

## BIG LEDGE PROPERTY CLAIMS PART C Slocan Mining Division, BC

**2007 EXPLORATION REPORT** 

**Mineral Claims** 

546039

## **NTS Sheets**

82K/12, 82L/08, 82L/09

(approximate centre of claims: 50° 30' N / 118° W)

Work completed on September 17 and 18, 2007

Work completed by: Barry Hanslit (Owner/Operator) Zinex Mining Corp. Nanaimo, BC Report Prepared by: Janet Miller Barry Hanslit

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## Summary

Barry Hanslit acquired the Big Ledge "C" claim 546039 (1016 acres/411 ha) in the fall of 2006. He continues to be the owner/operator on the claims. The Big Ledge "C" claim is located within portions of National Topographic System (NTS) 1:50,000-scale map sheets 82K/12, 82L/08 and 82L/09 in the Slocan Mining District of British Columbia, approximately 60 km south of Revelstoke and 31 km northwest of Nakusp.

Exploration has been performed within the area since 1892 primarily on the neighboring Big Ledge. During this time numerous geological, geochemical and geophysical surveys were conducted and this exploration has resulted in four adits, trenching and over 10,000 m of drilling. The most recent work on the property was conducted by Teck Corp. between 1991 and 1993, including widely spaced soil and magnetometer surveys, trenching and diamond drilling. Regional mapping by the GSC reveals the Big Ledge to be primarily underlain by rocks of the Thor-Odin gneiss dome of the Proterozoic Monashee Complex and metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. These rocks are schist and gneiss, calcareous quartzite, calc-silicate gneiss, marble and amphibolite. On the property, rocks are folded into a series of east-west trending, open to tight folds, inclined to the south, overturned to the north and plunging variably to the east and west. The Big Ledge horizon is 30m of a mineralized quartzite unit in the core of a fold which is likely a tight antiform, inclined to the south and overturned to the north.

On September 17<sup>th</sup> and 18<sup>th</sup>, 2007, reconnaissance prospecting work was conducted on the Big Ledge "C" claim. No showings with significant mineralization were found. Despite the poor results from the current exploration program, the area that comprises the Big Ledge is a highly prospective development. Further exploration after a compilation of existing data and modeling is recommended to find areas worthy of detailed prospecting in the future.

## **Table of Contents**

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Summary	ii
Table of Contents	
List of Figures	iv
List of Appendices	iv
1.0 INTRODUCTION	1
2.0 DESCRIPTION OF LANDHOLDINGS	4
2.1 Location and Mineral Claims	4
2.2 Access	4
2.3 Physiography, Fiora and Fauna	4
2.4 Property History	4
3.0 GEOLOGY	5
3.1 Regional Geology	
3.2 Property Geology	7
3.3 Deposit Mineralogy	
4.0 2007 EXPLORATION PROGRAM	
4.1 Prospecting	9
4.0 CONCLUSIONS AND RECOMMENDATIONS	9
REFERENCES CITED	14

# List of Figures

- -

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		page
Figure 1	Big Ledge "C" Claim Location Map	2
Figure 2	Big Ledge "C" Claim and Physiography	3
Figure 3	Big Ledge "C" Regional Geology	6
Figure 4	Big Ledge "C" Property Geology	8
Figure 5a	Big Ledge "C" Claim Traverse	10
Figure 5b	Big Ledge "C" Claim Traverse	11

