# 2011 Geotechnical Assessment Report for the Ainsworth Property

**SOW Event # 4838645** 

BC Geological Survey Assessment Report 32281

**Slocan Mining Division** 

NTS Map 082F/10 UTM Coordinates (NAD 83, Zone 5): 505800, 5508500

Tenure #: 706662 and 706664

Prepared for David Wallach

By

Anastasia Ledwon, B.Sc, P.Geo UTM Exploration Services Ltd. Smithers, BC

June 2011

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## 1. Summary

On August 14 and 15, 2010, prospector Leigh Nord completed several hours of work on two claims (KENS1 and an unnamed claim) near Ainsworth Hotsprings for Mr. David Wallach. Five samples were collected on or near the Hector and Danira MINFILE showings/mines (MINFILE #082FNE034) with the intention of proving previously collected assay results and reinitiating interest in the area.

#### 2. Introduction and Terms of Reference

Preparation of this report utilized several existing Assessment Reports and unpublished work completed on the property, plus several conversations with the owner of the property.

Ms. Ledwon has not yet visited the site.

The History section was taken mainly from Assessment Reports. Geochemical analyses were completed by Acme Analytical Laboratories. Regional and local geology was quoted directly from previous (identified) Assessment Reports.

This report is the first part of a more comprehensive report being prepared about this property.

# 3. Property Description and Location

### 3.1 Accessibility and Infrastructure (Buss, 2008)

Accessibility to the area is quite good with plenty of logging roads throughout.

Infrastructure in the area is excellent with Ainsworth less than a kilometer away and Nelson being 45 km to the south (Figure 1). Railway and hydro lines follow the highway #3A/31 corridor.

Numerous old and abandoned processing buildings are scattered throughout the property as well as abundant outcropping, old ore piles, and adits.

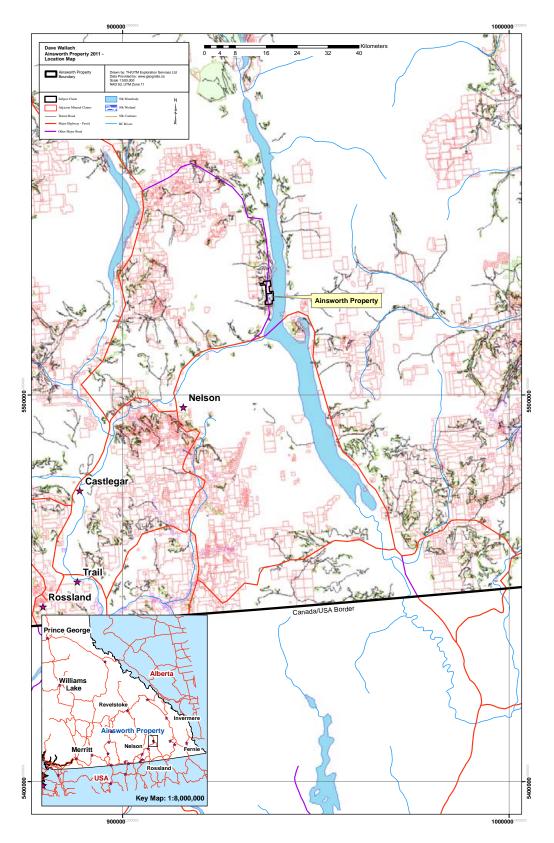


Figure 1. Location Map.

#### **3.2 Mineral Tenure Information**

The property consists of two mineral claims: 706664 (KENS1) and 706662 (unnamed), see Figure 2. KENS1 is owned by CharlesKendall Leitner and the unnamed claim is owned by David A.Wallach. Both claims are good through June 6, 2011 and anticipate having further work completed on them in the near future. The claims total 981.44 hectares.

