BC Geological Survey
Assessment Report
39000

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

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical sampling and mapping **TOTAL COST:** $12,602.34

AUTHOR(S): Stephen Wetherup **SIGNATURE(S):** S. Wetherup

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 5799463 **YEAR OF WORK:** 2019

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

PROPERTY NAME: Omineca Property

CLAIM NAME(S) (on which the work was done): 1060387, 514561

COMMODITIES SOUGHT: Cu, Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094C 149, 094C 148, 094C 052

MINING DIVISION: Omineca **NTS/BCGS:** 094C/05 E and W

LATITUDE: 56 ° 21 ' " **LONGITUDE:** 125 ° 45 ' " **(at centre of work)**

OWNER(S):
1) Commander Resources Ltd. 2)

MAILING ADDRESS:
Suite 1100 - 1111 Melville Street
Vancouver, BC, V6E 3V6

OPERATOR(S) [who paid for the work]:
1) Commander Resources Ltd. 2)

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Takla Group, andesite, basalt, augite basalt, Abraham Creek Complex, gabbro, pyroxenite, serpentinite, diorite breccia, quartz monzonite, monzonite dykes, propyllitic alteration, Fe-carbonate alteration, alkalic Cu-Au porphyry, late Triassic, early Jurassic, Cretaceous, Hogem Batholith

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 03267, 10436, 14809, 22121, 22860, 23284 23780, 25856, 27730, 27972, 29914, 34124

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	1 sq km	514561	$6000.00
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	11 samples	514561	$6602.34
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$ 12,602.34

ASSESSMENT REPORT

GEOCHEMICAL SAMPLING AND GEOLOGICAL MAPPING, OMINECA PROPERTY

Omineca Mining Division, British Columbia

COMMANDER RESOURCES LTD.
1100 – 1111 Melville Street
Vancouver, British Columbia
V6E 3V6

LOCATED:
190 km north-northeast of Smithers, BC
Omineca Mining Division
56º 21' North Lat., 125º 45' West Long.
NTS: 094C/05 E and W

March 25th, 2020

Prepared By:

WETHERUP GEOLOGICAL CONSULTING

Stephen Wetherup, B.Sc., P.Geo.

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

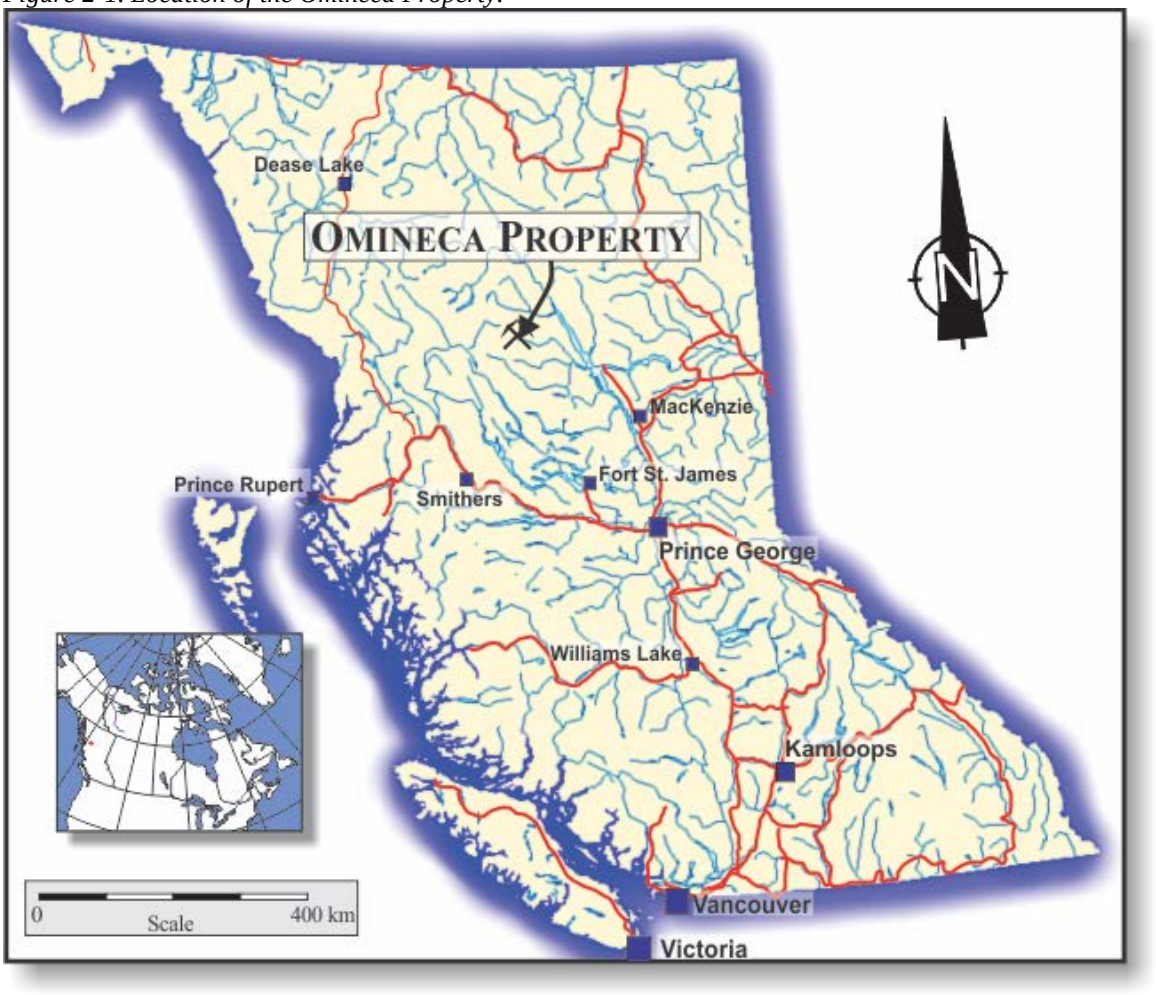
1.0 INTRODUCTION

Commander Resources Ltd. ("CMD") completed a $12,602.34 CAD exploration program on its Omineca property in the summer of 2019. Work consisted of geochemical rock sampling and geological investigation/mapping. The results of the program and interpretations derived from the data constitute the basis of this Assessment Report.

2.0 LOCATION AND PROPERTY DESCRIPTION

The Omineca property is located in north-central British Columbia ~190 km north-northeast of Smithers and 235 km NNW of Fort St. James, BC (Figure 2-1). Property co-ordinates (centre of claims) are 56°21' north Latitude and 125°45' west Longitude on N.T.S. Map No. 094C/05. The UTM (NAD83) co-ordinates are Zone 10N 3295800E, 6248600N.

Figure 2-1. Location of the Omineca Property.



COMMANDER RESOURCES LTD.

Date: Mar 23, 2020

Drafted by: S. Wetherup

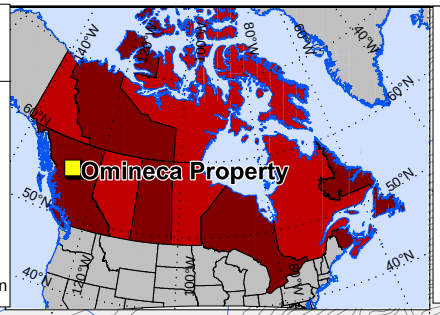
Figure: 2-2

Omineca Property

Claim Map

British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca claims
- Copper MinFile showings
- Elevation contour
- Waterbody
- Watercourse

N

514,561

1,060,387

094C 148

094C 149

094C 052

6,250,000

6,247,500

6,245,000

327,500

330,000

332,500

335,000

0 2 kilometers

The Omineca property is comprised of two claim blocks of which Commander Resources (FMC# 116661) is the 100% owner. The property covers an area of 3299 hectares or 33.0 km^2 (Figure 2-2). Details of the claims downloaded from the Mineral Titles Online (MTO) website are listed below. The claims have not been legally surveyed.

Table 2-1. Mineral tenure summary data for the Omineca Property prior to applying the current work from this report (March 19th, 2020).

Title No.	Claim Name	Issue Date	Good to Date	Owner	Client No.	Area (ha)
514561		6/15/2005	9/05/2021	COMMANDER RESOURCES LTD.	116661	1505.74
1060387	OMINECA 2	5/2/2018	9/05/2021	COMMANDER RESOURCES LTD.	116661	1793.72
					Total (ha)	**3299.47**

3.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, AND PHYSIOGRAPHY

3.1 Access

The Omineca property is road accessible via a series of forestry roads emanating from Fort St. James or Mackenzie BC. From Mackenzie, travel along Hwy 39 and turn right (west) of the Finlay Forest Service Road which crosses the southern end of Williston Lake. This road continues northerly along the west side of Williston Lake to the Omineca Camp and then the Osilinka camp (~ 200 km from Mackenzie). From Osilinka travel north along the Omineca Mining (Kemess) road for approximately 26 km where a turnoff to the left onto the Aiken Lake Main road and continues another 20 km to the Abraham Creek road. At the 9 km mark on the Abraham Creek road, the road is on the northern edge of the Omineca claims.