# **List of Appendices**

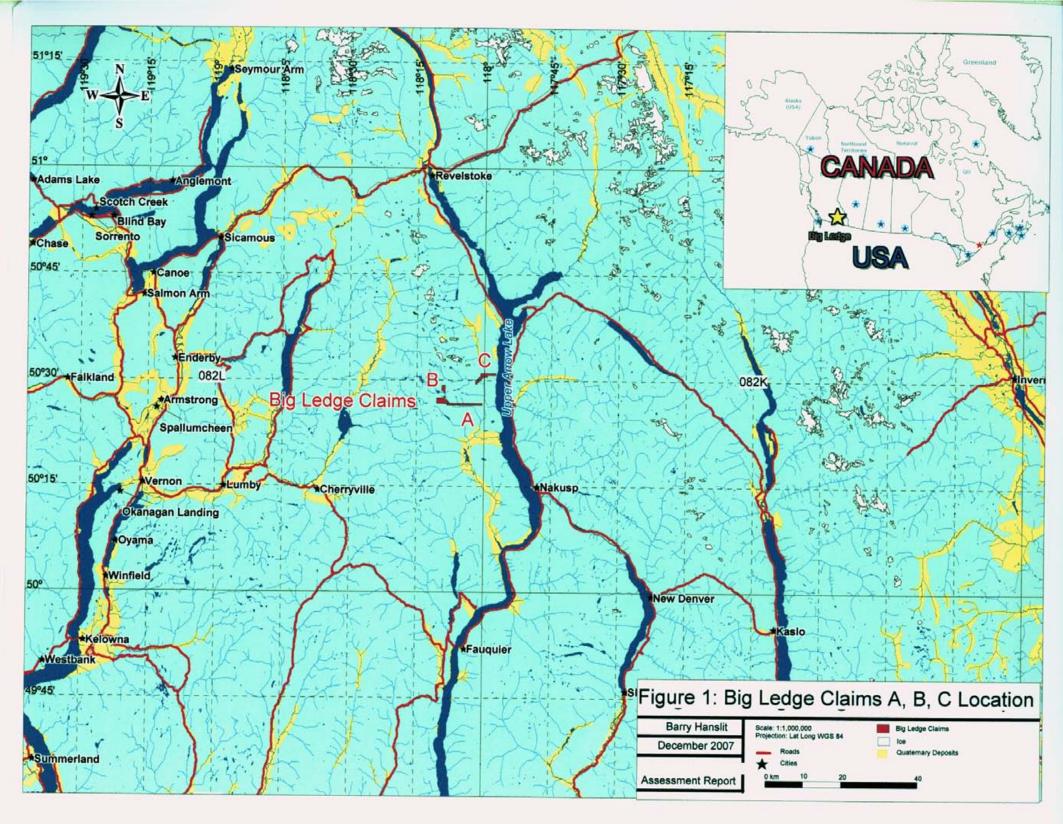
Appendix I	Mineral Claims and Expenditure Schedule
Appendix II	Statement of Qualifications

