- Felsite
- Diorite | Diorite Breccia
- K-feldspar megacrystic quartz monzonite porphyry
- Monzodiorite
- Quartz Diorite
- Fault Breccia
- Hydrothermal Breccia
- Granodiorite
- Tonalite

Mineralization
- Pyrite (%)
- Molybdenite (%)
- Chalcopyrite (%)

Assay - Cu (%)
- > 1.75
- 1.75 to 0.50
- 0.50 to 0.20
- 0.20 to 0.10
- 0.10 to 0.05
- <= 0.05

Assay - Au (ppm)
- > 0.25
- 0.25 to 0.10
- 0.10 to 0.05
- 0.05 to -0.01
- <= -0.01

Assay Mo (ppm)
- > 1000.0
- 1000.0 to 750.0
- 750.0 to 500.0
- 500.0 to 250.0
- 250.0 to 100.0
- 100.0 to 1.0
- <= 1.0

Centerra Gold

Berg Project - Bergette

2019 Drilling, Bergette
Vertical Cross Section
Azimuth 350, Looking Southwest, + / - 50 m

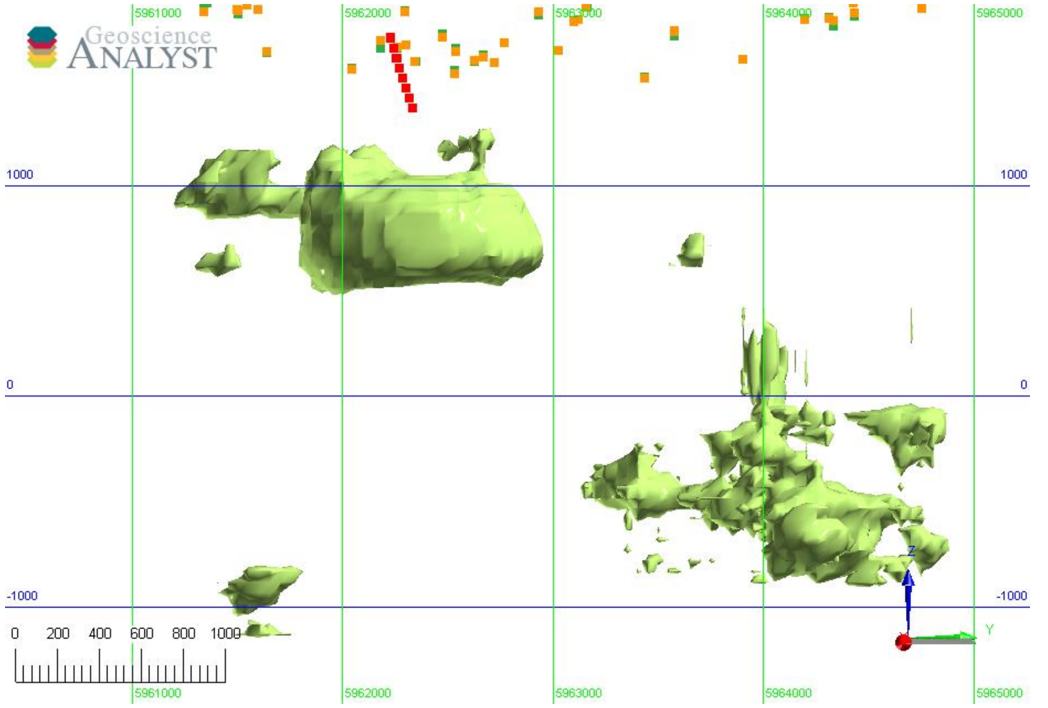
EQUITY

Date: 23-Oct-2019
Proj: UTM 17 - NAD83
Prov: BC

Figure:

Appendix J: Lithogeochemical Report

3D Porphyry Footprint Modeling, Berg, British Columbia
for Dan Lui
Equity Exploration Consultants Ltd
December 2019



by Dan Core, Fathom Geophysics
dan@fathomgeophysics.com

DOCUMENT SECTION	PAGE

Introduction

This work is an update of previous porphyry footprint modeling that was completed over the Berg project area in December 2018. The current work incorporates additional surface rock and drill core samples (Figure 1). No SWIR data were provided for these samples, so all of the new modeling runs incorporate only geochemical data.

Description of Data

Data were provided to Fathom Geophysics by Dan Lui of Equity Exploration Consultants in an Excel spreadsheet that included the new drilling as well as surface rock data. The new drilling was desurveyed and merged with the drilling that was used for the December 2018 work. The surface samples were checked against the samples used in December 2018 and the new dataset was found to contain all of the previous samples as well as some new surface samples in the Bergette and A12 areas.

The previous work included processing of soil data over the A12 area. No additional soil samples have been provided, so that work has not been updated.

Footprint Modeling Method

The footprint modeling method works by taking an idealized model of a porphyry copper system and moving it through 3D space. The core of the system is placed at every voxel in a 3D model. At every voxel, the fit between observed data and the idealized model are examined and a score is assigned with a value between 0 and 1.

A value of 1 indicates that the geochemical and/or SWIR data perfectly match the idealized porphyry model and there is a high likelihood of a porphyry core at the pixel location. A value of 0 indicates that the data do not match a porphyry system at all and there is a low likelihood of a porphyry core at the pixel location. We typically look for values greater than 0.25 over approximately 1km distance for a high quality target.

The idealized models used for this work have been derived from Cohen (2011) and Halley et al (2015). The Cohen geochemical model (Figure 2) is completely based on zonation observed around the Ann-Mason porphyry in the Yerington district. The Halley et al (2015) geochemical model (Figure 3) includes information from several other porphyry districts.

Footprint Modeling Method (Continued)

The two models are fairly similar with the exception of the geometry of the As zonation and the thresholds for As, Mo, W, and Sn. Both of these models were used for this work to test if there are any major differences in the results. All the results shown in the figures in this report use the Halley model unless otherwise specified.

Footprint Modeling Results

The targets generated by the footprint modeling are shown in Table 1. The targets have also been delivered as Micromine ASC format isosurfaces of the output voxel models.

The December 2018 results for Bergette indicated a coincident geochemistry and SWIR target in the north and a SWIR-only target in the central part of the area. The new processing confirms the northern target but pushes it to greater depth. In the central area, the new drilling and surface sampling produces a geochemistry-driven target that is coincident with the SWIR-only target in the central part of the area indicating that it is a high-quality target (Figure 5).

The new surface and drilling samples at A12 generate two porphyry targets (Figure 6). However, these are poorly constrained and drilling should not be completed based on this analysis. The results indicate that additional sampling should be completed particularly over the southern target, which has a greater chance of being at an explorable depth. The northern target may have potential as an epithermal target.

References

Cohen, J.F., 2011, Mineralogy and geochemistry of hydrothermal alteration at the Ann-Mason copper deposits, Nevada: Comparison of large-scale ore exploration techniques to mineral chemistry. M.Sc. Thesis, Oregon State University, Corvallis, Oregon, 112 p. plus appendices.

Halley, S., Dilles, J.H., Tosdal, R.M., 2015, Footprints: Hydrothermal alteration and geochemical dispersion around porphyry copper deposits. SEG Newsletter, no. 100, pp 1 and 12-17.

Target Table

Table 1: Table showing the targets highlighted by the footprint modeling method using the Halley model. The Cohen model produces the same targets with somewhat different depths. Z1 indicates the elevation of the top of a high value isosurface while Z2 indicates the elevation of the top of a low value isosurface. The higher value isosurface is considered the best target depth while the lower value isosurface provides the shallowest possible depth based on the model.

Berg Footprint Modeling Targets - December 2019								
Area	**X**	**Y**	**Z1**	**Z2**	**DEM**	**Depth to best target**	**Shallowest depth**	**Comments**
Bergette	613425	5964630	-500	-100	1870	2370	1970	Deep target at the north end of the Bergette surface rock dataset. The target is not particularly coherent. This target shifted deeper with the new samples and does not appear to be at an explorable depth.
Bergette	613800	5962750	1000	1100	1700	700	600	Moderate depth target in the central part of the Bergette surface rock dataset. This target is located under the recent drilling and indicates that the hole should be extended to better test the target.
A12	602520	5955100	-1000	420	1010	2010	590	Target with uncertain depth at the south end of the A12 rock samples. Additional sampling should be completed in the area to better constrain the target.
A12	602940	5956400	-800	-680	1660	2460	2340	Deep target located directly underneath the drilling. It appears that the target is not at an explorable depth. It is so deep that there could be a preserved epithermal system in the area. Any additional work should probably focus on that possibility.

Location Map

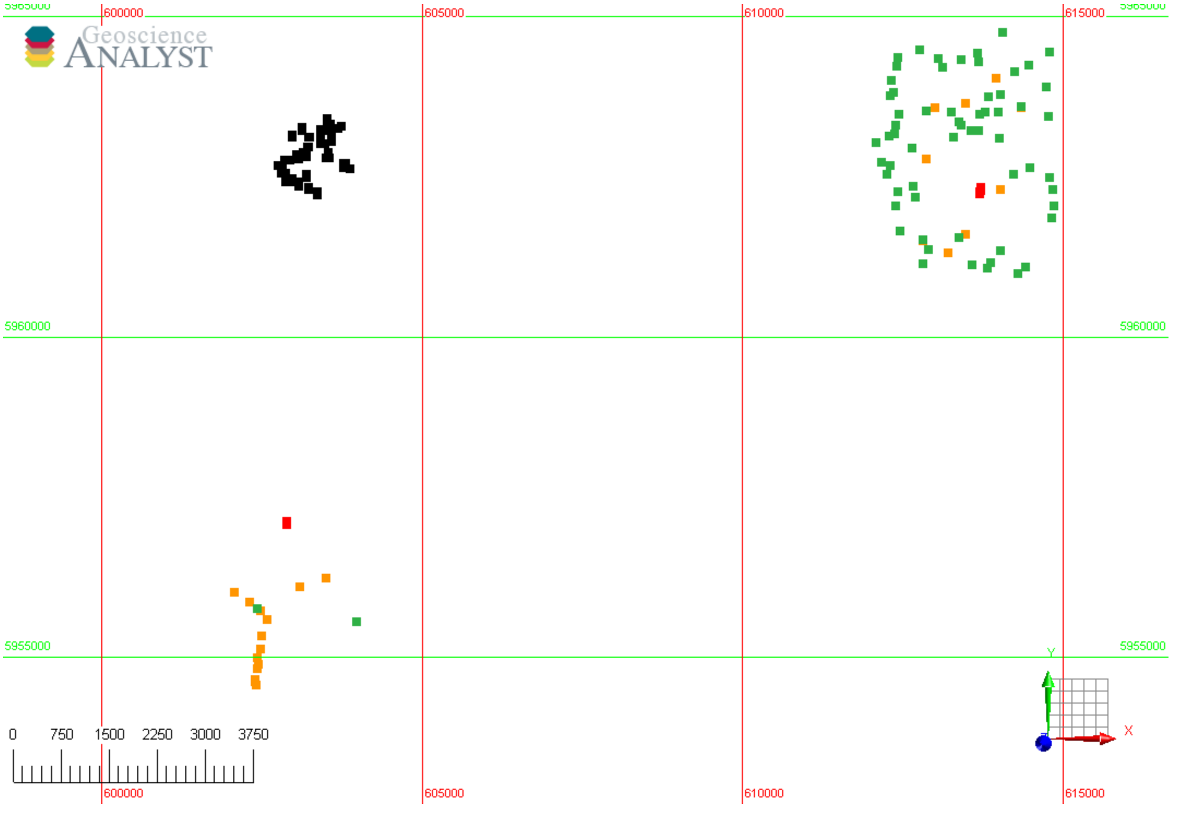


Figure 1: Sample locations for the 2018 work shown as black points for drilling and green points for surface rock samples. New sample locations are shown as red points for drilling and orange points for new surface samples.

Cohen Geochemical Model

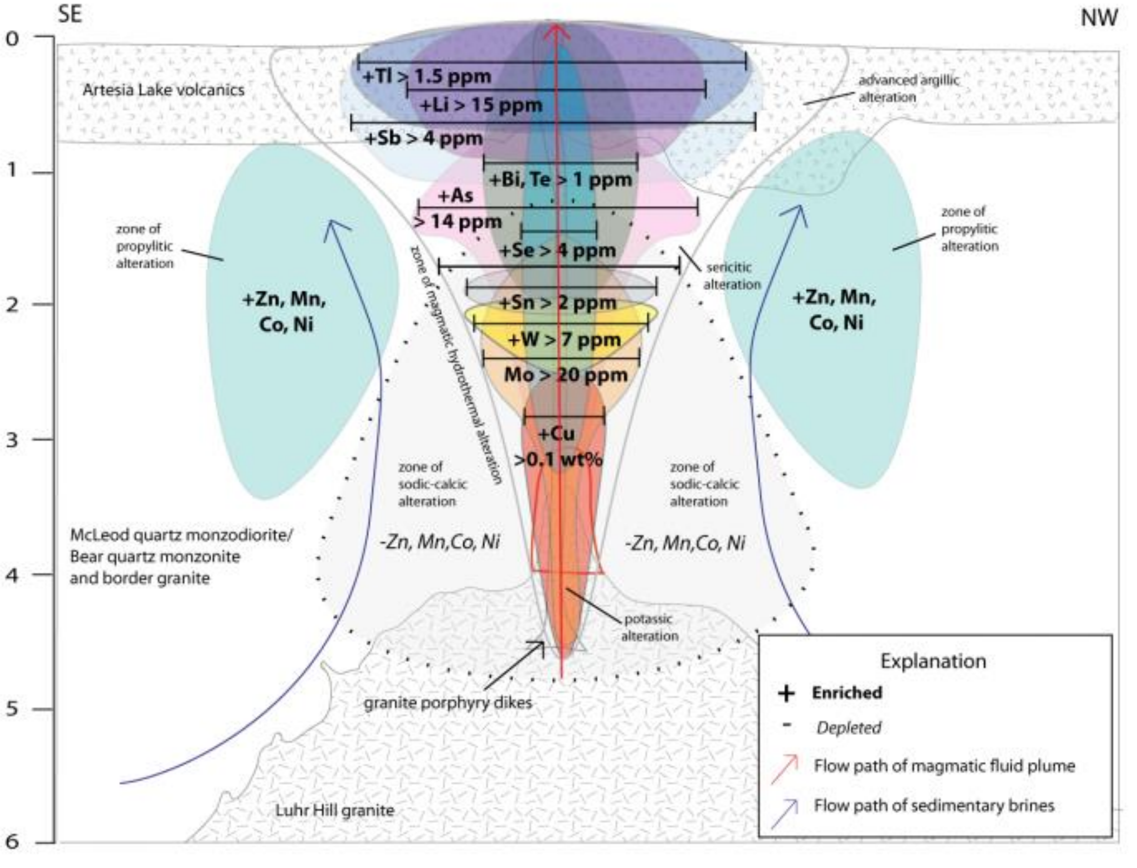


Figure 2: Image showing the interpreted geochemical zonation around the Ann-Mason porphyry from Cohen (2011).

