



BC Geological Survey  
Assessment Report  
37588



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

Assessment Report  
Title Page and Summary

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

TOTAL COST: \$2,744.20

AUTHOR(S): KEN ELLERBECK

SIGNATURE(S):

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

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): EVENT 5698523 MAY 28, 2018

PROPERTY NAME: LD-COMSTOCK

CLAIM NAME(S) (on which the work was done): 1051454 - LD-COMSTOCK

COMMODITIES SOUGHT: Au Ag Pb Zn Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092ISE052

MINING DIVISION: NICOLA

NTS/BCGS: BCGS 0921007

LATITUDE: 50 ° 2 '31.9 " LONGITUDE: -120 ° 45 '31.1 " (at centre of work)

OWNER(S):

1) KEN ELLERBECK

2)

MAILING ADDRESS:

255 BATTLE STREET WEST, KAMLOOPS BC V2C 1G8

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

1) KEN ELLERBECK

2)

MAILING ADDRESS:

255 BATTLE STREET WEST, KAMLOOPS BC V2C 1G8

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

Dacitic Rhyolitic Flow, Flow Breccia, Amygdaloidal Andesite Agglomerate, Lapilli Ash Flow Tuff, N20E near vertical, extensive  
Upper Triassic Nicola, Stratiform, Stratabound, Vein Volcanogenic, Syngenetic, Exhalative Type: I05: Polymetallic veins Ag-Pb-  
Associated: Barite, Quartz, Specularite Alteration: Malachite, Azurite Alteration Type: Oxidation  
Galena, Sphalerite, Barite, Specularite, Chalcopyrite, Malachite, Azurite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 13114, \*16817, \*18888

ASS RPT 1735, 2697, 2757, 2817, 3192, 3455, 3456, 3711, 3791, 5185, 5228, \*6248, 7568, 9018, \*10114, 10977, 12799, 12800

Next Page

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			
<b>PROSPECTING (scale, area)</b> 100M X 200M		1051454	\$2744.20
<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>			<b>\$2,744.20</b>

# **KEN ELLERBECK**

(Owner & Operator)

## **TECHNICAL EXPLORATION REPORT**

(Event 5698523)  
on

### **PROSPECTING and EXPLORING**

Work done on

Tenures 1051454

of the 12 Claim

### **LD-COMSTOCK CLAIM GROUP**

Kamloops Mining Division  
BCGS Maps 921.007

Centre of Work  
UTM 10 660489E 5545739N

**AUTHOR                    KEN ELLERBECK, PMP**

**REPORT SUBMITTED      June 11, 2018**

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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>	4
<b>History</b>	7
<b>Summary of Work Done</b>	9
<i>Regional and Property Geology</i>	27
<i>Technical Data and Interpretation</i>	30
<i>Interpretation and Conclusions</i>	31
<i>Summary and Recommendations</i>	31
<i>Itemized Cost Statement</i>	32
<i>Statement of Qualifications</i>	33
<i>Selected References</i>	34

**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 Sample Location Area</i>	10
<i>Figure 6 Location and Typical Rock Pictures</i>	12
<i>Figure 7 LD- COMSTOCK Regional Geology</i>	30
<i>Figure 8 LD- COMSTOCK Local Geology</i>	31

**TABLES**

<i>Table I: Particulars of Grab Samples 2018</i>	11,32
<i>Table II: Summarized Assay Results- Grab Samples-Ellerbeck (2014) – LD-COMSTOCK</i>	33

**APPENDIX**

<i>Sample Preparation and Method of Analysis</i>	39
<i>Certificate of Analysis</i>	41

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## **INTRODUCTION**

### **PURPOSE**

In May 2018 a prospecting program was completed on Tenure 1051454 of the 12 Claim LD-COMSTOCK CLAIM GROUP. The purpose of the prospecting program was to locate geological features (VMS and gold bearing structures in particular) similar to those reported at the LD and COMSTOCK showings (rhyolite dome – see Page 8) contained in the claim group, as well as to prospect for unidentified outcrops and showings of significance. Information for this report was obtained from sources cited under Selected References and from a property examination made on May 27, 2018.

### **ACCESS AND LOCATION**

Road access to the Property from Kamloops, BC is by Highway 5A south for 80 km. to Merritt, BC. Driving time from Vancouver to Merritt is three hours (300 km) and from Kamloops is one hour. The property can be reached from the town of Merritt which is located at the junction of the Coquihalla Highway (Hwy 5) and Highway 97C. Access from Merritt is via the paved Coldwater road that departs from the eastern edge of Merritt and trends southerly, parallel to the west side of the Coquihalla Highway. At approximately 2 km on the Coldwater road the Fox Farm road branches to the east, passes under the Coquihalla Highway, and follows the valley of Godey Creek. Gravel and dirt roads pass through much of the property. A straight-line distance from Merritt to the centre of the property is 7 km; driving distance is approximately 12 km. A series of overgrown logging roads provide access for prospecting activities. However deadfall due to Pine Beetle infestation made vehicle access difficult.

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 LD-COMSTOCK 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 900m to 1645 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

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
905597	PB1	2011/OCT/06	2018/DEC/31	2019/JUN/30	181	83.01	\$ 617.49	\$ 0.00
905612	PB2	2011/OCT/06	2018/DEC/31	2019/JUN/30	181	20.75	\$ 154.38	\$ 0.00
1014834	PB	2012/NOV/27	2018/DEC/31	2019/JUN/30	181	186.78	\$ 1389.36	\$ 0.00
1014837		2012/NOV/27	2018/AUG/01	2019/JUN/30	333	20.75	\$ 284.00	\$ 0.00
1014839	OMG	2012/NOV/27	2019/MAY/30	2019/JUN/30	31	20.76	\$ 26.44	\$ 0.00
1019819	LUCKY 7	2013/MAY/27	2018/DEC/31	2019/JUN/30	181	20.75	\$ 154.29	\$ 0.00
1051454	LD-COMSTOCK	2017/APR/17	2019/APR/17	2019/JUN/30	74	124.49	\$ 125.85	\$ 0.00
1055700	Northno	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	41.49	\$ 308.01	\$ 0.00
1055701	LD	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	62.23	\$ 462.06	\$ 0.00
1055702	Northnot	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	20.74	\$ 154.01	\$ 0.00
1055703	LD	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	20.74	\$ 154.02	\$ 0.00
1059694	NEWSHOWCOMSTOCK	2018/APR/01	2019/APR/01	2019/JUN/30	90	41.50	\$ 51.02	\$ 0.00

Figure 1 LOCATION MAP from MTO Mapbuilder

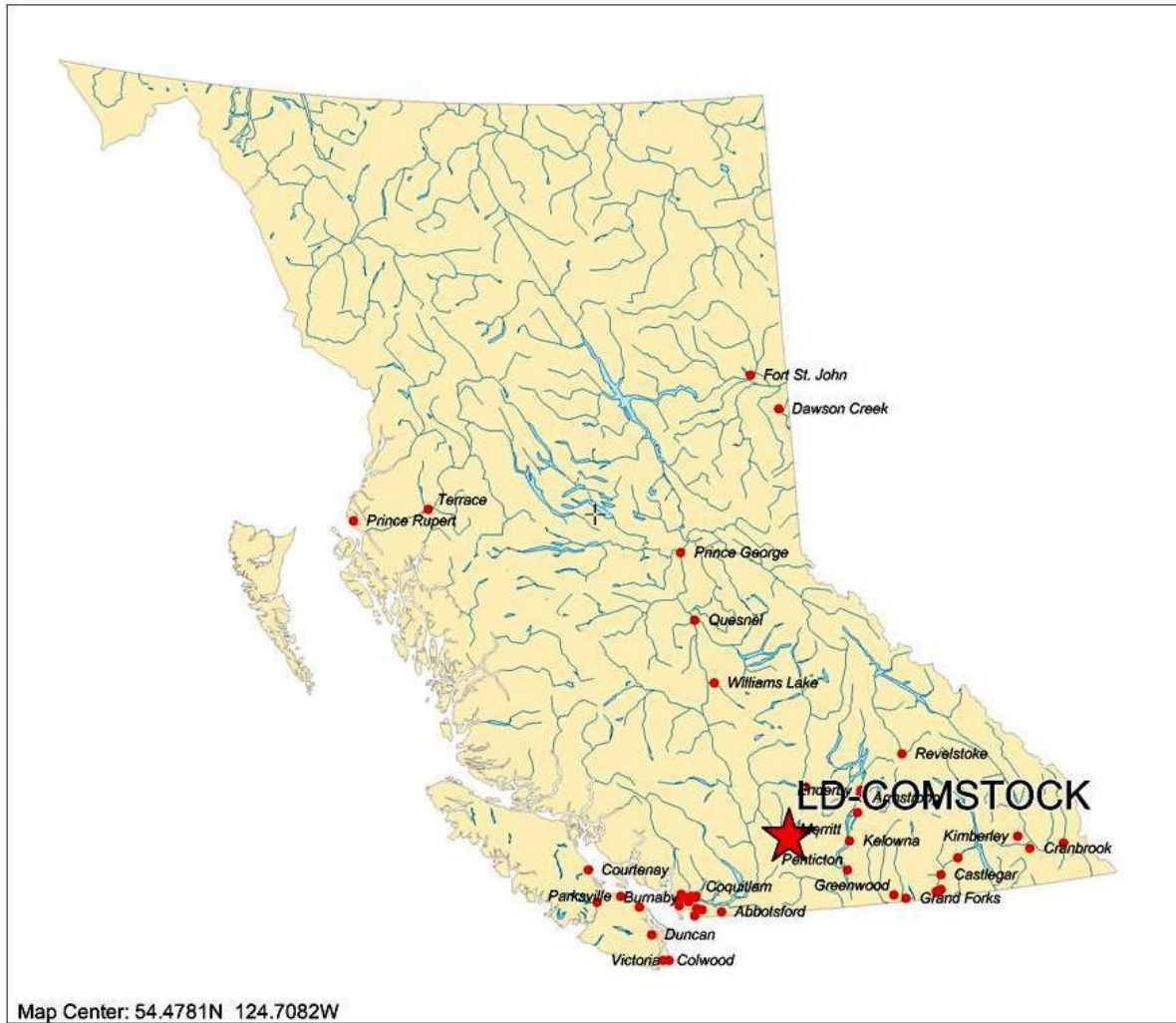


Figure 2 CLAIM LOCATION MAP (Base Map GOOGLE EARTH)