The nearest heliport is in Smithers, B.C. approximately 190 km south-southwest of the property.

3.2 Physiography

The Omineca property is situated in a the northern Osilinka Ranges which are part of the Omineca Mountains. Slopes on the property are moderate to steep and topographic relief is ~900 m, ranging from 1080 m along the shores of Tutuzzi Lake to 1910 m at the tallest peak on the property.

3.3 Climate and Vegetation

Seasonal temperatures range from lows of -35°C in winter to +30°C in July and August. January and July mean temperatures are -14°C and 15° to 20°C respectively. The property area receives moderate precipitation with winter snow-pack reportedly around 2 to 4 m but varies greatly upon elevation. Access

to the area is possible from May to October but usually the months between June and September are best

The property is forested with stands of balsam, spruce and pine. Timberline is around 1,600 m. Steeper slopes, especially those prone to avalanches, are often covered with very thick mats of low growing and tangled balsam. Terrain above 1,600 m consists of grassy alpine meadows with heather and sparse balsam interspersed with talus on steeper slopes.

3.4 Infrastructure and Local Resources

The nearest major town centre is Smithers, BC (190 km SSW) which is a resource (mining, logging, and ranching) based community with an experienced labour force, regular air service and heliports. Prince George (~400 km SE) is a larger hub from which can supply fuel, groceries, accommodation and heavy construction equipment via a 6-7 hour drive by road.

4.0 EXPLORATION HISTORY

The first recorded work in the district was in 1868 with the discovery of placer gold. Consolidated Mining and Smelting explored the areas surrounding the Hogem Batholith in the 1930's followed by Kennco Explorations in the 1940's. The Lorraine copper deposit to the south pf the Omineca property was discovered in the 1970's by Kennco and then subsequently owned by Granby Mining.

In 1953, regional geological mapping I the area sampled a quartz vein on the western portion of the property which returned high Au, Ag, Pb, Zn values and resulted in a single short drill hole to be drilled in the late 1950's, no results were found for this work.

Union Miniere Exploration and Mining Corp (UMEX) conducted regional exploration throughout north-central British Columbia including regional silt surveying and follow up airborne magnetic surveys in the late 1960's and 1970's. UMEX followed up on a Mo anomaly and staked ground SW of the current Omineca property and conducted a soil survey which outlined a 50 ppm Mo in soil anomaly. Rock sampling and mapping results were not encouraging, and the property was abandoned.

In 1981, Mattagami Lake Exploration did a reconnaissance mapping and sampling program on the central portion of the Omineca claims which returned encouraging Cu, Mo and Cu, Pb, Zn Ag Au grab samples and soil and silt samples, including soil samples up to 2400 ppb Au. However, they did not complete additional work.

Commander Resources (formerly Major General Resources) acquired the UMEX database in 1988 and identified a Cu-Au stream sediment anomaly from the data which resulted in staking the Abe claims, in 1991, over the current Omineca Property.

Between 1991 and 1994, Swannell Minerals Corp. optioned the property from Commander and conducted geological mapping, prospecting, stream, soil and rock sampling as well as an IP and ground magnetic survey. These programs were able to delineate a large Cu in soil anomaly haloed by a Au in soil anomaly in the central portion of the property which is coincident with moderate to high chargeability (15 to 35 mV/V) zone 700 x 2000 m in areal extent. This work was followed up in 1994 by drilling 10 short drill holes mainly into highly chargeable areas within the soil anomalies. Drilling intersected weakly anomalous Cu and Au (highs of 1649 ppm and 114 ppb respectively) within the diorite and pyroxenite and Cu in soil anomaly. Three holes drilled into the surrounding Takla volcanic host rocks (94-03, 04 and 05) intersected highly anomalous Au over significant intervals such as 180 ppb Au over 24 m and 340 ppb over 23 m.

Table 4-1. Summary of exploration work completed on the Omineca Property and areas directly adjacent.

ARIS No.	Year	Property	Work Summary	Operator
	1950?		1 ddh	
3267	1970		248 soils	Union Miniere Expl. & Mining Corp.
10436	1981	Altabrit	169 soil, 63 silt, 22 rock	Mattagami Lake Exploration Ltd.
14809	1985		28 soil, 39 silt, 13 rock	Suncor
22121	1990	Abe	21 rock, mapping, 37 silt	Swannell Minerals Corp.
22860	1992	Abe	35 rock, 199 grid soils	Swannell Minerals Corp.
23284	1993	Abe	126 soil, 22.5 line-km IP, 13.1 km mag	Swannell Min. Corp.
23780	1994	Abe	10 ddh, 897.9 m	Swannell Minerals Corp.
25856	1998	Abe	76 rock, 40 silt, 658 soil, 27.2 line-km IP, 35.8 line-km mag	Starfield Resources Inc.
27730	2004	Abe	9 rock	Commander Resources Ltd.
27972	2005	Abe	24 rock, 135 soil	Commander Resources Ltd.
29914	2007	Mesilinka	5 ddh, 2054 m	Geoinformatics Exploration Canada
34124	2012	Abe	11 rock, 173 soil	Commander Resources Ltd.
	2017	Omineca	8 rock, 58 soil samples	Commander Resources Ltd.
38375	2018	Omineca	57 rock samples	Commander Resources Ltd.

In 1998, Starfield Resources optioned the property from Commander and conducted a more detailed soil survey and expanded the coverage as well as expanding the IP and magnetic coverage on the property. Commander continued to do prospecting and sampling from 2004 to 2005.

In 2007, Geoinformatics Exploration optioned the Omineca and several other properties in the Hogem area and conducted a large-scale data compilation within the region and mapping followed drilling 5 holes on the Omineca property. These holes tested chargeability highs within the moderate Cu in soil anomalies in similar areas that were drilled previously but to greater depth. This work defined a zoned alteration system

and metal zonation consistent with an alkalic Cu-Au porphyry system, but again only returned anomalous Cu-Au values.

Commander has completed several small exploration programs since 2007 to maintain the ground.

5.0 GEOLOGICAL SETTING

5.1 Regional Geology

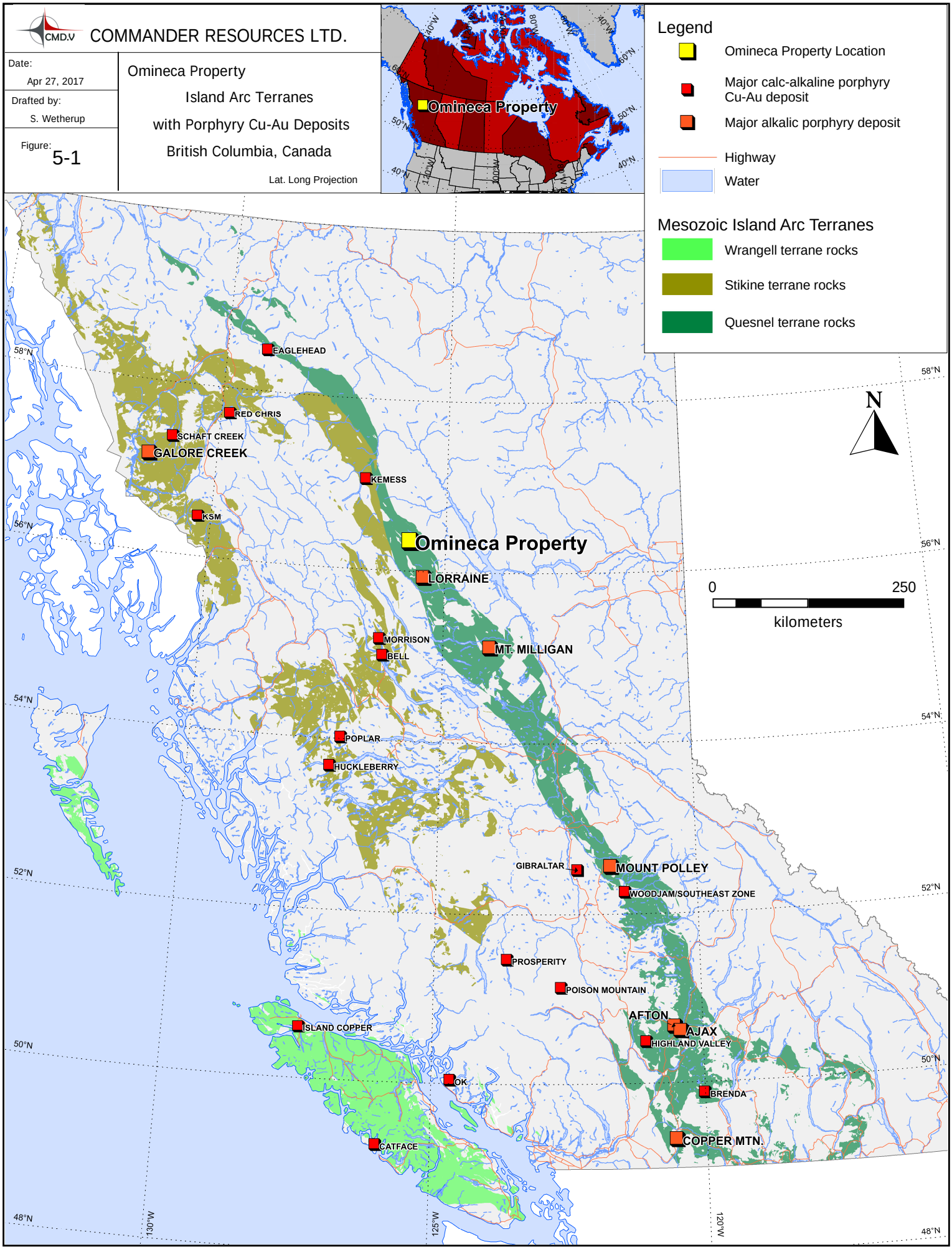
The Omineca property located in the Omineca Mountains of north-central British Columbia, lies within the upper Triassic to lower Jurassic exotic island-arc Quesnel Terrane. The Quesnel Terrane is an approximately 1600 km long belt of mafic to intermediate alkaline to calc-alkaline volcanic rocks and minor sedimentary rocks which have been intruded by a series of coeval calc-alkaline and alkaline intrusive rocks. Many of the significant porphyry Cu-Au-Mo and alkalic Cu-Au deposits within BC are hosted by these coeval intrusive rocks, such as Highland Valley, Gibraltar, Mount Polley, Afton, Copper Mountain, Lorraine, and Mt Milligan.