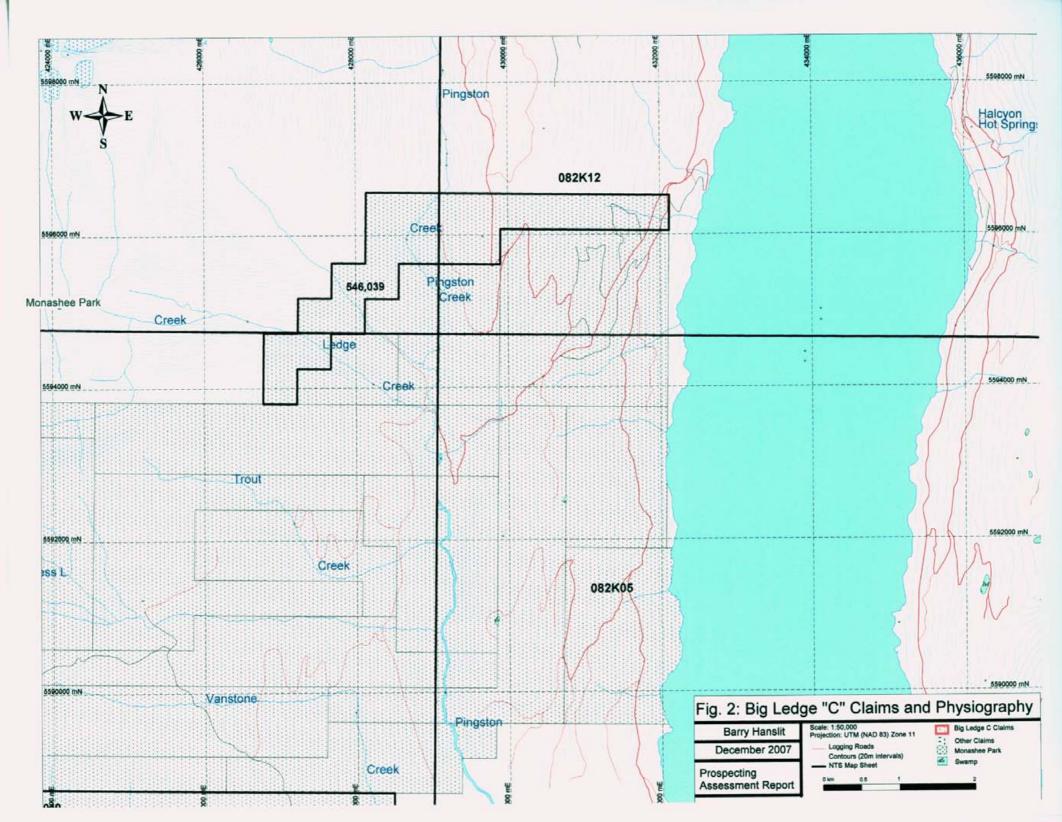
### **1.0 INTRODUCTION**

Barry Hanslit acquired the Big Ledge "C" claim 546039 (411 ha) in the fall of 2006. He continues to be the owner/operator on the claim which is located in portions of National Topographic System (NTS) 1:50,000-scale map sheets 82L/08, 82L/09 and 82K/12 in the Slocan Mining District of British Columbia, approximately 60 km south of Revelstoke and 31 km northwest of Nakusp (Figure 1 and 2).

Exploration has been performed within the area since 1892 mainly on the neighboring Big Ledge Deposit. During this time numerous geological, geochemical and geophysical surveys were conducted resulting in four adits, trenching and over 10,000 m of drilling. The most recent work on the property was conducted by Teck Corp. between 1991 and 1993, including widely spaced soil and magnetometer surveys, trenching and diamond drilling. Regional mapping by the GSC reveals the Big Ledge to be primarily underlain by rocks of the Thor-Odin gneiss dome of the Proterozoic Monashee Complex and metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. These rocks are schist and gneiss, calcareous quartzite, calc-silicate gneiss, marble and amphibolite. On the property, rocks are folded into a series of east-west trending, open to tight folds, inclined to the south, overturned to the north and plunging variably to the east and west. The Big Ledge horizon is 30m of a mineralized quartzite unit in the core of a fold which is likely a tight antiform, inclined to the south and overturned to the north (Figure 3).

In early fall of 2007, prospecting was conducted on the Big Ledge "C" claim by Barry Hanslit. This report documents that work, and also provides a description of claims, location, access, physiography and other relevant information. A discussion of the deposit mineralogy follows a description of regional and property scale geology.





# 2.0 DESCRIPTION OF LANDHOLDINGS

#### 2.1 Location and Mineral Claims

The Big Ledge "C" claim numbered 546039 (411 hectares) is a stepped rectangle running northeast-southwest 400m inland from Upper Arrow Lake and is crossed by Pingston and Ledge Creek. The property is located 60 km south of Revelstoke and 31 km northwest of Nakusp within National Topographic System (NTS) 1:50,000-scale map sheets 82K/12, 82 L/08 and 82L/09 (Figure 2). The mineral claim was staked by Barry Hanslit in the fall of 2006. Work on the property was conducted by Barry Hanslit. Additional claim information is provided in Appendix I.