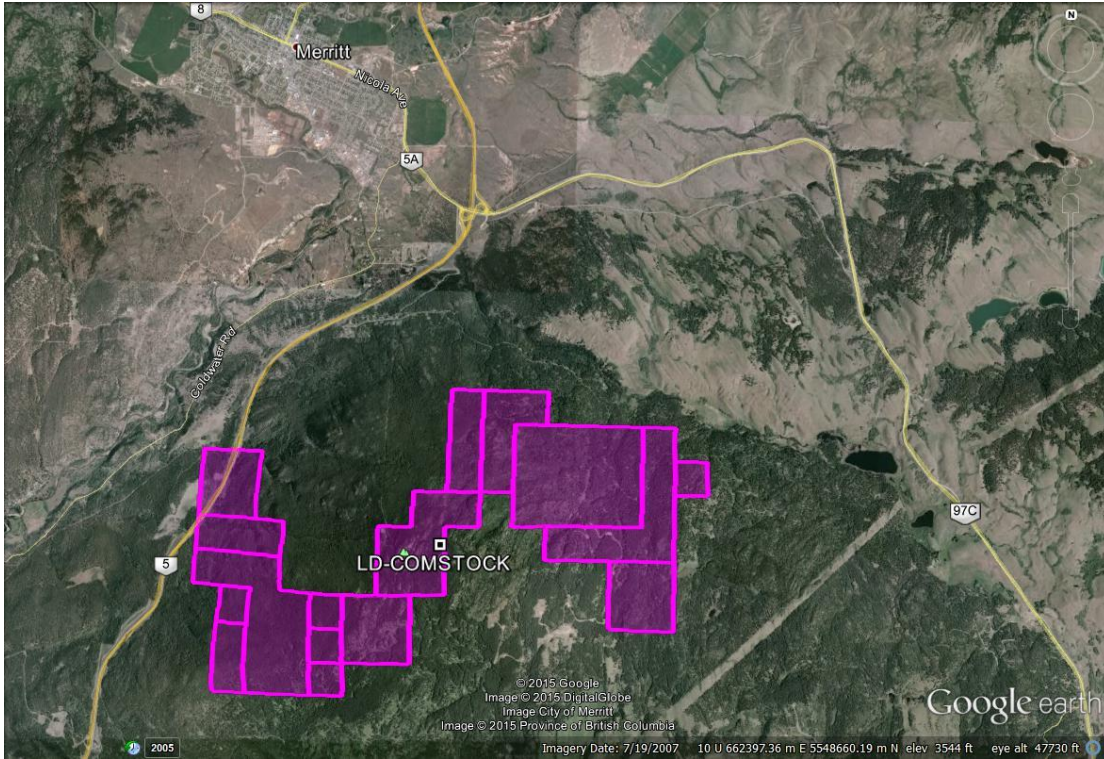


Figure 3 Regional Location Map (Base Map GOOGLE EARTH)

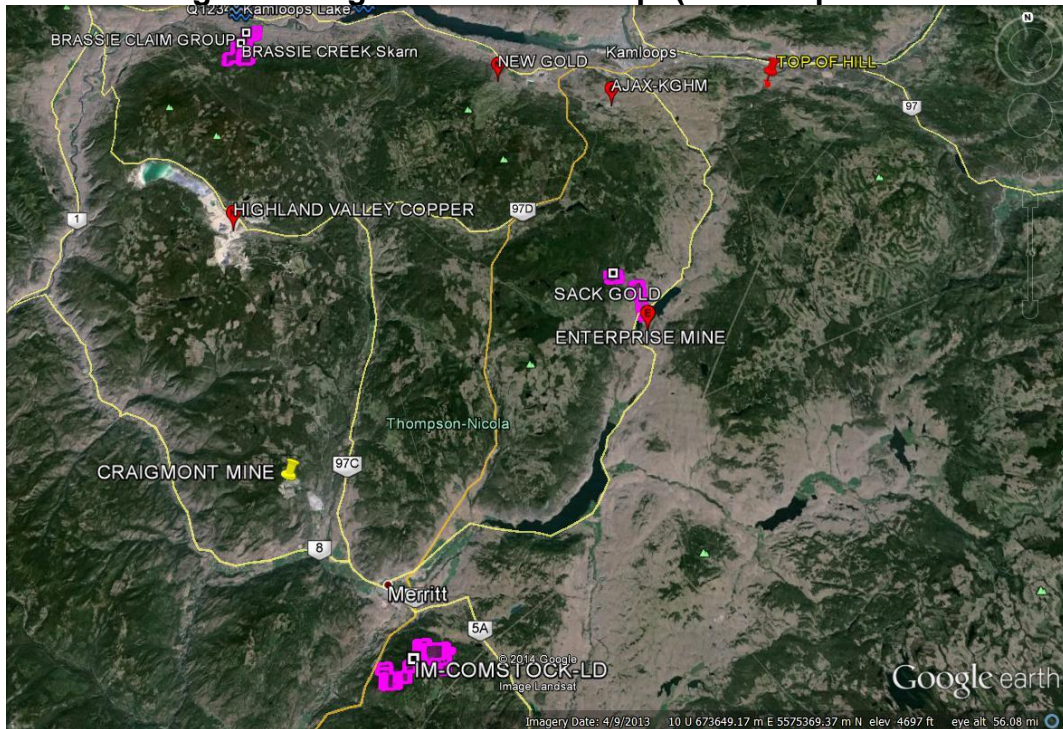
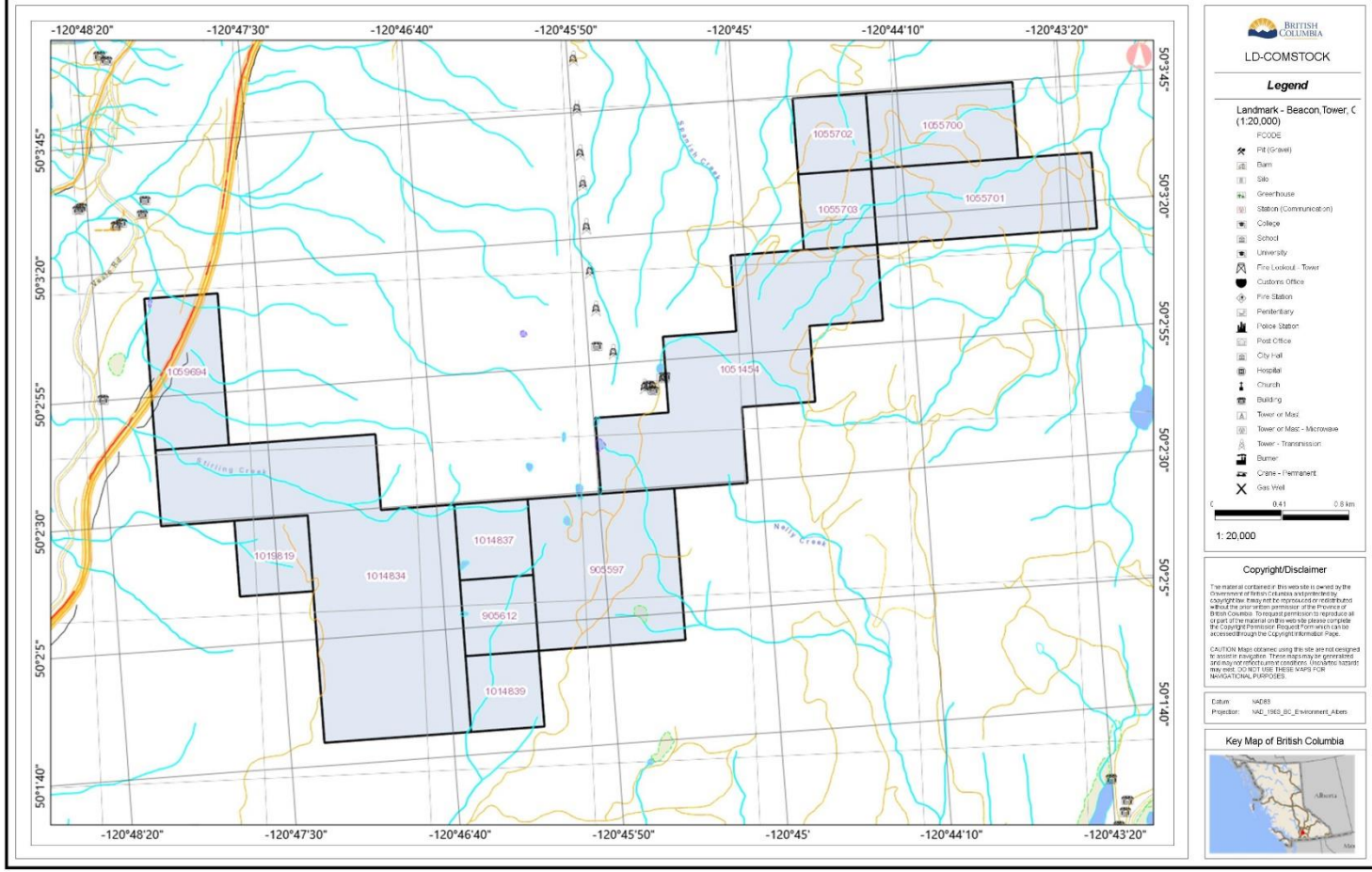
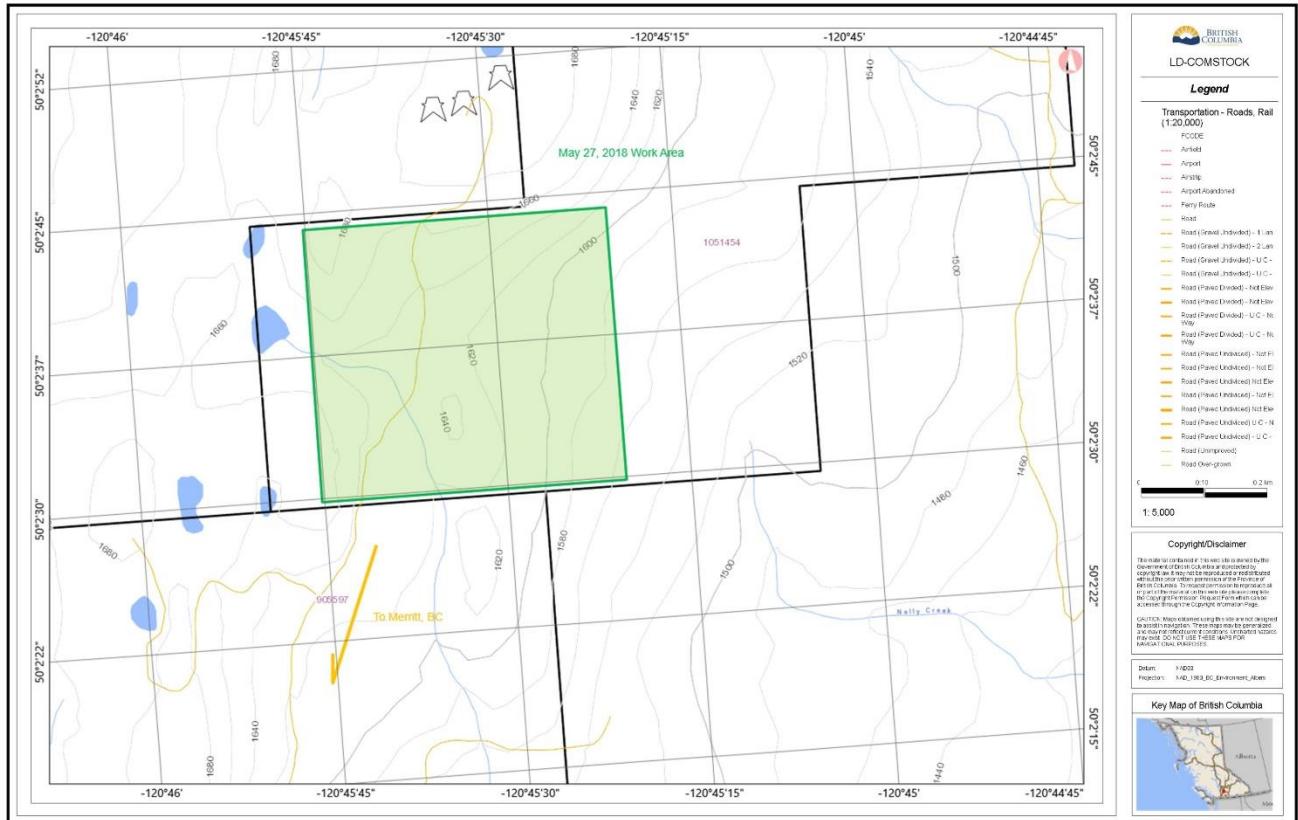