Within the Omineca region, the Quesnel Terrane is dominated by the Hogem Batholith, a multi-phase largely felsic batholith of alkalic affinity comprised of syenite, monzonite to quartz syenite and quartz monzonite and minor gabbro/pyroxenite and diorite phases. The Hogem Batholith outcrops for more than 100 km along the western boundary of the Quesnel Terrane and is cut by the Pinchi Fault on its western margin. This batholith is intruded into older mafic to intermediate Takla Group volcanic rocks on its eastern contact.

Later, Cretaceous granite and quartz monzonite stocks and plutons cut the Hogem Batholith and Takla rocks locally.

5.2 Property Geology

The Omineca property occurs at the eastern boundary of and at the northern end of the Hogem Batholith and at the southern end of a smaller mafic and alkalic intrusive complex, the Abraham Creek Complex. The central portion of the property is underlain by pyroxenite and diorite breccia (with pyroxenite clasts) belonging to the Abraham Creek Complex. These mafic rocks are subsequently cut by monzonite and feldspar porphyry quartz monzonite dykes. All of these are hosted by Takla Group volcanic mafic to intermediate flows and volcaniclastic rocks. Typical of the Takla Group rocks are pyroxene phenocrysts within both basalt and andesitic flows.


COMMANDER RESOURCES LTD.
CMD.V
Date:
Apr 27, 2017
Drafted by:
S. Wetherup
Figure:
5-1
Omineca Property
Island Arc Terranes
with Porphyry Cu-Au Deposits
British Columbia, Canada
Lat. Long Projection
Omineca Property
Legend
Omineca Property Location
Major calc-alkaline porphyry Cu-Au deposit
Major alkalic porphyry deposit
Highway
Water
Mesozoic Island Arc Terranes
Wrangell terrane rocks
Stikine terrane rocks
Quesnel terrane rocks
EAGLEHEAD
RED CHRIS
SCHAFT CREEK
GALORE CREEK
KEMESS
KSM
Omineca Property
LORRAINE
MORRISON
BELL
MT. MILLIGAN
POPLAR
HUCKLEBERRY
GIBRALTAR
MOUNT POLLEY
WOODJAM/SOUTHEAST ZONE
PROSPERITY
POISON MOUNTAIN
AFTON
AJAX
HIGHLAND VALLEY
ISLAND COPPER
OK
BRENDA
COPPER MTN.
CATFACE
N
0
250
kilometers
58°N
56°N
54°N
52°N
50°N
48°N
130°W
125°W
120°W

COMMANDER RESOURCES LTD.

Date: Aug 10, 2019

Drafted by: S. Wetherup

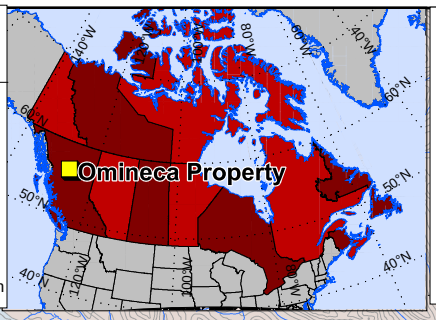
Figure: 5-2

Omineca Property

Island Arc Terranes with Porphyry Cu-Au Deposits

British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca Property Location
- Major alkalic porphyry deposit
- Copper showings
- Elevation contour
- Waterbody
- Watercourse

N

Omineca Property

6,250,000

6,225,000

6,200,000

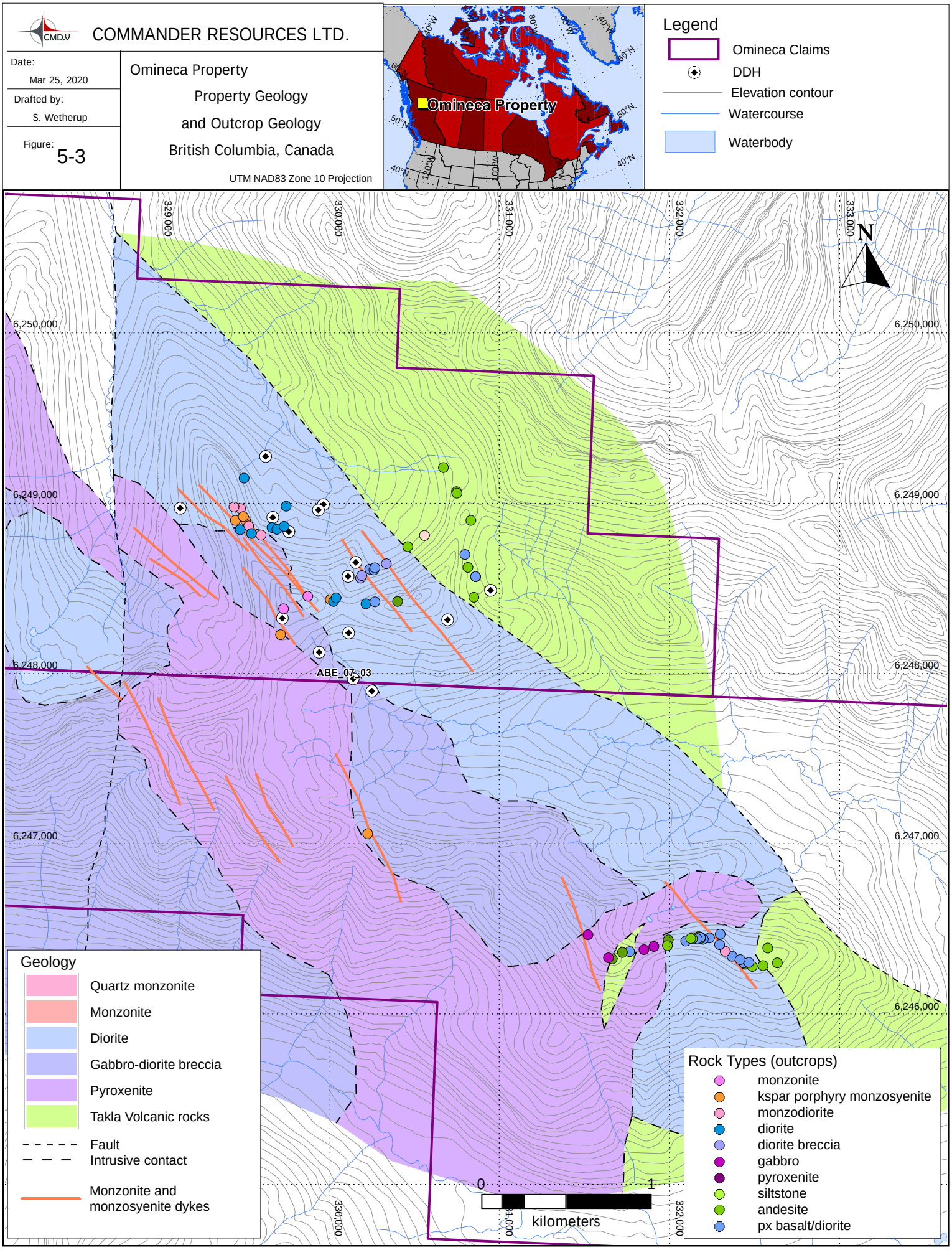
LORRAINE

350,000

0 10 kilometers

Regional Geology (Quesnel Terrane)

- Cretaceous intrusives
- Hogem Plutonic Suite - Cretaceous
- Hogem Plutonic Suite - Tr to K
- Hogem Plutonic Suite - Duckling Creek Syenite Complex
- Mafic to Ultramafic Intrusives (incl Abraham Creek Complex)
- Tenakihi Intrusive Complex
- Takla Group - Witch Lake Formation
- Takla Group


COMMANDER RESOURCES LTD.
Date:
Mar 25, 2020
Drafted by:
S. Wetherup
Figure:
5-3
Omineca Property
Property Geology
and Outcrop Geology
British Columbia, Canada
UTM NAD83 Zone 10 Projection
Omineca Property
Legend
Omineca Claims
DDH
Elevation contour
Watercourse
Waterbody
N
329,000
330,000
331,000
332,000
333,000
6,250,000
6,249,000
6,248,000
6,247,000
6,246,000
ABE_07_03
Geology
Quartz monzonite
Monzonite
Diorite
Gabbro-diorite breccia
Pyroxenite
Takla Volcanic rocks
Fault
Intrusive contact
Monzonite and monzosyenite dykes
Rock Types (outcrops)
monzonite
kspar porphyry monzosyenite
monzodiorite
diorite
diorite breccia
gabbro
pyroxenite
siltstone
andesite
px basalt/diorite
0
1
kilometers

Just west of the claims a Cretaceous quartz monzonite to granodiorite occurs and separates the Abraham Creek Complex and Takla rocks from the Hogem Batholith rocks.