### 2.2 Access

The Big Ledge "C" claim is located approximately 60 kilometers south of Revelstoke and 31 km northwest of Nakusp. The property can be accessed by logging roads in the summer months south of Revelstoke on Highway 23 to the Shelter Bay logging roads, then traveling 18km south to the Limekiln spur road, and finally an additional 3.1km to Odin road.

### 2.3 Physiography, Flora and Fauna

The property has undulating topography ranging from a peak of 4,100 ft in the southwest to a low near Upper Arrow Lake of 1,840 ft. The claim is a stepped rectangle running northeast-southwest 400m inland from Upper Arrow Lake and is crossed by in multiple places by Pingston and Ledge Creek. The property is vegetated in a mixture of fir and cedar with open underbrush at lower elevations, and sub-alpine spruce forests at higher elevations (Evans, 1993). Outcrop is rare to the east of the property and more abundant (averaging 80%) in the west. Ungulates such as elk, moose and deer winter along Upper Arrow Lake. Other wildlife in the region includes black and grizzly bears. In addition, trout occupy some of the lakes and rivers.

### 2.4 Property History`

The area around the Big Ledge has been the focus of exploration since 1892, when the deposit was originally staked as a gossan. By 1925, 210 metres of underground work in 4 adits had been completed on the Bonanza, Sunshine, Skyline and Adventurer claims. In 1927, 16 holes were drilled on the property (BCGS, 2007). Consolidated Mining and Smelting Company of Canada Ltd. (Cominco) combined a large portion of the deposit in 1947 and by 1953 they drilled 6,100 metres on the property. In 1960, the ground was re-staked as the BL group. From 1964 to 1966, approximately 3,960 metres of drilling, geological mapping and geochemical and magnetometer surveys were carried out.

Since that time numerous other companies have explored within the area around the Big Ledge. In 1977, Metallgesellschaft and Cyprus Anvil Mining Corp.

mapped the geology. Esperanza Explorations completed geotechnical, geophysical and geochemical surveys between 1980 and 1981. Geochemical and geological surveys were carried out in the vicinity of the Big Ledge by Noranda in 1988 and 1989. Between 1991 and 1993, Teck Corp. mapped the property, conducted widely spaced soil and magnetometer surveys, trenched and performed diamond drilling (Evans, 1993).