Halley Geochemical Model

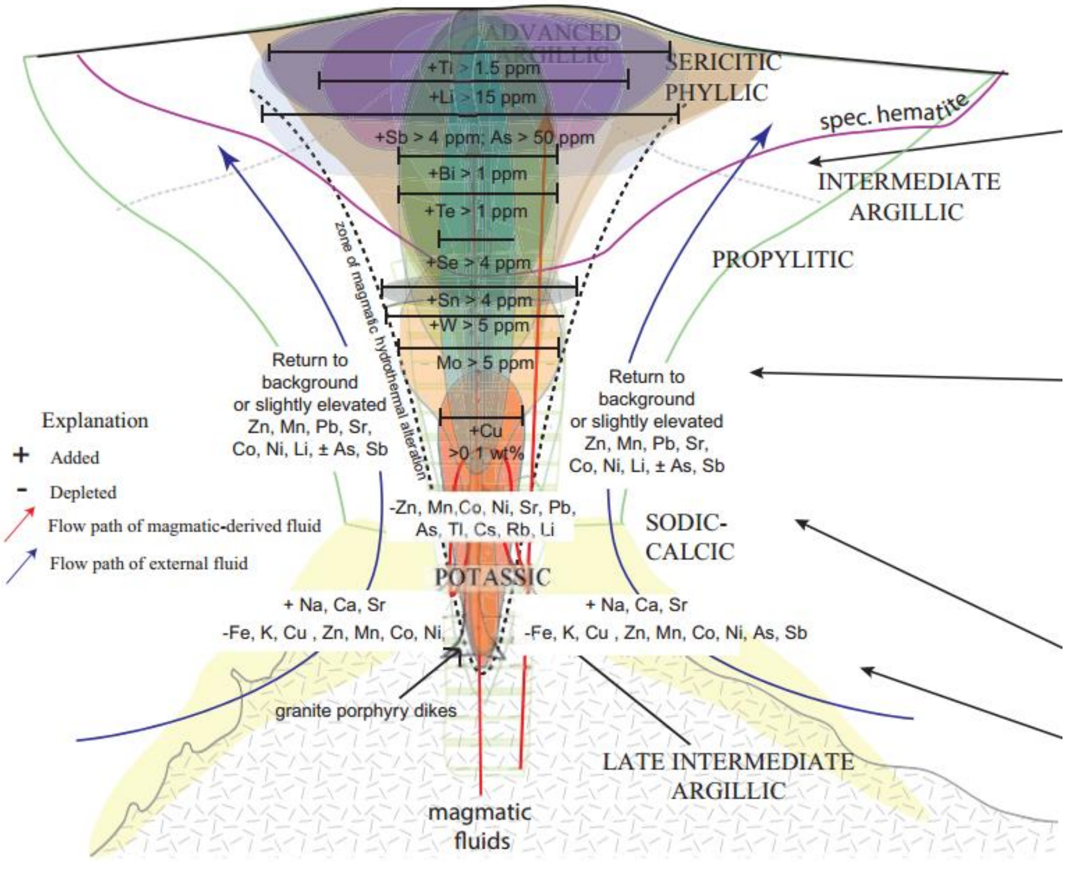
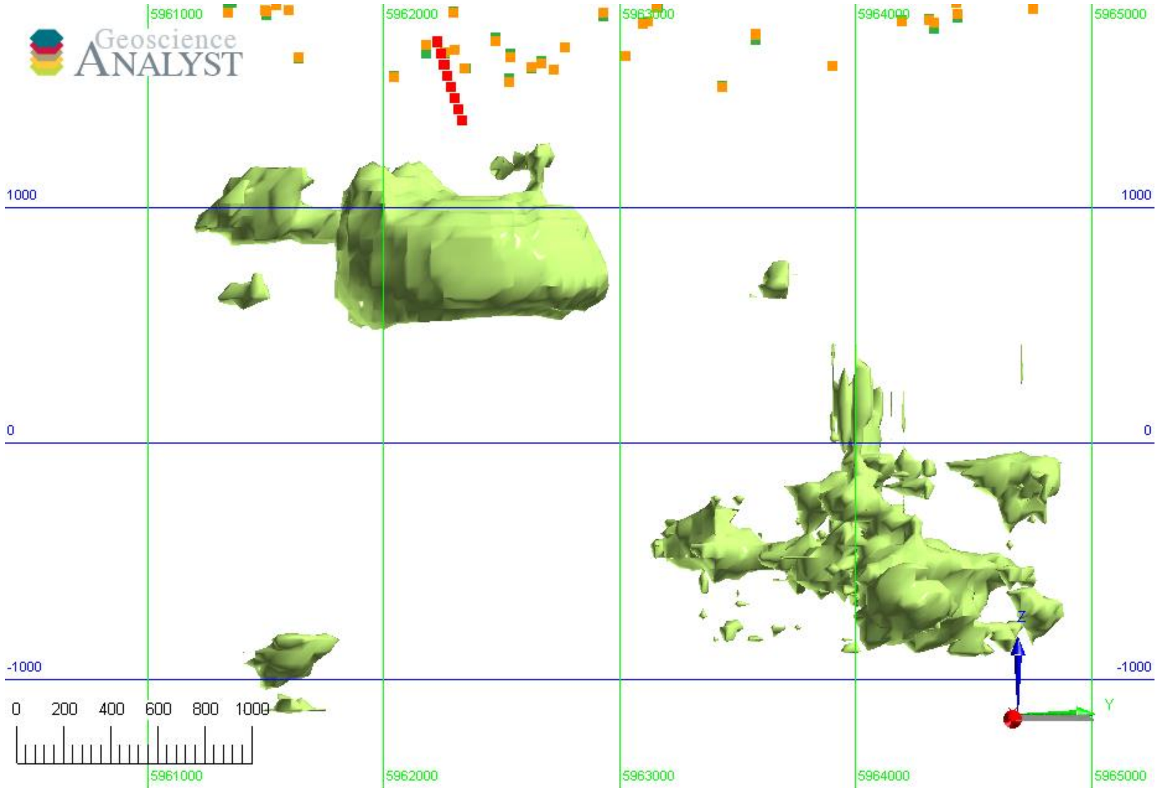


Figure 3: Image showing the interpreted geochemical zonation around porphyry copper systems based on Ann-Mason as well as other porphyry systems from Halley et al (2015).

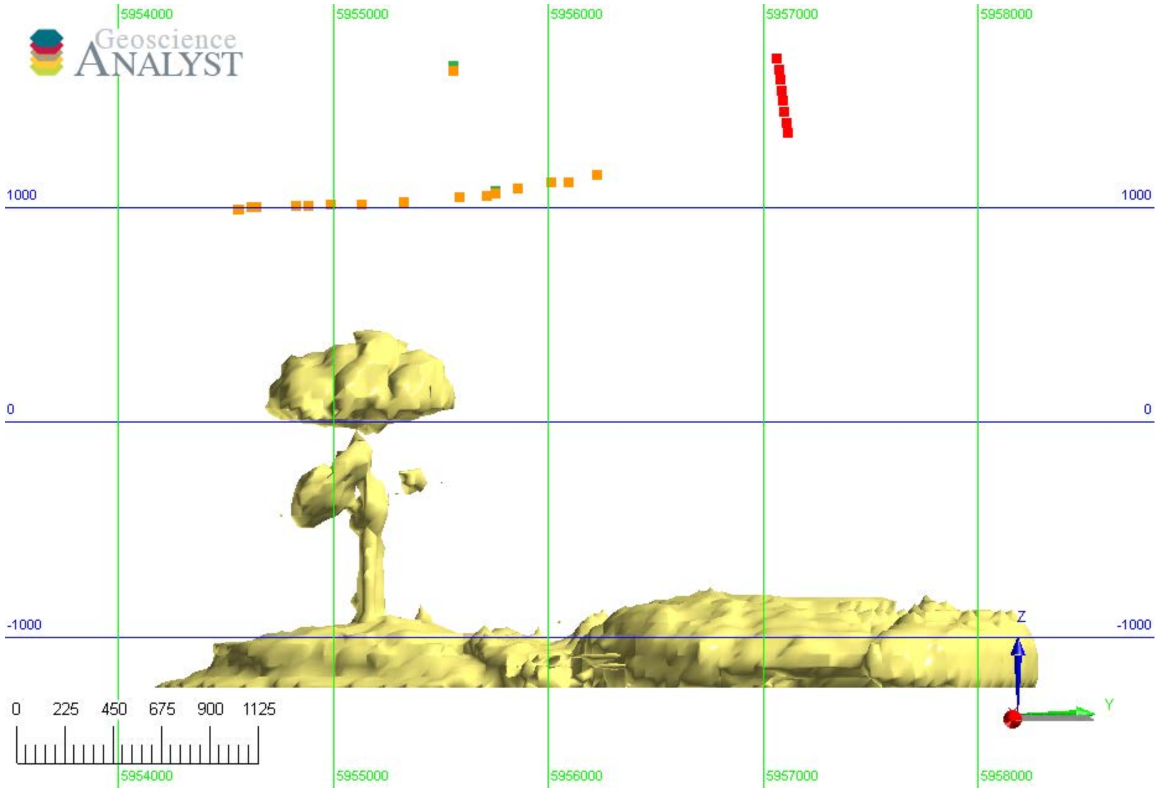
Bergette Footprint Modeling - Drilling and Surface Rocks



Berg_Rocks_Drilling_3D_Targeting_50_Halley_Dec2019_0p09.asc

Figure 8: Image showing the targets generated for the Bergette area viewed horizontally from the east. The deep target in the northern part of the dataset is shown to the right. The target is broken up and quite deep. The central target shown on the left in the image is much shallower and located under the current drilling. The highest scoring part of the target is a little bit southeast of the collar but it is not well enough constrained to be confident in the exact location.

A12 Footprint Modeling - Drilling and Surface Rocks



Berg_Rocks_Drilling_3D_Targeting_50_Halley_Dec2019_0p14.asc

Figure 8: Image showing the targets generated for the A12 area viewed horizontally from the east. The deep target in the northern part of the dataset is shown to the right. The target is very deep but it is only constrained by the one drill hole. The southern target is also poorly constrained but appears to have the potential to be shallower. The scores on these targets are higher than those for Bergette but that is mostly because there are fewer constraining samples in this area.

Appendix K: Petrographic Report

Ultra Petrography
& Geoscience Inc

Report for: Equity Exploration Consultants Ltd.

Sent to: Mr. Steve Bultitude

Petrographic Report UP190922

October 8, 2019

Petrographic Report on 10 Rock Samples for Equity Exploration Consultants Ltd.

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Table of Contents

1. Introduction

Mr. Steve Bultitude of Equity Exploration Consultants Ltd. submitted 10 rock samples to me for petrographic analysis.

The attached “Petrographic Descriptions” section provides the following for each sample: (i) the petrographic rock classification; (ii) a brief microstructural description; (iii) a table with the modal percentage and average grain size for each mineral; and (iv) a detailed description of the minerals in decreasing order of abundance.

Samples 1–10 (see Table 1) were cut and prepared as ~20 × 40 mm polished thin sections (see the image of the billet on the first page of each description), and were analyzed with a petrographic microscope under polarized transmitted, and polarized reflected light.

The petrographic classification follows the recommendations of Gillespie et al. (2011), Gillespie and Styles (1999), and Robertson (1999).

The microstructural terminology used in this report follows the recommendations and definitions of Vernon (2004), Passchier and Trouw (2005), and Ramdohr (1980). Some of the petrographic and microstructural terms are defined in the glossary.

The magnetic susceptibility (see Table 1) was measured with a hand-held KT Magnetic Susceptibility Meter, and is intended to provide only an approximate estimate of the relative content of magnetic minerals within each sample.

2. Summary of Results

Sample 1: PET 01—Tonalite—Subhedral to euhedral crystals of plagioclase are associated with anhedral and interstitial crystals of quartz, fine-grained crystals and crystal clusters of biotite, magnetite, and alkali feldspar; all of which define a granular isotropic microstructure.

Alteration: biotite+plagioclase(?)+magnetite: strong after probable hornblende; carbonate: weak after plagioclase; alkali feldspar: weak; pyrite: subtle.

Sample 2: PET 02—Alkali feldspar-biotite-altered tonalite & Quartz-pyrite-molybdenite vein & Clay veinlets—A granular microstructure similar to Sample 1 is defined by subhedral to euhedral crystals of plagioclase, and interstitial quartz, biotite, pseudomorphs of biotite, quartz, and magnetite. In this polished thin section, the granular and isotropic microstructure is crosscut by an up to 8 mm thick vein of quartz-pyrite-molybdenite, and by irregular veinlets of clay.

Alteration: alkali feldspar: moderate; biotite-plagioclase(?)-magnetite: strong after probable amphibole; molybdenite-pyrite: subtle.

Sample 3: PET 03—Alkali feldspar-biotite-altered tonalite & Pyrite-rich veins & Clay veinlets—Euhedral to subhedral crystals of plagioclase are randomly oriented, densely packed, and define a granular microstructure in association with interstitial crystals of quartz, alkali feldspar, biotite, and biotite-rich pseudomorphs. The granular microstructure is crosscut by sub-parallel veins of pyrite.

Alteration: alkali feldspar: weak to moderate; biotite+quartz: strong after unknown ferromagnesian mineral; earthy and unresolved material: weak to moderate after feldspars; pyrite: weak; rutile: subtle.

S**ample 4: PET 04—Alkali feldspar-biotite altered tonalite & White mica-quartz alteration zone (after tonalite?) & Pyrite-quartz vein & Clay-rich vein**—This polished thin section, consists of two different domains. In the upper part, euhedral to subhedral crystals of plagioclase are randomly oriented and immersed within finer-grained crystals of quartz, alkali feldspar, and biotite (Domain A). In the lower part, irregularly shaped alteromorphs of white mica are associated with anhedral crystals of quartz. The two domains are crosscut by an irregular and up to 6 mm thick pyrite-rich vein, and a clay-rich vein.

Alteration: white mica: strong after feldspar and ferromagnesian minerals in Domain B; quartz: moderate in Domain B; alkali feldspar-biotite: weak?; pyrite: weak; rutile: subtle.