Figure 4 Claim Map and Index Map







## HISTORY

Exploration by others on land in and near the current LD-COMSTOCK Claim Group has been reported. Current tenures include most of the showings and workings reported.

From Structural Analysis Report on the Comstock Claims, Ken Ellerbeck Owner, July 4, 2013. Laurence Sookochoff, P. Eng. The Comstock Claims are included the present day LD-COMSTOCK Claim Group.

*“The Property has a long history of exploration with the discovery, exploration, and limited development on three areas; the Diane Zone, the Charmer Zone, and the Comstock (Leadville) Zone. Only the Diane and the Charmer are described herein as these Zones, separated by a 200 metre barren area, have the same basic mineralogy and are for the most part are proximal to Tenure 1014834, the subject of the Structural Analysis of this report.*

*Historical exploration on the two zones, which are underlain by volcanics of the Western Facies of the Upper Triassic Nicola Group, resulted in the delineation of variable copper mineralization over an area of a 500 metre square area of the Diane Zone. Trenches within the zone expose a 250 metre northwest striking fault controlled zone of copper mineralization and the only location where within this area that gold values occur as defined by a geochemical survey. A discontinuous zone of auriferous quartz veining occurs within this trend which has resulted in pervasive silicification of the volcanics. A diamond drilled intersection of the fault zone resulted in core assays of 24.70 grams gold /tonne (0.72 oz/ton) over a length of 0.76 metres.*

At Shaft 3 southeast of the Diana Zone and midway to the Charm Zone, the volcanics are pervasively silicified with the shaft developed on a series of quartz veins trending at 160 degrees. With vein samples from the shaft returning 0.66% copper and 0.295 ounces gold per ton and from a pit 15 metres southeast of the shaft returning 1.38% copper and 0.295 ounces gold per ton over a one metre width, a gold zone is indicated on a structure that extends from the Diane Zone to the Charm Zone.

The Charm Zone some 750 metres to the southeast from the Diane and equal in mineralized area, is separated by a 200 metre barren section containing lower overall copper values and much less gold values except within Shaft 3 located at the northwestern edge of the Zone. Trenches and two more shafts expose quartz-specularite veins over a discontinuous strike length of 800 metres. Assays of samples from the southeasterly trending zone of quartz veins returned values of 0.64 grams per tonne gold from Shaft 1, 2.35 grams per tonne gold and 1.8 per cent copper from Shaft 2, 10.11 grams per tonne gold from shaft 3. There are strong indicators for an overlapping gold/silver laden epithermal system to an established copper mineralizing event at the Diane and the Charmer Zones. This appears as the upper winged portion of an epithermal model with the gold bearing quartz zones of the Diane trench area (Figure 14) and Shaft 3 (Figure 7.) being the core, or one of the slayed cores, to the system. To test this supposition, the quartz zone(s) should be tested at depth intervals to determine the mineralogical sequence with increasing depth which could determine the location of the potential "bonanza zone" of the epithermal system (Figures 15 & 16).

The results of the Structural Analysis have shown four locations of intersecting major structures that were determined as prospective areas to explore for surficial geological indicators of a potential sub-surface mineral resource. As the majority of the zones on the Property follow northwest fractures with the width and continuity of the veining appearing strongest where fracturing is the most intense, the intersection locations, which do not correlate with any of the known mineral zones, may result in an intense fracture zone that would accommodate porphyritic type of mineralization in the volcanic."

And:

From LD PROPERTY Geological Report with Interpretation of IP Geophysical Survey, 92I/02 UTM 619000E; 5559000N (UTM ZONE 10; NAD 83), Prepared for Navigo Ventures Inc., Owner and Operator, Event # 4825543, Locke B. Goldsmith, P.Eng., P.Geo. Consulting Geologist, July 2, 2010, Revised October 6, 2011.

"Numerous individuals and companies have explored the Iron Mountain area beginning in 1896. Most of the work was focused on the Comstock and Charmer occurrences, located one to three km south of the LD claims. Investigations in the 1980s recognized **the style of mineralization to be of volcanogenic massive sulphide deposition around rhyolite domes in a Kuroko-type setting** (Howell, 1981; Crooker, 1987; Christopher, 1989).

Historical exploration work on the LD property has been limited to prospecting and sampling around the original showings, usually as work incidental to other projects. Two of these programs (Boronowski, 1984; Christopher, 1989) included analyses from several rock samples and soil samples, ground magnetics, and very low frequency electromagnetics (VLF EM). In 2007 and 2008 two survey lines of induced polarization and six lines of mobile metal ion soil sampling were completed to the east of the LD mineral occurrence (Mark, 2009); and

"The exploration target for the LD property is a volcanogenic massive sulphide (VMS) base and precious metal deposit. Bedrock mineralization has been found in several locations on the property. At the LD occurrence moderately coarse crystalline galena partially fills open spaces between fragments of limestone, brecciated limestone, and calcareous siltstone. Rotated blocks of bedded impure barite carry sphalerite, galena, and minor amounts of grey copper (tetrahedrite?). Bedding in the blocks of barite is discontinuous and contorted. Veinlets of barite may contain sulphides. **A related type of mineralization exposed 1 km southwest of the LD property at the Comstock zone**

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*is comprised of banded veins and possibly bedded zinc-lead-barite mineralization in a flow-banded, potassium-rich felsic lava (rhyolite). Both types of zinc-lead-barite occurrences formed penecontemporaneously. The Comstock type formed in association with felsic volcanism in rhyolitic domes. The LD style of mineralization is interpreted as transportation into sedimentary basins flanking the domes.*

*Stratigraphically below and adjacent to the LD occurrence an early stage of silica flooding and quartz veining is followed by a later stage of crosscutting quartz +/- carbonate veinlets with associated orange-brown limonite and trace amounts of chalcopyrite and galena. This horizon may represent the stratiform chalcopyrite "yellow ore" and the underlying stringer mineralization of the Kuroko model.*

*Another type of mineral showing present in the area and on the LD property is structurally controlled auriferous quartz-chalcopyrite-specularite-(gold) veins. These veins trend northerly and northwesterly, oriented in the prevailing directions of faulting. In the Kuroko model, quartz-chalcopyrite veins grade downwards into siliceous chimneys that were sea floor feeder vents, in a similar setting to silicious sinter around present-day hot springs (Urabe and Sato, 1978).*

*The LD occurrence has been examined in previous exploration programs (Boronowski and Hendrickson, 1984; Christopher, 1989). Descriptions of the Boronowski (1984) rock samples have not been found. Descriptions of the Christopher (1989) rock samples are included in Table 3. Geochemical analyses of the Boronowski (1984) and Christopher (1989) rock samples are shown in Table 4. Both groups of values are plotted on the property geology map, Figure 4.*

The LD-COMSTOCK Claim Group was acquired by online staking by the Author and Current Owner since 2011. See Page 4 of this report for Tenure list.

## **SUMMARY OF WORK DONE 2018**

The Tenure Numbers in the LD-COMSTOCK Claim Group on which work was performed: Prospecting was conducted on 1051454. (Figure 4 Index - Work Areas) on May 27, 2018.

Nine (9) rock grab samples were taken.

Four (4) rock samples were assayed.

One (1) field day was spent on the LD-COMSTOCK 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 5 Sample Location Area Map



**2018 WORK PROGRAM**

**Sampling Program** - The author was on the LD-COMSTOCK Claim Group in May 2018 to select rock samples for verification of historic reported mineralization and geology on the Property. Nine (9) grab samples were taken from 9 different sites. Four (4) grab samples were submitted for assay.

