

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

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

TOTAL COST: 1900.00

AUTHOR(S): KEN ELLERBECK

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): \_\_\_\_\_

YEAR OF WORK: 2014

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5532442

PROPERTY NAME: SACK

CLAIM NAME(S) (on which the work was done): 1024223 - SACK EAST

COMMODITIES SOUGHT: Au, Ag, Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092ISE166

MINING DIVISION: NICOLA

NTS/BCGS: 0921038 / 092108W

LATITUDE: 50 ° 23 ' 52 " LONGITUDE: 120 ° 25 ' 23.2 " (at centre of work)

OWNER(S):

1) KEN ELLERBECK

2) \_\_\_\_\_

MAILING ADDRESS:

255 WEST BATTLE STREET

KAMLOOPS BC V2C 1G8

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

1) KEN ELLERBECK

2) \_\_\_\_\_

MAILING ADDRESS:

255 WEST BATTLE STREET

KAMLOOPS BC V2C 1G8

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

underlain by the Upper Triassic Nicola Group volcanic rocks. Largely andesite and basalt with minor thin-interbedded, feldspar porphy, pyroclastic and sedimentary formations. Intrusive dykes of diorite to gabbro composition. Rhyolite identified-banded.

Lapilli tuff, coarse grained andesite, The Oldest rocks in the area are the Paleozoic or older chlorite schists and gneisses which outcrop in the western area of the property.

6-10cm WIDE QUARTZ CHALCEDONY VEIN @ 305-310° DIPS. W. QUARTZ CARBONATE / QUARTZ VEINS - VARIOUS STRIKES, VERTICAL D.I.P.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 28911 30510

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil _____			
Silt _____			
Rock _____			
Other _____			
<b>DRILLING (total metres; number of holes, size)</b>			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) 500M X 200M		1024223	1900.00
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
<b>TOTAL COST:</b>			1900.00

BC Geological Survey  
Assessment Report  
35232

**KEN ELLERBECK**

(Owner & Operator)

**TECHNICAL EXPLORATION REPORT**

(Event 5532442)

on

**PROSPECTING and EXPLORING**

Work done on

TENURES 1024223

of the 2 Claim

**SACK CLAIM GROUP**

Kamloops Mining Division  
BCGS Maps 092I.038 092I048

Centre of Work  
5586000N, 683000E

AUTHOR **KEN ELLERBECK, PMP**

REPORT SUBMITTED January 25, 2014

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**TABLE OF CONTENTS**

<i>Introduction</i> .....	3
<b>Purpose</b> .....	3
<b>Access and Location</b> .....	3
<b>Property Description</b> .....	3
<b>History</b> .....	6
<b>Summary of Work Done</b> .....	11
<i>Regional and Property Geology</i> .....	17
<i>Technical Data and Interpretation</i> .....	25
<i>Interpretation and Conclusions</i> .....	26
<i>Summary and Recommendations</i> .....	26
<i>Itemized Cost Statement</i> .....	27
<i>Statement of Qualifications</i> .....	28
<i>Selected References</i> .....	29

**ILLUSTRATIONS**

<i>Figure 1 Location Map</i> .....	4
<i>Figure 2 Claim Location Google Earth</i> .....	5
<i>Figure 3 Regional Location Map Google Earth</i> .....	5
<i>Figure 4 Claim and Index - Map ARIS MapBuilder</i> .....	6
<i>Figure 5 Commander Resources Ltd. Gold Discovery Anderson Lake / SACK area</i> .....	8
<i>Figure 6 Commander Resources Ltd. Location versus SACK Claims</i> .....	9
<i>Figure 7 TOTEM Minerals Inc. Gossan Alteration 2006</i> .....	10
<i>Figure 8 Sample Locations - Work Areas</i> .....	12
<i>Figure 9 Samples Pictures Rocks and Locations</i> .....	13
<i>Figure 10 COMMANDER Local and Regional Geology</i> .....	21
<i>Figure 11 SACK Local and Regional Geology</i> .....	24

**TABLES**

<i>Table I: Particulars of Grab Samples 2014</i> .....	13, 25
<i>Table II: Summarized Assay Results- Grab Samples-Ellerbeck (2014) – SACK Claim Group</i> .....	25

**APPENDIX**

<i>Sample Preparation and Method of Analysis</i> .....	30
<i>Certificate of Analysis</i> .....	32

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## INTRODUCTION

### PURPOSE

In April 2014 a prospecting program was completed on Tenures 1024223 of the two (2) claim SACK Claim Group.

The purpose of the prospecting program was to locate, if possible, and examine some historic reported geological features (gold bearing structures in particular) occurring within the SACK Claims as well as to examine the geology of the claims and compare those findings to the reported geology of the Commander Resources gold discovery (located adjacent north of claims) and to the Enterprise Mine. Information for this report was obtained from sources cited under Selected References and from a property examination made on April 20, 2014.

### ACCESS AND LOCATION

Road access to the Claims from Kamloops, BC is by Highway 5A south for 70 km. to Stump Lake and then westerly via Long Lake Road for 5 km. and then via a series of logging roads. Access to the Claims is via ranch and logging roads. Access permission was obtained from the Frolek Cattle Company which owns the grazing rights where the SACK Claim Group is located. The Property is located within the dry belt of British Columbia with rainfall between 25 and 30 cm per year. Temperatures during the summer months could reach a high of 35°C and average 25°C with the winter temperatures reaching a low of -10°C and averaging 8°C. On the SACK Claim Group moderate snow cover on the ground could be from December to April and would not hamper a year-round exploration program. Elevations range from 800m to 1200 m. Merritt, BC, and Kamloops, BC both historic mining centers, could be a source of experienced and reliable exploration and mining personnel and a supply for most mining related equipment. Kamloops is serviced daily by commercial airline and is a hub for road and rail transportation. Vancouver, a port city on the southwest corner of, and the largest city in the Province of British Columbia, is four hours distant by road and less than one hour by air from Kamloops.

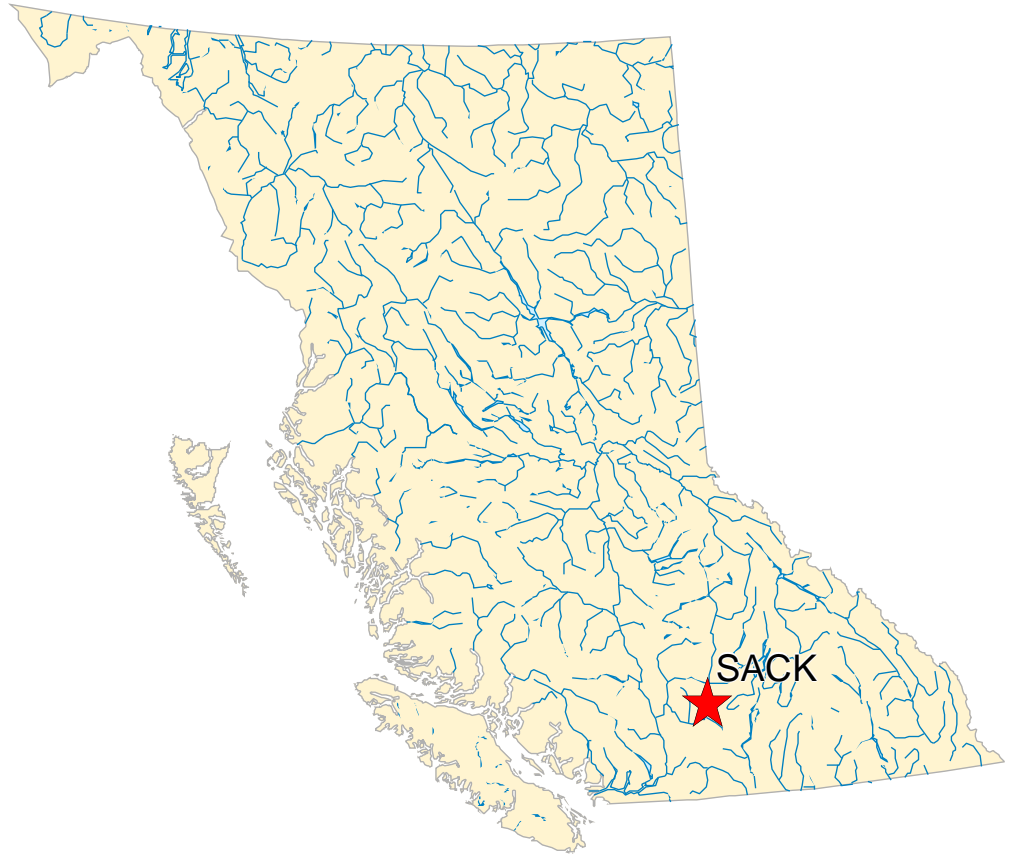
### PROPERTY DESCRIPTION

#### Mineral Titles Online Report – SACK Claim Group

<u>Tenure Number</u>	<u>Type</u>	<u>Claim Name</u>	<u>Good Until</u>	<u>Area (ha)</u>
<a href="#">1024218</a>	Mineral	SACKARILLIAC	20160604	185.3861
<a href="#">1024223</a>	Mineral	SACKEAST	20160604	61.7954

Total Area: 247.1815 ha

Figure 1 LOCATION MAP from MTO Mapbuilder



Map Center: 54.4781N 124.7082W

Figure 2 CLAIM LOCATION MAP (Base Map GOOGLE EARTH)