Sample 5: PET 05—Altered microgranodiorite(?) & Altered quartz-plagioclase-phyric granodiorite(?)—This heterogeneous polished thin section is made up of two main domains. In the upper part (Domain A) a medium-grained anhedral aggregate of plagioclase and subordinate biotite, and quartz are overprinted by fine-grained alkali feldspar-rich clusters. In the middle and lower part (Domain B), subhedral phenocrystals of plagioclase and embayed phenocrystals of quartz are immersed within a groundmass of plagioclase and subordinate biotite and quartz. A fine-grained alkali feldspar rich aggregate heterogeneously overprinted the groundmass.

Alteration: alkali feldspar: moderate; earthy and unresolved (clay?): weak to moderate after plagioclase; pyrite: weak to moderate; chalcopyrite: weak.

Sample 6: PET 06—**Pyrite-anhydrite-altered diorite**—Medium-grained subhedral to anhedral crystals of plagioclase and randomly oriented lamellae of biotite define an isotropic and granular microstructure. Sub-rounded patches with increased amount of fine-grained biotite overprinted the isotropic microstructure. The patches are surrounded by alkali feldspar rims and plagioclase rims (see image of the billet on the right). A discontinuous and up to 0.6 mm thick veinlet is filled in by anhydrite, and sparse crystals of molybdenite and pyrite.

Alteration: anhydrite-pyrite: weak; biotite: moderate to strong within the alteration patches; earthy and unresolved material (including alkali feldspar?): weak to moderate after plagioclase; chalcopyrite: subtle.

Sample 7: PET 07—Alkali feldspar-altered dioritic(?) rock—Most of this polished thin section is made up of moderately to strongly altered crystals of plagioclase. In the upper part, the plagioclase forms euhedral crystals immersed within an alkali feldspar-altered groundmass. In the central and lower part, the plagioclase is strongly altered by alkali feldspar and forms irregular crystal relicts. This polished thin section is crosscut by an irregular and fine-grained vein of quartz.

Alteration: alkali feldspar: strong after the groundmass; moderate to strong after the plagioclase; clay: weak to moderate after feldspars; chlorite: strong after biotite; pyrite: weak.

Sample 8: PET 08—**Alkali feldspar-anhydrite-biotite alteration zone**—Fine-grained anhedral crystals of alkali feldspar dominate the composition of this strongly altered rock and are intergrown with anhedral crystals of anhydrite. The granular alteration zone hosts irregularly shaped alteration patches of fine-grained biotite.

Alteration: alkali feldspar: strong; biotite-white mica: weak to moderate within irregular patches; anhydrite: weak; pyrite-rutile-chalcopyrite-white mica: subtle.

Sample 9: PET 09—Biotite-alkali feldspar altered granitoid—An 8 mm thick quartz-anhydrite-pyrte-chalcopyrite-molybdenite vein crosscut a granular microstructure defined by euhedral to subhedral crystals of plagioclase, anhedral crystals of quartz, biotite, and alkali feldspar.

Alteration: alkali feldspar: moderate; biotite: weak; clay: weak after plagioclase; magnetite: weak after biotite and dispersed within the granular microstructure.

Sample 10: PET 10—White mica-pyrite altered granitoid & White mica-quartz-pyrite veins—Irregular white mica-quartz-pyrite veins crosscut a granular microstructure defined by subhedral pseudomorphs of very fine-grained white mica and interstitial quartz.

Alteration: white mica: strong after feldspar and ferromagnesian minerals; pyrite: weak to moderate; rutile: subtle.

Table 1: List of samples with their magnetic susceptibility and petrographic classification following the recommendations of Gillespie et al. (2011), Gillespie and Styles (1999), and Robertson (1999).

Sample No.	Sample ID	Magnetic Susceptibility (SI $\cdot 10^{-3}$)	Rock Type	Alteration
1	PET 01	0.061	Tonalite	biotite+plagioclase(?)+magnetite: strong after probable hornblende; carbonate: weak after plagioclase; alkali feldspar: weak; pyrite: subtle.
2	PET 02	0.06	Alkali feldspar-biotite-altered tonalite & Quartz-pyrite-molybdenite vein & Clay veinlets	alkali feldspar: moderate; biotite-plagioclase(?)-magnetite: strong after probable amphibole; molybdenite-pyrite: subtle.
3	PET 03	0.153	Alkali feldspar-biotite-altered tonalite & Pyrite-rich veins & Clay veinlets	alkali feldspar: weak to moderate; biotite+quartz: strong after unknown ferromagnesian mineral; earthy and unresolved material: weak to moderate after feldspars; pyrite: weak; rutile: subtle.
4	PET 04	3.36	Alkali feldspar-biotite altered tonalite & White mica-quartz alteration zone (after tonalite?) & Pyrite-quartz vein & Clay-rich vein	white mica: strong after feldspar and ferromagnesian minerals in Domain B; quartz: moderate in Domain B; alkali feldspar-biotite: weak?; pyrite: weak; rutile: subtle.
5	PET 05	9.68	Altered microgranodiorite(?) & Altered quartz-plagioclase-phyric granodiorite(?)	alkali feldspar: moderate; earthy and unresolved (clay?): weak to moderate after plagioclase; pyrite: weak to moderate; chalcopyrite: weak.
6	PET 06	0.065	Pyrite-anhydrite-altered diorite	anhydrite-pyrite: weak; biotite: moderate to strong within the alteration patches; earthy and unresolved material (including alkali feldspar?): weak to moderate after plagioclase; chalcopyrite: subtle.
7	PET 07	4.37	Alkali feldspar-altered dioritic(?) rock	alkali feldspar: strong after the groundmass; moderate to strong after the plagioclase; clay: weak to moderate after feldspars; chlorite: strong after biotite; pyrite: weak.
8	PET 08	0.057	Alkali feldspar-anhydrite-biotite alteration zone	alkali feldspar: strong; biotite-white mica: weak to moderate within irregular patches; anhydrite: weak; pyrite-rutile-chalcopyrite-white mica: subtle.
9	PET 09	2.64	Biotite-alkali feldspar altered granitoid	alkali feldspar: moderate; biotite: weak; clay: weak after plagioclase; magnetite: weak after biotite and dispersed within the granular microstructure.
10	PET 10	0.076	White mica-pyrite altered granitoid & White mica-quartz-pyrite veins	white mica: strong after feldspar and ferromagnesian minerals; pyrite: weak to moderate; rutile: subtle.

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This report consists of 41 pages and is signed by

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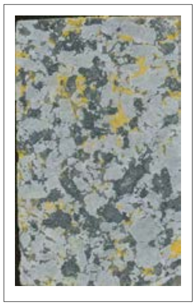
4. Petrographic Descriptions

Sample 1: PET 01



Tonalite

Subhedral to euhedral crystals of plagioclase are associated with anhedral and interstitial crystals of quartz, fine-grained crystals and crystal clusters of biotite, magnetite, and alkali feldspar; all of which define a granular isotropic microstructure.

Alteration: biotite+plagioclase(?)+magnetite: strong after probable hornblende; **carbonate**: weak after plagioclase; **alkali feldspar**: weak; **pyrite**: subtle.

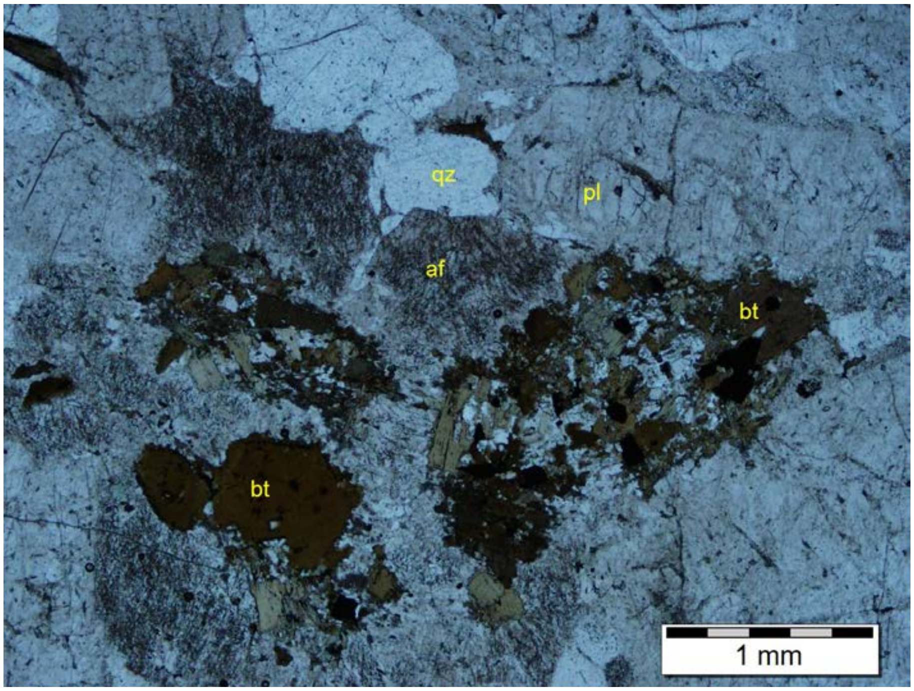
Mineral	*Alteration and Weathering Mineral*	*Modal %*	*Size Range (mm)*
plagioclase		67–70	up to 4 long
quartz		15–17	up to 1.5
[?]	biotite+plagioclase(?)+ magnetite	7–9	[up to 2.5 long]
	alkali feldspar	5–6	up to 0.5
biotite		1.5–2	up to 0.8
magnetite		1.5–2	up to 0.3
	pyrite	tr	up to 0.3

Plagioclase forms subhedral to euhedral crystals (up to 4 mm long). The plagioclase crystals are subtly altered by a very fine-grained dispersion of highly birefringent material (carbonate?) and show Albite twinnings. Some of the crystals show a subhedral growth zoning. The refractive indexes of the plagioclase are lower than those of the quartz, therefore the plagioclase is **albite**. The medium- to coarse-grained crystals are randomly oriented and densely packed, and define a granular isotropic microstructure.
Quartz occurs as fine- to medium-grained anhedral crystals, which occupy the interstitial positions between the plagioclase crystals. In most cases, the quartz shows a moderate undulose extinction.
Biotite forms anhedral lamellae and books (up to 0.8 mm across) and forms fine-grained

lamellae associated with probable plagioclase within anhedral pseudomorphs, which probably replaced a magmatic amphibole. Dispersed within the pseudomorphs, anhedral crystals of magnetite (up to 0.3 mm across) occur.

Alkali feldspar forms irregular replacement patches of fine-grained anhedral crystals occurring within the interstices between the plagioclase and the quartz. In some cases, the alkali feldspar forms interlobate aggregates with the quartz. I interpret the alkali feldspar as an alteration mineral, and probably coeval with the crystallization of the fine-grained biotite after the amphibole.

Magnetite is fine-grained and it is spatially associated with the pseudomorphs of fine-grained biotite and quartz, which I interpret as the late magmatic recrystallization of a probable amphibole.



Photomicrograph 1: Subhedral crystal of plagioclase (pl), interstitial crystals of quartz (qz), and alkali feldspar (af) define a granular microstructure, in which lamellae of biotite and pseudomorphs of biotite-quartz and magnetite are immersed. Plane-polarized transmitted light.

Sample 2: PET 02

Alkali feldspar-biotite-altered tonalite

Quartz-pyrite-molybdenite vein

Clay veinlets

A granular microstructure similar to Sample 1 is defined by subhedral to euhedral crystals of plagioclase, and interstitial quartz, biotite, pseudomorphs of biotite, quartz, and magnetite. In this polished thin section, the granular and isotropic microstructure is crosscut by an up to 8 mm thick vein of quartz-pyrite-molybdenite, and by irregular veinlets of clay.

Alteration: alkali feldspar: moderate; **biotite-plagioclase(?)-magnetite**: strong after probable amphibole; **molybdenite-pyrite**: subtle.

Mineral	***Alteration and Weathering Mineral***	***Modal %***	***Size Range (mm)***
tonalite (~78% of PTS)			
plagioclase		35–37	up to 4 long, rare up to 6 long
quartz		14–15	up to 1.5
	alkali feldspar	12–15	up to 1.2
[?]	biotite+plagioclase(?)+ magnetite	12–15	up to 2.5 long
biotite		2–2.5	up to 1.5
magnetite		0.5–1	up to 0.4
	molybdenite	tr	up to 0.25 long
	pyrite	tr	up to 0.6
clay veinlets (~2% of PTS)			
clay		2	[?]
quartz vein (~20% of PTS)			
quartz		20	up to 1.2 long

Mineral	Alteration and Weathering Mineral	Modal %	Size Range (mm)
pyrite		tr	up to 0.5
molybdenite		tr	up to 0.25 long

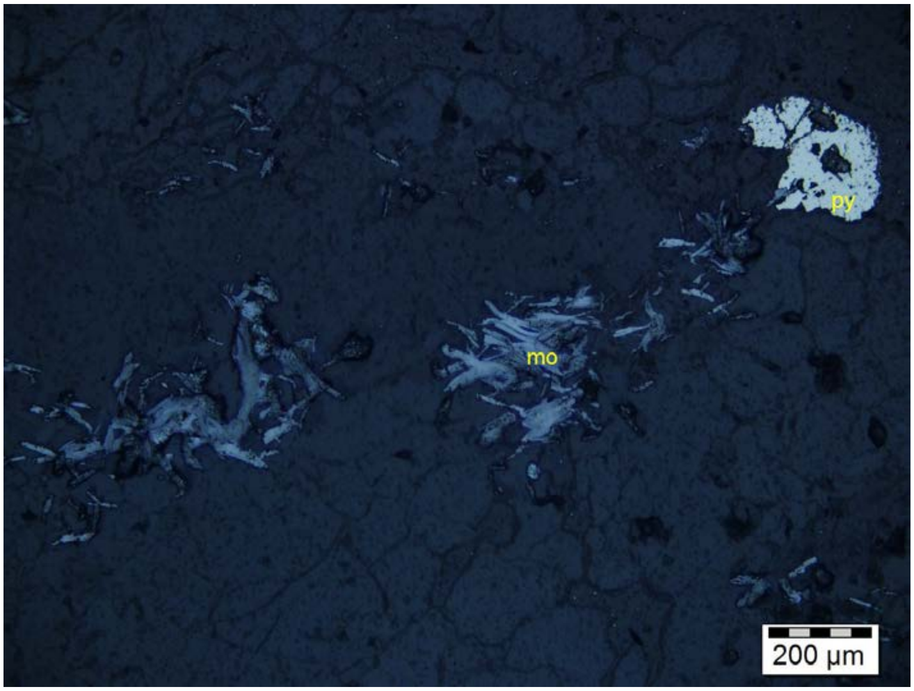
Plagioclase forms subhedral to euhedral crystals (up to 4 mm long and in rare cases up to 6 mm long). The plagioclase crystals are randomly oriented and define a densely packed granular microstructure. The plagioclase crystals show albite twinnings, and are subtly to weakly altered by very fine-grained dispersions of a highly birefringent (carbonate?) mineral.