**Table I. Particulars of Grab Samples taken by ELLERBECK (2018) LD-COMSTOCK**

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
			All OUTCROP unless indicated
LD 18-1	0660495	5545660	Shear/quartz vein (E-W strike) Footwall Breccia (FWBX) with Cu/malachite stain, crosscuts tan highly altered rhyolite (N20°E, vertical dip), siliceous, iron stain, magnetite
LD 18-2 Lab	0660499	5545665	Rhyolite bedrock, Jasper? In vuggy Quartz with Malachite stain. Rotten sulphide zone adjacent. Extremely hard. 5m. wide Cu zone. N20°E near vertical
LD 18-3 Lab	0660495	5545672	Trench (E-W) across rhyolite, float, quartz with iron, hematite, rust, Iron veining, siliceous, vuggy
LD 18-4	0660493	5545667	Trench, Rhyolite, pinkish tan/brown, highly siliceous, iron stain, vugs, no visible metal
LD 18-5	0660497	5545670	Trench Float, highly siliceous, iron veinlets, iron stain, magnetite in secondary event, secondary quartz veining
LD 18-6 Lab	0660495	5545674	Trench, N20°E, very hard, highly siliceous, highly altered beside iron staining, iron veining, magnetite
LD 18-7	0660495	5545730	Dike-N-S, near vertical, rotten, clayey, light tan-brown in rhyolite, Highly altered rhyolite, magnetite, hematite, iron staining, no other visible metal.
LD 18-8 Lab	0660485	5545732	Pit. Quartz vein lying flat in rhyolite, highly altered adjacent quartz, malachite stain in quartz, highly siliceous rhyolite, quartz crystals
LD 18-9	0660489	5545739	Rhyolite – light gray to black-red, massive bedrock, highly siliceous, magnetite, no other visible metal

**FIGURE 6 LOCATION AND TYPICAL ROCK PICTURES**  
**SAMPLE LD 18-1 LOCATION AND TYPICAL ROCK PICTURE**





**SAMPLE LD 18-2 LOCATION AND TYPICAL ROCK PICTURE**

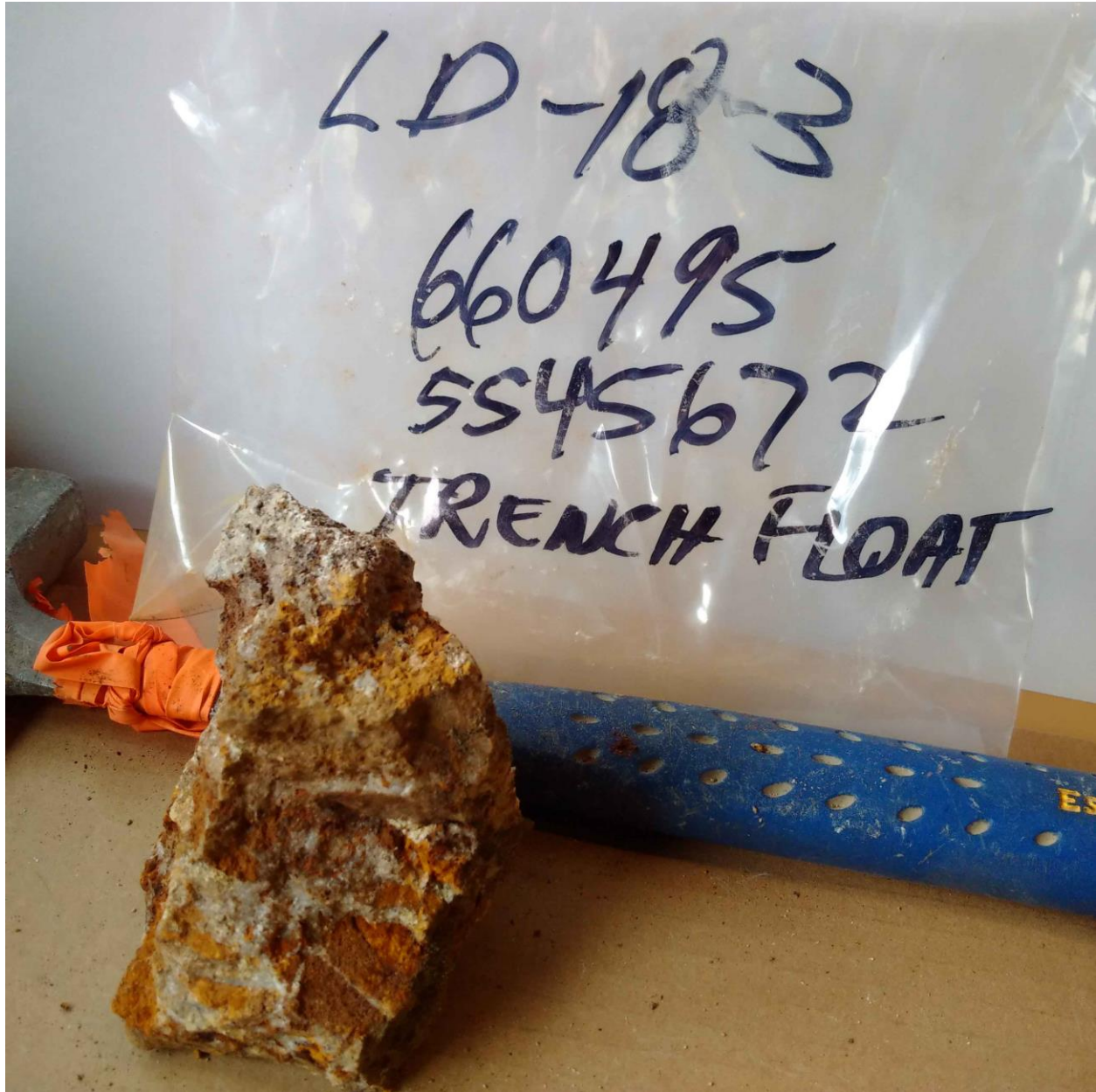






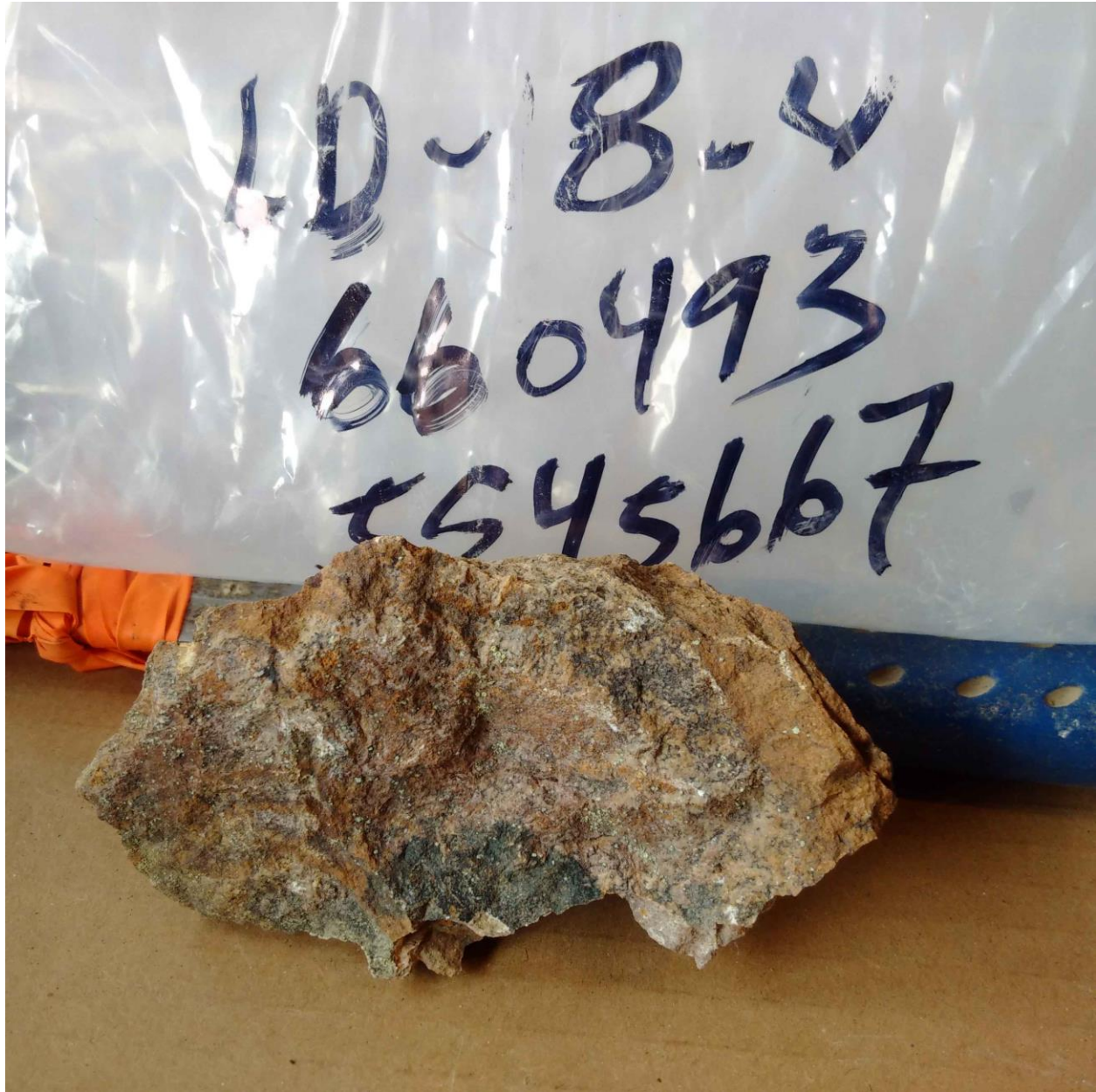
**SAMPLE LD 18-3 LOCATION AND TYPICAL ROCK PICTURE**