6.0 MINERALIZATION AND ALTERATION

Three main styles of mineralization occur on the property,

(1) quartz vein Au-Ag-Zn-Pb-Cu mineralization in steep to flat-lying quartz veins with minor sericite alteration haloes and rarely wider that 50 cm wide,

(2) Quartz-ankerite veins, breccias and alteration zones with minor Au-Ag-Cu mineralization, mainly within the Takla rocks on the eastern side of the claims, and;

(3) Chalcopyrite-magnetite-chlorite veinlets and stockwork within diorite and Takla basalts, commonly adjacent to monzonite dykes.

Alteration surrounding the polymetallic quartz veins is typically pervasive silica-sericite-pyrite (QSP) haloes which occur over 5 to 10 cm from veins and appear to be the latest mineralization. These mineralized veins appear to have limited strike length (less than 100 m) and are widely spaced and irregularly mineralized.

Fe-carbonate-hematite-calcite alteration occurs along NW striking faults and fault zones along the eastern margin of the Cu soil anomaly and coincides with most of the 5 km long eastern Au in soil anomaly (> 50 ppb).

Chalcopyrite-magnetite-chlorite veinlets occur throughout the diorite and appears to be most intense in proximity to monzonite dykes where chlorite appears to be hydrothermally retrograded after biotite. These zones appear to grade outward into chlorite-epidote-pyrite zones. This style of mineralization and alteration occurs coincident with the Cu in soil anomalies and within the strongest chargeability zones (especially the chlorite-epidote-pyrite). Historical drilling has largely tested the chargeability highs and hence the peripheral alteration presumably surrounding the more “potassic” chalcopyrite-magnetite-chlorite (biotite) zones.

7.0 EXPLORATION

Work in 2019, consisted of a 1 day visit to an area on the north side of the property where historical soil samples are >1000 ppm Cu, higher than anywhere else on the property and has yet to be drill tested. A

total of 11 rock samples were collected during this program as well as geological observations and mapping of alteration and rock types in the area.

7.1 Sampling methods

Rock samples were collected from talus or bedrock and broken into 500 g to 1 kg pieces with a rock hammer before placing into a sample bag along with a sample tag and marked with a unique sample number. UTM locations (NAD83 zone 9) were recorded into a sample book and digitally with a GPS for each sample site as well as descriptions of the rock type and surrounding geology or terrain.

7.2 Analysis methods

Rock samples were sent to Bureau Veritas' facility in south Vancouver for analysis.

Rocks were initially crushed to a 10 mesh and a 250 g aliquot was further crushed to a pulp (-75 micron) and dissolved using a 4-acid method and analyzed by fire-assay for Au and ultra-trace ICP-MS for 59 elements.

7.3 Results

Most of the historical Cu in soil anomaly in the area investigated is underlain by a talus scree slope shedding from a north-south oriented ridge/arete. This ridge had been mapped by previous workers and was described as diorite with a small area cut by a monzonite dyke.

The talus in the area just below the ridge top is dominated by fine to medium grained diorite which is cut by a N-S trending monzonite to monzodiorite dyke as well as a parallel and late mega-crystic monzosyenite dyke. All of these intrusive units are cut by at least four generations of veins.

1. Chlorite-magnetite±K-feldspar±chalcopyrite veinlets and stockwork within the diorite, commonly adjacent to monzonite dykes,
2. Epidote-pyrite±albite veinlets and stockwork,
3. K-feldspar-magnetite-chalcopyrite veinlets and stockwork,
4. Quartz-K-feldspar±magnetite±epidote veins and stockwork which cross-cut chalcopyrite-magnetite-chlorite veins and epidote-pyrite veins,

Rare, quartz-ankerite veins cut all the other vein sets but appear to be tectonic and much later than the main

three vein sets.

Chlorite-magnetite-chalcopyrite veining appear to be the earliest vein set and is common throughout the diorite units on the property with localized chalcopyrite mineralization. Epidote-pyrite-albite veins are also common within the diorite and occur both close to monzonite dykes as well as at a distance of 100-300 m from the dykes.

K-feldspar-magnetite veinlets occur only within the diorite and the monzonite/monzodiorite units and are most common in the latter. These typically contain chalcopyrite and where vein densities are greater the Cu tenor in the rocks increases. They appear to cross-cut the epidote-pyrite veinlets but not in all cases and there may be two epidote-pyrite events in the area.

Quartz-K-feldspar veins with trace magnetite and epidote cut vein types 1, 2 and 3 and appear to be devoid of chalcopyrite. These veins also are the only veins to cut the mega-crystic monzo-syenite dyke and are found in close proximity to this dyke.

Rock sampling confirmed that generally K-feldspar quartz veined rocks as well as the strongly pyritic-epidote veins and altered rocks contained very low copper values (<300 ppm). Rock samples collected with chlorite-magnetite-K-feldspar veins contained elevated copper values (<300 ppm) including highs of 0.33% and 0.1% Cu. These rocks are likely the cause of the anomalous soils that exceed 0.1% Cu.

A high copper sample >1% Cu was returned from a talus fragment consisting of a strongly oxidized malachite-azurite vein which was found near outcrops of monzonite and monzodiorite intruding diorite.

Figure 7-1. Monzodiorite (left) cutting diorite (right) with stockwork of quartz-K-feldspar veins which cut earlier epidote-pyrite veins (on surface) and several K-feldspar veinlets within the monzodiorite on the left side of the rock.

Figure 7-2. Talus fragment of diorite cut by fine grained monzodiorite and then by mega-crystic K-feldspar porphyry monzo-syenite that is bordered on both sides by quartz-K-feldspar veins.

COMMANDER RESOURCES LTD.

Date: Mar 25, 2020

Drafted by: S. Wetherup

Figure: 7-3

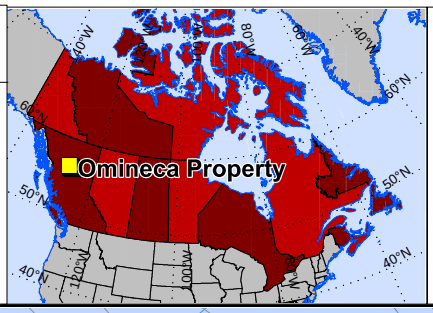
Omineca Property

Property Geology

Geology Stations

British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca Claims
- DDH
- Elevation contour
- Watercourse
- Waterbody
- Geology station (stn number)

329,500

330,000

N

6,249,000

6,248,500

SWOM19-019

SWOM19-006

SWOM19-003

SWOM19-018

SWOM19-007

SWOM19-009

SWOM19-008

SWOM19-011

SWOM19-017

SWOM19-012

SWOM19-016

SWOM19-013

SWOM19-014

Geology

- Quartz monzonite
- Monzonite
- Diorite
- Gabbro-diorite breccia
- Pyroxenite
- Takla Volcanic rocks
- Fault
- Intrusive contact
- Monzonite and monzosyenite dykes

Rock Types (outcrops)

- monzonite
- kspar porphyry monzosyenite
- monzodiorite
- diorite
- diorite breccia
- gabbro
- pyroxenite
- siltstone
- andesite
- px basalt/diorite

0 0.2

kilometers

COMMANDER RESOURCES LTD.

Date: Mar 25, 2020

Drafted by: S. Wetherup

Figure: 7-4

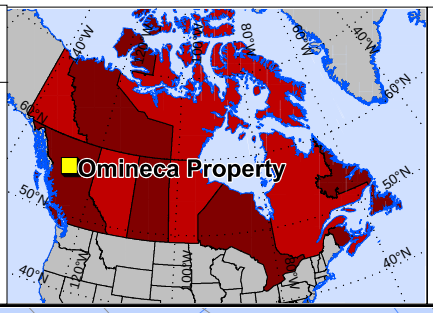
Omineca Property

Property Geology and

2019 Rock Samples

British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca Claims
- DDH
- Elevation contour
- Watercourse
- Waterbody
- Rocks (sample number)

329,500

330,000

N

6,249,000

6,248,500

89,455
89,451
89,462
89,461
89,452
89,453
89,460
89,456
89,458
89,457
89,459

Geology

- Quartz monzonite
- Monzonite
- Diorite
- Gabbro-diorite breccia
- Pyroxenite
- Takla Volcanic rocks
- Fault
- Intrusive contact
- Monzonite and monzosyenite dykes

0 0.2

kilometers

COMMANDER RESOURCES LTD.