Quartz forms anhedral and interstitial crystals intergrown with medium-grained biotite, and subhedral to anhedral pseudomorphs of biotite, plagioclase, and magnetite. Inequigranular crystals of quartz filled in an up to 8 mm thick vein, in which are dispersed rare crystals of anhedral pyrite and fine-grained flakes of molybdenite.

Similarly with Sample 1, the **alkali feldspar** forms anhedral and interstitial crystals characterized by a cloudy appearance under plane polarized transmitted light. In most cases, this feature of the alkali feldspar is interpreted as an evidence of the hydrothermal origin of the alkali feldspar. In this case, the blocky nature of most of the crystals may indicate a replacement of pre-existing magmatic alkali feldspar. The occurrence of clusters of fine-grained flakes of molybdenite (Photomicrograph 2a) dispersed near the alkali feldspar support the hypothesis of a hydrothermal origin of the alkali feldspar. The alkali feldspar may have circulated along irregular veinlets, which were later reactivated by **clay**. Now the white powdery relict of the clay is only observed on the off-cut, as it was removed from the thin section during the polishing.

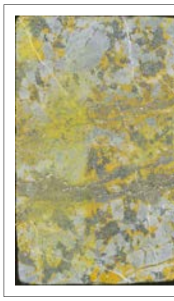
Biotite forms anhedral to subhedral books dispersed within the interstices between the plagioclase, and forms fine-grained flakes within up to 2.5 mm long pseudomorphs. Within these pseudomorphs, the biotite is associated with fine-grained plagioclase and/or quartz and anhedral magnetite, all of which probably replaced a ferromagnesian magmatic mineral (hornblende?).

Fine-grained anhedral crystals of **pyrite** are dispersed within the quartz-rich vein, and the interstitial positions between the plagioclase in the host rock.



Photomicrograph 2: Fine-grained flakes of molybdenite form an irregular cluster dispersed within the quartz and the alkali feldspar between the plagioclase crystals. Plane-polarized reflected light.

Sample 3: PET 03



Alkali feldspar-biotite-altered tonalite

Pyrite-rich veins

Clay veinlets

Euhedral to subhedral crystals of plagioclase are randomly oriented, densely packed, and define a granular microstructure in association with interstitial crystals of quartz, alkali feldspar, biotite, and biotite-rich pseudomorphs. The granular microstructure is crosscut by sub-parallel veins of pyrite.

Alteration: alkali feldspar: weak to moderate; **biotite+quartz**: strong after unknown ferromagnesian mineral; **earthy and unresolved material**: weak to moderate after feldspars; **pyrite**: weak; **rutile**: subtle.

Mineral	*Alteration and Weathering Mineral*	*Modal %*	*Size Range (mm)*
tonalite (~89% of PTS)			
plagioclase	earthy and unresolved	52–54	up to 4 long
quartz		15–17	up to 1.2
	alkali feldspar	10–15	up to 1
alkali feldspar	earthy and unresolved	5–7	up to 1
[?]	biotite+quartz±pyrite	2–3	[up to 2.5 long]
biotite		2–3	up to 1.5 long
	pyrite	tr	up to 1
	rutile	tr	up to 0.05
pyrite-rich veins (~10% of PTS)			
pyrite		7	massive
alkali feldspar		2	up to 0.5
quartz		1	up to 0.5
clay veinlets (~1% of PTS)			
clay		1	[?]

Plagioclase forms subhedral to euhedral crystals (up to 4 mm long), which are randomly oriented and define a densely packed granular microstructure. The plagioclase crystals show albite twinnings, and are weakly to moderately altered by a very fine-grained dispersions of unresolved and earthy material.

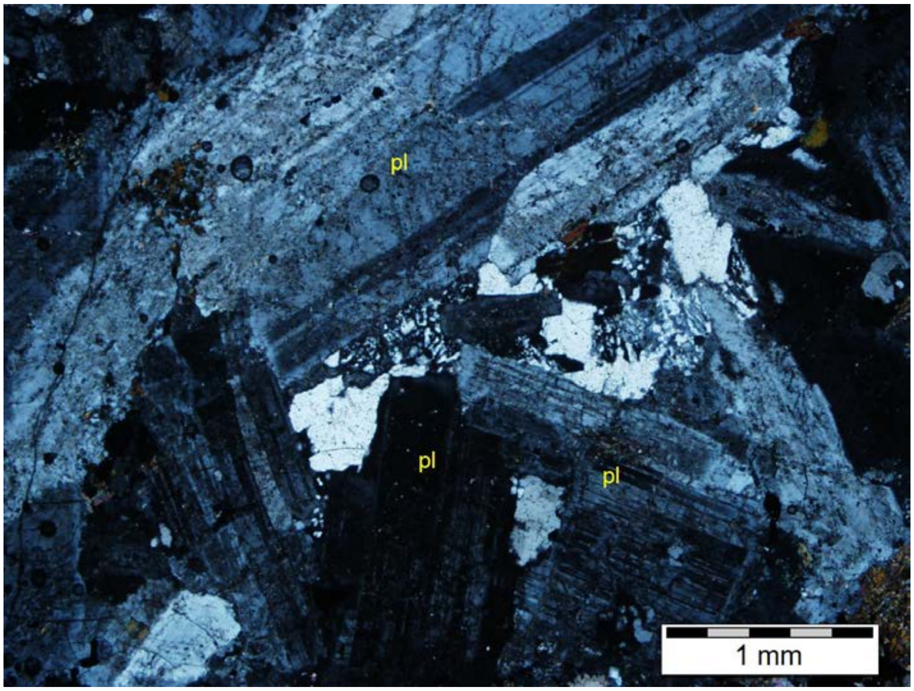
Quartz forms anhedral to interstitial crystals occupying the interstices between the coarser-grained crystals of plagioclase. In some cases (Photomicrographs 3a, 3b, 3c, and 3d) the quartz is intergrown with the alkali feldspar and define interstitial granophyric microstructures, thus indicating that the crystallization of the quartz, and of some of the alkali feldspar occurred during the latest stages of the magmatic crystallization.

Alkali feldspar forms interstitial and anhedral crystals, which in some cases define granophyric intergrowths with the quartz (Photomicrographs 3a, 3b, 3c, and 3d). The alkali feldspar filled in, in association with subordinate quartz, the pyrite-rich veins, and occurs along the irregular selvages of the vein. The microstructures observed in this polished thin section, indicate that the alkali feldspar crystallized during the late stages of the magmatic crystallization and continued during the emplacement of the veins.

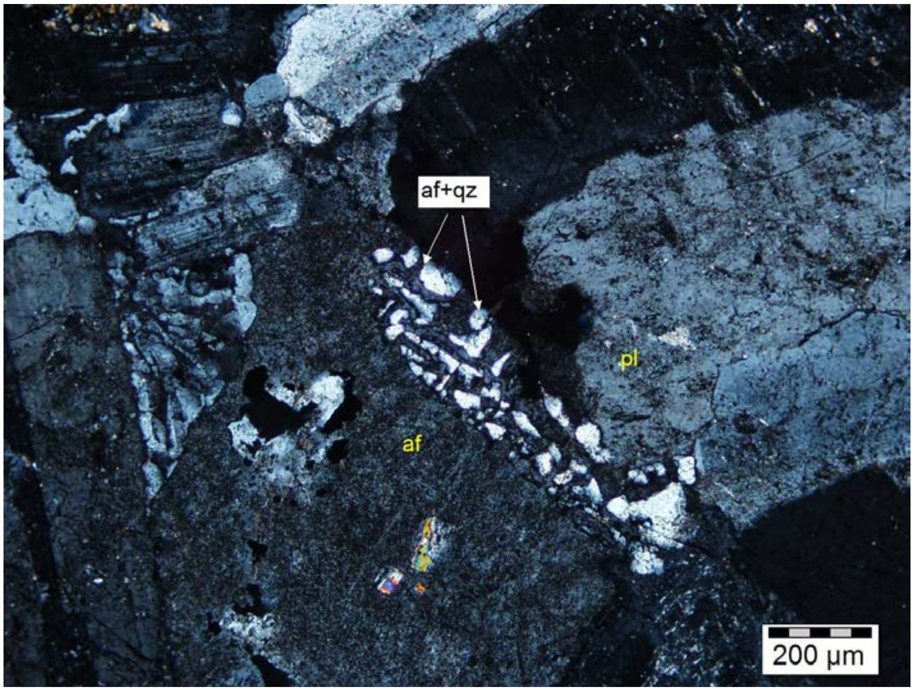
Biotite occurs as fine- to medium-grained lamellae (up to 1.5 mm long) and books dispersed within the interstitial positions between the plagioclase, and it forms up to 2.5 mm long pseudomorphs, in which its fine-grained and randomly oriented flakes are intergrown with the quartz and probably replaced a magmatic ferromagnesian mineral (amphibole?).

Pyrite is concentrated within sub-parallel veins (up to 2.5 mm thick), in which it is fractured and intergrown with subordinate alkali feldspar and quartz. Up to 1.2 mm long anhedral crystals of pyrite are dispersed within the host rock. In some cases, the pyrite crystals occur within the biotite-quartz pseudomorphs, and in general show a spatial association with the biotite.

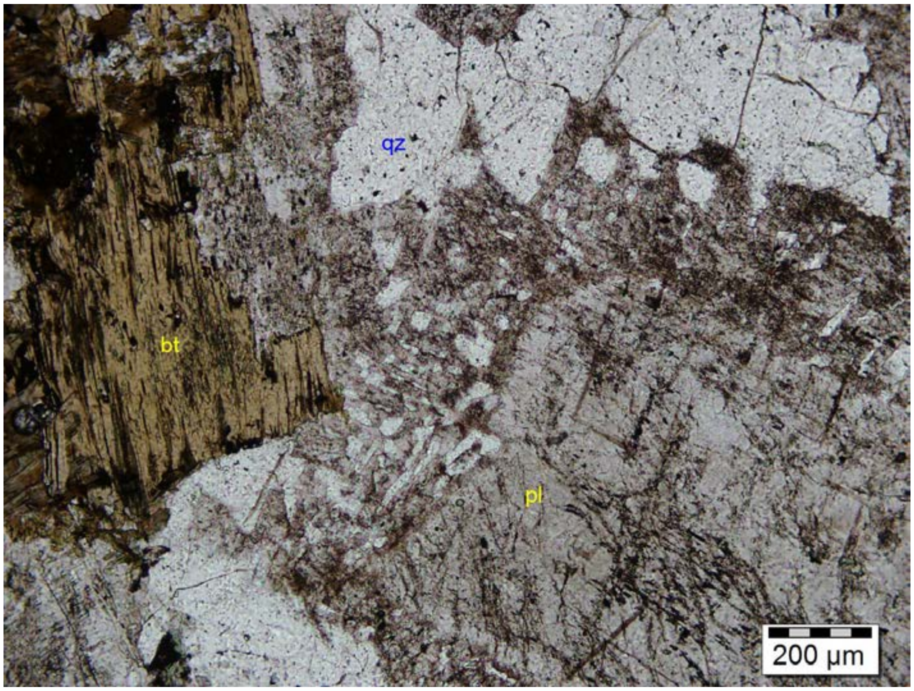
Clay-rich veinlets crosscut at high angles the sub-parallel veinlets; however, their occurrence is only observed in the billet. In the polished thin section, the content of the veinlets was removed during the polishing of the section.



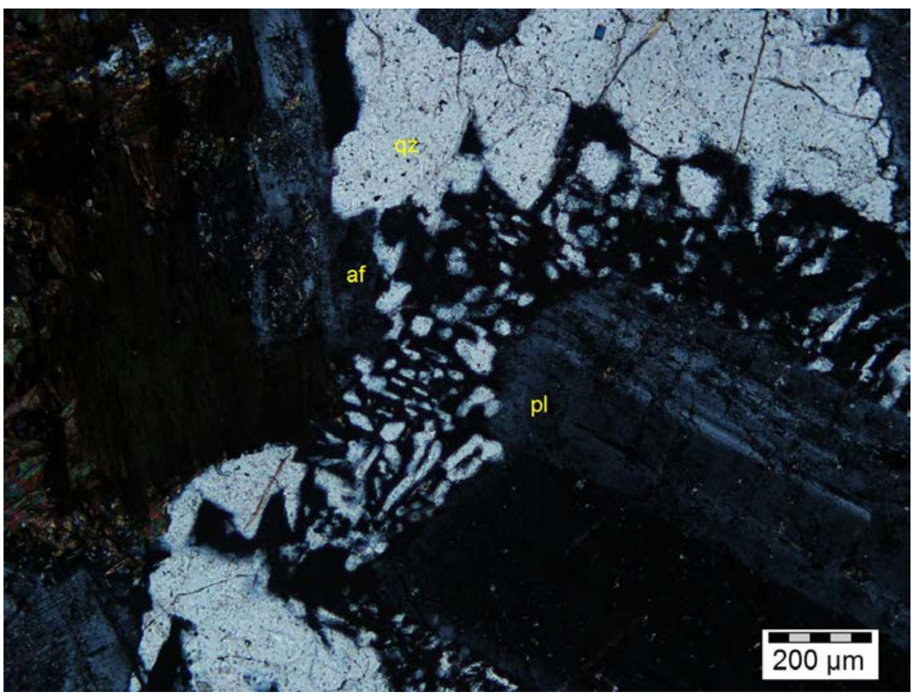
Photomicrograph 3a: Subhedral crystals of plagioclase (pl) are densely packed and their interstices are occupied by anhedral crystals and granophyric aggregate of quartz (white) and alkali feldspar. Crossed Nicols transmitted light.



Photomicrograph 3b: The alkali feldspar and the quartz (af+qz) define granophyric and interstitial intergrowths. Crossed Nicols transmitted light.

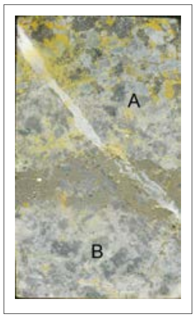


Photomicrograph 3c: Subhedral crystals of plagioclase (pl) and biotite are randomly oriented and define an isotropic and granular microstructure. Plane-polarized transmitted light.