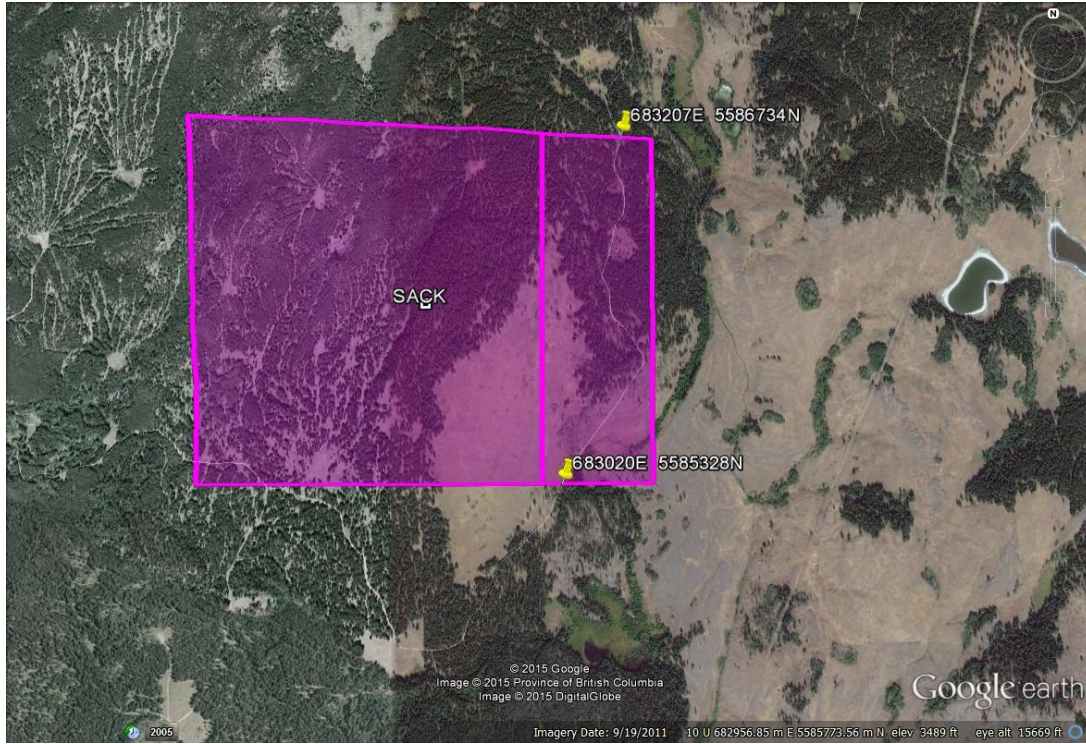
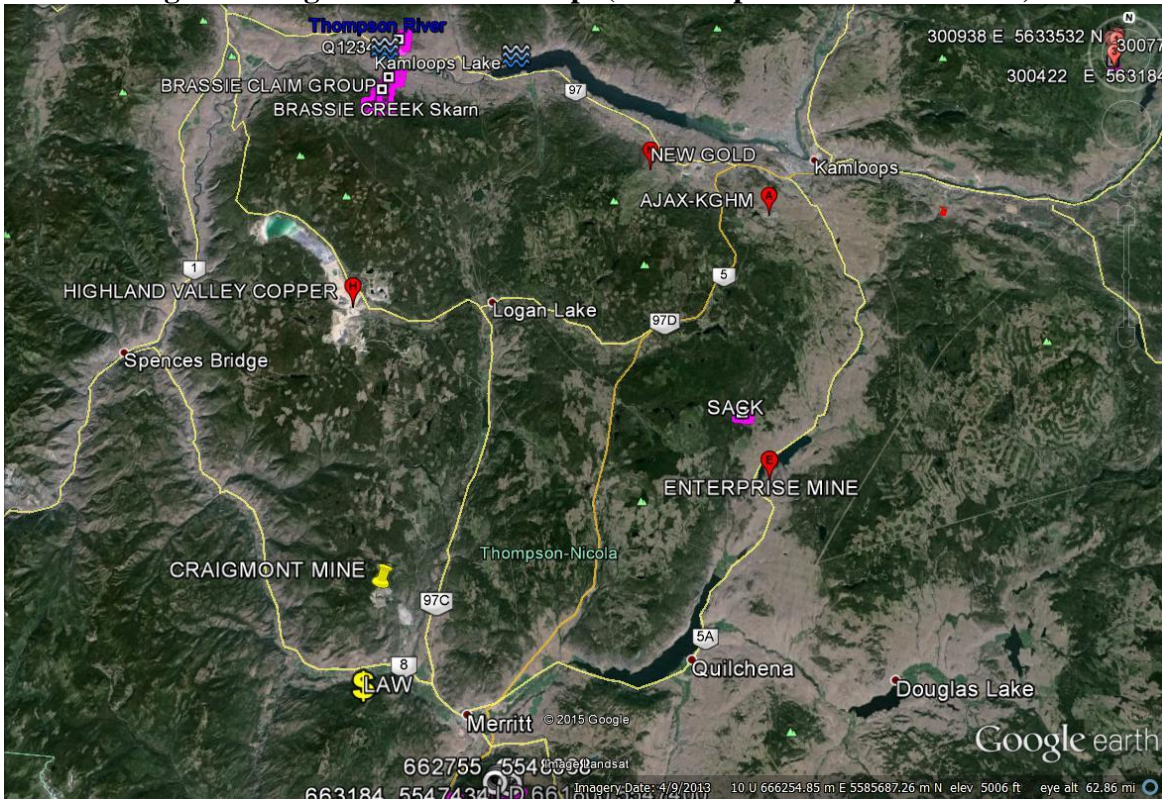
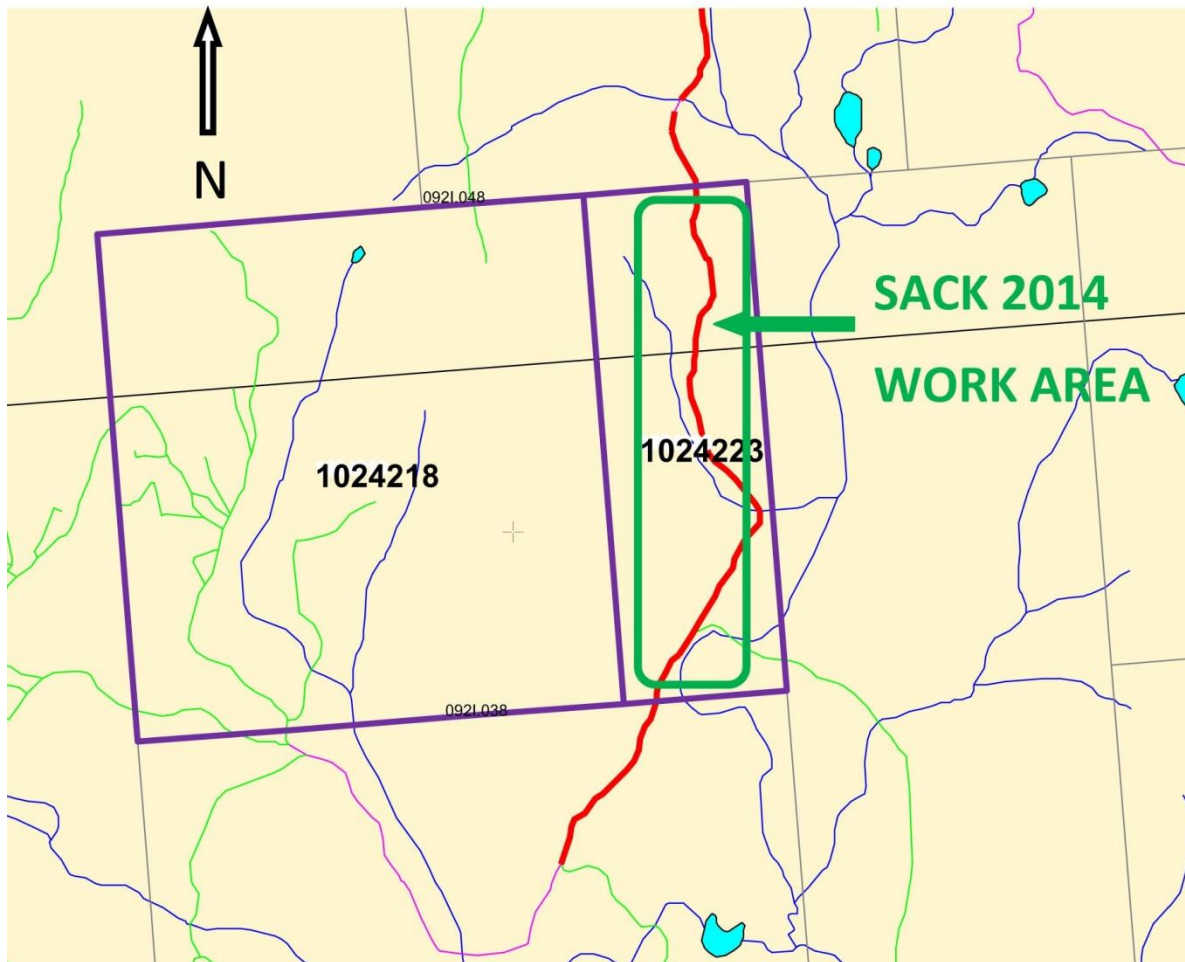


Figure 3 Regional Location Map (Base Map GOOGLE EARTH)



**Figure 4 Claim Map and Index Map – ARIS MapBuilder**

## HISTORY

Exploration by others on land in and near the current SACK Claim Group has been reported.

### **MICROGOLD – to east of SACK Claim Group**

From Drilling Report on the Stump Lake Project (Microgold), TOTEM Minerals Inc. October 31, 2009 J. T. SHEARER, M.Sc, P.Geo. Consulting Geologist. The Microgold property includes the present day SACK Claim Group.

*“Epithermal style gold mineralization, hosted by Upper Triassic Nicola Group volcanic and sedimentary rock has been found on the property. The Microgold property demonstrates many features of classic epithermal deposits such as: the vein mineralogy and textures, the tendency for mineralization to occur in flat vein structures, the suite of geochemical indicator elements, and the presence of gold mineralization locally up to near economic levels. The reported presence of brecciation also fits this model although the exact nature or origin of the breccias is presently uncertain. All of these features create a target that in recent years has attracted the*



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attention of numerous epithermal-oriented explorationists and companies. These rocks are part of the Quesnel Terrane within the Intermontane Tectonic Belt. Gold and silver exploration date back to the 1800's in the Stump Lake area and from the early 1980's on the Microgold Property." and "Hole TSL-09-02 targeted the extensive silicified West Zone.(within BAGEE Claim Group). The clay and carbonate altered volcanics are in fault contact. Malachite was observed on fractures near the end of the hole. All assay intervals contain very low gold values up to 381 ppb Au."..

"Recorded mineral exploration history in the Stump Lake area dates from the late 1800's. Narrow quartz veins at Mineral hill, southeast of Stump Lake, were mined primarily between 1916 and 1941. Total production is reported as 70395 tonnes averaging 3.74 grams per tonne gold, 111.75 grams per tonne silver, 0.03% copper, 1.42% lead, and 0.24% zinc. A small quantity of scheelite was recovered by re-working the tailings during the Second World War. During the 1960's and 1970's, sporadic base metal-oriented exploration targeted areas west and northwest of the Microgold Property. Most of this work investigated copper and copper-molybdenum showings along the fault contact between the Nicola Horst and the regional volcanic assemblages."

### COMMANDER RESOURCES

In 2011 **Commander** Resources Ltd. conducted work on their Stump Lake gold property located adjacent north of the SACK Claim Group ...."Scattered showings of a gold-bearing breccia unit were initially identified over a 1.2 kilometre strike length in limited outcrop with gold values ranging from 0.5 to 6 g/t Au. Recent work has now extended the strike length of gold mineralization to over two and a half (2.5) kilometres." And " The breccia bodies have been emplaced at the western margin of a block of Triassic Nicola volcanics, a fault-bounded uplift that juxtaposes older, arc-related volcanics with younger (Upper Cretaceous) granitoid intrusives. The Moore Creek Fault forms the western boundary of the block less than one kilometre from the Stump lake Showings.

Preliminary interpretation of regional magnetic data indicates a series of small intrusives underlie the gold prospective area." News Release September 13, 2011, Commander Res Ltd. And

Norton, Cam; 2102: Prospecting, Sampling, Geophysical And Diamond Drilling, **Commander** Resources AR33180;....." The results of the 2011-2012 geological, geophysical, and diamond drilling program suggest that gold mineralization is hosted by multi-episodic chalcidonic quartz veins and quartz breccia. A complex faulting history has created a structural setting that is conducive for the occurrence of gold mineralization in fault zones. In addition, evidence exists that defines a possible poly-metallic vein system to the north of unknown quality.