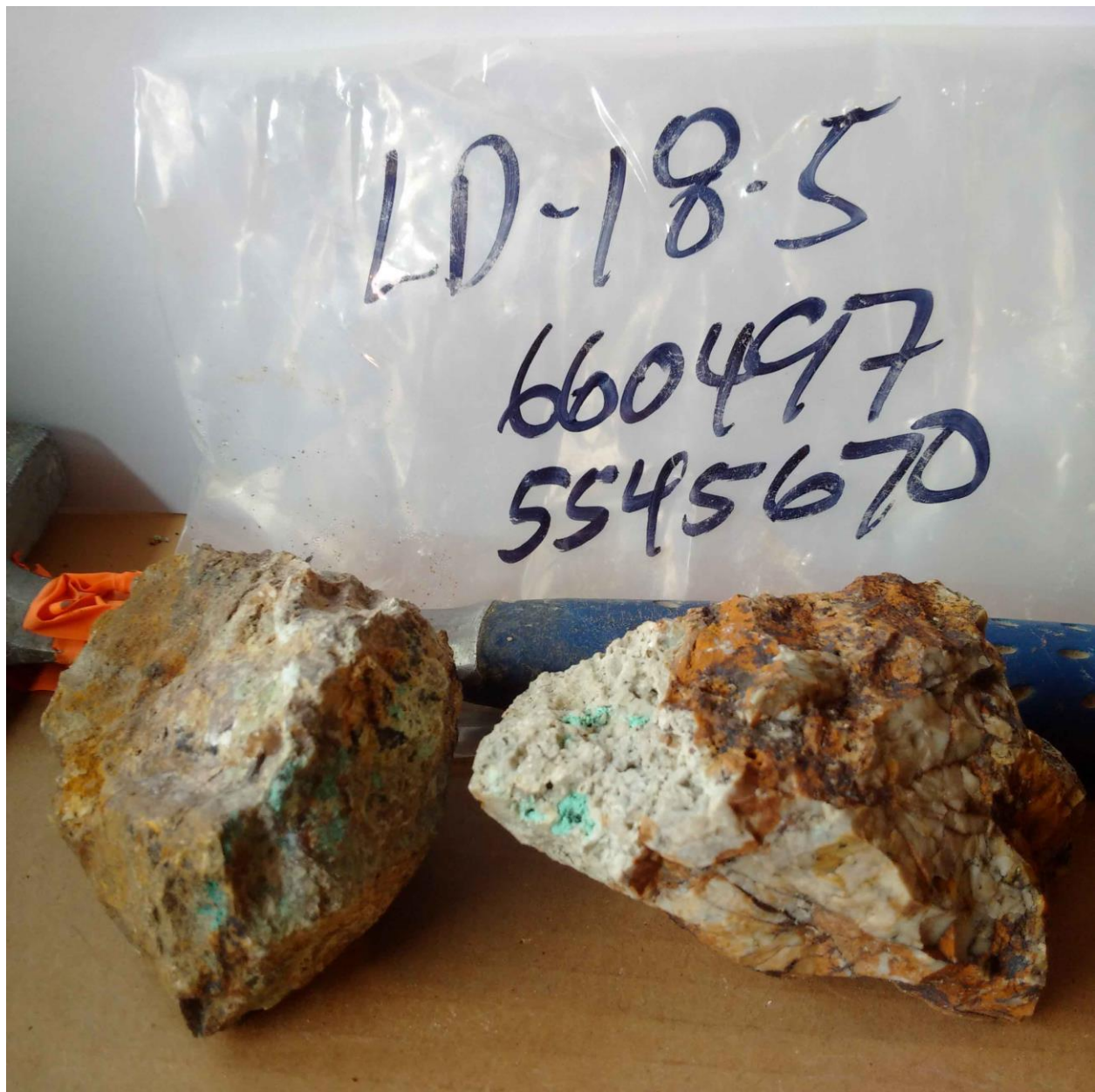
**SAMPLE LD 18-4 LOCATION AND TYPICAL ROCK PICTURE**