Photomicrograph 3d: Same area as shown in Photomicrograph 3c. The interstitial positions between the plagioclase and the biotite are occupied by granophyric intergrowths of quartz (qz) and alkali feldspar (af). Crossed Nicols transmitted light.

Sample 4: PET 04



Alkali feldspar-biotite altered tonalite

White mica-quartz alteration zone (after tonalite?)

Pyrite-quartz vein

Clay-rich vein

This polished thin section, consists of two different domains. In the upper part, euhedral to subhedral crystals of plagioclase are randomly oriented and immersed within finer-grained crystals of quartz, alkali feldspar, and biotite (Domain A). In the lower part, irregularly shaped alteromorphs of white mica are associated with anhedral crystals of quartz. The two domains are crosscut by an irregular and up to 6 mm thick pyrite-rich vein, and a clay-rich vein.

Alteration: white mica: strong after feldspar and ferromagnesian minerals in Domain B; **quartz**: moderate in Domain B; **alkali feldspar-biotite**: weak?; **pyrite**: weak; **rutile**: subtle.

Mineral	*Alteration and Weathering Mineral*	*Modal %*	*Size Range (mm)*
Domain A: altered tonalite (~48% of PTS)			
plagioclase	earthy and unresolved	27–29	up to 6 long
quartz		8–9	up to 2 long
	alkali feldspar	5–6	up to 1
alkali feldspar	earthy and unresolved	2.5–3	up to 1
[?]	biotite+quartz±pyrite	1–1.5	[up to 2.5 long]
biotite		1–1.5	up to 1.5 long
	pyrite	0.5	up to 0.7
	rutile	tr	up to 0.05
	chalcopyrite	tr	up to 0.02
Domain B: alteration zone (~35% of PTS)			
[plagioclase?]	white mica	18–19	up to 0.25

Mineral	***Alteration and Weathering Mineral***	***Modal %***	***Size Range (mm)***
quartz	quartz	14–16	up to 3 long
	pyrite	2–2.5	up to 1.5 long
	rutile	tr	up to 0.05
pyrite-rich veins (~15% of PTS)			
pyrite		12	massive
quartz		3	up to 4
clay veinlets (~2% of PTS)			
clay		2	[?]

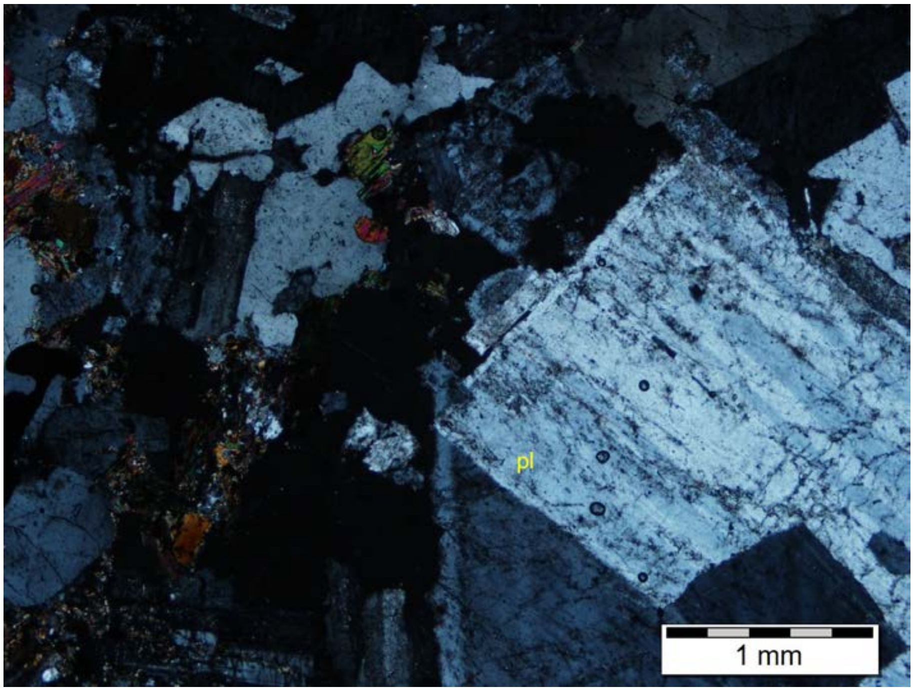
Plagioclase forms subhedral to euhedral crystals (up to 6 mm long) in Domain A. In this domain, the plagioclase is subtly to weakly altered by very fine-grained and unresolved material, and show Albite twinnings. The plagioclase crystals are randomly oriented and define a densely packed microstructure similar to the one described in Sample 3. In Domain B,

White mica forms irregular alteromorphs, which I interpret as having completely replaced the plagioclase, the alkali feldspar and the ferromagnesian minerals. The white mica-rich alteration post-dated the alkali feldspar-biotite alteration still occurring in Domain A, and probably occurred on the same rock type; however, the strong alteration does not allow me to confirm this hypothesis under the microscope.

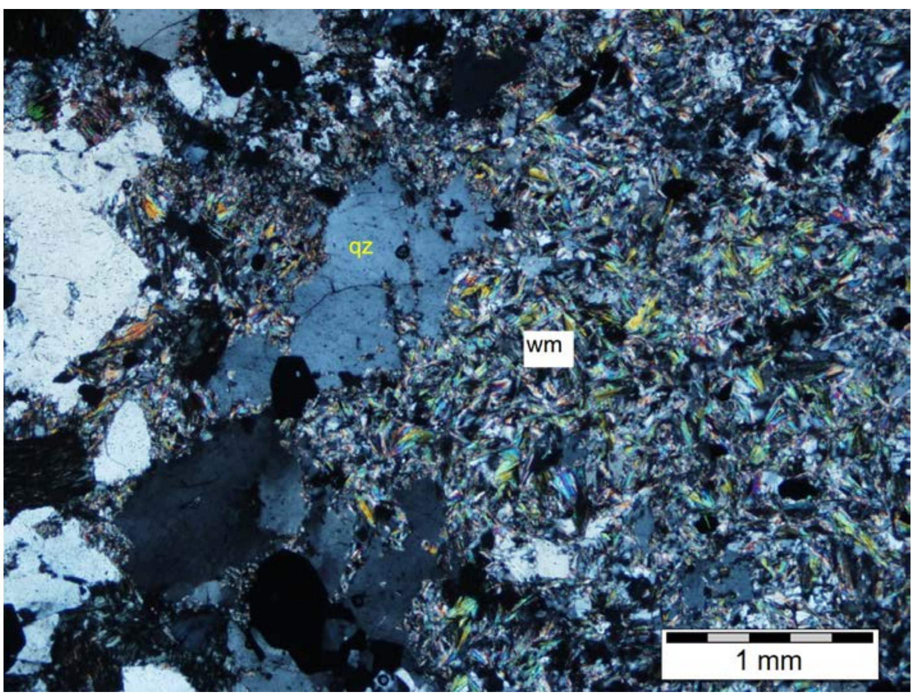
Quartz forms anhedral interstitial crystals occupying the interstices between the plagioclase in Domain A, and forms anhedral crystals that I interpret as having at least in part recrystallized during the strong white mica-rich alteration event. Within Domain A, the quartz forms rare granophyric aggregates with the subordinate **alkali feldspar**, thus indicating the magmatic origin of these two minerals in this domain.

Pyrite filled in a 6 mm thick irregular vein as a massive and fractured domain, and it is dispersed within Domain A and B as anhedral crystals.

Similarly to Sample 3. the **clay**-rich vein was completely destroyed during the preparation of this polished thin section, and I can only describe the white colour of the clay material observed on the billet (see image above).



Photomicrograph 4a: Domain A—A euhedral crystal of plagioclase is immersed within a finer-grained groundmass of plagioclase, alkali feldspar and biotite. Crossed Nicols transmitted light.



Photomicrograph 4b: Domain B—Fine-grained white mica (wm) completely replaced feldspars and ferromagnesian minerals and is intergrown with anhedral crystals of quartz (qz). Crossed Nicols transmitted light.

Sample 5: PET 05

Altered microgranodiorite(?)

Altered quartz-plagioclase-phyric granodiorite(?)

This heterogeneous polished thin section is made up of two main domains. In the upper part (Domain A) a medium-grained anhedral aggregate of plagioclase and subordinate biotite, and quartz are overprinted by fine-grained alkali feldspar-rich clusters. In the middle and lower part (Domain B), subhedral phenocrystals of plagioclase and embayed phenocrystals of quartz are immersed within a groundmass of plagioclase and subordinate biotite and quartz. A fine-grained alkali feldspar rich aggregate heterogeneously overprinted the groundmass.

Alteration: alkali feldspar: moderate; **earthy and unresolved (clay?)**: weak to moderate after plagioclase; **pyrite**: weak to moderate; **chalcopyrite**: weak.

Mineral	***Alteration and Weathering Mineral***	***Modal %***	***Size Range (mm)***
Domain A (~25% of PTS) microquartz-diorite(?)			
plagioclase	earthy and unresolved	10–11	up to 1 long
quartz		6–7	up to 0.2
	alkali feldspar	4–5	up to 0.2
biotite		3.5–5	up to 0.5 long
	pyrite	0.1–0.2	up to 0.5
	chalcopyrite	tr	up to 0.02
Domain B (~75% of PTS) granodiorite			
phenocrystals			
plagioclase	earthy and unresolved	12–17	up to 5
quartz		8–12	up to 6
groundmass			
plagioclase	earthy and unresolved	23–24	up to 0.2
	alkali feldspar	13–14	up to 0.05

Mineral	Alteration and Weathering Mineral	Modal %	Size Range (mm)
	pyrite	8–9	
	carbonate	5–6	up to 2
	chalcopyrite	3–4	
biotite		1.5–2	up to 1

Plagioclase forms subhedral phenocrystals in Domain B. The phenocrystals (up to 5 mm long) are randomly oriented and define a porphyritic microstructure in this domain. The groundmass in which they are immersed, is made up of fine-grained anhedral crystals of plagioclase, biotite, and heterogeneously dispersed sulphides and alkali feldspar. Within Domain A, the plagioclase id medium-grained (up to 0.6 mm long) anhedral, and it is intergrown with subordinate biotite, and quartz.

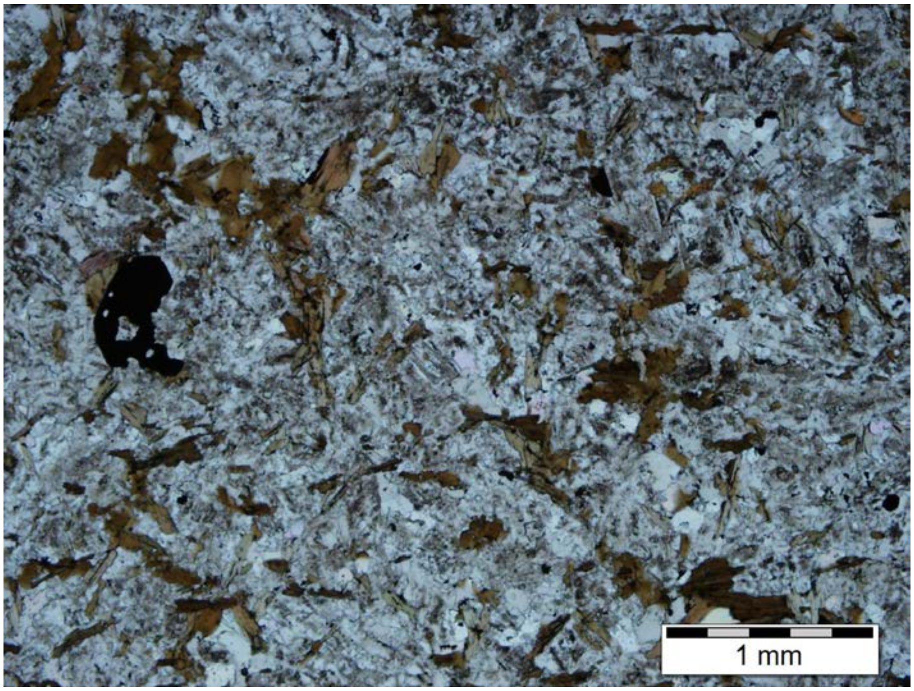
Quartz forms embayed phenocrystals (up to 6 mm in diameter in the billet, up to 2 mm in diameter in the polished thin section). The quartz is subordinate to the plagioclase and the biotite in Domain B.

Biotite forms anhedral lamellae within both domains, and in both domains it is randomly oriented. The biotite is up to 0.5 mm long in Domain A, and it is up to 1 mm long in Domain B.

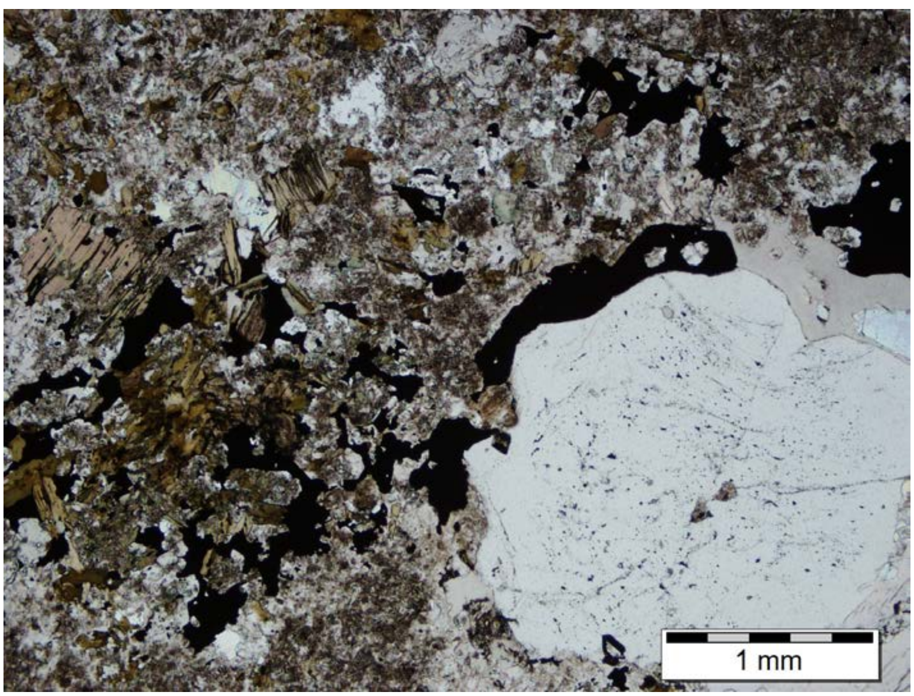
Alkali feldspar forms irregular clusters heterogeneously overprinting both domains. Within these clusters it is fine-grained anhedral and it is intergrown with varying amounts of quartz and sulphides.