Geophysical data has shown that anomalous chargeability's extend to depths up to 320 meters below surface. Albeit no correlations are able to be drawn between the silicified breccia zone and chargeability or resistivity, the breccia zones were successfully intersected in drill core. Generally the Quartzcarbonate "discovery " vein had an apparent width of 1-2meters and was flanked by a region up to 10m wide containing repetitive 5-10cm wide lesser quartz-calcite veins. The highest assay achieved during the drill program occurred in a relatively shallow drill hole, intersecting 4.79g/t Au over 1m (DDHSL 12-06). Evaluation of the Anderson Lake zones suggest that north, northeast striking structures displaying quartz-carbonate veining are best targets for deep drilling. Evidence from geological mapping and sampling in conjunction with

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petrographic analysis show these structures are host to epithermal style mineralization. The results of the geochemical, geophysical and drilling program support this model, showing pervasive north, northeast trending anomalies can be intersected at depth.”

Figure 5 . Commander Resources Ltd. Gold Discovery Anderson Lake / SACK area

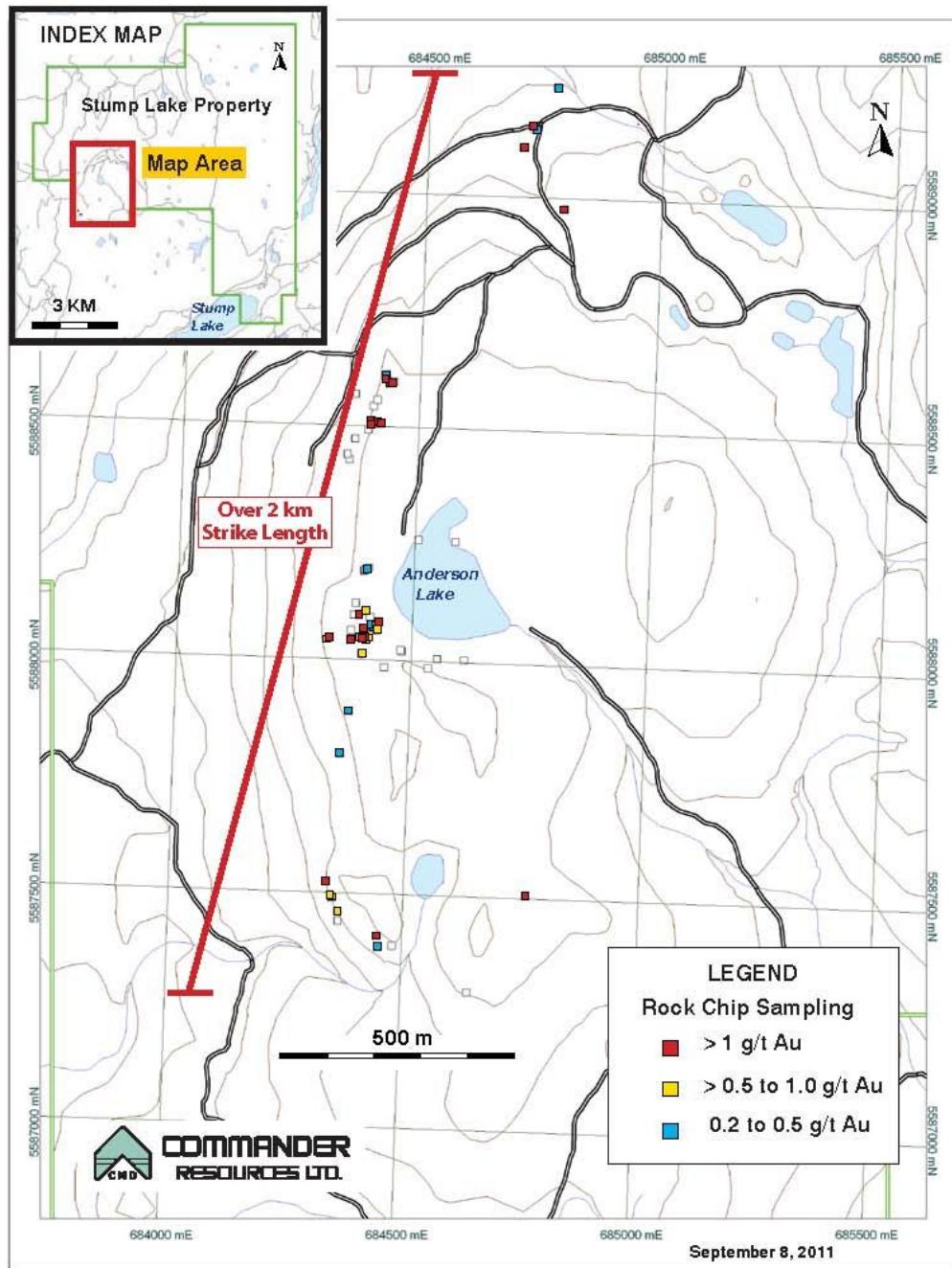


Figure 6 Commander Resources Ltd. Location versus SACK Claims

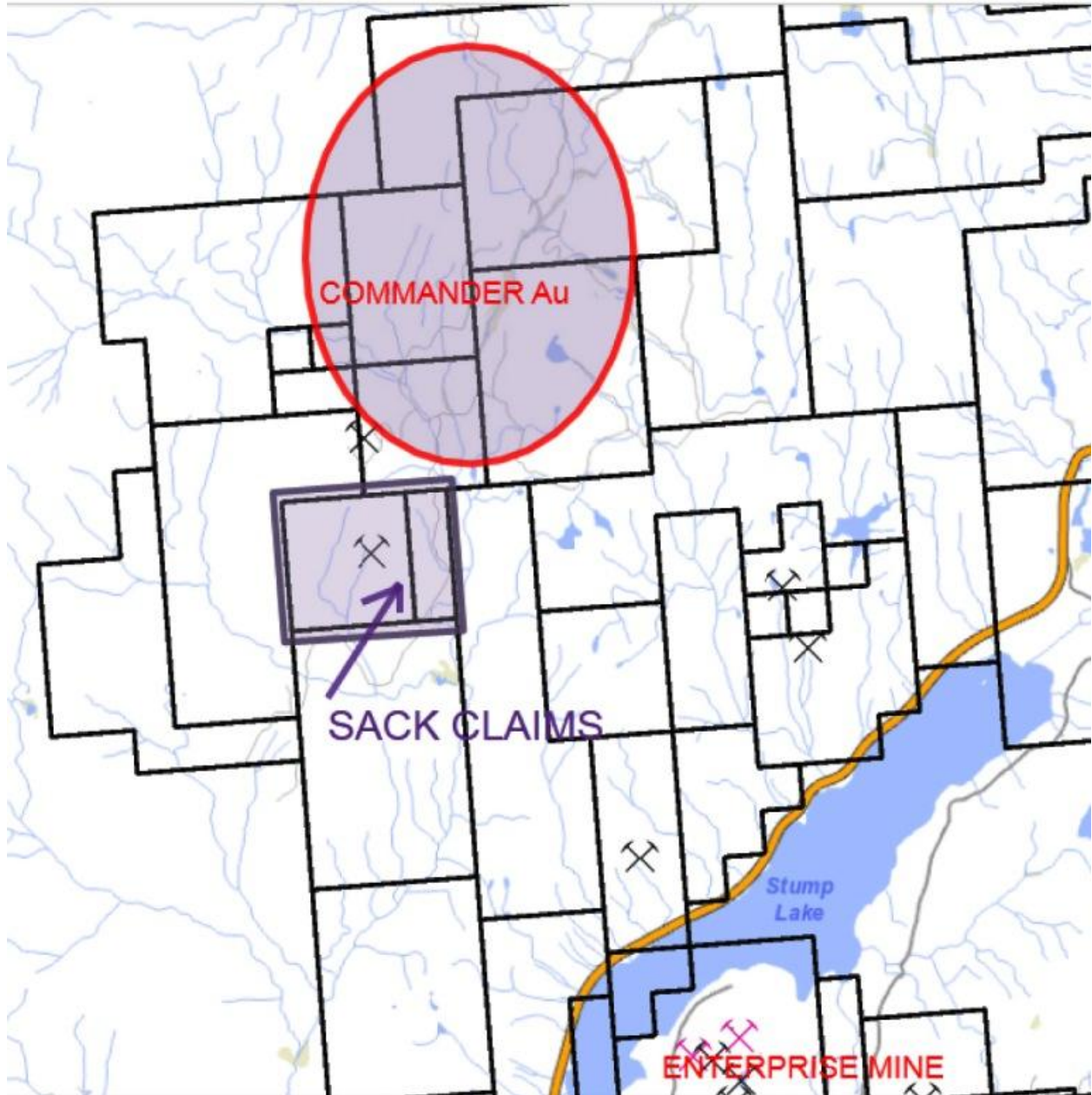
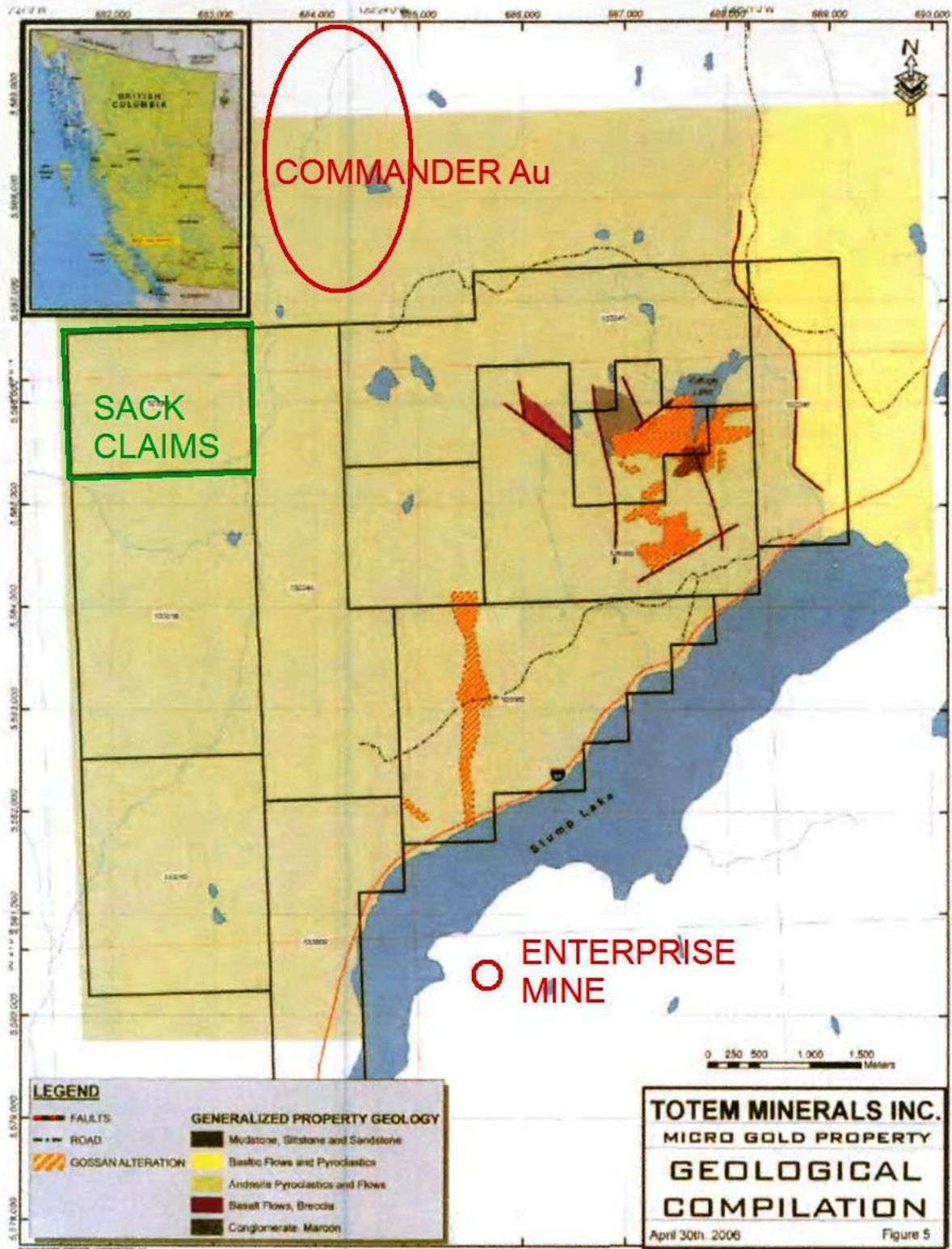