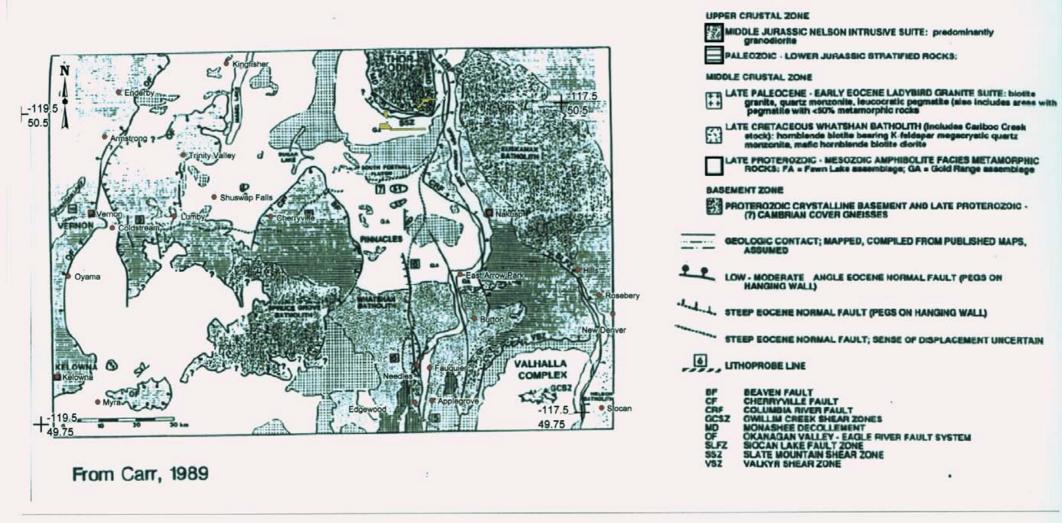
## 3.0 GEOLOGY

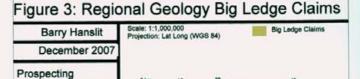
### 3.1 Regional Geology

This area has been mapped in 1977, 1979 and 1985 by the GSC and is primarily underlain by rocks of the Thor-Odin gneiss dome of the Proterozoic Monashee Complex and metamorphic rocks of the Proterozoic to Paleozoic Kootenay Assemblage. The Thor-Odin is one of a series of gneiss domes spaced approximately 80 kilometres apart on the eastern edge of the Shuswap Complex. The Shuswap metamorphic rocks are part of the Proterozoic-Mesozoic amphibolite grade complex intruded by Eocene granodiorites and pegmatites (Evans, 1993; BCGS, 2007).

A central core zone in the Thor-Odin dome consists of gneissic and migmatitic rocks. This zone is surrounded by a heterogeneous assemblage of metasedimentary rocks of the Mantling zone and Fringe zone, the latter containing abundant pegmatite and lineated quartz monzonite. The Supracrustal zone, consisting of quartzite, marble, phyllite, schist and metavolcanic rocks, forms a cover to the gneisses (BCGS, 2007).

The Big Ledge deposit is located south of the Core zone in an east-west trending succession of metasedimentary rocks of the Mantling zone. The rusty weathering succession consists of a heterogeneous mixture of schist and gneiss, calcareous quartzite, calcsilicate gneiss, marble and amphibolite. The structure is dominated by a series of east-west trending, open to tight folds. These are inclined to the south, overturned to the north and plunge variably to the east and west. The mineralized horizon is within the core of a tight antiform, inclined to the south and overturned to the north. (BCGS, 2007)





Assessment Report

#### 3.2 Property Geology

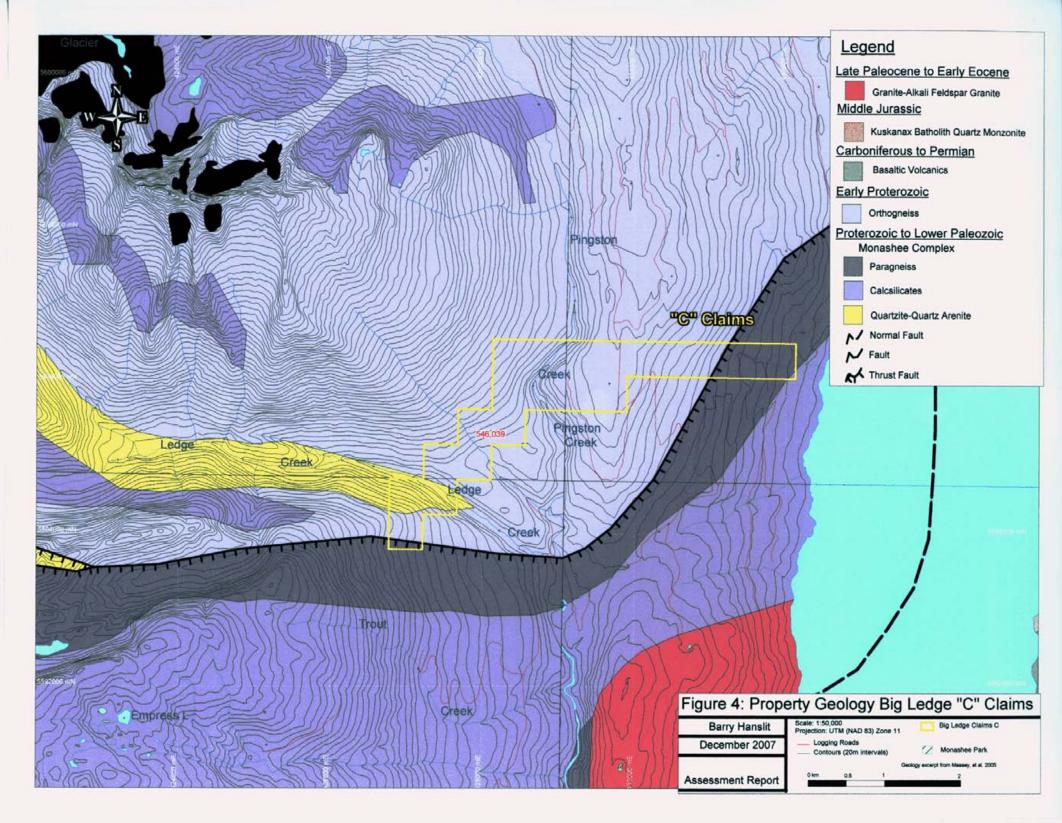
The property geology shown in Figure 4, based on the data from BCGS online geology map, shows that the of the property is underlain by Proterozoic to Lower Paleozoic Monashee Complex comprised of quartzite-quartz arenite, calc-silicates and paragneiss. The majority of the claim is comprised of calc-silicates, while a nose of quartzite-quartz arenite is shown in the south western portion. Paragneiss thrusts over calc-silicates of the same complex and this relationship can be seen in the northeastern corner of the property and on the southern-most border of the claim as the fault wraps around.