Date: Mar 25, 2020

Drafted by: S. Wetherup

Figure: 7-5

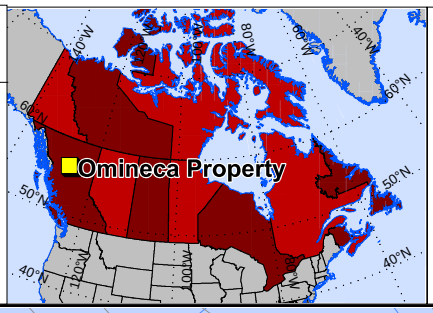
Omineca Property

Property Geology and

Cu (ppm) in Rocks

British Columbia, Canada

UTM NAD83 Zone 10 Projection



Legend

- Omineca Claims
- DDH
- Elevation contour
- Watercourse
- Waterbody
- Rocks (Cu ppm)

329,500

330,000

N

6,249,000

6,248,500

184.7

1,112.6

3,375.3

67.6

623.5

10,000

867.1

184.2

1,334.9

372.7

310.2

Geology

- Quartz monzonite
- Monzonite
- Diorite
- Gabbro-diorite breccia
- Pyroxenite
- Takla Volcanic rocks
- Fault
- Intrusive contact
- Monzonite and monzosyenite dykes

0 0.2

kilometers

8.0 CONCLUSIONS

The 2019 work programme sought to determine the cause of the strongest (>1000 ppm) Cu in soils on the Omineca property and to describe the rocks in the area. Most of the soil anomaly is from samples collected in a talus slide on the east side of a north trending arete. The rocks in this slide are dominated by fine to medium grained monzonite to monzodiorite and medium grained diorite. These rocks are cut by several generations of veining of which chlorite-magnetite and K-feldspar-magnetite veins contain chalcopyrite, the latter of which are veins spatially related to monzonite/monzodiorite dykes. Cross-cutting relationships suggest that the chlorite-magnetite veining is related to an earlier alteration event only within the diorite followed by late phase epidote-pyrite veining. This was followed by intrusion of the monzonite-monzodiorite dykes and K-feldspar-magnetite-chalcopyrite veining locally and then a second epidote-pyrite veining event.

In conclusion, the strongest Cu tenors in rocks and soils occur in area not tested by historical drilling and this area is underlain by rocks which demonstrate the highest temperature alteration and veining assemblages on the property. Therefore, this is the strongest geological target on the property to contain alkalic Cu-Au porphyry mineralization at depth.

9.0 EXPLORATION EXPENDITURES

These expenditures cover the costs of field work, assays, interpretation and report writing for Event # 5799463.

Table 9-1. Summary of exploration expenses.

Item	Description	Amt	Units	Cost/Unit	Total
Labour	S. Wetherup (Sept 8-9)	2	days	$ 700.00	$ 1,400.00
Labour	Martin Kulla (Sept 8-9)	2	days	$ 450.00	$ 900.00
Acc and Board	Silver Creek (CJL)	3	nights	$ 150.00	$ 450.00
Geochemical Analysis	Acme Labs (rocks)	11	samples	$ 55.62	$ 611.78
Helicopter	Yellowhead Helicopters	2.4	hours	$ 2,575.71	$ 6,181.71
Truck rental		3	days	$ 125.00	$ 375.00
Fuel					$ 261.45
Miscellaneous	Supplies/sample bags				$ 122.40
Report writing		2	days	$ 700.00	$ 1,400.00
Data preparation and map making		2	days	$ 450.00	$ 900.00
					$ 12,602.34

10.0 STATEMENTS OF AUTHORSHIP

Stephen William Wetherup
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Telephone: 604-217-1900
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CERTIFICATE OF AUTHOR

I, Stephen Wetherup, do hereby certify that,

1. I am a graduate of the University of Manitoba with a B.Sc. Honours in Geology.

2. I am a member of the Association of Association of Professional Engineers and Geoscientists of British Columbia (APEGBC, #27770). I am a member of the Society of Economic Geologists and the Vancouver Mining Exploration Group.

3. I have been operating a business as a geological consultant under my own name since June, 2001, and under the name of Caracle Creek International Consulting Inc. since March, 2004.

4. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report, the omission to disclose which makes the Report misleading.

5. I am responsible for the preparation of the Report titled "Assessment Report: Geochemical Sampling and Mapping, Omineca Property, Omineca Mining Division, British Columbia", (the "Report"), dated March 25th, 2020.

Dated this 25th Day of March, 2020.

Stephen William Wetherup,
BSc., P.Geo. (APEGBC, #27770)

11.0 SELECTED BIBLIOGRAPHY

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APPENDIX 1

Geology Station and Rock Sample

Summary Data

WP	Date Created	Latitude	Longitude	Northing	Easting	Description	sample no.	Type	sample mat	Ag_PPB	Al_%	As_PPM	Au_PPB	Ba_PPM	Be_PPM	Bi_PPM
SWOM19-002	2019-09-09T14:06:18	56.35512	-125.75849	6249022	329565	sample 89451, fg to mg mz with chl ep mal vnlts	89451	rock	talus	88	7.63	1.5	5	656	<1	<0.04
SWOM19-003	2019-09-09T14:15:45	56.35487	-125.75857	6248994	329559	fg hbl mz to mzdio with ep mal vnlys and ksp haloes. 89452 very common to have ep vnlts w ksp in mzdio and ep py ab in the augite diorite	89452	rock	talus	61	7.81	2.9	4	602	1	<0.04
SWOM19-004	2019-09-09T14:17:42	56.35493	-125.75839	6249000	329571	frag of mal azurite 89453	89453	rock	talus	522	7.96	2.2	11	841	<1	0.06
SWOM19-005	2019-09-09T14:32:36	56.35453	-125.75894	6248957	329535	89454, slab sample of mz with ksp ep mt veins and mal	89454	rock	talus	69	7.82	1.9	4	613	<1	<0.04
SWOM19-006	2019-09-09T14:34:22	56.35499	-125.75935	6249009	329512	89455, mal stained mz with ksp my vnlts and local qtz vns with ksp haloes, qtz vens commonly vuggy	89455	rock	talus	127	6.64	1.1	11	701	<1	<0.04
SWOM19-011	2019-09-09T15:06:55	56.35400	-125.75841	6248897	329565	89456 qtz stx with ksp alt of mz and ep py ctrs, very common on this slide	89456	rock	talus	155	6.55	1.8	4	329	<1	<0.04
SWOM19-012	2019-09-09T15:13:51	56.35391	-125.75835	6248886	329568	89457 mal stained diorite cut by mt chl ab vns	89457	rock	talus	84	5.77	0.9	6	394	<1	<0.04
SWOM19-014	2019-09-09T15:20:25	56.35397	-125.75804	6248892	329588	89458, diorite with abundant mal stain and chl ab mt veining	89458	rock	talus	215	8.15	1.4	9	349	<1	0.05
SWOM19-016	2019-09-09T15:45:55	56.35360	-125.75631	6248847	329693	89459, diorite and hfl andesite frag with semi massive pyrite	89459	rock	talus	40	7.75	2.1	9	274	<1	<0.04
SWOM19-020	2019-09-09T16:50:26	56.35493	-125.75774	6248998	329610	89460, fg mz with mt vn stw	89460	rock	talus	45	8.62	2.9	4	259	<1	<0.04
SWOM19-021	2019-09-09T16:58:03	56.35495	-125.75754	6249000	329623	89461 albitic altered chl ep stw, and 89462 intense ksp qtz mt stw in mz	89461	rock	talus	89	7.85	1.3	5	734	<1	<0.04