Figure 7 TOTEM Minerals Inc. Gossan Alteration 2006



**SACK – Same Claim name - by previous owner****2008 SAMPLING RESULTS - GLEN MACDONALD, P.GEO. 2008, FOR BRIAN ROBERTS**

*During 2008 three samples of sulphide-rich vein material were collected and tested for precious metal content (682555-57). Two samples were selected of sulphide-rich veinlets cross-cutting massive carbonatized-sericitized volcanic rock units (682555 and 682557). These samples returned significant content of gold (32.30 and 33.33 GM/T).*

and

*Brian Robert's Sack property covers structurally-controlled epithermal alteration similar to that at the **geologically similar Enterprise Mine**.*

*The Enterprise Mine (which produced a modest 77,600 tons of ore intermittently from 1916 to 1944) has been categorized by subsequent academic study to be a **"classic" epithermal deposit** and provides a model for further work at the Sack. Further exploration at Brian Robert's project should be directed to testing for epithermal mineralization at depth and bulk-mineable silver+gold occurrences near surface in the carbonatized region. Rock alteration studies and a geological review of the project setting should be undertaken to orientate a deep penetrating electromagnetic and/or IP geophysical survey. State-of-the-art geophysical equipment has the ability to investigate structures on the Sack property at depths comparable to the elevations mined at the Enterprise mine before selecting drill targets.*

**The SACK Claim Group was acquired by online staking by the Author and Current Owner. Tenures 1024218 AND 1024223 were acquired by online staking December 04, 2013.**

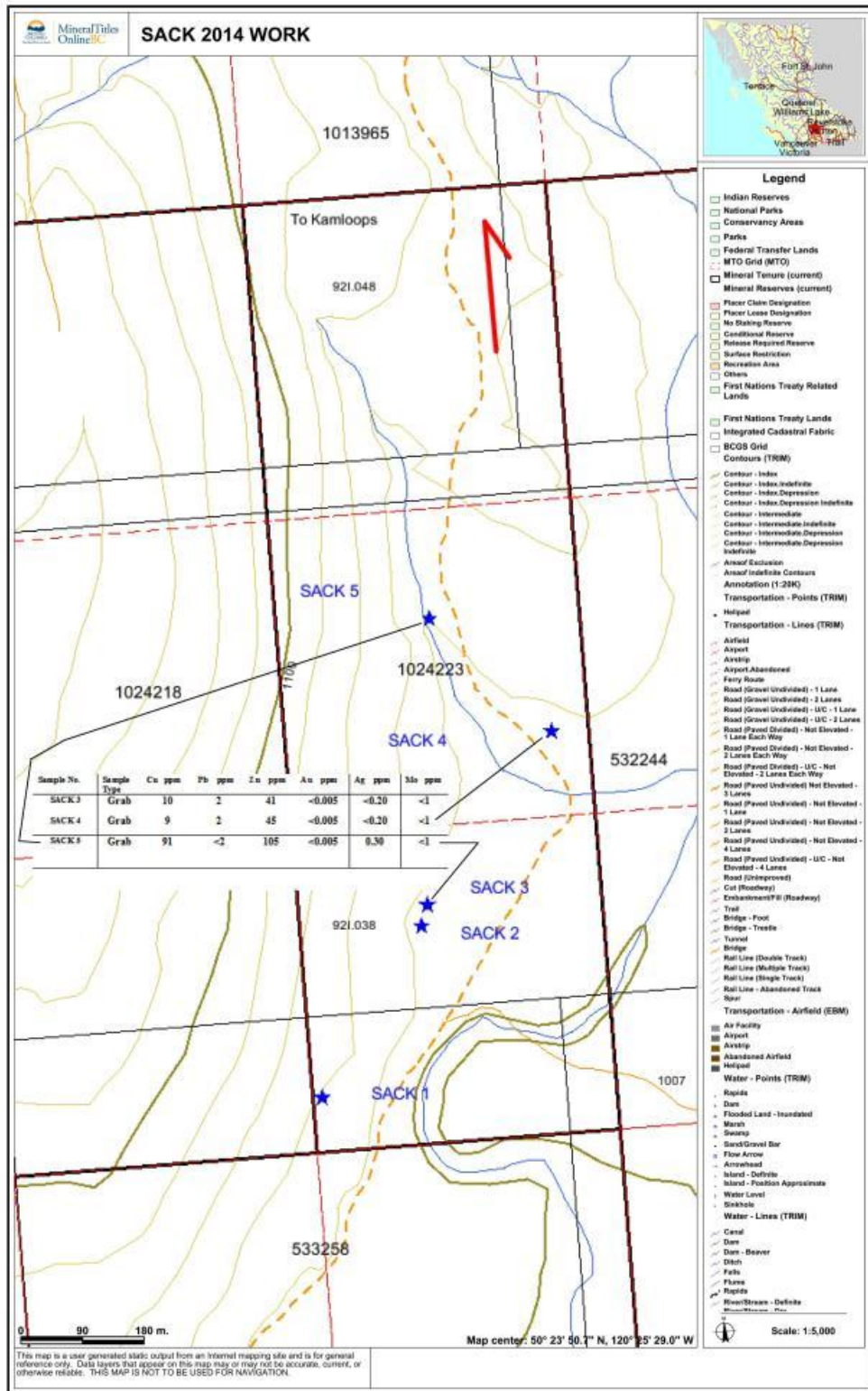
**SUMMARY OF WORK DONE 2014**

The Tenure Numbers in the SACK CLAIM GROUP on which work was performed:

Prospecting was conducted on 1024223 ON April 20, 2014. (Figure 7-9).

One (1) field day was spent on the SACK CLAIM GROUP project, including prospecting and travelling to and from the property. One (1) day was spent researching reference material, and a further one (1) day was spent compiling data, drafting and writing this report.

Figure 8 Sample Locations Area



**2014 WORK PROGRAM**

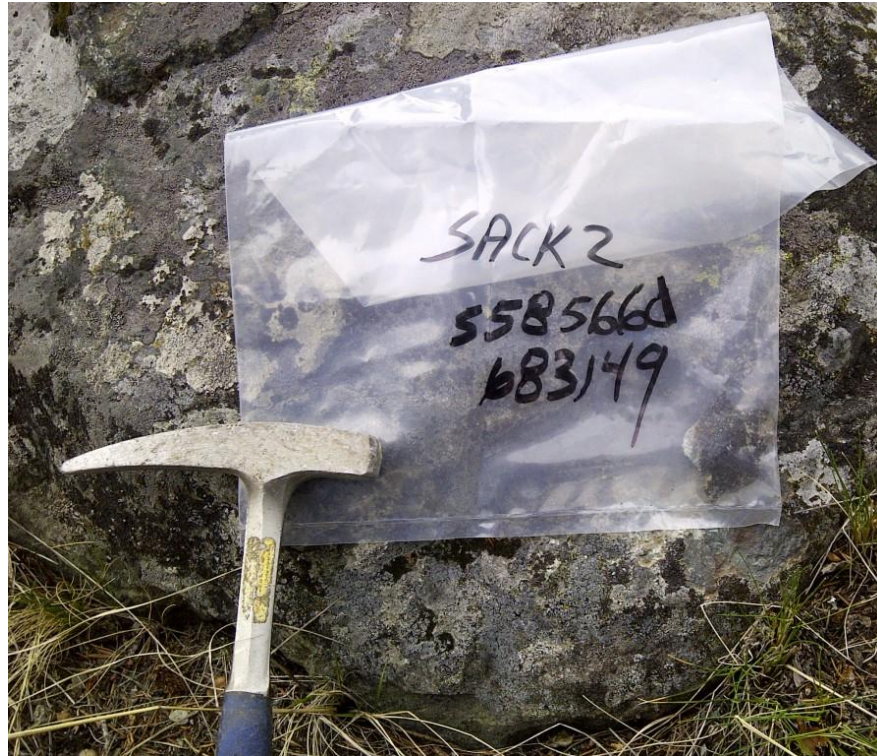
**Sampling Program** - The author was on the SACK Claim Group in April 2014 to select rock samples for verification of the reported mineralization and geology on the Property. Five (5) grab samples were taken from 5 different sites. Three (3) grab samples were submitted for assay.

**Table I. Particulars of Grab Samples taken by ELLERBECK (2014) Claim Claim Group**

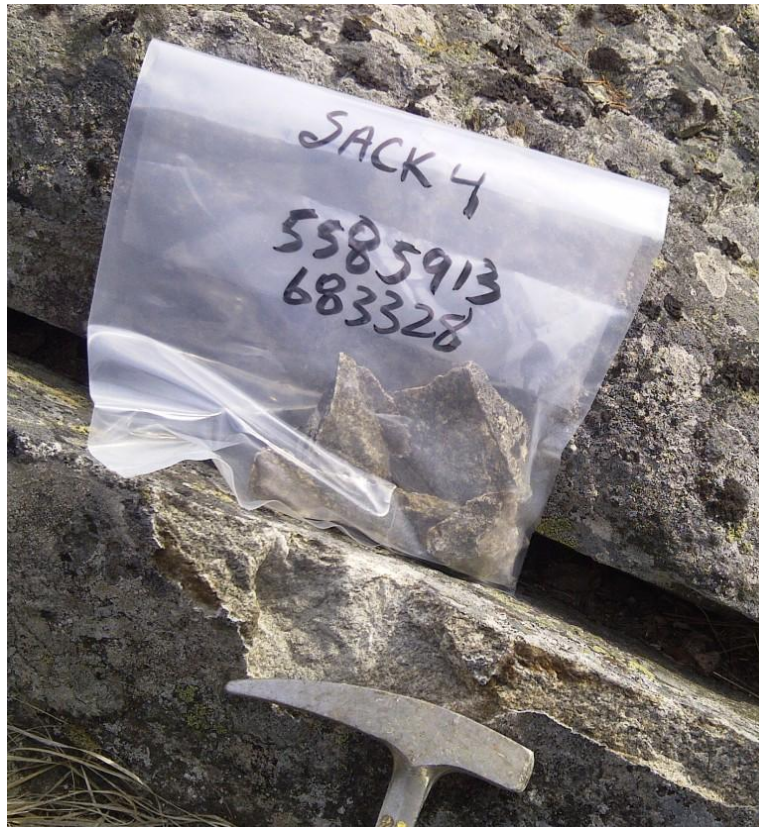
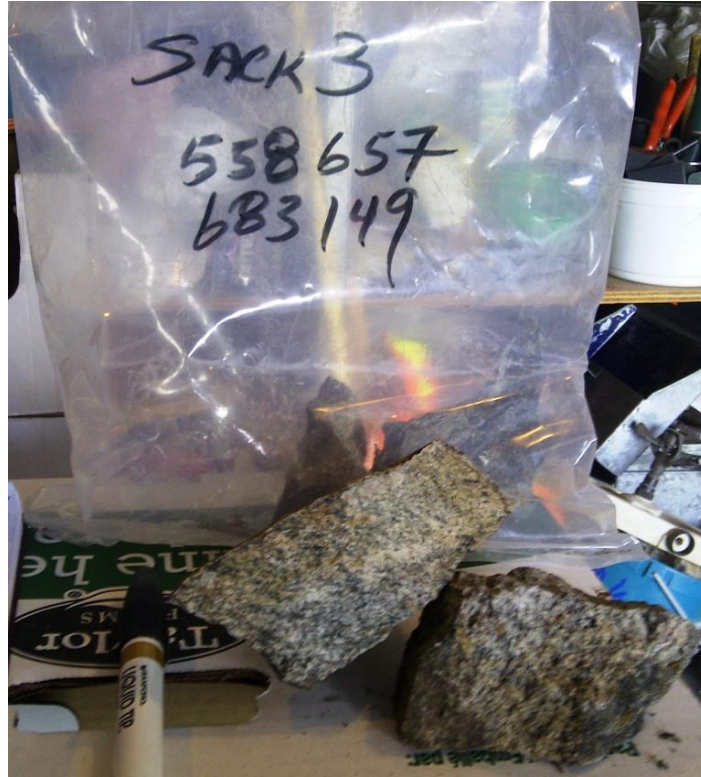
LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
			All OUTCROP unless indicated
SACK 1	0682976	5585421	Dark Brown-Black Volcanic – fine grained - hard
SACK 2	0683149	5585660	Dark Green-Black Volcanic – fine grained-hard
SACK 3	0683149	5586570	Granite
SACK 4	0683328	5585593	Granite
SACK 5	0683134	5586119	Weathered, banded, iron stained rhyolite