#### 3.3 Deposit Mineralogy

The neighboring Big Ledge showing contains showings of pyrrhotite, pyrite, sphalerite, galena, chalcopyrite and marcasite occuring along a layer known as the Ledge for a distance of over 10 kilometres. Indicated ore reserves are 6.5 million tonnes grading less than 6 per cent combined lead and zinc (CIM Bulletin Vol. 75, No. 840, page 119).

The Big Ledge is hosted in a quartzite package consisting of fine grained, dark graphitic-sericitic schist, dark quartz-rich schist, calc-silicate gneiss and minor siliceous marble layers. Pyrite and pyrrhotite are disseminated throughout these units resulting in a characteristic rusty weathering. Drilling indicates that there are at least four massive sulphide layers within the Big Ledge. It is not known if these are individual layers or fold repetitions of one or more layers. The massive sulphide layers consist of medium- to coarse-grained pyrrhotite or pyrite with varying amounts of dark sphalerite. This massive sulphide layer can be 5 to 75% of the sequence (Evans, 1993). Quartz-eyes are common in the massive sulphide layers and sphalerite is typically aligned parallel to layering in the adjacent schists (BCGS, 2007).

The Big Ledge averages 30 metres in thickness and is conformable to bedding. Pyrrhotite is the most abundant sulphide and pyrite, usually in nodular masses, is locally abundant. Sphalerite is erratically distributed with the pyrrhotite. Galena is occasionally present in minor amounts along with the other sulphides, but the only notable concentrations are small occurrences in calcareous beds adjacent to the main mineralized sections. In general, the sulphides are coarse-grained and a small amount of the ore minerals are intergrown with pyrrhotite. Iron sulphides are usually accompanied by scattered graphite flakes.



A zone of heavier mineralization occurs in the upper portion of the rock series. This zone ranges from 0.61 to 6 metres in thickness and is conformable with bedding, but the sulphides are erratically distributed in irregular massive and disseminated bodies. There is a large amount of granitic and pegmatitic material in this zone. Sphalerite appears to be most abundant in disseminated sulphide sections, but small irregular high-grade patches occur with both the massive and disseminated sulphides (BCGS, 2007).

While the thickness of this horizon is unusually large in many respects it could be considered a typical Shuswap style Zn-Pb-Ag system. Alteration is essentially absent supporting a possible syngenetic origin for this system such as in a sedimentary exhalative Zn-Pb system.