Pyrite forms anhedral and poikilitic crystals (up to 2.5 mm across, and rare up to 4 mm long), which are heterogeneously dispersed within the two domains. I interpret the crystallization of the pyrite and chalcopyrite as coeval with the crystallization of the alkali feldspar.

Chalcopyrite is subordinate and spatially associated to the pyrite within Domain B. It is rare and very fine-grained in Domain A.



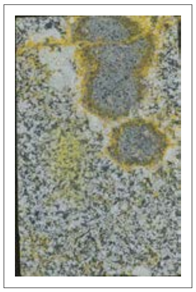
Photomicrograph 5a: A medium-grained anhedral aggregate of plagioclase (white and earthy), biotite (brown) and quartz (white) define a medium-grained anhedral microstructure in Domain A. Plane-polarized transmitted light.



Photomicrograph 5b: Domain B—Poikiloblastic crystals of pyrite and subordinate chalcopyrite overprinted the porphyritic rock. Plane-polarized reflected light.
Photomicrograph 5c: Domain B—An anhedral phenocrystal of quartz is surrounded by pyrite and it is immersed within a medium-grained groundmass of plagioclase, biotite, and heterogeneously

dispersed alkali feldspar. Plane-polarized transmitted light.

Sample 6: PET 06



Pyrite-anhydrite-altered diorite

Medium-grained subhedral to anhedral crystals of plagioclase and randomly oriented lamellae of biotite define an isotropic and granular microstructure. Sub-rounded patches with increased amount of fine-grained biotite overprinted the isotropic microstructure. The patches are surrounded by alkali feldspar rims and plagioclase rims (see image of the billet on the right). A discontinuous and up to 0.6 mm thick veinlet is filled in by anhydrite, and sparse crystals of molybdenite and pyrite.

Alteration: anhydrite-pyrite: weak; **biotite**: moderate to strong within the alteration patches; **earthy and unresolved material (including alkali feldspar?)**: weak to moderate after plagioclase; **chalcopyrite**: subtle.

Mineral	***Alteration and Weathering Mineral***	***Modal %***	***Size Range (mm)***
diorite (~99% of PTS)			
plagioclase		60–62	up to 0.7
biotite		12–14	up to 0.7
quartz		8–10	up to 0.1
	anhydrite(?)	7–8	up to 0.3
	pyrite	6–8	up to 1.2
	biotite	3–5	up to 0.2
	alkali feldspar	1–1.2	up to 0.5
	chalcopyrite	tr	up to 0.05
anhydrite-molybdenite veinlet			
anhydrite		1	up to 0.8
pyrite		tr	up to 0.3
molybdenite		tr	

Plagioclase forms subhedral to anhedral crystals (up to 0.7 mm across), which are randomly oriented and define a granular microstructure. The plagioclase shows albite twinnings and is weakly altered by a very fine-grained dispersion of an unresolved and earthy material. The plagioclase within the sub-rounded patches seems to show a slightly finer-grain size of the host rock. Medium-grained anhedral crystals of plagioclase form an irregular rim around the alteration patches. This concentration of plagioclase, likely of magmatic origin, suggests that the alteration patches overprinted sub-rounded xenoliths.

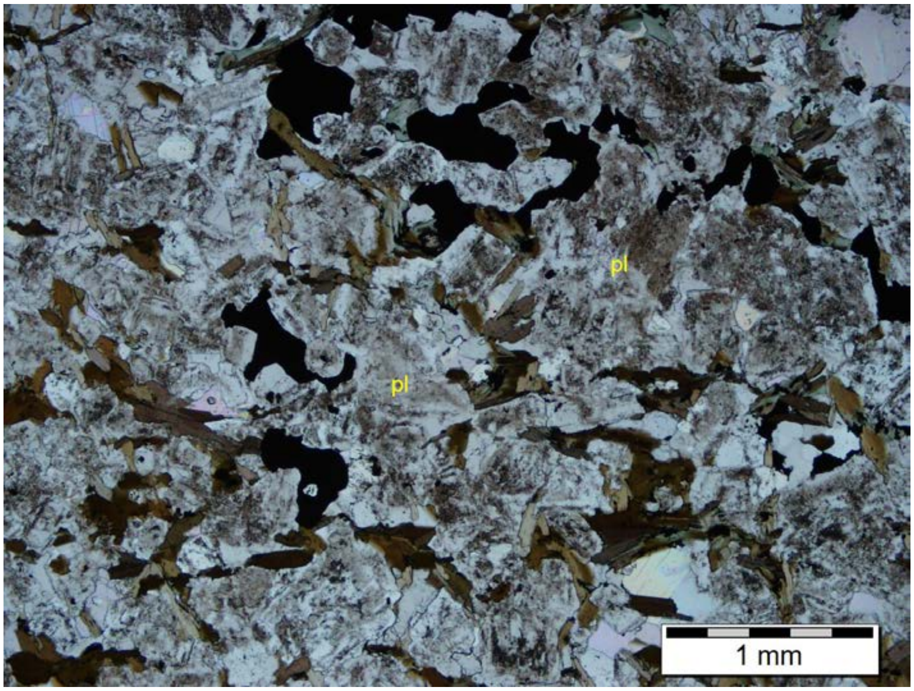
Biotite occurs as randomly oriented lamellae (up to 0.7 mm long) occupying the interstices between the plagioclase crystals. Fine-grained flakes of biotite are concentrated within sub-rounded domains (Photomicrograph 6b). These domains are defined by the abundant fine-grained biotite, and the more intense very fine-grained alteration of the plagioclase impart the darker colour observed in the image of the billet above.

Quartz forms fine-grained anhedral crystals occupying the interstices between the plagioclase and the biotite, and it is easily distinguished from the plagioclase by its transparency and absence of alteration products in its crystals.

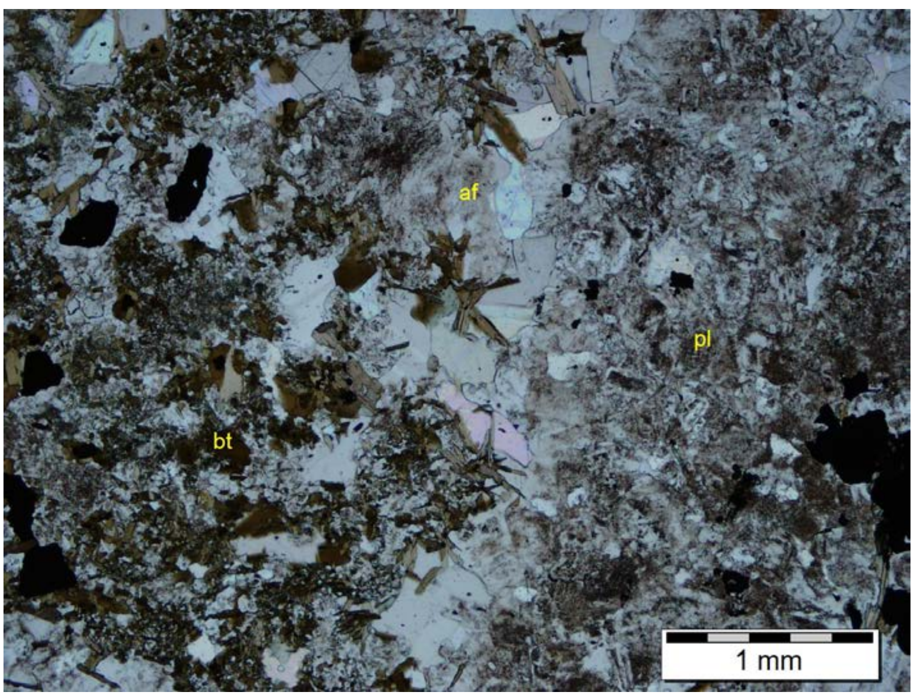
Anhydrite forms fine- to medium-grained crystals, which are spatially associated with the biotite crystals, and occupy the interstices between the plagioclase. Anhedral crystals of anhydrite are concentrated within an irregular veinlet and hosts sparse flakes of fine-grained **molybdenite** (Photomicrograph 6c).

Alkali feldspar is fine-grained and it is concentrated around the sub-rounded alteration patches. The distribution of the alkali feldspar is shown in the image of the stained billet above, where the alkali feldspar is stained yellow.

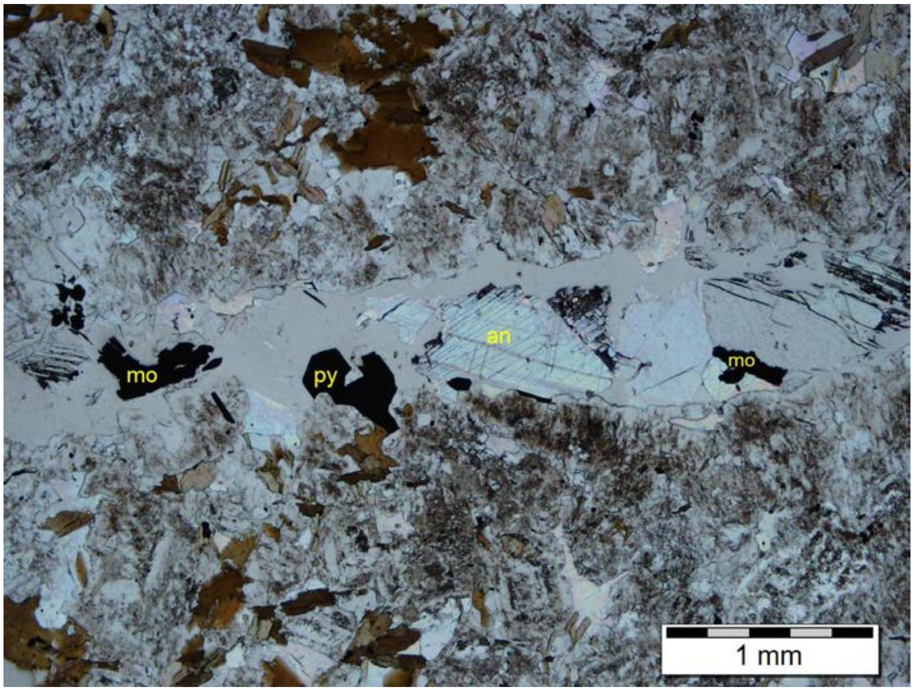
Pyrite forms anhedral crystals dispersed within the granular microstructure of the host rock, within the alteration patches, and it forms rare subhedral crystals dispersed within the anhydrous-rich veinlet (Photomicrograph 6c).



Photomicrograph 6a: Medium-grained crystals of plagioclase (pl) are weakly altered and prevail over randomly oriented biotite (brown), and interstitial quartz. Anhedral pyrite (opaque) overprinted the interstices between the plagioclase crystals. Plane-polarized transmitted light.



Photomicrograph 6b: Fine-grained flakes of biotite overprinted a probable xenolith in the left of this photomicrograph. A thin domain of alkali feldspar rims the xenoliths and is surrounded by medium-grained plagioclase (pl). Plane-polarized transmitted light.



Photomicrograph 6c: Within a discontinuous veinlet, anhedral crystals of anhydrite (an) are associated with sparse crystals of molybdenite (mo) and pyrite (py). Plane-polarized transmitted light.

Sample 7: PET 07

Alkali feldspar-altered dioritic(?) rock

Most of this polished thin section is made up of moderately to strongly altered crystals of plagioclase. In the upper part, the plagioclase forms euhedral crystals immersed within an alkali feldspar-altered groundmass. In the central and lower part, the plagioclase is strongly altered by alkali feldspar and forms irregular crystal relicts. This polished thin section is crosscut by an irregular and fine-grained vein of quartz.

Alteration: alkali feldspar: strong after the groundmass; moderate to strong after the plagioclase; clay: weak to moderate after feldspars; **chlorite**: strong after biotite; **pyrite**: weak.

Mineral	***Alteration and Weathering Mineral***	***Modal %***	***Size Range (mm)***
plagioclase-phyric granitoid (~98% of PTS)			
	alkali feldspar	50–55	up to 1
plagioclase	alkali feldspar-clay	25–27	up to 4
quartz		16–18	up to 1.5 long
	pyrite	5–6	up to 1
[biotite]	chlorite-rutile	0.5–0.6	[up to 3 long]
zircon		tr	up to 0.01
quartz-pyrite-molybdenite vein (~2% of PTS)			
quartz		2	up to 0.5
pyrite		tr	up to 1 long
molybdenite		tr	up to 0.1

Plagioclase forms euhedral phenocrystals (up to 4 mm long) in the upper part of this polished thin section. In this part, the plagioclase crystals are weakly to moderately altered by clay, as indicated by the earthy and unresolved material observed under the microscope, where it shows Albite twinnings (see Photomicrograph 7a), and are white in the stained billet above. In the central and lower part, the plagioclase is moderately to strongly overprinted by alkali feldspar (Photomicrograph 7b), and forms anhedral relicts within a cloudy and earthy replacement aggregate dominated by alkali feldspar.

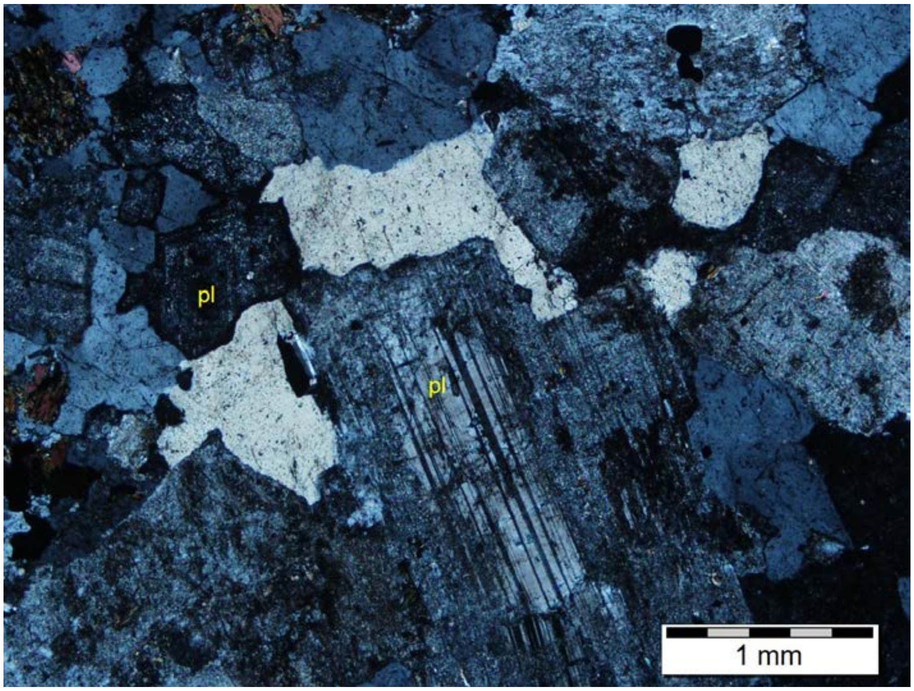
Alkali feldspar forms fine-grained anhedral and earthy crystals overprinting the groundmass, and in some cases the plagioclase. I interpret the alkali feldspar as an alteration mineral; however, in this polished thin section it is not possible to determine or interpret if some of the alkali feldspar is of primary origin, therefore I interpret this rock as a granitoid.