**FIGURE 9 LOCATION AND TYPICAL ROCK PICTURE (1 of 5)**

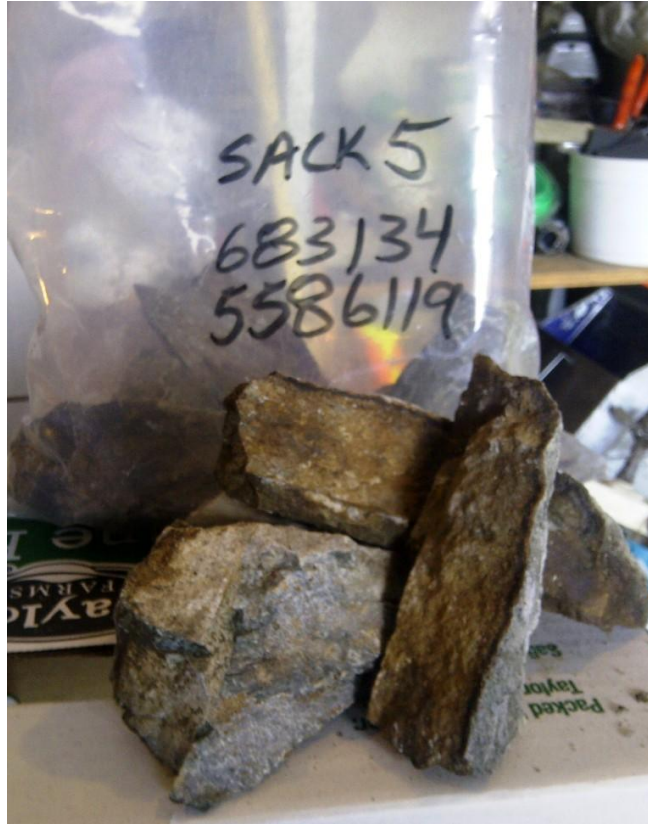












## **SUMMARY OF REGIONAL AND PROPERTY GEOLOGY**

### **REGIONAL GEOLOGY**

#### **Regional Geology**

From Norton, Cam; 2102: Prospecting, Sampling, Geophysical And Diamond Drilling, Commander Resources AR33180; and

Norton, Cam; 2011: Geochemical Report on Stump Lake Claims, Commander Resources AR 32753. The Commander gold property is adjacent north of the SACK Claim Group.

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

*The region around Stump Lake is underlain by late Triassic arc-volcanics and sedimentary units designated to the Nicola group. Facies changes within these units are indicative of a depositional setting which rapidly fluctuated between a sub-areal and sub-aqueous environment. Shortly after deposition, the Nicola group was intruded by both coeval Triassic and Jurassic plutons (Moore et al, 1990). In the mid Jurassic the Nicola group was then obducted onto*

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present day western North America resulting in moderate to steeply dipping fabric (Lindinger, 1996). Locally this fabric is cut and displaced by west and south dipping thrust faults. The metamorphic grade of the units is of lower greenschist type.

During the Tertiary period substantial faulting occurred creating the present day Nicola Horst, located on the west side of the property. This north trending horst contains fault bounded black schist which has been metamorphosed to Amphibolite facies along with lesser altered metagabbros and granites. The Paleocene aged Rocky Gulch granodiorite is the only unit to have not undergone deformation (Moore et al, 1990).

And from Drilling Report on the Stump Lake Project (Microgold), TOTEM Minerals Inc. October 31, 2009 J. T. SHEARER, M.Sc, P.Geo. Consulting Geologist.

*The geology of the area surrounding Nicola Lake, including Stump Lake, has been mapped on a regional scale several times since 1896, starting with a classic study by G. M. Dawson.*

*Mapping at a scale of 1:253440 was completed by Cockfield (GSC) in 1948 followed by more detailed mapping of selected areas in the 1960's and 1970's. A new regional map sheet was compiled by Monger and McMillan (GSC) in 1984. Geological mapping in 1988 and 1989, in conjunction with the LITHOPROBE multidisciplinary earth science project based on seismic surveys, was published by the BC government as Open File 1990-29 "Nicola Lake Region Geology and Mineral deposits" by J. M. Moore et.al. Regional geology is shown on Figure 4, after Gamble (1985), modified from Moore's work.*

*The area north of Stump Lake is underlain by mafic volcanoclastic rocks of the Late Triassic Nicola Group. These are bordered on the west by the Triassic Nicola Horst complex, unconformably overlain on the east by Eocene clastic and volcanic rocks of the Kamloops group, and obscured on the north by Miocene olivine basalts. Small tertiary intrusions of mainly intermediate composition have been noted and a small Tertiary sedimentary basin occupies a structural depression at the south end of Kullagh Lake.*

*Structurally, the area is dominated by major faults trending north to northeasterly. The Quilchena-Moore Creek fault system, which marks the eastern edge of the Nicola Horst, passes a few kilometres west of the Microgold Property. This 015° trending system can be traced for at least 50km and has been tentatively dated as Tertiary. To the east, the contact of the Nicola and Kamloops formations is marked by the 345° trending Stump Lake fault which cuts along the eastern side of the Microgold claim block and appears to coalesce with the Quilchena-Moore Creek fault a few kilometres north of the property. South of Stump Lake, the Stump Lake fault curves westerly, joining the Quilchena fault at the northeast end of Nicola Lake. This fault-bounded, 25km long elliptical block of mainly Nicola Group rocks is cut by numerous northerly and northeasterly trending faults. The recently expanded Microgold property covers nearly 10km of this block. Previous workers have suggested that the polymetallic sulphide assemblages mined at Mineral Hill are mesothermal equivalents of the epithermal gold-bearing quartz veins north of Stump Lake and postulated the presence of a fault structure coincident with the lake or a syncline bordering and parallel to the north shore of Stump Lake.*

## **LOCAL GEOLOGY**

The claim blocks are indicated as being underlain by the Upper Triassic Nicola Group volcanic rocks. These rocks consist largely of andesite and basalt with very minor, thin-interbedded pyroclastic and sedimentary formations. Intrusive dykes of diorite to gabbro composition also

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occur within the Nicola sequence, possibly representing the intrusive feeders, to the extrusive flow rocks.

The Oldest rocks in the area are the Paleozoic or older chlorite schists and gneisses which outcrop in the western area of the property. Also to the west are the intrusive Nicola Batholith rocks of granite, granodiorite and quartz diorite composition.

Fracturing, faulting (including the regional scale Quilchena fault system) and topographic lineaments tend to exhibit generally north-south strikes.

### **Property Geology**

The Sack claims are underlain by Triassic-Jurassic Nicola Group volcanics and sediments subdivided into five district lithologies.

#### ***Geological Units***

(Macdonald 2008) Unit 1 consists of volcanics subdivided into Unit 1a, a fine to medium grained dark green, often amygdaloidal andesite-basalt, and Unit 1b, feldspar porphyry, and fine grained, dark green matrix with white to gray feldspar phenocrysts. Unit 2 is subdivided into Unit 2a, rhyolite which is fine-grained, white to grey colored, siliceous, often with well developed banding, and Unit 2b, a lapilli tuff, fine to medium grained, white to green colored, and siliceous. Unit 3 consists of coarse grained massive andesite to basalt locally with coarser grained gabbroic zones. This unit may represent a synvolcanic intrusive phase of Unit 1. Unit 4 is a coarse grained, polymictic volcanic breccia agglomerate, with conglomeratic-like phases. The breccia matrix is fine grained, mafic and often epidote rich. Unit 5 is composed of a fine grained, aphanitic, grey to black, well bedded argillite. The unit is pervasively gossan stained.

#### **MINERALIZATION**

On the Sack claims, two styles of mineralizing events have occurred (Macdonald 2008):

- i) In the southwest corner of the property, a narrow (6-10 cm wide) quartz chalcedony sheeted vein occurs striking 305-310 degrees and dipping SW. Parallel, enechelon quartz-chalcedony veins up to 3 cm wide occur adjacent to the main vein. The vein structure is exposed intermittently in a creek bed. Overburden covers the vein structure at either end. Extensive clay, argillic alteration is present on either side of the vein. The vein may represent the upper level of an epithermal vein.
- ii) Coincident with Unit 1a and 1b andesite-basalts in the central area of the claim group, intermittent quartz-carbonate veining occurs with brecciation, fracturing, silicification, pyritization (1-2%) and is weakly gossanized. Numerous quartz and quartzchalcedony veins were located, oriented at various azimuths but generally steeply to vertically dipping. The veins are narrow, generally less than 0.5 meters. During 2008 samples were collected from narrow (1-3 cm wide) arsenic and galena-rich veinlets.