WP	Ca_%	Cd_PPM	Ce_PPM	Co_PPM	Cr_PPM	Cs_PPM	Cu_PPM	Dy_PPM	Er_PPM	Eu_PPM	Fe_%	Ga_PPM	Gd_PPM	Hf_PPM	Ho_PPM	In_PPM	K_%	La_PPM	Li_PPM	Lu_PPM	Mg_%	Mn_PPM	Mo_PPM	Na_%	Nb_PPM	Nd_PPM	Ni_PPM
SWOM19-002	1.57	0.2	29.91	135.8	5	0.3	3375.3	3.8	2.4	0.8	2.84	15.33	4.1	0.83	0.8	0.03	2.85	12.3	3.2	0.4	0.7	681	0.42	3.966	16.9	4.81	141.7
SWOM19-003	3.44	0.15	17.26	18.8	31	0.2	623.5	2.9	1.5	0.6	3.3	17.56	2.5	0.68	0.5	0.04	1.87	7.5	2.9	0.3	1.12	763	0.44	3.862	10.3	2.78	20.4
SWOM19-004	1.45	1.19	11.81	215.4	14	0.4	>10000.0	4	2.1	1.2	8.19	16.76	3.7	0.9	0.7	0.05	3.44	3.9	12	0.3	2.93	1020	9.85	2.839	8.3	1.56	118.3
SWOM19-005	2.85	0.08	16.84	45.5	44	0.3	1112.6	2.6	1.6	0.8	3.25	17.53	2.9	0.78	0.5	0.03	2.66	7.4	3.6	0.2	1.25	769	0.43	3.519	9.2	2.68	38.1
SWOM19-006	1.92	0.09	12.66	8.5	5	0.2	184.2	1.6	1.1	0.6	2.91	14.71	2.1	0.59	0.4	0.01	2.86	6.1	2	0.2	0.74	365	0.97	3.09	6.8	2.32	6.1
SWOM19-011	6.27	0.07	8.26	39.3	436	0.2	372.7	2.8	1.6	0.5	6.98	14.26	2.1	0.81	0.5	0.08	0.87	3.4	9.1	0.3	5.62	1428	0.58	2.055	6.2	1.05	174.7
SWOM19-012	7.43	0.1	7.18	104.5	350	0.4	1334.9	3	1.7	0.7	6.79	11.96	2.7	0.69	0.6	0.05	1.3	2.9	11.2	0.3	6.75	1429	0.84	1.222	6.6	0.8	230.5
SWOM19-014	5.81	0.04	7.06	39.8	141	0.4	310.2	3.6	1.7	0.7	7.19	15.9	3	0.57	0.6	0.09	1.34	2.5	12.6	0.2	4.2	1228	9.75	2.32	7	0.64	74.2
SWOM19-016	7.78	0.13	2.9	127.2	255	0.3	867.1	2.1	1.2	0.4	2.57	15.31	1.7	0.46	0.4	0.03	1.3	1.1	9.3	0.2	5.29	1120	0.43	2.223	3	0.6	212.7
SWOM19-020	7.33	0.1	4.69	15	61	0.3	67.6	2.2	1.2	0.5	2.52	15.51	1.8	0.55	0.4	0.04	1.01	2.1	7.3	0.2	3.82	907	0.35	3.522	4	0.97	27.7
SWOM19-021	2.69	0.03	16.8	14.2	10	0.2	184.7	2.4	1.5	0.7	3.51	18.18	2.5	0.69	0.5	0.04	2.9	7.5	2.6	0.2	1.02	539	0.48	3.928	9.9	2.57	9.9

WP	P_%	Pb_PPM	Pr_PPM	Rb_PPM	Re_PPM	S_%	Sb_PPM	Sc_PPM	Se_PPM	Sm_PPM	Sn_PPM	Sr_PPM	Ta_PPM	Tb_PPM	Te_PPM	Th_PPM	Ti_%	Tl_PPM	Tm_PPM	U_PPM	V_PPM	W_PPM	Y_PPM	Yb_PPM	Zn_PPM	Zr_PPM
SWOM19-002	0.076	3.85	3.9	42	<0.002	0.05	0.16	4.9	0.6	3.7	0.4	391	0.3	0.5	0.13	2.5	0.211	0.16	0.4	0.7	84	0.4	21.1	2.9	32.7	15
SWOM19-003	0.087	3.4	2.1	22.5	<0.002	<0.04	0.17	7.5	0.7	2.3	0.4	599	0.2	0.3	0.2	1.2	0.261	0.14	0.2	0.4	106	0.3	13.5	1.7	33	14.4
SWOM19-004	0.12	2.65	1.7	48.4	<0.002	0.1	0.35	22	0.8	2.4	0.9	192	0.1	0.5	0.2	0.4	0.511	0.41	0.4	0.5	289	1.8	17.7	2.1	65.3	21.3
SWOM19-005	0.083	2.37	2.1	31.2	<0.002	0.08	0.2	8.6	<0.3	2.3	0.4	566	0.2	0.3	0.16	1.7	0.243	0.13	0.2	0.5	99	0.3	14.2	1.9	33.9	15.4
SWOM19-006	0.07	2.42	1.6	35.5	<0.002	<0.04	0.08	5.1	0.9	1.6	0.3	454	0.2	0.2	0.13	1.1	0.215	0.15	0.1	0.4	87	0.3	9.6	1.1	19	11.7
SWOM19-011	0.071	2.42	1.3	21.4	<0.002	0.17	0.25	34.5	1	2.2	0.7	344	<0.1	0.4	0.87	0.5	0.373	0.08	0.2	0.2	290	0.2	15	1.8	58.2	18.2
SWOM19-012	0.085	1.53	1.2	40	<0.002	0.09	0.24	46.2	<0.3	1.8	0.7	287	<0.1	0.4	1.3	0.4	0.357	0.16	0.2	0.1	318	0.3	16.7	1.6	51.4	17
SWOM19-014	0.041	2.95	1.2	30.8	0.009	1.54	0.19	33.4	2.5	2.3	0.6	371	<0.1	0.5	0.42	0.7	0.494	0.17	0.3	1.7	206	0.5	17.3	1.8	41.5	11.3
SWOM19-016	0.012	1.46	0.5	38.6	0.002	0.05	0.2	40.1	<0.3	1.1	0.2	272	<0.1	0.2	1.36	0.4	0.425	0.15	0.2	0.1	285	0.2	12.6	1.3	40	10.7
SWOM19-020	0.022	2.72	0.7	23.4	<0.002	<0.04	0.3	32.5	0.7	1.4	0.3	426	<0.1	0.3	0.92	0.5	0.453	0.09	0.2	0.2	191	0.4	12.3	1.3	29.2	10.6
SWOM19-021	0.093	2.59	2.1	33	<0.002	<0.04	0.13	7.1	0.8	2.3	0.4	546	0.2	0.3	0.2	1.1	0.279	0.14	0.2	0.4	110	0.5	12.5	1.8	23.7	14.7

Station	Date Created	Latitude	Longitude	Northing	Easting	cal	chl	ep	mt	py	ser	sil	rocktype	rocktype2	sample	type	sample_mat	Description
SWOM19-001	2019-09-09T13:47:40	56.35544	-125.75824	6249056	329582													talus slide abt 50 m below rock face of augite porphyry diorite cut by numerous ep ab py vnlts and highly mag. locally stockworked minor mal staining. also ksp haloes occur regularly but not common
SWOM19-002	2019-09-09T14:06:18	56.35512	-125.75849	6249022	329565										89451	rock	talus	sample 89451, fg to mg mz with chl ep mal vnlts
SWOM19-003	2019-09-09T14:15:45	56.35487	-125.75857	6248994	329559		3	2	3	0.1			monzodiorite		89452	rock	talus	fg hbl mz to mzdio with ep mal vnlys and ksp haloes. 89452 very common to have ep vnlts w ksp in mzdio and ep py ab in the augite diorite
SWOM19-006	2019-09-09T14:34:22	56.35499	-125.75935	6249009	329512	1	2	2	2	0.1			monzodiorite		89455	rock	talus	89455, mal stained mz with ksp mz vnlts and local qtz vns with ksp haloes, qtz vens commonly vuggy
SWOM19-007	2019-09-09T14:41:39	56.35467	-125.75879	6248972	329545	1	3			0.1			megacrystic monzosyenite					here mega crystic ksp porphyry mzsyenite debris common, with rare qtz vnlts but no ep or ksp mt vnlts
SWOM19-008	2019-09-09T14:46:06	56.35433	-125.75857	6248934	329557		3	1	1	0.1			megacrystic monzosyenite					mega crystic ksp porphyry cutying augite diorite
SWOM19-009	2019-09-09T14:50:52	56.35420	-125.75858	6248919	329555		3	1	1	0.1			megacrystic monzosyenite					ksp porphyry with ch qtz vns very common in porphyry and diorite
SWOM19-011	2019-09-09T15:06:55	56.35400	-125.75841	6248897	329565		3	2	2	0.1			monzodiorite		89456	rock	talus	89456 qtz stx with ksp alt of mz and ep py ctrs, very common
SWOM19-012	2019-09-09T15:13:51	56.35391	-125.75835	6248886	329568		3	2	2	0.1			diorite		89457	rock	talus	89457 mal stained diorite cut by mt chl ab vns
SWOM19-013	2019-09-09T15:15:44	56.35401	-125.75807	6248897	329586		3	3	3	0.1			monzodiorite					typical mz here with ksp py mt ep vns and qtz ksp vns
SWOM19-014	2019-09-09T15:20:25	56.35397	-125.75804	6248892	329588	1	3	3	3	0.1			diorite		89458	rock	talus	89458, diorite with abundant mal stain and chl ab mt veining
SWOM19-015	2019-09-09T15:35:55	56.35368	-125.75676	6248857	329665	1	3	2	1	1			diorite					here more chl ep ab alt with common py vnlts and weak to no mag
SWOM19-016	2019-09-09T15:45:55	56.35360	-125.75631	6248847	329693	1	3	2	1	1			diorite		89459	rock	talus	89459, diorite and hfl andesite frag with semi massive pyrite
SWOM19-017	2019-09-09T15:54:58	56.35377	-125.75563	6248864	329736	1	4	3	1	0.1			diorite					diorite with strong chl alt and chl veining with ep ab veininig cutting. Diorite is magnetitc vns are not
SWOM19-018	2019-09-09T16:03:46	56.35484	-125.75552	6248983	329748	1	4	2	1	0.1			diorite					diorite str chl alt and chl vning
SWOM19-019	2019-09-09T16:31:26	56.35632	-125.75876	6249155	329554	1	4	2	1	0.1			diorite					chl alt diorite and diorite bx with frags of fg to cg diorite and poss hfl andesite, few chl and ep vns