**SAMPLE LD 18-5 LOCATION AND TYPICAL ROCK PICTURE**

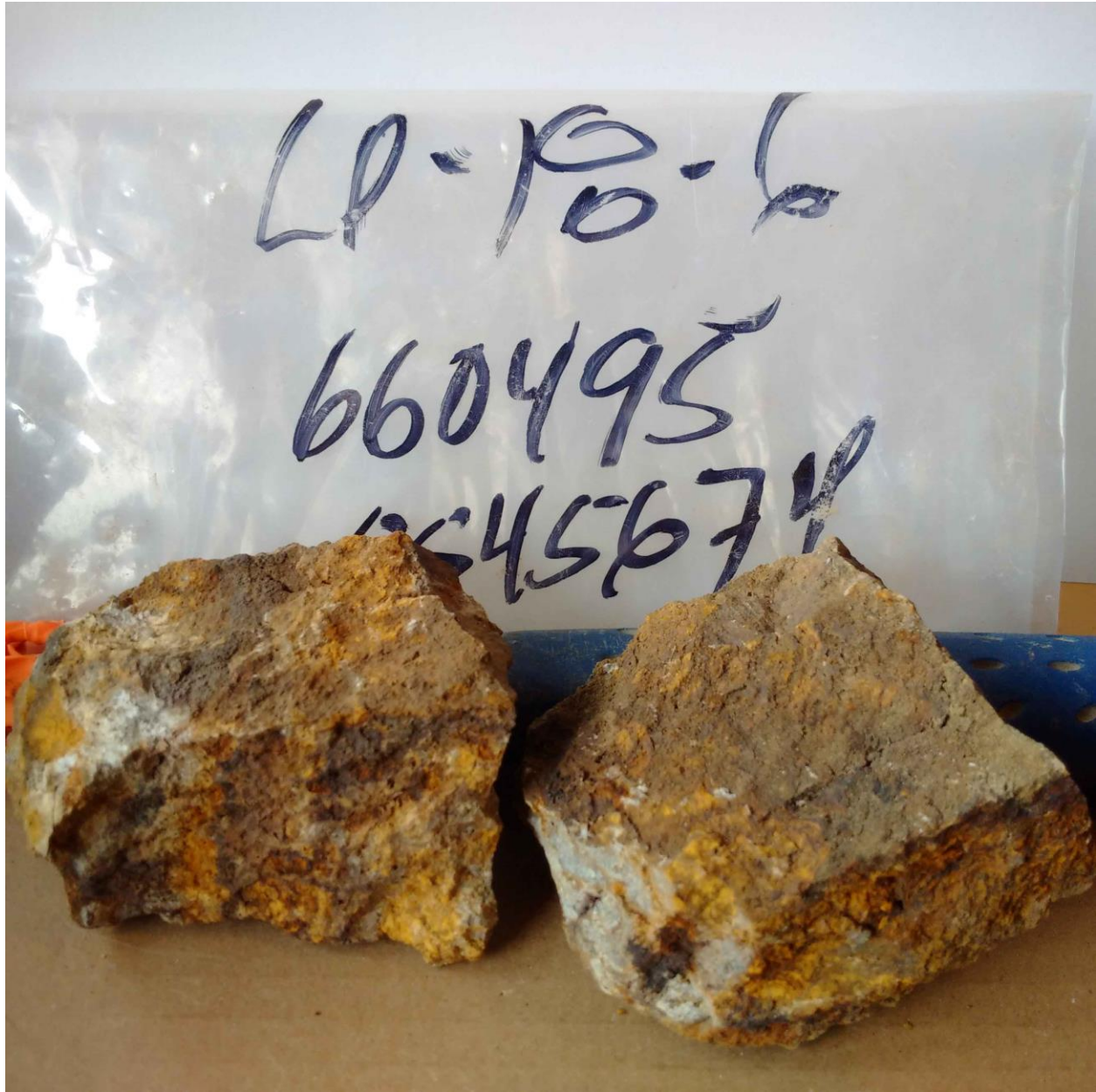




**SAMPLE LD 18-6 LOCATION AND TYPICAL ROCK PICTURE**

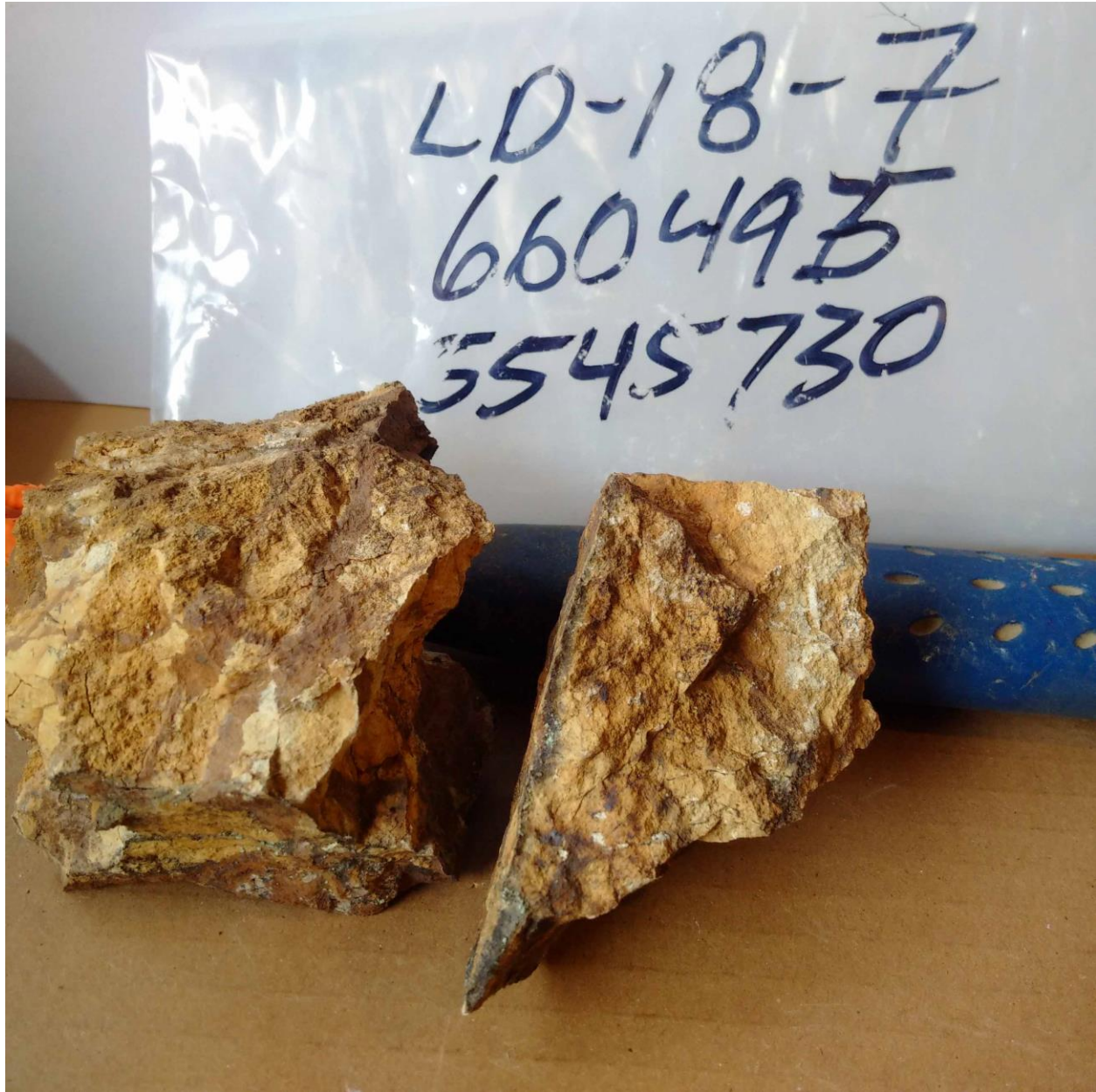






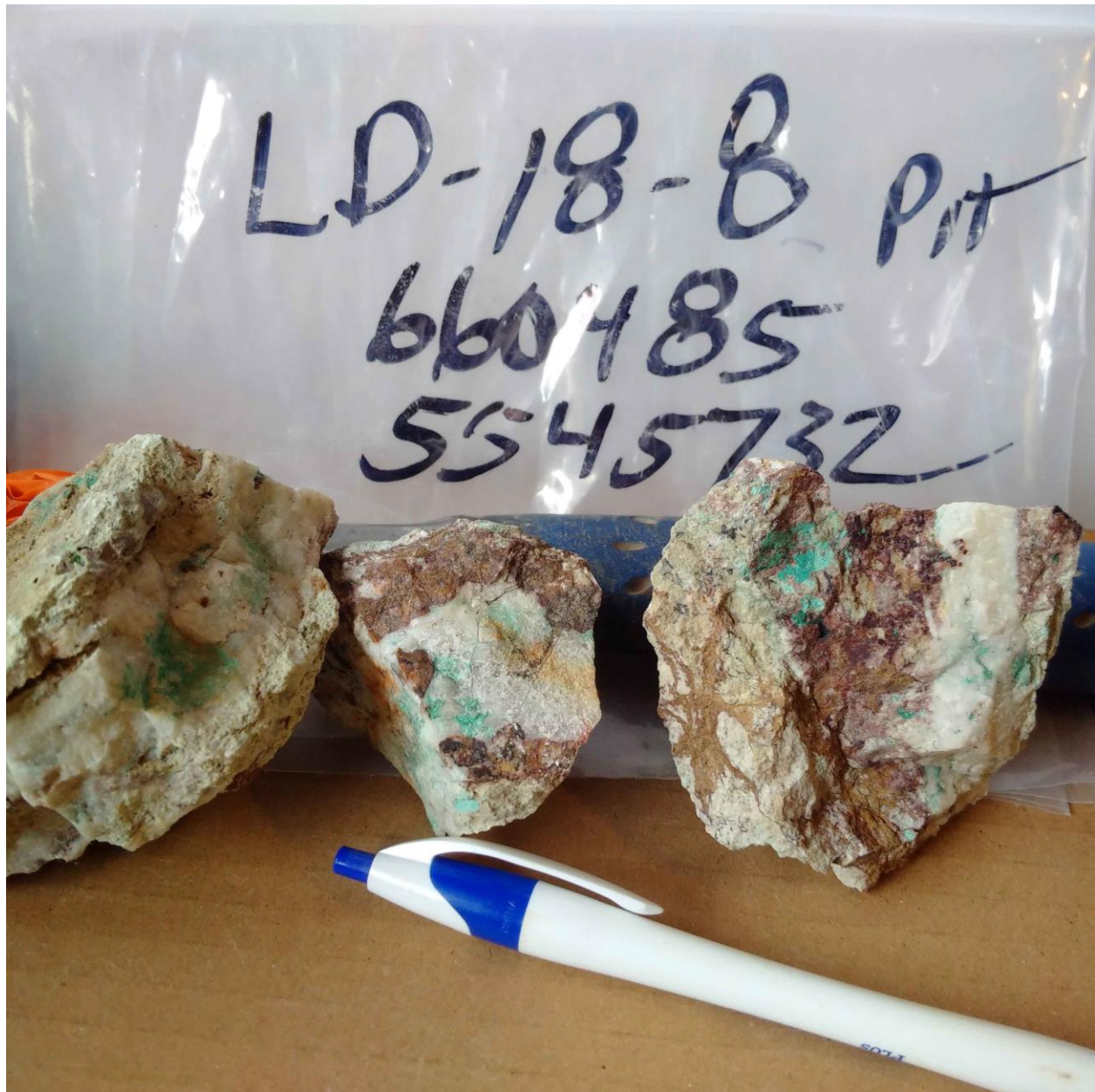
**SAMPLE LD 18-7 LOCATION AND TYPICAL ROCK PICTURE**





**SAMPLE LD 18-8 LOCATION AND TYPICAL ROCK PICTURE**





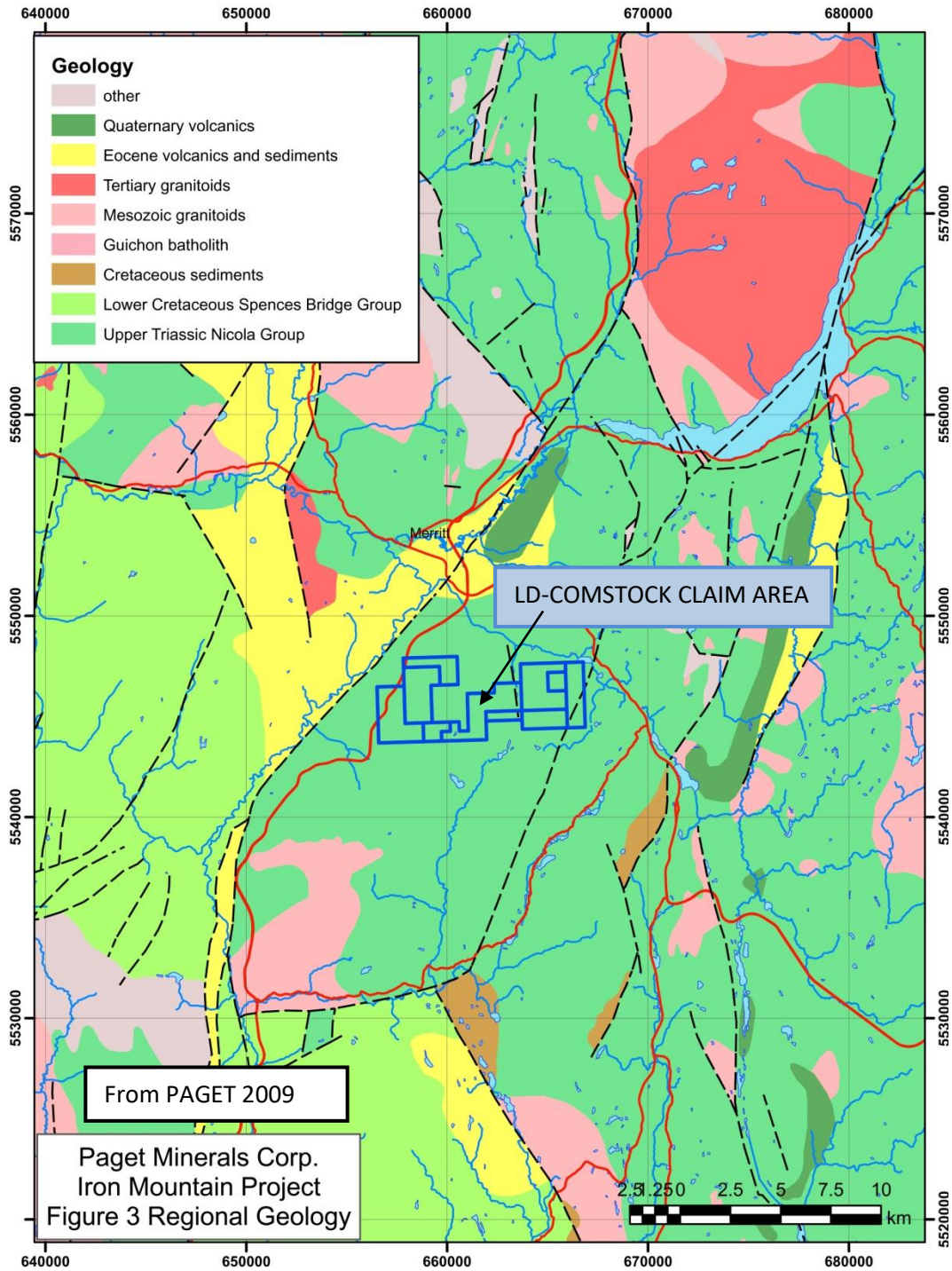
**SAMPLE LD 18-9 LOCATION AND TYPICAL ROCK PICTURE**





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

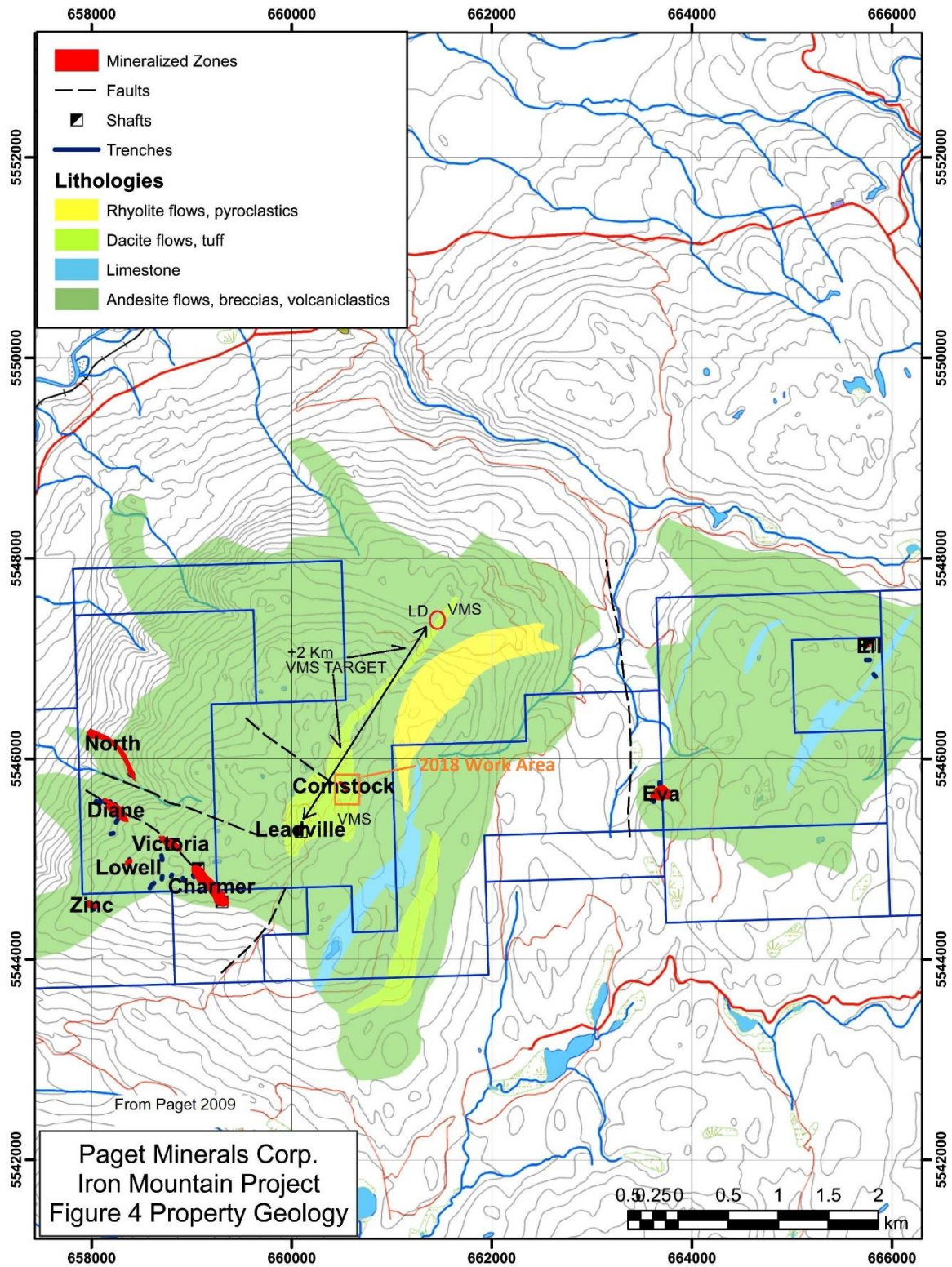
**Figure 7 LD-COMSTOCK CLAIM GROUP Regional Geology**