Figure 10 Geology (1 of 2) from Commander AR33180

Figure 6. Local Geology of the Stump Lake Property and Section A-A' Location

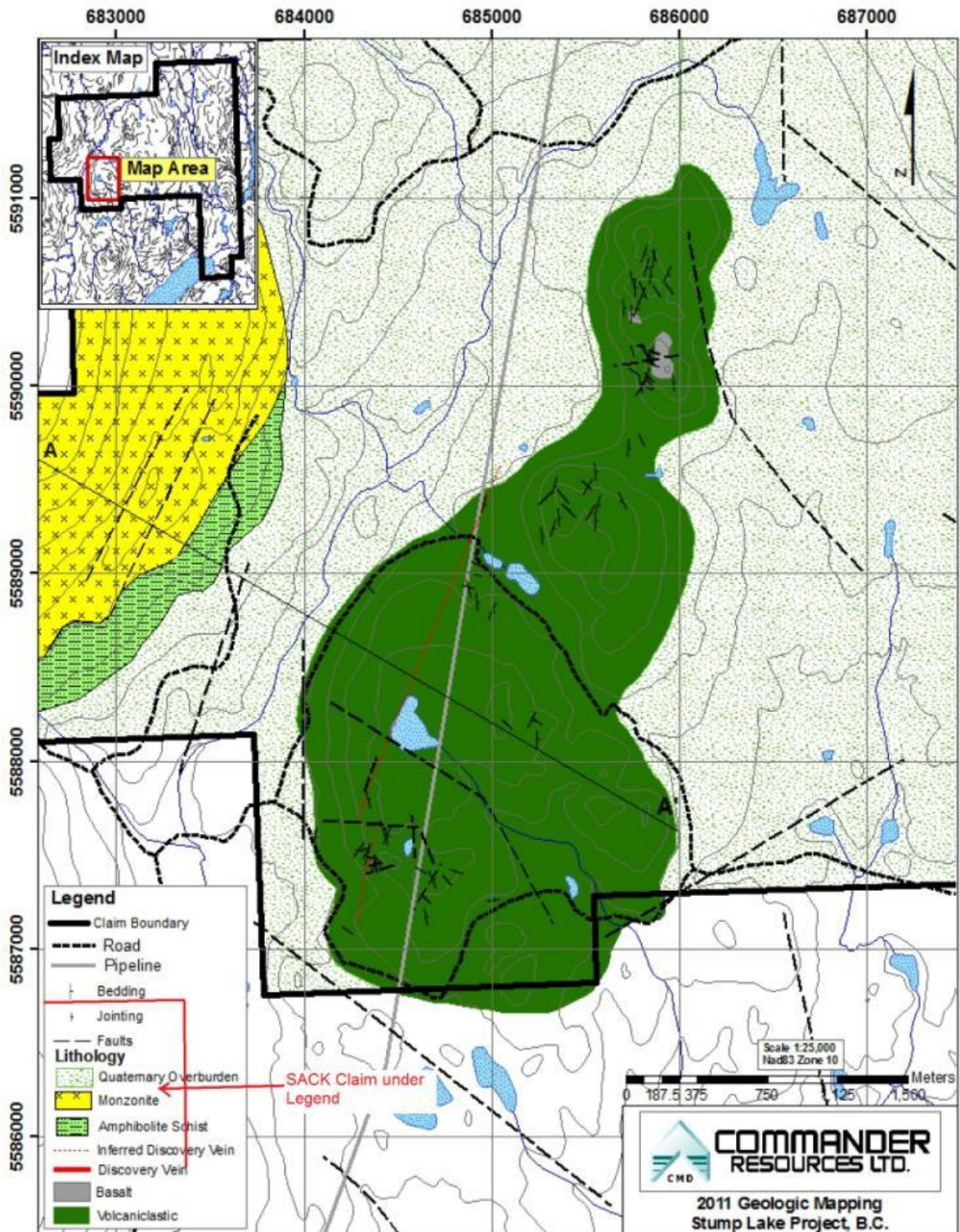
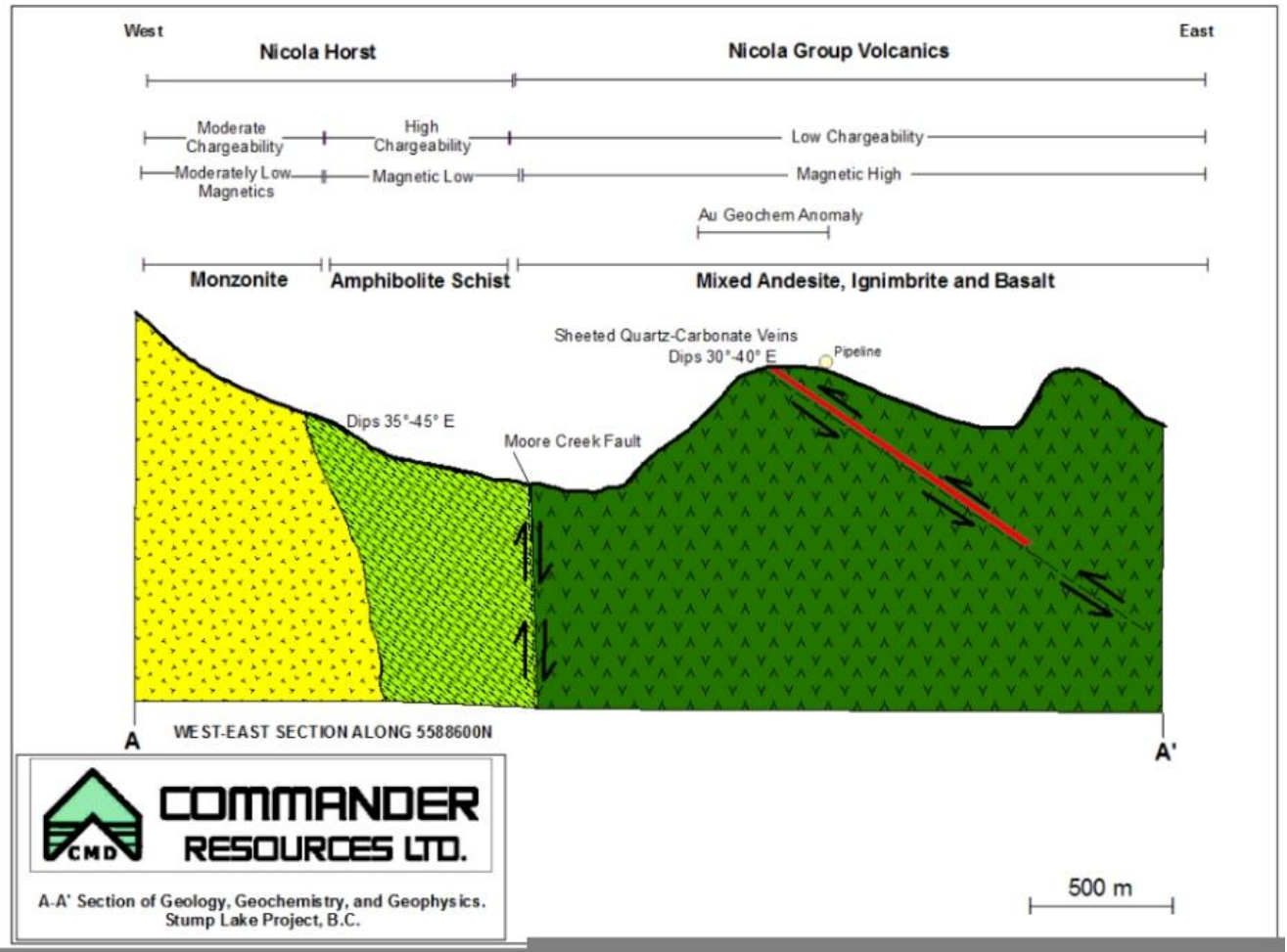


Figure 14. Summary Cross Section of Local lithology, Structures and Surveys.