APPENDIX 2

Assay 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: **Commander Resources Ltd.**
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6 Canada

Submitted By: Stephen Wetherup & Rob Cameron
Receiving Lab: Canada-Vancouver
Received: September 25, 2019
Report Date: October 03, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN19002778.1

CLIENT JOB INFORMATION

Project: OM
Shipment ID:
P.O. Number
Number of Samples: 11

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject 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
PRP70-250	11	Crush, split and pulverize 250 g rock to 200 mesh			VAN
FA330-Au	11	Fire assay fusion Au by ICP-ES	30	Completed	VAN
EN002	11	Environmental disposal charge-Fire assay lead waste			VAN
MA250	11	4 Acid digestion Ultratrace ICP-MS analysis	0.25	Completed	VAN
EN001-MA	11	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: Commander Resources Ltd.
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6
Canada

CC:

MAY LAI
Data Validation Specialist

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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Client: **Commander Resources Ltd.**
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6 Canada

Project: OM
Report Date: October 03, 2019

CERTIFICATE OF ANALYSIS VAN19002778.1

	Method	WGHT	FA330	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.05	0.1	0.02	0.2	20	0.1	0.2	1	0.01	0.2	0.1	0.1	1	0.02	0.02	0.04	1	0.01
89451	Rock	1.08	5	0.42	3375.3	3.85	32.7	88	141.7	135.8	681	2.84	1.5	0.7	2.5	391	0.20	0.16	<0.04	84	1.57
89452	Rock	0.96	4	0.44	623.5	3.40	33.0	61	20.4	18.8	763	3.30	2.9	0.4	1.2	599	0.15	0.17	<0.04	106	3.44
89453	Rock	0.31	11	9.85	>10000	2.65	65.3	522	118.3	215.4	1020	8.19	2.2	0.5	0.4	192	1.19	0.35	0.06	289	1.45
89455	Rock	0.91	4	0.43	1112.6	2.37	33.9	69	38.1	45.5	769	3.25	1.9	0.5	1.7	566	0.08	0.20	<0.04	99	2.85
89456	Rock	1.35	11	0.97	184.2	2.42	19.0	127	6.1	8.5	365	2.91	1.1	0.4	1.1	454	0.09	0.08	<0.04	87	1.92
89457	Rock	1.79	4	0.58	372.7	2.42	58.2	155	174.7	39.3	1428	6.98	1.8	0.2	0.5	344	0.07	0.25	<0.04	290	6.27
89458	Rock	0.65	6	0.84	1334.9	1.53	51.4	84	230.5	104.5	1429	6.79	0.9	0.1	0.4	287	0.10	0.24	<0.04	318	7.43
89459	Rock	0.84	9	9.75	310.2	2.95	41.5	215	74.2	39.8	1228	7.19	1.4	1.7	0.7	371	0.04	0.19	0.05	206	5.81
89460	Rock	1.28	9	0.43	867.1	1.46	40.0	40	212.7	127.2	1120	2.57	2.1	0.1	0.4	272	0.13	0.20	<0.04	285	7.78
89461	Rock	0.83	4	0.35	67.6	2.72	29.2	45	27.7	15.0	907	2.52	2.9	0.2	0.5	426	0.10	0.30	<0.04	191	7.33
89462	Rock	0.83	5	0.48	184.7	2.59	23.7	89	9.9	14.2	539	3.51	1.3	0.4	1.1	546	0.03	0.13	<0.04	110	2.69

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Client: **Commander Resources Ltd.**
1100 - 1111 Melville Street
Vancouver British Columbia V6E 3V6 Canada

Project: OM
Report Date: October 03, 2019

CERTIFICATE OF ANALYSIS VAN19002778.1

	Method	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S	Y	Ce	Pr	Nd	Sm
	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	0.2	0.1	1	0.1	0.04	0.1	0.02	0.1	0.1	0.1
89451	Rock	0.076	12.3	5	0.70	656	0.211	7.63	3.966	2.85	0.4	15.0	0.4	<1	4.9	0.05	21.1	29.91	3.9	16.9	3.7
89452	Rock	0.087	7.5	31	1.12	602	0.261	7.81	3.862	1.87	0.3	14.4	0.4	1	7.5	<0.04	13.5	17.26	2.1	10.3	2.3
89453	Rock	0.120	3.9	14	2.93	841	0.511	7.96	2.839	3.44	1.8	21.3	0.9	<1	22.0	0.10	17.7	11.81	1.7	8.3	2.4
89455	Rock	0.083	7.4	44	1.25	613	0.243	7.82	3.519	2.66	0.3	15.4	0.4	<1	8.6	0.08	14.2	16.84	2.1	9.2	2.3
89456	Rock	0.070	6.1	5	0.74	701	0.215	6.64	3.090	2.86	0.3	11.7	0.3	<1	5.1	<0.04	9.6	12.66	1.6	6.8	1.6
89457	Rock	0.071	3.4	436	5.62	329	0.373	6.55	2.055	0.87	0.2	18.2	0.7	<1	34.5	0.17	15.0	8.26	1.3	6.2	2.2
89458	Rock	0.085	2.9	350	6.75	394	0.357	5.77	1.222	1.30	0.3	17.0	0.7	<1	46.2	0.09	16.7	7.18	1.2	6.6	1.8
89459	Rock	0.041	2.5	141	4.20	349	0.494	8.15	2.320	1.34	0.5	11.3	0.6	<1	33.4	1.54	17.3	7.06	1.2	7.0	2.3
89460	Rock	0.012	1.1	255	5.29	274	0.425	7.75	2.223	1.30	0.2	10.7	0.2	<1	40.1	0.05	12.6	2.90	0.5	3.0	1.1
89461	Rock	0.022	2.1	61	3.82	259	0.453	8.62	3.522	1.01	0.4	10.6	0.3	<1	32.5	<0.04	12.3	4.69	0.7	4.0	1.4
89462	Rock	0.093	7.5	10	1.02	734	0.279	7.85	3.928	2.90	0.5	14.7	0.4	<1	7.1	<0.04	12.5	16.80	2.1	9.9	2.3

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Project: OM
Report Date: October 03, 2019

CERTIFICATE OF ANALYSIS VAN19002778.1

	Method	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
	Analyte	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga	In	Re	Se	Te
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.02	0.1	0.1	0.1	0.04	0.1	0.02	0.01	0.002	0.3	0.05
89451	Rock	0.8	4.1	0.5	3.8	0.8	2.4	0.4	2.9	0.4	0.83	3.2	42.0	0.3	4.81	0.3	15.33	0.03	<0.002	0.6	0.13
89452	Rock	0.6	2.5	0.3	2.9	0.5	1.5	0.2	1.7	0.3	0.68	2.9	22.5	0.2	2.78	0.2	17.56	0.04	<0.002	0.7	0.20
89453	Rock	1.2	3.7	0.5	4.0	0.7	2.1	0.4	2.1	0.3	0.90	12.0	48.4	0.1	1.56	0.4	16.76	0.05	<0.002	0.8	0.20
89455	Rock	0.8	2.9	0.3	2.6	0.5	1.6	0.2	1.9	0.2	0.78	3.6	31.2	0.2	2.68	0.3	17.53	0.03	<0.002	<0.3	0.16
89456	Rock	0.6	2.1	0.2	1.6	0.4	1.1	0.1	1.1	0.2	0.59	2.0	35.5	0.2	2.32	0.2	14.71	0.01	<0.002	0.9	0.13
89457	Rock	0.5	2.1	0.4	2.8	0.5	1.6	0.2	1.8	0.3	0.81	9.1	21.4	<0.1	1.05	0.2	14.26	0.08	<0.002	1.0	0.87
89458	Rock	0.7	2.7	0.4	3.0	0.6	1.7	0.2	1.6	0.3	0.69	11.2	40.0	<0.1	0.80	0.4	11.96	0.05	<0.002	<0.3	1.30
89459	Rock	0.7	3.0	0.5	3.6	0.6	1.7	0.3	1.8	0.2	0.57	12.6	30.8	<0.1	0.64	0.4	15.90	0.09	0.009	2.5	0.42
89460	Rock	0.4	1.7	0.2	2.1	0.4	1.2	0.2	1.3	0.2	0.46	9.3	38.6	<0.1	0.60	0.3	15.31	0.03	0.002	<0.3	1.36
89461	Rock	0.5	1.8	0.3	2.2	0.4	1.2	0.2	1.3	0.2	0.55	7.3	23.4	<0.1	0.97	0.3	15.51	0.04	<0.002	0.7	0.92
89462	Rock	0.7	2.5	0.3	2.4	0.5	1.5	0.2	1.8	0.2	0.69	2.6	33.0	0.2	2.57	0.2	18.18	0.04	<0.002	0.8	0.20