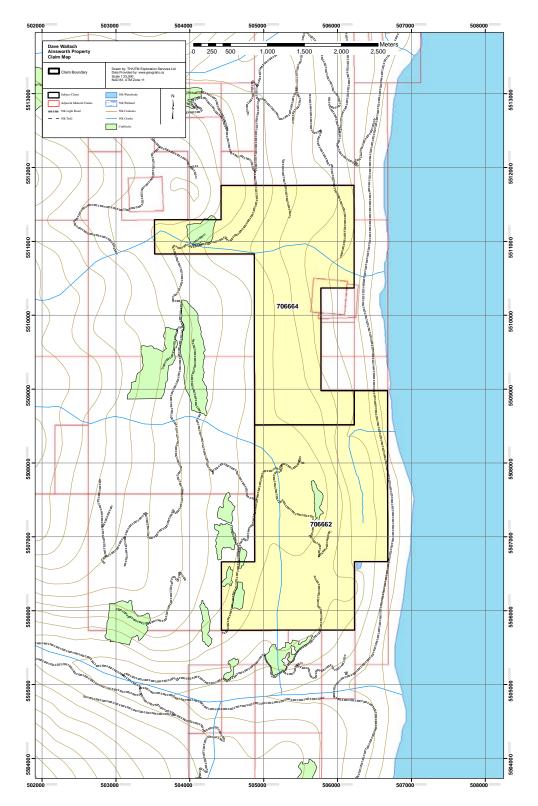


Figure 2. Claim Location Map.

#### 3.3 Physiography and Climate

The geography of the area is a series of stepped ridges extending upwards to the west and parallel to Kootenay Lake. There are numerous cliffs with abundant pine forest growth.

The region experiences average snowfall amounts for the area while summers are warm with extended fall seasons. The high elevation and lake moisture effects may limit year round access during the winter months.

# 4. History (Buss, 2008)

Abundant exploration has been done on the Ainsworth tenures since the 1800's. The author refers the reader to the B.C. Ministry of Mines Bulletin #53, "The Geology of the Ainsworth-Kaslo Area, British Columbia" by J.T. Fyles (1967). The site visit involved mostly the south central area of the tenure group, specifically around the Noble claim block, which will be the basis of this section.

The first mineral claim in the Ainsworth camp was around 1884 with most of the claims/crown grants distributed between then and 1900. A majority of the claims were immediately developed. Consequently, very little is known by the author, at this time, as to the amount and degree of exploration conducted on the properties.

However, Cominco did explore the area from 1952 to 1957 looking for the limestone replacement type deposit, similar to the Bluebell ore zones on the eastern side of the Kootenay Lake.

More recently, the B.C assessment report # 8992 (Richardson, 1981) contains a drilling project of the southern area of this tenure. In that he explains about building a grid system with a 6 km long baseline extending north from the "south border of the Bald Eagle claim" to north of the Ainsworth village site. Cross lines on the grid were spaced 100 meters apart with 25 meter stations and totaled 49.3 km.

A geochemical program in conjunction with a VLF-EM geophysical survey was conducted over the gridded area. Once completed, the area was drilled in 1980, totalling 1772 meters (Richardson, 1981).

Very little surface sampling/exploration data is available "on-line" for the Ainsworth area.

The first production on the Ainsworth property was in 1889. Total production in the area was from 50 properties which produced 763,826 short tons of ore, up to 1964 (GBAR# 8992). The Florence, Highlander, Highland and No.1 claim blocks had the largest production at more than 40,000 tons of ore each.

Two mills were built in the 1950s and operated until 1961. One was located below the Highlander Mine, while the other one was for the Florence and area ore. Only a few of the larger mines went down to the 200 meter level and most were closed in the early 1920s due to the low silver prices of the times coupled with water problems at depth.

The closest producing mine to the recently sampled area is the Banker Mine which produced 4,346 tonnes @ 1,916,941 g silver, 1,016,876,000 g lead, 25,567,000g of zinc and 31 g of gold from 1909 to 1960 (MINFILE 082FNE029). All figures are not 43-101 compliant.