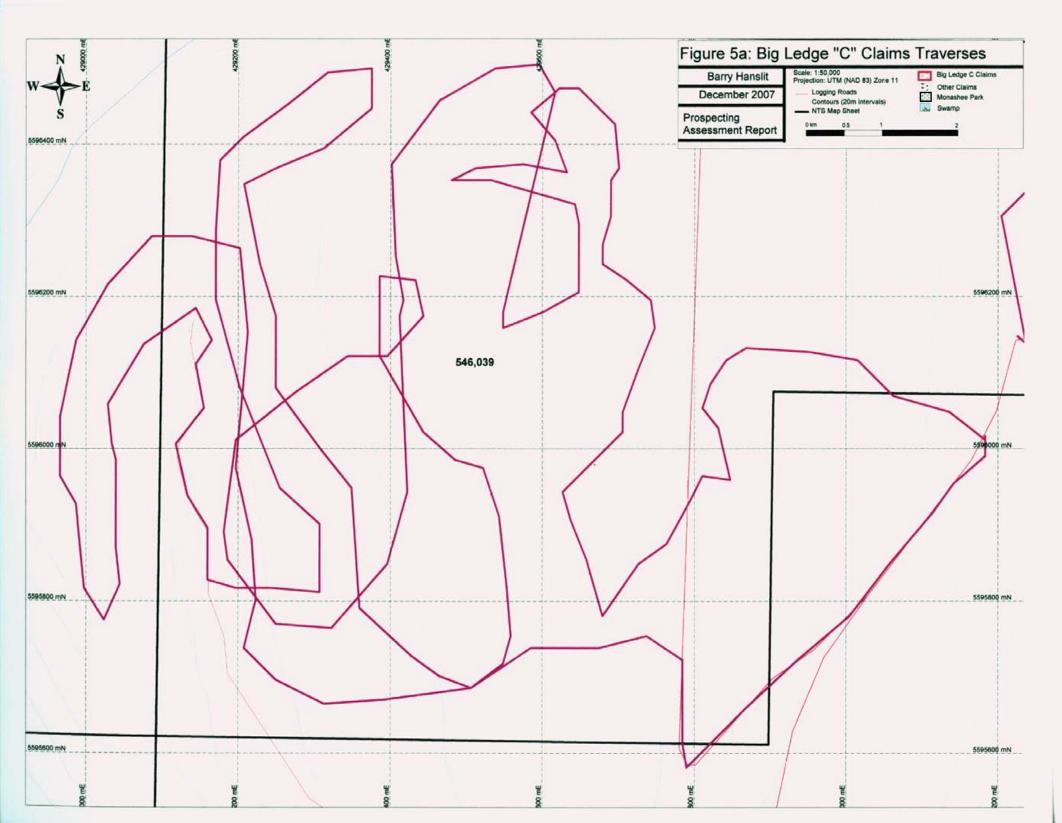
## 4.0 2007 EXPLORATION PROGRAM

#### 4.1 Prospecting

Two days were spent on foot prospecting the Big Ledge "C" claim. Prospecting was focused on finding new occurrences of lead-zinc Big Ledge-type mineralization. Maps of the traverse can be seen in Figure 5a and 5b. No significant sources of mineralization were found. Costs associated with the program are listed in Appendix I.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

Results from the prospecting program in 2007 revealed no new occurrences of mineralization on the Big Ledge "C" claims. Due to the time constraints on the program and the limited areas of exploration these claims remain underexplored and warrant future work. Compilation of existing data in the area into a comprehensive set would allow for more efficient exploration in the future.