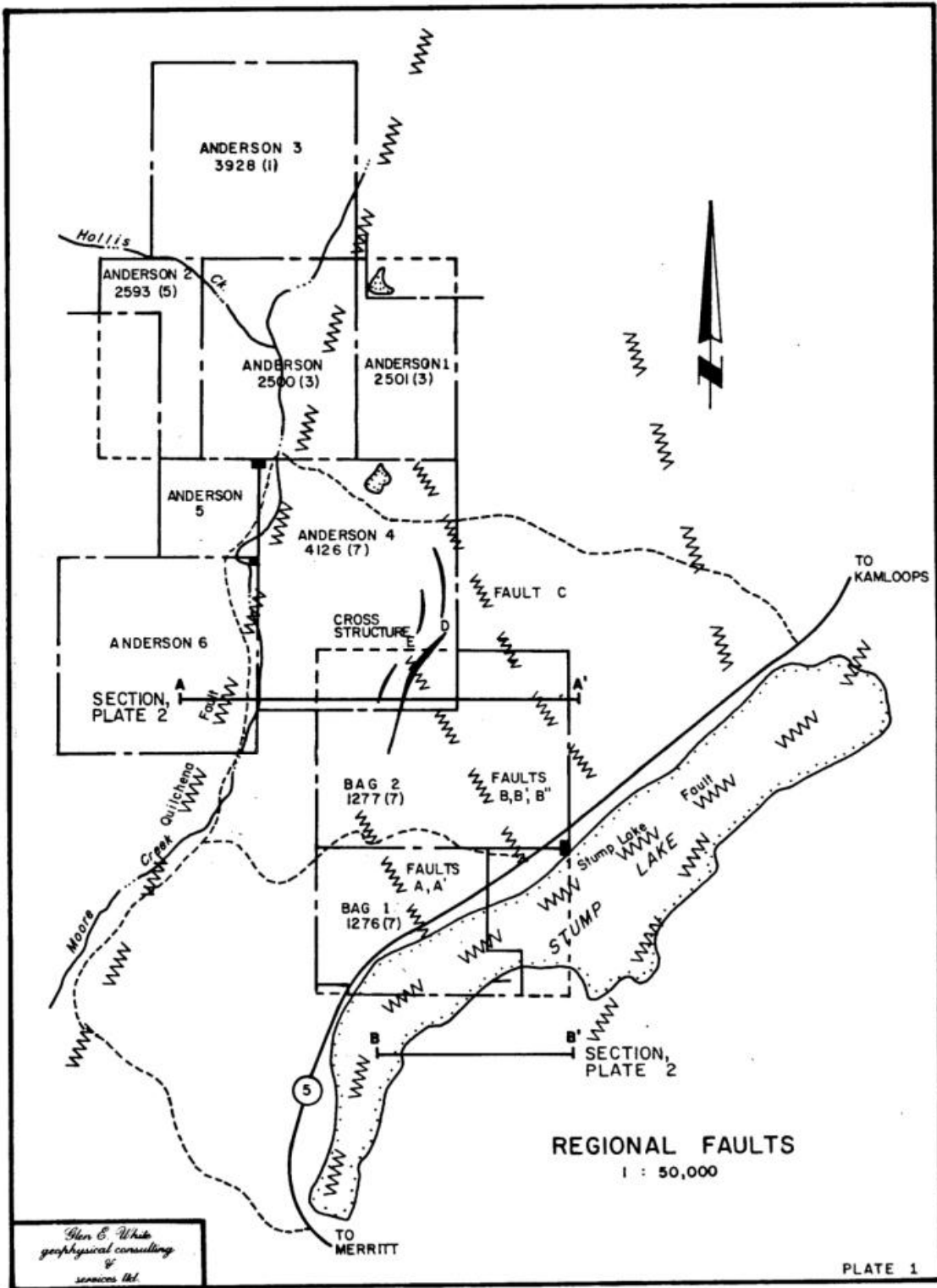
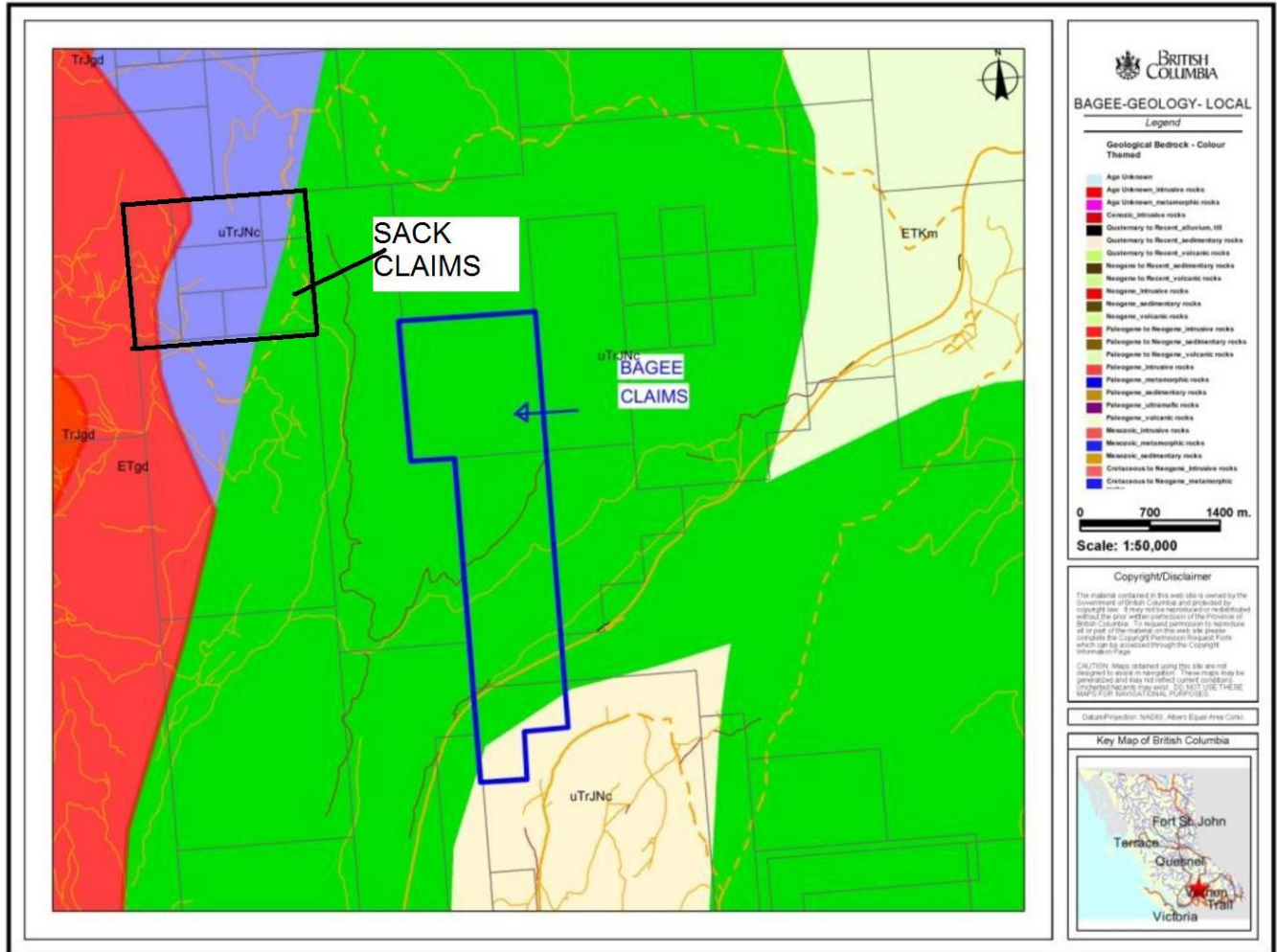
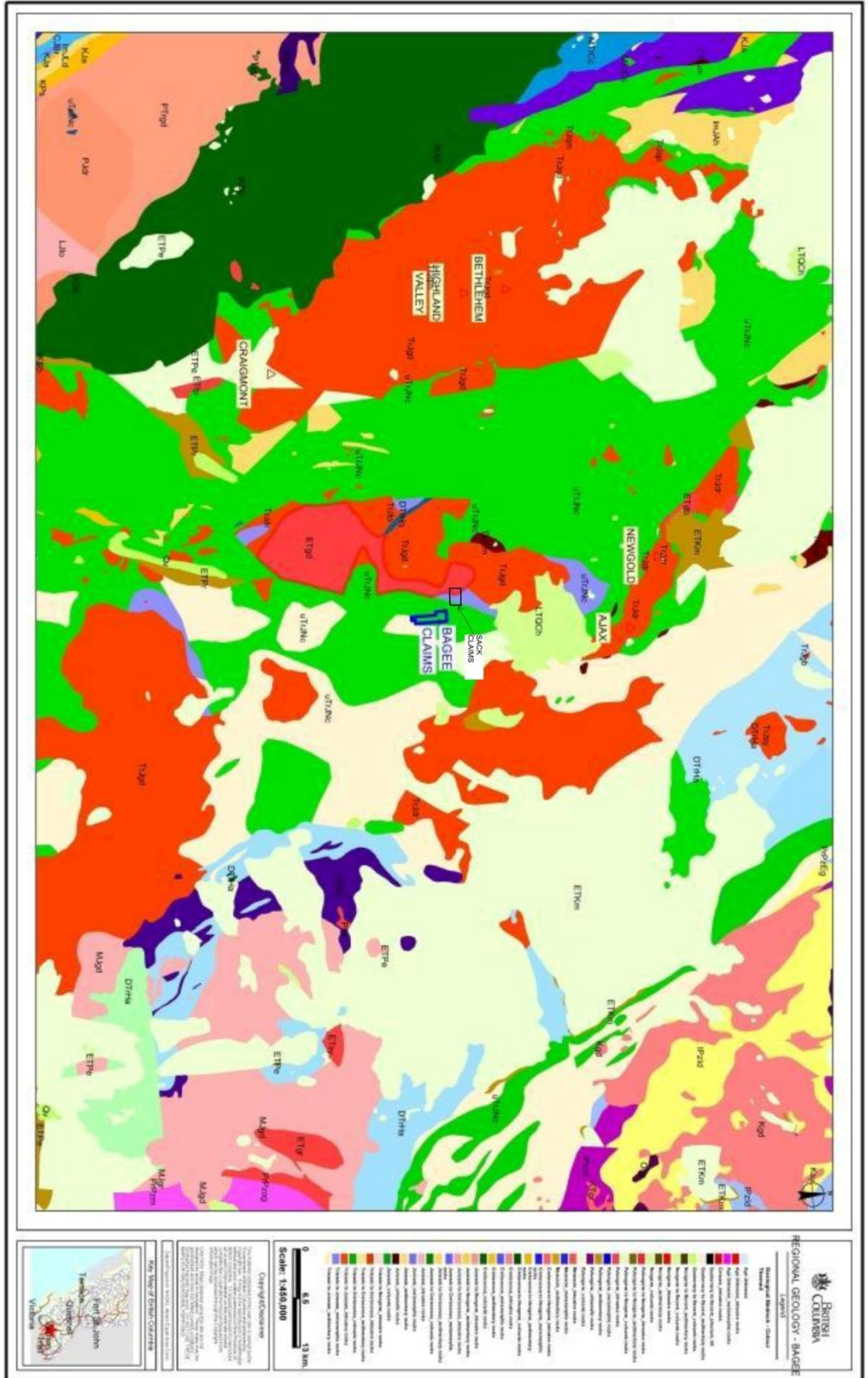




Figure 11 SACK CLAIM GROUP Local and Regional Geology  
Local Geology





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

Prospecting on the two (2) claim SACK Claim Group confirmed the presence of volcanic rocks, granitic rocks and rhyolite type rocks in the Work Area.

**Table I. Particulars of Grab Samples taken by ELLERBECK (2014) SACK Claim Group**

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
			All OUTCROP unless indicated
SACK 1	0682976	5585421	Dark Brown-Black Volcanic – fine grained - hard
SACK 2	0683149	5585660	Dark Green-Black Volcanic – fine grained-hard
SACK 3	0683149	5586570	Granite
SACK 4	0683328	5585593	Granite
SACK 5	0683134	5586119	Weathered, banded, iron stained rhyolite

**TECHNICAL DATA AND INTERPRETATION**

**Table II. Summarized Assay Results- Grab Samples-Ellerbeck (2014) – SACK Claim Group**

Sample No.	Sample Type	Cu ppm	Pb ppm	Zn ppm	Au ppm	Ag ppm	Mo ppm
SACK 3	Grab	10	2	41	<0.005	<0.20	<1
SACK 4	Grab	9	2	45	<0.005	<0.20	<1
SACK 5	Grab	91	<2	105	<0.005	0.30	<1

**PURPOSE**

In April 2014 a prospecting program was completed on Tenures 1024223 of the two (2) claim SACK Claim Group. The purpose of the prospecting program was to locate, if possible, and examine some historic reported geological features (gold bearing structures in particular) occurring within the SACK Claims as well as to examine the geology of the claims and compare those findings to the reported geology of the Commander Resources gold discovery (located adjacent north of claims) and to the Enterprise Mine. Information for this report was obtained from sources cited under Selected References and from a property examination made on April 20, 2014.

**ASSAY RESULTS of Rock Samples:**

SACK 3: Granite outcrop – no mineralization visible – no anomalous results.

SACK 4: Granite outcrop – no mineralization visible – no anomalous results.

SACK 5: Weathered, banded, layered iron stained rhyolite – siliceous. **5.87% Fe and elevated Cu, Zn, Ag.**

## PROSPECTING RESULTS - Outcrops

Sample 1: confirmed local/property and regional geological mapping;  
Sample 2: confirmed local/property and regional geological mapping;  
Sample 3: confirmed local/property and regional geological mapping;  
Sample 4: confirmed local/property and regional geological mapping;  
Sample 5: confirmed local/property and regional geological mapping; \* See Assay Results

## INTERPRETATIONS AND CONCLUSIONS

The Owner/Author did not confirm the reported presence of gold mineralization located in the SACK Claims per historic assessment report references, AR30510.

However the Author confirmed rock types and geology previously reported in historic assessment reports covering claims which are now SACK and in the SACK area.

Also, Elevated values of Cu, Zn, Ag and Fe were found in SACK 5; **5.87% Fe and elevated Cu, Zn, Ag.** \* *No assays from the location of SACK 5 grab sample have been previously reported.*

These results warrant further detailed investigation.

## SUMMARY AND RECOMMENDATIONS

Reportedly the SACK Claim Group covers structurally-controlled epithermal alteration similar to that at the geologically similar Enterprise Mine. The Enterprise Mine (which produced a modest 77,600 tons of ore intermittently from 1916 to 1944) has been categorized by subsequent academic study to be a “classic” epithermal deposit and provides a model for further work at the SACK. Further exploration should be directed to testing for epithermal mineralization at depth and bulk-mineable silver+ gold occurrences near surface in the carbonatized region. Rock alteration studies and a geological review of the project setting should be undertaken to orientate a deep penetrating electromagnetic and/or IP geophysical survey. State-of-the-art geophysical equipment has the ability to investigate structures on the SACK CLAIMS at depths comparable to the elevations mined at the Enterprise mine before selecting drill targets.