### LOCAL GEOLOGY

#### Figure 8 LD-COMSTOCK CLAIM GROUP Local Geology



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

Prospecting on the LD-COMSTOCK Tenure 1051454 confirmed the presence of rhyolitic dome rock in the Work Area.

**Table I. Particulars of Grab Samples taken by ELLERBECK (2018) LD-COMSTOCK**

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
			All OUTCROP unless indicated
LD 18-1	0660495	5545660	Shear/quartz vein (E-W strike) Footwall Breccia (FWBX) with Cu/malachite stain, crosscuts tan highly altered rhyolite (N20°E, vertical dip), siliceous, iron stain, magnetite
LD 18-2 Lab	0660499	5545665	Rhyolite bedrock, Jasper? In vuggy Quartz with Malachite stain. Rotten sulphide zone adjacent. Extremely hard. 5m. wide Cu zone. N20°E near vertical
LD 18-3 Lab	0660495	5545672	Trench (E-W) across rhyolite, float, quartz with iron, hematite, rust, Iron veining, siliceous, vuggy
LD 18-4	0660493	5545667	Trench, Rhyolite, pinkish tan/brown, highly siliceous, iron stain, vugs, no visible metal
LD 18-5	0660497	5545670	Trench Float, highly siliceous, iron veinlets, iron stain, magnetite in secondary event, secondary quartz veining
LD 18-6 Lab	0660495	5545674	Trench, N20°E, very hard, highly siliceous, highly altered beside iron staining, iron veining, magnetite
LD 18-7	0660495	5545730	Dike-N-S, near vertical, rotten, clayey, light tan-brown in rhyolite, Highly altered rhyolite, magnetite, hematite, iron staining, no other visible metal.
LD 18-8 Lab	0660485	5545732	Pit. Quartz vein lying flat in rhyolite, highly altered adjacent quartz, malachite stain in quartz, highly siliceous rhyolite, quartz crystals
LD 18-9	0660489	5545739	Rhyolite – light gray to black-red, massive bedrock, highly siliceous, magnetite, no other visible metal

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**TECHNICAL DATA AND INTERPRETATION**
**Table II. Summarized Assay Results- Grab Samples-Ellerbeck (2018) – LD-COMSTOCK**

Sample No.	Sample Type	Cu ppm	Pb ppm	Zn ppm	Au ppm	Ag ppm	Mo ppm
LD 18-2	Grab	1.185%	2020	7380	0.018	428	5
LD 18-3	Grab	613	17	1810	<0.005	2.9	3
LD 18-6	Grab	528	9	1250	<0.005	1.8	1
LD 18-8	Grab	8930	4	49	<0.005	38.2	1

**PURPOSE**

In May 2018 a prospecting program was completed on Tenure 1051454 of the 12 Claim LD-Comstock CLAIM GROUP. The purpose of the prospecting program was to locate geological features (VMS and gold bearing structures in particular) similar to those reported at the LD and COMSTOCK showings (rhyolite dome type – see Page 8) contained in the claim group, as well as to prospect for unidentified outcrops and showings of significance. Information for this report was obtained from sources cited under Selected References and from a property examination made on May 27, 2018.

There was reference in historical work of rhyolite outcrops in the vicinity of the 2018 LD Work Area. The writer wished to determine the extent of rhyolite domes, similar to the Leadville-Comstock and LD occurrence, and to determine the type and extent of mineralization referenced.

**PROSPECTING RESULTS – Outcrops, trenches, float**

All samples (18-1 to 18-9 inclusive) confirmed the presence of rhyolite in the work area, confirmed previous local/property and regional geological mapping - rhyolite.

LD 18-2: confirmed local/property and regional geological mapping and mineralization;

LD 18-3: confirmed local/property and regional geological mapping and mineralization;

LD 18-6: confirmed local/property and regional geological mapping and mineralization;

LD 18-8: confirmed local/property and regional geological mapping and mineralization;

**ASSAY RESULTS**

Elevated Cu Pb Zn Ag levels in all samples.

\***Elevated Ba levels** in all samples (1720 ppm, 3320 ppm, 1240 ppm, 2580 ppm respectively).

Indicative of rhyolite horizon of Leadville-Comstock showing located 1.1 km. southwest which is a galena-sphalerite-barite vein along a sediment/rhyolite contact.

Confirmed mineralization within rhyolite unit.

## INTERPRETATIONS AND CONCLUSIONS

The reported presence of mineralization within the LD-COMSTOCK Claim Group was confirmed by sampling and assaying various outcroppings during the May 27, 2018 prospecting program.

*“A related type of mineralization exposed 1 km southwest of the LD property at the Comstock zone is comprised of banded veins and possibly bedded zinc-lead-barite mineralization in a flow-banded, potassium-rich felsic lava (rhyolite). Both types of zinc-lead-barite occurrences formed penecontemporaneously. The Comstock type formed in association with felsic volcanism in rhyolitic domes. The LD style of mineralization is interpreted as transportation into sedimentary basins flanking the domes.” Navigo Ventures Inc. Owner and Operator, Event # 4825543, Locke B. Goldsmith, P.Eng., P.Geo. Consulting Geologist, July 2, 2010, Revised October 6, 2011*

The samples 18-1 to 18-9 were taken from an area of rhyolite bedrock which is interpreted to be an extension of the rhyolite and jasper zone identified at the Comstock area. This rhyolite area appears to be part of a favourable trend of rhyolitic rocks containing mineralization.

Significant Cu Pb Zn Ag levels are present in all samples

## SUMMARY AND RECOMMENDATIONS

The 2018 field program showed that rhyolite outcrop is present and that mineralization is present in the rhyolite outcrops between the LD and COMSTOCK showings.

Previous historical geological mapping of the area between the VMS LD showing and the VMS Comstock showing approximately 2 km. to the south of the LD showing indicates the presence of both limestone and rhyolite rocks in the 2 km separation.

The 2018 field program assay results indicate that a careful examination of the rhyolite between the 2 known VMS occurrences is warranted.

Therefore, it is recommended by the Author that a comprehensive prospecting plan be created and executed in the field as soon as practical to confirm and map the extent of the limestone and rhyolite rocks between the LD and Comstock showings.

## ITEMIZED COST STATEMENT

Exploration Work type	LD-COMSTOCK	Days			Totals
<b>PROSPECTING &amp; EXPLORATION</b>					
<b>Personnel (Name)* / Position</b>	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>	
Ken Ellerbeck / Owner	May 27, 2018	1	\$500.00	\$500.00	
Q. Ellerbeck / Helper	May 27, 2018	1	\$250.00	\$250.00	
		1		\$0.00	
		1		\$0.00	
		1		\$0.00	
		1		\$0.00	
				\$750.00	<b>\$750.00</b>
<b>Office Studies</b>	<b>List Personnel (note - Office only, do not include field days)</b>				
Literature search	Ken Ellerbeck	1.0	\$500.00	\$500.00	
Database compilation	Ken Ellerbeck	0.5	\$500.00	\$250.00	
General research	Ken Ellerbeck	0.5	\$500.00	\$250.00	
Report preparation	Ken Ellerbeck	1.0	\$500.00	\$500.00	
Other (specify)				\$0.00	
				\$1,500.00	<b>\$1,500.00</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	\$49.46	\$0.00	
Rock	ALS MINERALS Vancouver	4.0	\$48.00	\$192.00	
				\$192.00	<b>\$192.00</b>
<b>Transportation</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
KM Kamloops-Property-return	1 DAYS RETURN TRIPS	225.00	\$0.95	\$213.75	
KM SAMPLES TO LAB	May 28, 2018	51.00	\$0.95	\$48.45	
				\$0.00	
				\$262.20	<b>\$262.20</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>				
Hotel			\$0.00	\$0.00	
Camp			\$0.00	\$0.00	
Meals	1 man-days @\$40/day	1.00	\$40.00	\$40.00	
				\$40.00	<b>\$40.00</b>
<b>Miscellaneous</b>					
Telephone			\$0.00	\$0.00	
Other (Specify)				\$0.00	
				\$0.00	<b>\$0.00</b>
<b>Equipment Rentals</b>					
Field Gear (Specify)			\$0.00	\$0.00	
Other (Specify)				\$0.00	
				\$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>\$2,744.20</b>

**STATEMENT OF AUTHOR'S QUALIFICATIONS**

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**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

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**LIST OF SELECTED REFERENCES**