Quartz forms anhedral crystals (up to 1.5 mm long), which in some cases wrap the euhedral to subhedral crystals of plagioclase and the alkali feldspar-rich pseudomorphs after plagioclase. The quartz crystals are homogeneously dispersed within the granular microstructure and are probably of magmatic origin. The quartz forms fine-grained crystals within an irregular vein crosscutting the altered host rock in the lower part of this polished thin section.

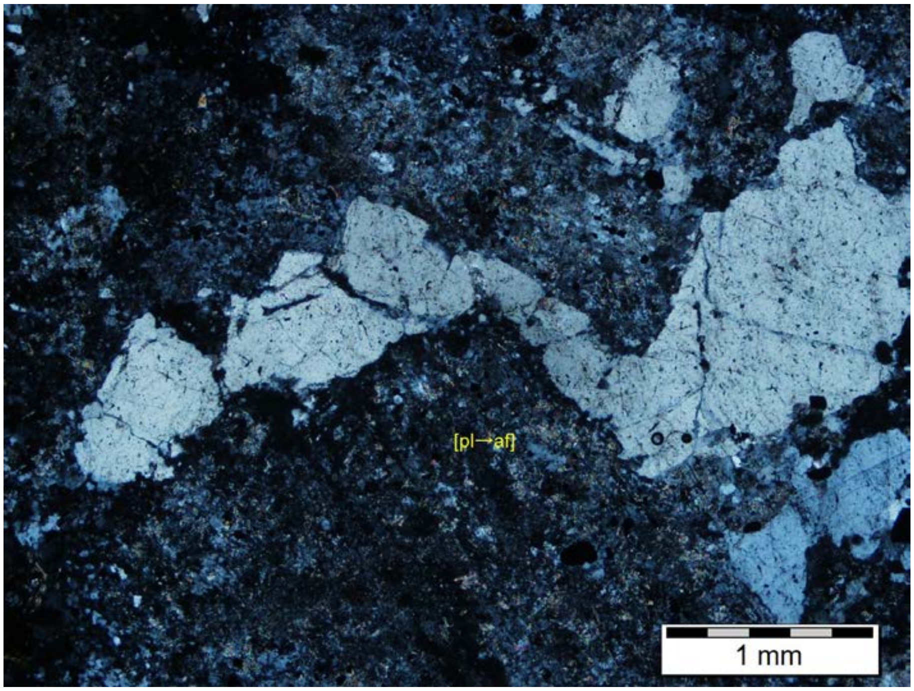
Pyrite is dispersed within the host rock and the vein as anhedral crystals (up to 1 mm across). The pyrite crystals are relatively homogeneously dispersed and I interpret their crystallization as coeval with the alkali feldspar alteration event. Rare and very fine- to fine-grained crystals of chalcopyrite are hosted within the pyrite crystals.

Rare and fine-grained **molybdenite** (up to 0.1 long) are concentrated along the quartz-rich vein walls.

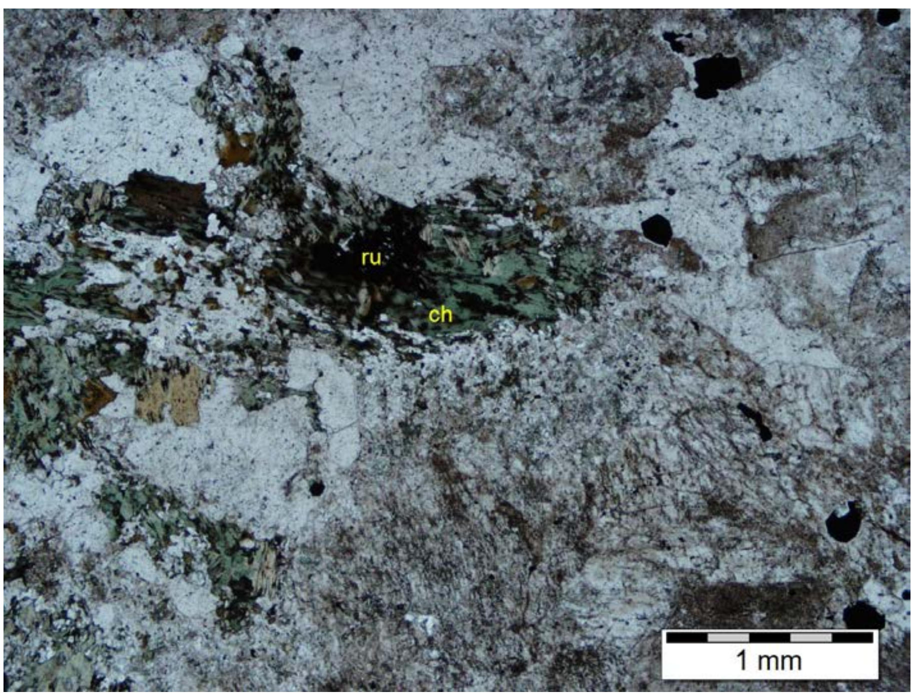
Rare radial aggregates of **chlorite** occur along the quartz vein and form irregular clusters (probably after biotite?) in association with fine-grained quartz and subordinate pyrite.



Photomicrograph 7a: Subhedral crystals of plagioclase (pl) show Albite twinnings and are surrounded by interstitial quartz. Plane polarized transmitted light.



Photomicrograph 7b: Subhedral crystals of plagioclase [pl→af] are strongly altered by alkali feldspar and earthy aggregate, and are surrounded by interstitial quartz. Crossed Nicols transmitted light.



Photomicrograph 7b: Anhedral pseudomorphs of chlorite (ch) and rutile (ru) completely replaced magmatic crystals of biotite, and are immersed within the granular aggregate of alkali feldspar, plagioclase, and quartz. Plane polarized transmitted light.

Sample 8: PET 08

Alkali feldspar-anhydrite-biotite alteration zone

Fine-grained anhedral crystals of alkali feldspar dominate the composition of this strongly altered rock and are intergrown with anhedral crystals of anhydrite. The granular alteration zone hosts irregularly shaped alteration patches of fine-grained biotite.

Alteration: alkali feldspar: strong; **biotite-white mica**: weak to moderate within irregular patches; **anhydrite**: weak; **pyrite-rutile-chalcopyrite-white mica**: subtle.

Mineral	*Alteration and Weathering Mineral*	*Modal %*	*Size Range (mm)*
	alkali feldspar	83–85	0.1–1.2
	biotite	7–9	up to 0.4
	anhydrite	5–6	up to 1.5 long
plagioclase		3–4	up to 4
	pyrite	0.1–0.2	up to 0.1
	rutile	tr	up to 0.02
	chalcopyrite	tr	up to 0.3
	molybdenite	tr	up to 0.2

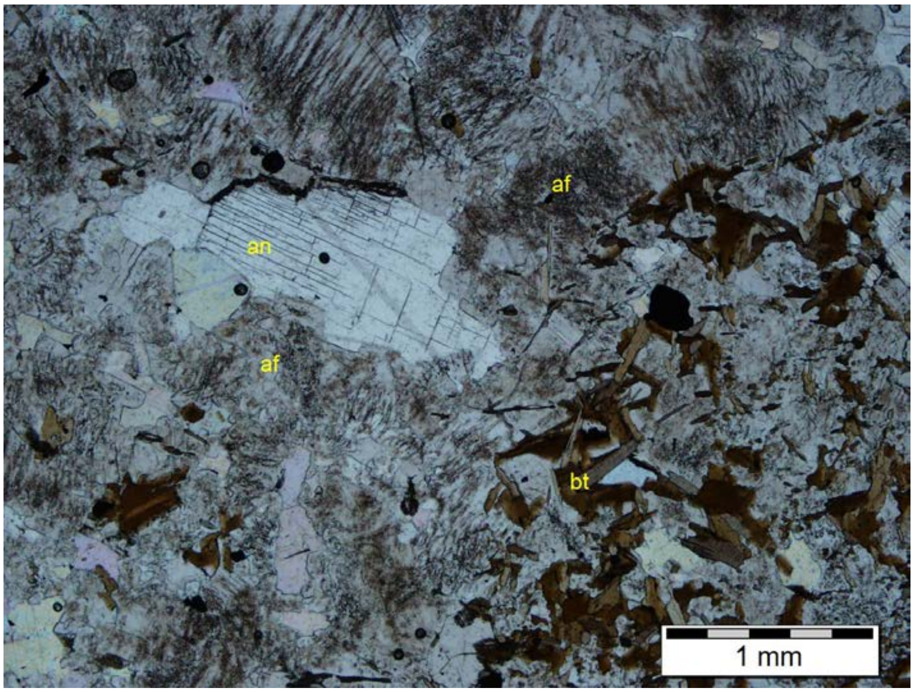
Alkali feldspar forms inequigranular anhedral crystals ranging from 0.1 mm up to 1.2 mm across. The alkali feldspar crystals host very fine-grained earthy and unresolved material (clay?), which impart a cloudy appearance under plane polarized transmitted light. I interpret the abundant alkali feldspar as an alteration product.

Anhydrite forms anhedral inequigranular (0.1–1.5 mm) crystals dispersed within the prevailing alkali feldspar, and concentrated within irregular veinlets, and irregular infill domains. The anhydrite is distinguished by its three cleavage systems and high birefringence colours.

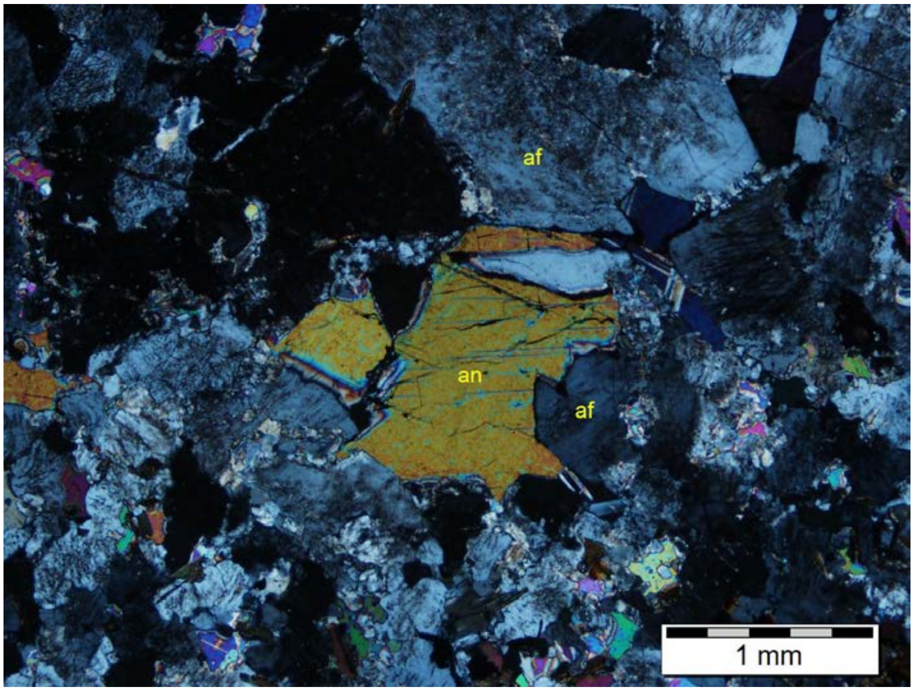
Biotite forms fine- to medium-grained lamellae, which are randomly oriented and are concentrated within irregular alteration patches. These alteration patches can be distinguished as darker domains in the image of the stained billet above. In the alteration patches, the biotite is intergrown with alkali feldspar and very fine-grained **white mica**. I tentatively interpret the alteration patches as the more altered equivalent of the patches described in Sample 6 (see and compare Photomicrograph 8a, and Photomicrograph 6b).

Rare crystals of **plagioclase** are dispersed and form anhedral relicts from the magmatic protolith, probably a plagioclase-phyric granitoid or dioritic rock.

Pyrite is fine-grained and it is dispersed within the strongly altered granular aggregate, and it is dispersed within the anhydrite-rich veinlets.



Photomicrograph 8a: Anhedral crystals of alkali feldspar (af) and anhydrite define a granular aggregate, which hosts irregular patches of fine-grained and randomly oriented flakes of biotite (bt). Plane-polarized transmitted light.



Photomicrograph 8b: Anhedral crystals of alkali feldspar (af) and anhydrite define a granular aggregate dominating the composition of this alteration zone. Crossed Nicols transmitted light.

Sample 9: PET 09

Biotite-alkali feldspar altered granitoid

An 8 mm thick quartz-anhydrite-pyrte-chalcopyrite-molybdenite vein crosscut a granular microstructure defined by euhedral to subhedral crystals of plagioclase, anhedral crystals of quartz, biotite, and alkali feldspar.

Alteration: alkali feldspar: moderate; **biotite**: weak; clay: weak after plagioclase; **magnetite**: weak after biotite and dispersed within the granular microstructure.

Mineral	*Alteration and Weathering Mineral*	*Modal %*	*Size Range (mm)*
granitoid (~85% of PTS)			
plagioclase	clay(?)	41–43	up to 4 long
quartz		15–17	up to 1.5
[?]	biotite-chlorite-magnetite	13–15	[up to 2.5 long]
alkali feldspar(?)	alkali feldspar	8–10	up to 1.5 long
biotite	biotite	6–8	up to 0.7
	magnetite	0.1–0.2	up to 0.5
quartz-anhydrite-pyrte-chalcopyrite-molybdenite vein (~15% of PTS)			
quartz		13–14	up to 2.5
anhydrite		1–2	up to 1.5 long
pyrite		0.5–0.6	up to 4 long
chalcopyrite		0.2–0.3	up to 2 long
molybdenite		tr	up to 0.8 long

Plagioclase forms medium- to coarse-grained euhedral to subhedral crystals (up to 4 mm long), which are randomly oriented and define a granular microstructure in this polished thin section. the plagioclase are weakly altered and host very fine-grained and unresolved material that I interpret as clay because of the white colour shown by the plagioclase on the billet (see image of the billet above). Under the microscope, most of the crystals show albite twinnings.