In addition, Commander Resources Ltd in 2011 announced the discovery of a significant gold-bearing structure adjacent North of the SACK Claims. Within the Commander claims, scattered showings of a gold-bearing breccia unit were initially identified over a 1.2 kilometre strike length in limited outcrop with gold values ranging from 0.5 to 6 g/t Au. Recent work has now extended the strike length of gold mineralization to over two and a half (2.5) kilometres. Therefore it is recommended by the Author that a comprehensive prospecting plan be created and executed in the field as soon as practical in order to confirm and map the extent of the Gossan Alteration Zone and to confirm and map the extent of the Enterprise Mine – Stump Lake geology within the BAGEE Claim Group.

Elevated values of Cu, Zn, Ag and Fe were found in SACK 5; **5.87% Fe and elevated Cu, Zn, Ag** and these results warrant further detailed investigation of the SACK Claim Group.

\* *No assays from the location of SACK 5 grab sample have been previously reported.*

These results alone warrant further detailed investigation of the SACK Claim Group.

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## ITEMIZED COST STATEMENT for SACK CLAIM GROUP PROSPECTING 2014

Exploration Work type	Comment	Days			Totals
<b>PROSPECTING &amp; EXPLORATION SACK CLAIM GROUP</b>					
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Ken Ellerbeck / Owner	April 20, 2014	1	\$400.00	\$400.00	
G. Ellerbeck / Helper	April 20, 2014	1	\$200.00	\$200.00	
Ken Ellerbeck / Owner		0	\$400.00	\$0.00	
G. Ellerbeck / Helper		0	\$200.00	\$0.00	
		0	\$200.00	\$0.00	
			\$0.00	\$0.00	
				\$600.00	<b>\$600.00</b>
<b>Office Studies</b>	<b>List Personnel (note - Office only, do not include field days)</b>				
Literature search	Ken Ellerbeck	0.5	\$400.00	\$200.00	
Database compilation	Ken Ellerbeck	0.5	\$400.00	\$200.00	
General research	Ken Ellerbeck	0.5	\$400.00	\$200.00	
Report preparation	Ken Ellerbeck	1.0	\$400.00	\$400.00	
Other (specify)				\$0.00	
				\$1,000.00	<b>\$1,000.00</b>
<b>Ground Exploration Surveys</b>	<b>Area in Hectares/List Personnel</b>				
Prospect	see Personnel Field Days				
Underground					
Trenches				\$0.00	<b>\$0.00</b>
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Soil	ALS MINERALS Vancouver	0.0	\$0.00	\$0.00	
Rock	ALS MINERALS Vancouver	3.0	\$45.00	\$135.00	
				\$135.00	<b>\$135.00</b>
<b>Transportation</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
KM Kamloops-property-return	April 20, 2014	200.00	\$0.95	\$190.00	
KM Kamloops-property-return			\$0.95	\$0.00	
To Assay Lab - Return			\$0.95	\$0.00	
				\$190.00	<b>\$190.00</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>				
Hotel			\$0.00	\$0.00	
Camp			\$0.00	\$0.00	
Meals	2 man-days @\$30/day	2.00	\$30.00	\$60.00	
				\$60.00	<b>\$60.00</b>
<b>Miscellaneous</b>					
Telephone			\$0.00	\$0.00	
Other (Specify)					
				\$0.00	<b>\$0.00</b>
<b>Equipment Rentals</b>					
Field Gear (Specify)			\$0.00	\$0.00	
Other (Specify)					
				\$0.00	<b>\$0.00</b>
<b>Freight, rock samples</b>					
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$0.00	<b>\$0.00</b>
<b>TOTAL Expenditures</b>					<b>\$1,985.00</b>

**STATEMENT OF AUTHOR'S QUALIFICATIONS**

---

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

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

I have completed University level introductory geology courses.

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

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

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

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

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

SIGNED



KENNETH C. ELLERBECK

---

**LIST OF SELECTED REFERENCES**

- BC Geological Survey, Ministry of Energy, Mines & Petroleum Resources – MINFILE : 092ISE107  
British Columbia Survey Branch, The Map Place.  
Norton, Cam; 2102:  
    Prospecting, Sampling, Geophysical And Diamond Drilling, Commander Resources AR33180  
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    Geochemical Report on Stump Lake Claims, Commander Resources AR 32753  
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Dupre, D. G., 1987:  
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White, G.E., 1985:  
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Map 886 A, Nicola, (Geol.) Sc. Accomp. Memoir 249, Geol. Survey of Canada (1948).

**LIST OF SOFTWARE PROGRAMS USED**

ADOBE PHOTOSHOP 7.0, PAINT for WINDOWS, ARIS MAPBUILDER – Map Data downloads Imap BC – Map Data downloads MtOnline - MINFILE downloads.

Page: 1  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 1-DEC-2014  
 Account: ELLERK

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

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



**CERTIFICATE KL14173159**

This report is for 12 Rock samples submitted to our lab in Kamloops, BC, Canada on 20-NOV-2014.

The following have access to data associated with this certificate:

KEN ELLERBECK

**SAMPLE PREPARATION**

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

**ANALYTICAL PROCEDURES**

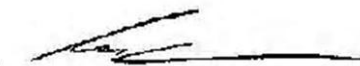
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

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

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

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

Signature:

  
 Colin Ramshaw, Vancouver Laboratory Manager





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**KAMLOOPS BC V2C 1G8**

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 1-DEC-2014  
 Account: ELLERK

**CERTIFICATE OF ANALYSIS KL14173159**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

<p>Applies to Method:</p> <p>Applies to Method:</p>	<p>Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada.</p> <p>CRU-31                      CRU-QC                      LOG-22                      PUL-31          PUL-QC                      SPL-21                      WEI-21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <p>Au-AA23                      ME-ICP41</p>



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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 1-DEC-2014  
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**CERTIFICATE OF ANALYSIS KL14173159**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd WL	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
LD2		0.91	<0.005	0.4	0.23	14	<10	60	<0.5	<2	23.2	6.2	<1	2	13	0.64
LD3		0.54	<0.005	1.0	0.30	59	<10	220	<0.5	<2	18.0	2.7	2	3	19	1.09
LD4		0.50	<0.005	0.5	0.36	8	<10	810	<0.5	<2	0.44	<0.5	3	3	18	2.01
Sack 3		1.02	<0.005	<0.2	0.65	<2	<10	40	<0.5	<2	0.39	<0.5	4	10	10	1.27
Sack 4		0.79	<0.005	<0.2	0.71	<2	<10	60	<0.5	<2	0.41	<0.5	4	9	9	1.36
Sack 5		1.36	<0.005	0.3	3.01	<2	<10	110	<0.5	<2	3.74	<0.5	19	18	91	5.87
Bag - 3 - 14		0.89	<0.005	<0.2	1.75	4	<10	50	<0.5	<2	3.15	<0.5	5	4	12	3.23
Bag - 6 - 14		0.47	0.005	<0.2	2.34	<2	<10	100	<0.5	<2	3.79	<0.5	9	7	18	4.35
Bag - 8 - 14		0.80	<0.005	<0.2	1.04	<2	<10	180	<0.5	2	0.28	<0.5	4	8	6	1.57
M-5-14 0300629 5632837		2.01	<0.005	1.7	0.19	<2	<10	30	<0.5	6	0.03	<0.5	<1	5	6	0.41
M-3-14 0300616 5632823		0.89	<0.005	0.5	0.24	<2	<10	50	<0.5	<2	0.01	<0.5	<1	5	9	0.91
M-1-14 0300594 5632856		0.99	<0.005	12.2	0.02	<2	<10	<10	<0.5	51	<0.01	<0.5	<1	13	4	0.58

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Page: 2 - B  
 Total # Pages: 2 (A - C)  
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**CERTIFICATE OF ANALYSIS KL14173159**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
LD2		<10	<1	0.02	<10	0.32	3970	41	0.01	<1	130	134	0.03	8	1	78
LD3		<10	<1	0.06	<10	0.25	4690	108	0.01	1	180	67	0.16	6	2	82
LD4		<10	<1	0.26	10	0.04	457	2	0.01	2	730	10	0.36	2	3	25
Sack 3		<10	<1	0.16	10	0.46	338	<1	0.06	7	700	2	0.01	<2	2	23
Sack 4		<10	<1	0.47	10	0.51	325	<1	0.07	6	820	2	0.01	<2	2	18
Sack 5		10	1	0.32	<10	2.28	1155	<1	0.03	15	1880	<2	0.16	<2	12	79
Bag - 3-14		<10	<1	0.14	10	1.06	664	1	0.03	6	710	7	0.11	<2	4	54
Bag - 6-14		10	<1	0.16	10	1.47	702	<1	0.03	6	930	3	0.03	<2	7	47
Bag - 8-14		10	<1	0.72	10	0.56	450	<1	0.06	5	970	<2	0.01	<2	3	18
M-5-14 0300629 5632837		<10	<1	0.09	<10	0.02	22	1	0.05	1	50	24	0.01	<2	<1	16
M-3-14 0300616 5632823		<10	<1	0.10	<10	0.02	23	1	0.04	1	120	13	0.03	<2	<1	16
M-1-14 0300594 5632856		<10	<1	0.01	<10	<0.01	23	2	0.01	1	10	41	0.19	<2	<1	<1

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Page: 2 - C  
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**CERTIFICATE OF ANALYSIS KL14173159**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
LD2		<20	<0.01	<10	<10	17	<10	342
LD3		<20	<0.01	10	<10	23	<10	327
LD4		<20	<0.01	<10	<10	3	<10	50
Sack 3		<20	0.08	<10	<10	25	<10	41
Sack 4		<20	0.12	<10	<10	34	<10	45
Sack 5		<20	0.20	<10	<10	183	<10	105
Bag - 3-14		<20	<0.01	<10	<10	16	<10	67
Bag - 6-14		<20	0.01	<10	<10	32	<10	89
Bag - 8-14		<20	0.12	<10	<10	37	<10	65
M-5-14 0300629 5632837		<20	<0.01	<10	<10	2	<10	11
M-3-14 0300616 5632823		<20	<0.01	<10	<10	3	<10	16
M-1-14 0300594 5632856		<20	<0.01	<10	<10	1	10	17

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

11/30/2014



Print and Close

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## Mineral Titles Online

### Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

**Recorder:** ELLERBECK, KENNETH  
CECIL (107608)

**Submitter:** ELLERBECK, KENNETH  
CECIL (107608)

**Recorded:** 2014/NOV/30

**Effective:** 2014/NOV/30

**D/E Date:** 2014/NOV/30

#### 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:** 5532442

**Work Type:** Technical Work  
**Technical Items:** Prospecting

**Work Start Date:** 2014/APR/20

**Work Stop Date:** 2014/APR/20

**Total Value of Work:** \$ 1900.00

**Mine Permit No:**

#### Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub-mission Fee
1024218	SACKARILLIAC	2013/dec/04	2014/dec/04	2016/JUN/04	548	185.39	\$ 1390.40	\$ 0.00
1024223	SACKEAST	2013/dec/04	2014/dec/04	2016/JUN/04	548	61.80	\$ 463.47	\$ 0.00

#### Financial Summary:

**Total applied work value:** \$ 1853.87

**PAC name:** KEN ELLERBECK

**Debited PAC amount:** \$ 0.0

**Credited PAC amount:** \$ 46.13

**Total Submission Fees:** \$ 0.0

**Total Paid:** \$ 0.0

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