- BC Geological Survey, Ministry of Energy, Mines & Petroleum Resources – MINFILE : 092ISE107
- British Columbia Survey Branch, The Map Place.
- LD PROPERTY Geological Report with Interpretation of IP Geophysical Survey, 92I/02 UTM 619000E; 5559000N (UTM ZONE 10; NAD 83), Prepared for Navigo Ventures Inc., Owner and Operator, Event # 4825543, Locke B. Goldsmith, P.Eng., P.Geo. Consulting Geologist, July 2, 2010, Revised October 6, 2011.
- Structural Analysis Report on the Comstock Claims, Ken Ellerbeck Owner, July 4, 2013.
- Laurence Sookochoff, P. Eng. The Comstock Claims are included the present day IM-COMSTOCK-LD Claim Group.
- Tony Barresi, August 2008, Rock Geochemistry on the Iron Mountain Mineral Claims, Nicola Mining Division, B.C. Pembroke Mining Corp.
- Addie, L., 2002. Report on till geochemistry, LD property, LD group. Assessment report # 26766.
- Boronowski, A, and Hendrickson, G., 1984. Geochemical and geophysical assessment report on the Diane group. Private report for Kidd Creek Mines Ltd. Assessment report # 13114.
- Cavey, G., Lebel, J.L., P.Eng., and Jerema, M., 1986. Report on detailed geological, geochemical, and geophysical surveys on the Stirling group, Diane 1-5 mineral claims, Nicola Mining Division,
- Merritt, B.C. Private report for International Maple Leaf Resource Corporation. Assessment report # 16058A and B.
- Christopher, P. A., P.Eng., 1989. Geochemical, geological, geophysical, and diamond drilling report on the Iron Mountain property, Merritt Area, B.C. Private report for Golden Dynasty Resources Ltd. Assessment report # 18888.
- Crooker, G. F., 1987. Geochemical and geophysical assessment report on the Iron Mountain property, Nicola Mining Division, Merritt area, B.C. Private report for Golden Dynasty Resources Ltd. Assessment report # 16817.
- Howell, W. A., 1981. Iron Mountain project M491, 1980 report, geological and geochemical surveys on the Gyprock group of mineral claims, Nicola Mining Division. Private report for Chevron Standard Limited. Assessment report # 9018.
- Krueckl, G.P., P.Eng., 1986. Assessment report on work carried out on the SS claim, Merritt B.C.
- Private report for Tamara Resources Inc. Assessment report # 15100.
- Mark, D. G., P.Geo, 2009. Exploration report on 2007 IP and resistivity surveys and a 2008 MMI soil geochemistry survey, LD property, Iron Mountain, Merritt area, Nicola Mining Division, B.C.
- McMillan, W. J., 1979. Nicola Project, Merritt area. In Geological Fieldwork 1978. MEMP Paper 1979-1, pp 41-46.
- McMillan, W. J., 1981. Nicola project, Merritt area. B.C. MEMP preliminary map 47.
- Nelles, D. M., 1988. Diamond drilling report on the Stirling group (Diane 1-5 mineral claims, Nicola Mining Division, B.C. Private report for Merlin Resources Inc. Assessment report # 17721.
- Preto, V. A., 1975. Geology of the central part of the Nicola Group, British Columbia. B.C. Ministry of Mines & Pet. Res., Preliminary Map 18.
-

Price, B. J., P.Geo., 2006. Geological and assessment report, 2005 work program, Iron 1 mineral claims, Iron Mountain, Merritt, B.C., Nicola Mining Division. Private report for Del Exploration Ltd. Assessment report # 27926.

Reynolds, P., P.Geo., 2002. Geological report on the Iron Property, Nicola Mining Division, B.C.

Private report for Nubio Ventures Inc. Assessment report # 26878.

Richards, G.G., and Howell, W.A., 1981. Geochemical and geological report on a portion of the Stud and Four mineral claims in the Nicola Mining Division. Private report for G.G. Richards and K. W. Livingstone. Assessment report # 10977.

Map 886 A, Nicola, (Geol.) Sc. Accomp. Memoir 249, Geol. Survey of Canada (1948).

BC Geological Survey, Ministry of Energy, Mines & Petroleum Resources – MINFILE : 092ISE107

British Columbia Survey Branch, The Map Place.

### **LIST OF SOFTWARE PROGRAMS USED**

ADOBE PHOTOSHOP 7.0

PAINT for WINDOWS

ARIS MAPBUILDER – Map Data downloads

Imap BC – Map Data downloads

MtOnline - MINFILE downloads.



APPENDIX 1 SAMPLE PREPARATION AND METHOD OF ANALYSIS



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

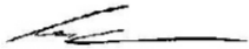
Page: 1  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 11 - JUN - 2018  
 Account: ELLERK

<b>CERTIFICATE KL18124587</b>
<p>Project: LD &amp; Brassie</p> <p>This report is for 7 Rock samples submitted to our lab in Kamloops, BC, Canada on 28 - MAY - 2018.</p> <p>The following have access to data associated with this certificate:                  KEN ELLERBECK</p>

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
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

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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Page: Appendix 1  
 Total # Appendix Pages: 1  
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 Account: ELLERK

Project: LD & Brassie

CERTIFICATE OF ANALYSIS KL18124587

CERTIFICATE COMMENTS	
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada. CRU-31 CRU-QC LOG-22 PUL-31 PUL-QC SPL-21 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Ag-OG46 Au-AA23 Cu-OG46 ME-ICP41 ME-OG46

APPENDIX 2 ASSAY RESULTS

Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
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Project: LD & Brassie

CERTIFICATE OF ANALYSIS KL18124587

Sample Description	Method Analyte Units LOD	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
LD-18-2		0.84	>100	0.26	2550	10	1720	<0.5	3	0.07	58.9	6	7	>10000	4.12	<10
LD-18-3		0.49	2.9	0.10	128	<10	3320	<0.5	<2	0.05	19.5	7	9	613	4.15	<10
LD-18-6		0.46	1.8	0.37	89	10	1240	<0.5	<2	0.13	15.1	4	3	528	3.12	<10
LD-18-8		0.89	38.2	0.27	12	10	2580	<0.5	3	0.10	<0.5	1	11	8930	1.37	<10
BRAS-A-1		0.58	0.8	0.40	456	30	100	<0.5	<2	19.8	5.5	5	2	98	13.55	<10
BRAS-A-2		1.21	5.1	0.29	969	40	160	1.1	6	11.1	3.7	9	9	8020	17.50	<10
BRAS B-3		1.13	24.5	0.31	294	10	110	<0.5	<2	11.7	0.6	8	4	52	3.33	<10

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



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Page: 2 - B  
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 Plus Appendix Pages  
 Finalized Date: 11 - JUN - 2018  
 Account: ELLERK

Project: LD & Brassie

**CERTIFICATE OF ANALYSIS KL18124587**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
LD-18-2		27	0.16	10	0.02	910	5	0.01	3	330	2020	0.14	523	6	14	<20
LD-18-3		<1	0.08	<10	0.02	4000	3	<0.01	2	550	17	0.06	69	3	27	<20
LD-18-6		<1	0.30	10	0.02	4230	1	<0.01	1	790	9	0.01	24	7	8	<20
LD-18-8		<1	0.19	<10	0.01	106	1	<0.01	1	360	4	0.08	8	3	48	<20
BRAS-A-1		1	0.01	10	0.10	5440	2	0.01	<1	200	171	<0.01	21	2	102	<20
BRAS-A-2		44	<0.01	20	0.11	4640	54	0.01	4	2970	599	1.14	89	5	134	<20
BRAS B-3		<1	0.13	10	0.28	2170	38	0.02	6	180	79	1.42	4	2	133	<20

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



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 Finalized Date: 11 - JUN - 2018  
 Account: ELLERK

Project: LD & Brassie

**CERTIFICATE OF ANALYSIS KL18124587**

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Cu-OG46	Au-AA23
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	Au ppm 0.005
LD-18-2		<0.01	<10	<10	27	<10	7380	428	1.185	0.018
LD-18-3		<0.01	<10	<10	18	<10	1810			<0.005
LD-18-6		<0.01	<10	<10	8	<10	1250			<0.005
LD-18-8		<0.01	<10	<10	3	<10	49			<0.005
BRAS-A-1		<0.01	<10	<10	22	10	422			0.007
BRAS-A-2		0.01	<10	<10	103	<10	3040			0.153
BRAS-B-3		<0.01	<10	<10	23	<10	102			0.127

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



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: ELLERBECK, KENNETH  
 CECIL (107608)      Submitter: ELLERBECK, KENNETH  
 CECIL (107608)  
 Recorded: 2018/MAY/28      Effective: 2018/MAY/28  
 D/E Date: 2018/MAY/28

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: 5698523  
 Work Type: Technical Work  
 Technical Items: PAC Withdrawal (up to 30% of technical work required), Prospecting  
 Work Start Date: 2018/MAY/27  
 Work Stop Date: 2018/MAY/27  
 Total Value of Work: \$ 2744.20  
 Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
905597	PB1	2011/OCT/06	2018/DEC/31	2019/JUN/30	181	83.01	\$ 617.49	\$ 0.00
905612	PB2	2011/OCT/06	2018/DEC/31	2019/JUN/30	181	20.75	\$ 154.38	\$ 0.00
1014834	PB	2012/NOV/27	2018/DEC/31	2019/JUN/30	181	186.78	\$ 1389.36	\$ 0.00
1014837		2012/NOV/27	2018/AUG/01	2019/JUN/30	333	20.75	\$ 284.00	\$ 0.00
1014839	OMG	2012/NOV/27	2019/MAY/30	2019/JUN/30	31	20.76	\$ 26.44	\$ 0.00
1019819	LUCKY 7	2013/MAY/27	2018/DEC/31	2019/JUN/30	181	20.75	\$ 154.29	\$ 0.00
1051454	LD-COMSTOCK	2017/APR/17	2019/APR/17	2019/JUN/30	74	124.49	\$ 125.85	\$ 0.00
1055700	Northno	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	41.49	\$ 308.01	\$ 0.00
1055701	LD	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	62.23	\$ 462.06	\$ 0.00
1055702	Northnot	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	20.74	\$ 154.01	\$ 0.00
1055703	LD	2014/JAN/01	2018/DEC/31	2019/JUN/30	181	20.74	\$ 154.02	\$ 0.00
1059694	NEWSHOWCOMSTOCK	2018/APR/01	2019/APR/01	2019/JUN/30	90	41.50	\$ 51.02	\$ 0.00

Financial Summary:

Total applied work value: \$ 3880.93  
 PAC name: KEN ELLERBECK  
 Debited PAC amount: \$ 1136.73  
 Credited PAC amount: \$ 0  
 Total Submission Fees: \$ 0.0  
 Total Paid: \$ 0.0

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