### **REFERENCES CITED**

- Massey, N.W.D., MacIntyre, D.G., Desjardins, P.J. and R.T. Cooney. 2005. Digital Geology Map of British Columbia: Tile NM11 Southeast B.C., B.C. Ministry of Energy and Mines, Geofile 2005-4
- Carr, S. Implications of Ladybird granite in the Thor-Odin-Pinnacles area, pp.79, GSC 89-1E, Current Research.
- Evans, G., 1993. Diamond Drill Program Assessment Report on the Arrow Property, Prepared for Teck Corp. BC Assessment Report number 23120.
- BCGS, 2007. MINFILE Number 082LSE012, BIG LEDGE, MONARCH, ADVENTURER (L.1067), BL, SUNSHINE (L.2477), SKYLINE, Developed Prospect. BC Geological Survey, website: <u>http://minfile.gov.bc.ca/Summary.aspx?minfilno=082LSE012</u>

# Appendix I

## **Mineral Claims and Expenditure Schedule**

Expenditure Allocations (1 page)

Exploration on the claim was in conjunction with the Big Ledge "A" claims and, as such, there are no costs for field preparation or mobilization. This work is sufficient to hold the claims at their current status until the dates shown below.

Total Prosp	ecting Costs:		\$1,500.00	-					
Claim Number	NTS Map Sheet	Date of Staking	Current expiry date	Size (acres)	Area (ha)	2007 Exploration Costs	New Expiry Date	PAC Debit Used	Excess Credit
546039	082L	28-Nov-06	17-Sep-07	1015.6179	411.006	\$1,500.00	17-Sep-08	0	\$179.39
			Total	1015.6179	411.006	\$1,500.00			\$179.39

#### Big Ledge "C" Claim 2007 Prospecting Cost Schedule Personnel Costs

Activity	Person	Day Rate	Days	Total	
Field Prep	aration				
	Barry Hanslit	\$400.00	0	\$0.00	
in the	-				
Field					
	Barry Hanslit	\$400.00	2	\$800.00	
Report Pre	eparation				
-	Barry Hanslit	\$400.00	0.5	\$200.00	
	Janet Miller	\$400.00	0.75	\$300.00	
			Subtotal P	ersonnel Costs	\$1,300.00
Equipmen	nt Costs				
item		Day Rate	Days	Total	
Truck and ATV	Trailer rental	\$50.00	2	\$100.00	
Rental		\$50.00	2	\$100.00	
			Subtotal Equipment Costs		<u>\$200.00</u>
				Grand	

Total \$1,500.00

# Appendix II

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**Certificate of Authors** 

#### **CERTIFICATE OF AUTHORS**

I, Janet L. P. Miller, of Nanaimo, British Columbia, Canada do hereby certify that:

- 1. I was an employee of Strongbow Exploration Inc. formerly Navigator Exploration Corp., 800-625 Howe St., Vancouver, British Columbia, Canada from 2000 to 2005.
- 2. I graduated from the University of British Columbia (2004) with a BSc in Honours Geology with a minor in Biology.
- 3. I have been employed continuously in geology during the summer terms of my education with a focus in diamond exploration.
- 4. I have been active in the field aspects of diamond and base metal exploration for four years (2002-2005) in the Northwest Territories and Nunavut, including project management, planning and implementation, as well as detailed mapping of surficial deposits, sampling, prospecting, and ground truthing geophysical anomalies on various properties.
- 5. I have been involved in data compilation, and analysis for diamond and base/precious metal exploration since 2000 under the supervision of a registered professional geologist, and have been involved in a number of aspects of projects in the Northwest Territories, British Columbia, and Nunavut.

Janet L.P. Miller

Nanaimo, BC, Canada January 11, 2008 I, Barry Hanslit, of 3380 Hammond Bay Rd. Nanaimo, British Columbia do hereby declare the following:

- 1. I have completed a "Prospecting Course" in 1991 given by a representative of Manitoba Natural Resources at Falcon Lake, Manitoba.
- 2. I have been prospecting for the last 12 years in both Manitoba, and more recently British Columbia.
- 3. I have worked on several prospects and developed prospects in Manitoba during the years 1990 to 1994
- 4. Held the position of Project Operations Manager with Stornoway Diamonds from 2004 to 2005.
- 5. Currently president of Zinex Mining Corp.

Barry A. Hanslit

Nanaimo, BC, Canada January 11, 2008