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Project: OM
Report Date: October 03, 2019

CERTIFICATE OF ANALYSIS VAN19002778.1

		Method	MA250
		Analyte	Tl
		Unit	ppm
		MDL	0.05
89451	Rock		0.16
89452	Rock		0.14
89453	Rock		0.41
89455	Rock		0.13
89456	Rock		0.15
89457	Rock		0.08
89458	Rock		0.16
89459	Rock		0.17
89460	Rock		0.15
89461	Rock		0.09
89462	Rock		0.14

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Project: OM

Report Date: October 03, 2019

QUALITY CONTROL REPORT VAN19002778.1

	Method	WGHT	FA330	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.05	0.1	0.02	0.2	20	0.1	0.2	1	0.01	0.2	0.1	0.1	1	0.02	0.02	0.04	1	0.01
Pulp Duplicates																					
89458	Rock	0.65	6	0.84	1334.9	1.53	51.4	84	230.5	104.5	1429	6.79	0.9	0.1	0.4	287	0.10	0.24	<0.04	318	7.43
REP 89458	QC		5	0.97	1323.0	1.50	49.9	79	230.8	111.8	1420	6.80	1.6	0.1	0.4	282	0.13	0.19	<0.04	318	7.46
Reference Materials																					
STD OREAS25A-4A	Standard			2.37	37.6	25.56	49.6	316	47.3	8.1	457	6.42	8.7	2.7	14.3	42	0.13	0.59	0.37	159	0.26
STD OREAS45E	Standard			2.27	797.4	18.97	48.4	412	473.6	62.1	552	24.73	16.3	2.6	13.2	18	0.09	0.92	0.29	328	0.07
STD OXB130	Standard		125																		
STD OXI138	Standard		1804																		
STD OXI138 Expected			1860																		
STD OXB130 Expected			125																		
STD OREAS45E Expected				2.4	780	18.2	46.7	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
BLK	Blank		4																		
BLK	Blank			<0.05	<0.1	<0.02	0.6	<20	0.3	<0.2	<1	<0.01	<0.2	<0.1	<0.1	<1	<0.02	<0.02	<0.04	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		3	1.52	5.4	3.79	48.9	98	8.1	4.1	656	2.16	3.2	1.3	3.2	210	0.16	0.21	<0.04	35	1.64
ROCK-VAN	Prep Blank		2	1.31	4.9	3.75	49.1	108	1.2	3.9	645	2.13	2.6	1.3	3.0	199	0.13	0.17	<0.04	35	1.65

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Project: OM
Report Date: October 03, 2019

QUALITY CONTROL REPORT VAN19002778.1

		Method	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Be	Sc	S	Y	Ce	Pr	Nd	Sm
		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	0.2	0.1	1	0.1	0.04	0.1	0.02	0.1	0.1	0.1
Pulp Duplicates																						
89458	Rock		0.085	2.9	350	6.75	394	0.357	5.77	1.222	1.30	0.3	17.0	0.7	<1	46.2	0.09	16.7	7.18	1.2	6.6	1.8
REP 89458	QC		0.084	2.8	321	6.72	377	0.352	5.73	1.209	1.27	0.3	16.7	0.7	<1	43.4	0.09	16.8	6.95	1.1	6.2	2.1
Reference Materials																						
STD OREAS25A-4A	Standard		0.044	20.2	117	0.30	146	0.884	8.45	0.146	0.48	1.9	148.1	3.8	<1	11.3	0.05	9.6	43.24	4.7	17.5	3.1
STD OREAS45E	Standard		0.034	10.9	1043	0.14	257	0.528	7.00	0.059	0.32	1.1	97.8	1.1	<1	86.7	0.04	8.0	23.88	2.5	9.8	2.2
STD OXB130	Standard																					
STD OXI138	Standard																					
STD OXI138 Expected																						
STD OXB130 Expected																						
STD OREAS45E Expected			0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	1.32		93	0.046	8.28	23.5	2.47	9.57	2.28
STD OREAS25A-4A Expected			0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	4.06	0.93	13.7	0.047	10.5	47.3	5.11	18.2	3.55
BLK	Blank																					
BLK	Blank		<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.2	<0.1	<1	0.2	<0.04	<0.1	<0.02	<0.1	<0.1	<0.1
Prep Wash																						
ROCK-VAN	Prep Blank		0.041	12.5	12	0.50	821	0.228	6.80	3.683	1.67	0.4	55.7	0.9	1	6.6	<0.04	16.3	25.52	2.9	12.2	2.6
ROCK-VAN	Prep Blank		0.041	12.1	5	0.49	832	0.222	6.75	3.633	1.61	0.3	52.8	0.8	1	6.5	<0.04	15.7	23.95	2.9	10.8	2.5

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QUALITY CONTROL REPORT VAN19002778.1

		Method	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
		Analyte	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Li	Rb	Ta	Nb	Cs	Ga	In	Re	Se	Te
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.02	0.1	0.1	0.1	0.04	0.1	0.02	0.01	0.002	0.3	0.05
Pulp Duplicates																						
89458	Rock		0.7	2.7	0.4	3.0	0.6	1.7	0.2	1.6	0.3	0.69	11.2	40.0	<0.1	0.80	0.4	11.96	0.05	<0.002	<0.3	1.30
REP 89458	QC		0.6	2.8	0.4	3.0	0.5	1.6	0.2	1.7	0.2	0.76	11.1	39.1	<0.1	0.81	0.4	11.75	0.05	0.006	<0.3	1.03
Reference Materials																						
STD OREAS25A-4A	Standard		0.6	3.3	0.3	2.4	0.4	1.1	0.2	1.3	0.2	3.98	38.9	53.8	1.4	18.93	5.5	24.12	0.10	<0.002	2.2	0.09
STD OREAS45E	Standard		0.6	2.2	0.3	2.2	0.4	1.0	0.2	1.3	0.2	2.85	6.7	21.3	0.5	5.95	1.2	16.00	0.12	<0.002	2.5	0.11
STD OXB130	Standard																					
STD OXI138	Standard																					
STD OXI138 Expected																						
STD OXB130 Expected																						
STD OREAS45E Expected			0.52	1.99	0.33	2.05	0.38	1.2	0.17	1.19	0.175	3.11	6.58	21.2	0.54	6.8	1.26	16.5	0.099		2.97	0.1
STD OREAS25A-4A Expected			0.69	2.68	0.36	2.25	0.43	1.23	0.19	1.3	0.2	4.14	36.7	61	1.4	20.9	6	25.9	0.09		2.4	
BLK	Blank																					
BLK	Blank		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.02	0.1	<0.1	<0.1	<0.04	<0.1	0.03	<0.01	<0.002	1.0	<0.05
Prep Wash																						
ROCK-VAN	Prep Blank		0.9	2.9	0.4	2.8	0.6	1.8	0.3	2.2	0.3	1.94	4.0	34.0	0.4	5.79	0.4	13.28	0.02	<0.002	1.0	0.11
ROCK-VAN	Prep Blank		0.7	3.1	0.3	3.0	0.6	1.9	0.3	2.2	0.3	1.78	3.9	32.8	0.4	5.85	0.4	13.68	0.03	<0.002	0.8	0.09

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Project: OM
Report Date: October 03, 2019

QUALITY CONTROL REPORT VAN19002778.1

		Method	MA250
		Analyte	Tl
		Unit	ppm
		MDL	0.05
Pulp Duplicates			
89458	Rock		0.16
REP 89458	QC		0.15
Reference Materials			
STD OREAS25A-4A	Standard		0.38
STD OREAS45E	Standard		0.16
STD OXB130	Standard		
STD OXI138	Standard		
STD OXI138 Expected			
STD OXB130 Expected			
STD OREAS45E Expected			0.15
STD OREAS25A-4A Expected			0.35
BLK	Blank		
BLK	Blank		<0.05
Prep Wash			
ROCK-VAN	Prep Blank		0.22
ROCK-VAN	Prep Blank		0.19

APPENDIX 3

Statement of Work Confirmation

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Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: WETHERUP, STEPHEN WILLIAM (141077)
Submitter: WETHERUP, STEPHEN WILLIAM (141077)
Recorded: 2020/MAR/31
Effective: 2020/MAR/31
D/E Date: 2020/MAR/31

Confirmation

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

Event Number: **5799463**

Work Type: Technical Work
Technical Items: Geochemical, Geological

Work Start Date: 2019/SEP/08
Work Stop Date: 2019/SEP/09
Total Value of Work: $ 12602.34
Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
514561		2005/JUN/15	2021/SEP/05	2022/FEB/01	149	1505.74	$ 12293.45	$ 0.00
1060387	OMENICA 2	2018/MAY/02	2021/SEP/05	2021/SEP/05	0	1793.72	$ 0.00	$ 0.00

Financial Summary:

Total applied work value: $ 12293.45

PAC name: 116661
Debited PAC amount: $ 0.0
Credited PAC amount: $ 308.89

Total Submission Fees: $ 0.0

Total Paid: **$ 0.0**

Please print this page for your records.

The event was successfully saved.

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