Quartz occurs as anhedral crystals occupying, together with subordinate crystals of biotite and alkali feldspar, the interstitial positions between the plagioclase. Medium-grained interlobate crystals of quartz are concentrated within a sub-tabular and ~7 mm thick vein crosscutting the granular host rock.

Biotite forms sparse medium-grained and subhedral crystals (up to 0.7 mm across). The subhedral crystals are equant and tend to form book-like crystals. I interpret these medium-grained crystals as crystallized during the magmatic phase. Fine-grained flakes of biotite form irregular clusters dispersed around the medium-grained crystals of biotite and within the interstitial positions between the plagioclase. I interpret the fine-grained flakes of biotite as alteration product coeval with the crystallization of alkali feldspar. In some cases, the fine-grained flakes of biotite, define anhedral pseudomorphs with chlorite and fine-grained crystals of magnetite. I interpret these pseudomorphs as alteration products after probable **amphibole(?)**.

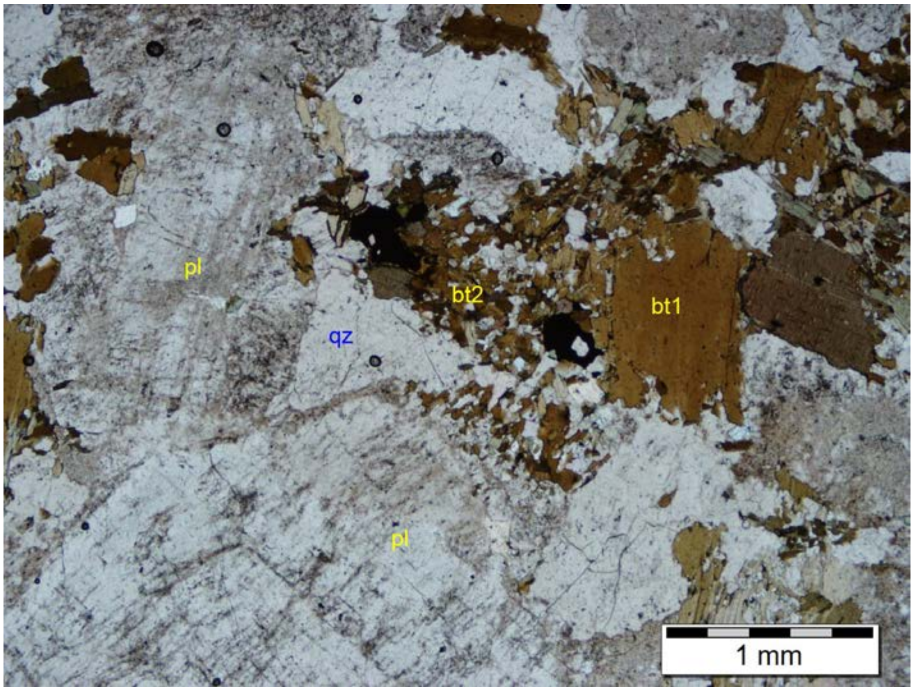
Alkali feldspar forms anhedral to interstitial crystals (up to 1.5 mm long), which are heterogeneously dispersed within the interstices between the plagioclase. The distribution of the plagioclase can be observed (as yellow crystals) in the image of the stained billet above. The heterogeneous distribution and the concentration along the vein walls of the alkali feldspar crystals suggest that the alkali feldspar crystallized mostly, if not entirely, during the post-magmatic alteration phase.

Medium-grained anhedral crystals of **anhydrite** (up to 1.5 long) are concentrated along the median zone of the vein.

Fine-grained and subordinate crystals of **pyrite** are sparsely intergrown with the quartz and the anhydrite along the median zone of the vein. One anhedral and 4 mm long crystal of pyrite occur along the vein wall.

Chalcopyrite forms anhedral to amoeboid crystals along the vein wall and are heterogeneously dispersed within the quartz-rich vein.

Molybdenite is very rare and forms fine-grained lamellae (up to 0.8 mm long) intergrown with the anhydrite in the median zone of the quartz vein.



Photomicrograph 9: Two generations of biotite occur in the host rock. A medium-grained magmatic biotite (bt1), and fine-grained biotite (bt2), which was generated during the post-magmatic alteration stage. Plane-polarized transmitted light.

Sample 10: PET 10

White mica-pyrite altered granitoid

White mica-quartz-pyrite veins

Irregular white mica-quartz-pyrite veins crosscut a granular microstructure defined by subhedral pseudomorphs of very fine-grained white mica and interstitial quartz.

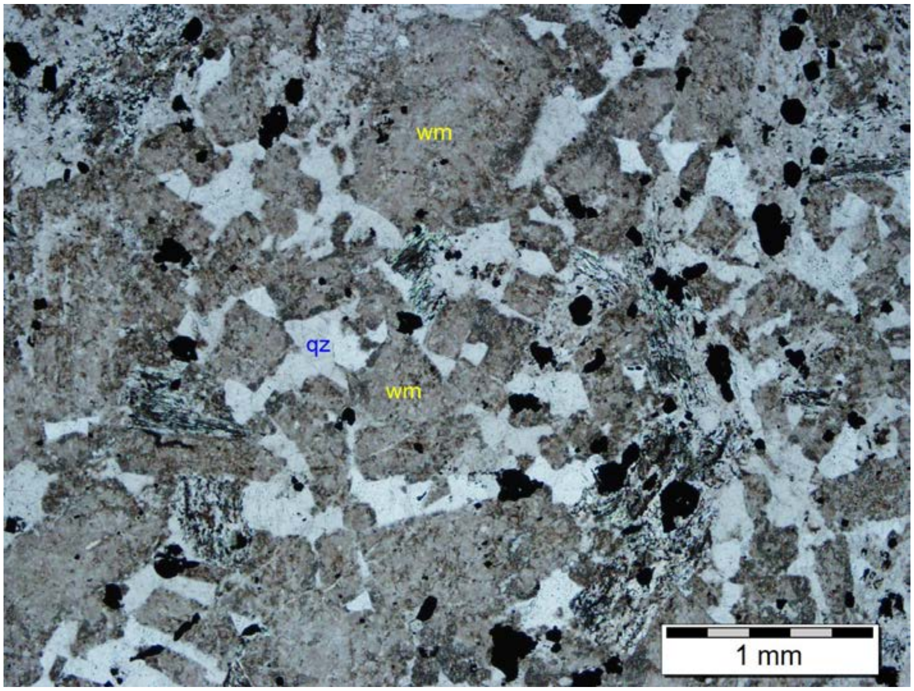
Alteration: white mica: strong after feldspar and ferromagnesian minerals; **pyrite**: weak to moderate; rutile: subtle.

Mineral	***Alteration and Weathering Mineral***	***Modal %***	***Size Range (mm)***
altered granitoid(?) (~65% of PTS)			
[plagioclase?]	white mica	45–47	[up to 1.2 long] up to 0.02
quartz		13–15	up to 0.5
[biotite}	white mica-rutile	5–6	up to 0.5 long
white mica-quartz-pyrite veins (~35% of PTS)			
white mica		25	up to 0.02
quartz		7	up to 0.5
pyrite		3	up to 1 long

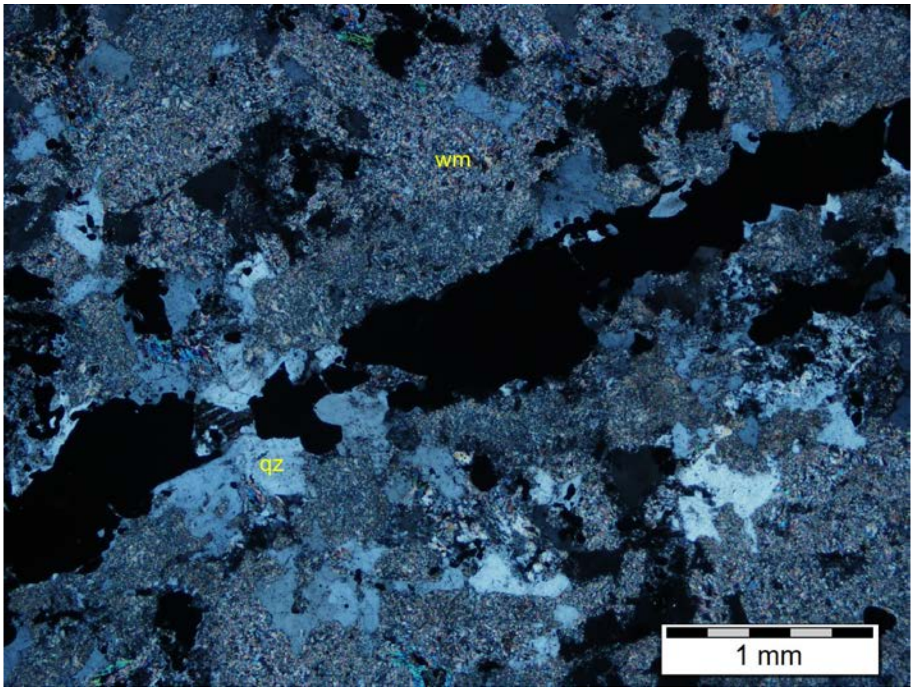
Very fine-grained flakes of **white mica** and subordinate earthy material strongly altered subhedral and up to 1.2 mm long crystals of probable plagioclase. These pseudomorphs prevail over interstitial crystals of quartz (Photomicrograph 10a), and subordinate pseudomorphs of white mica after probable biotite, and sparse crystals of pyrite. The white mica-rich pseudomorphs define a medium-grained granular and isotropic microstructure. Very fine-grained white mica also prevails within the up to 8 mm thick veins. Within the veins the white mica forms subhedral to irregularly shaped pseudomorphs, which could have replaced plagioclase crystals. Fine- to medium-grained crystals of white mica and subordinate clusters rutile completely replaced medium-grained crystals of biotite. The pseudomorphs after biotite are randomly oriented, thus indicating an isotropic nature of the primary magmatic rock.

Quartz forms interstitial crystals between the white mica-rich pseudomorphs in the host rock (Photomicrograph 10a) and in the vein (Photomicrograph 10b). Some of the medium-grained crystals of quartz show moderate undulose extinction, and in some cases form granophyric crystals.

Fine-grained crystals of **pyrite** are dispersed within the host rock, the veins, and are concentrated along the median zone of the veins (Photomicrograph 10b), where they are up to 1 mm long.



Photomicrograph 10a: In the host rock, subhedral pseudomorphs of white mica completely replaced probable crystals of plagioclase, which were immersed within interstitial crystals of quartz (qz). Plane-polarized transmitted light.



Photomicrograph 10b: The veins are made up of subhedral to anhedral pseudomorphs of very fine-grained white mica (wm), interstitial quartz, and elongate domains of pyrite (opaque). Crossed Nicols transmitted light.

5. Glossary of Microstructural and Petrologic Terms Used in the Text

a, b, c: Symbols used to describe the crystallographic axes of the crystals.

alteromorph: Mineral or group of minerals developed by partial to complete alteration or weathering of a primary mineral. An alteromorph does not always preserve the shape, size, and volume of the mineral that it has replaced.

amoeboid: With strongly curved and lobate interlocking grain boundaries; like an amoeba.

anhedral: Describes irregular grains showing no crystal-face boundaries.

euhedral: Describes a mineral with crystal faces.

foliation: Planar microstructural element that occurs penetratively on a mesoscopic scale in a rock. Primary foliation includes bedding and igneous layering; secondary foliations are formed by deformation-induced processes.

groundmass: Aggregate that is distinctly finer-grained than the phenocrysts in an igneous rock.

interlobate: With irregular lobate grain boundaries.

interstitial: Describes a mineral occupying angular cavities or interspace fillings between other minerals.

phenocryst: Crystal (commonly euhedral) that is distinctly larger than the other minerals around it.

pleochroism: A property of certain crystals of absorbing light to an extent that depends on the orientation of the vector of the light with respect to the optic axes of the crystal.

poikilitic: Describes a crystal with numerous, randomly oriented inclusions of other minerals.

pseudomorph: Mineral or group of minerals developed by partial to complete alteration or weathering of a primary mineral. The pseudomorph preserves the shape, size, and volume of the mineral that it has replaced.

relict (residual structure): Structure remaining after a deformation or metamorphic event, such as a porphyroclast in a mylonite, a phenocryst in a metamorphosed volcanic rock, or a partially replaced porphyroblast in a retrograde metamorphic rock. “Relict” is sometimes used as a synonym for “residual.”

undulose (undulatory) **extinction**: Wavy, nonuniform extinction in a single grain, owing to slight bending of the crystal. Patchy, irregular undulose extinction can be due to submicroscopic fractures, kinks, and dislocation angles.

X, Y, Z: symbols used to describe the optical indicatrix of the crystals.

Appendix L: Geologists Certificate

I, DANIEL LUI, do hereby certify that,

1. I am presently a senior project geologist with Equity Exploration Consultants Ltd., with offices at 1238-200 Granville Street, Vancouver, British Columbia, Canada since 2017.
2. I reside at 1320 Victoria Drive, Vancouver, British Columbia, Canada.
3. I am the co-author of the report entitled “2019 Geological and Geochemical Report on the Berg Property.”
4. I graduated from the University of British Columbia, Vancouver, BC, Canada with a Honours Bachelor of Science degree in geology in 2002, and from the University of Western Ontario with a Master of Science degree in geology in 2005 and I have practiced my profession continuously since 2002.
5. Since 2002 I have been involved in mineral exploration for gold, silver, copper, and uranium in Canada, United States of America, Australia, and Serbia.
6. This report is based upon field work carried out by the co-author in the summer of 2019.

Dated at Vancouver, British Columbia, this __24th__ day of January, 2020.

Daniel K. Lui

I, Steve Bultitude, do hereby certify that,

1. I am presently a Project Geologist with Equity Exploration Consultants Ltd., with offices at 1238-200 Granville Street, Vancouver, British Columbia, Canada since 2014.
2. I reside at 108 Smithe Street, Vancouver, British Columbia, Canada.
3. I am the co-author of the report entitled “2019 Geological and Geochemical Report on the Berg Property.”
4. I graduated from Simon Fraser University, Burnaby, BC, Canada with a Bachelor of Science degree in geology in 2014, and I have practiced my profession continuously since 2015.
5. Since 2014 I have been involved in mineral exploration for gold and copper in Canada and Finland.
6. This report is based upon field work carried out by me in the summer of 2019.

Dated at Vancouver, British Columbia, this __24th__ day of January, 2020.

Steven R. Bultitude