The main exploration programs in this area concentrated on discovering the down plunge extension of the Bluebell Mine which operated on the east side of the lake near Riondell. The Bluebell mining area lies within the Badshot Formation and operated from 1895 to 1982. It produced 4,820,029 tonnes at an average grade of 45.85 g/t Silver, 5.17% Zinc, 4.85% Lead, 0.06% Copper, 0.02% Cadmium and 0.02 g/t Gold (Minfile # 082FNE043). Conversely, the 50 Ainsworth area properties produced a total of 692,960 tonnes with an average grade of 193.6 g/t Silver, 1.10 % Zinc, 6.22% Lead, 0.01% Cadmium and 0.02 g/t Gold (Letniter, 1997).

Cominco explored the area from 1952 to 1957 looking for a deep seated limestone replacement type deposit, similar to the Bluebell ore zones on the eastern side of the Kootenay Lake. A return exploration program reportedly in the late 70s (no details or verification available) is alleged to have been conducted. Four holes are rumoured to have been drilled to over 300 meter depths with very encouraging results of mineralization at depth which are said to have been locked away without being publicly reported. Under new management with Tech the Canadian claims were gradually relinquished, all except for the Schaefer Crown Grant by Loon Lake in the south which had been renamed the Center Star.

If there is an extension of the Bluebell on these tenures, it would be deeper than any present working and known past drill programs, as it has not been located yet. Therefore exploring for such a deposit would require deep geophysical and drilling methodologies.

Consequently, it is Onavi Groups intention to conduct a deep earth imaging geophysics program over the southern area using Titan 24 or some equivalent to determine potential drill targets by means of highly advanced geophysics and, if successful, drill the property to depths of greater than 300 meters to determine if the verbal reports are accurate or simply prospector's tales.

In 2008, a comprehensive summary of multiple properties was created by L. Buss for Liberty Minerals (see References). Regarding the Ainsworth property, Buss visited numerous locations on the claims as well as the surrounding area and has amassed an interesting and useful report.

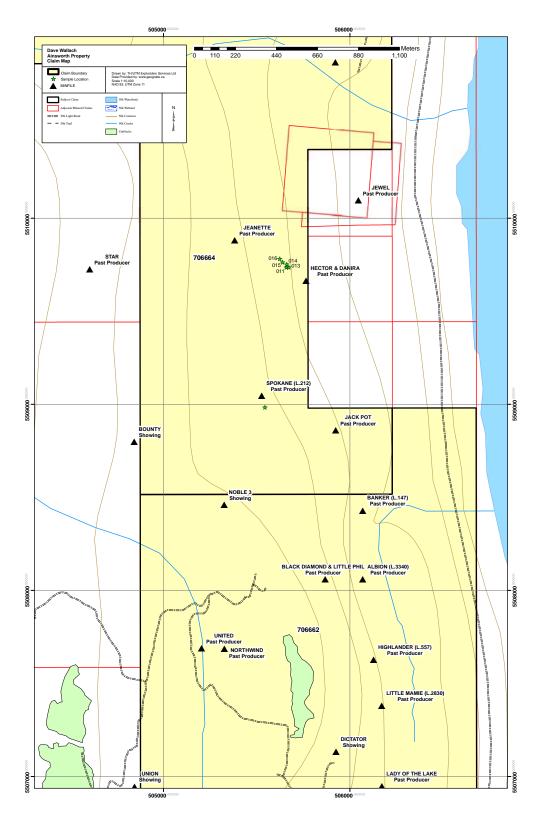


Figure 3. Locations of previously producing mining operations and sample locations for 2010 program.

## 5. Geological Setting

#### 5.1 Regional and Local Geology (Buss, 2008)

The Ainsworth tenure package is underlain by metamorphosed, Lower Cambrian to Upper Triassic, volcanic and sedimentary rocks (Dr. P.W. Richardson, P. Eng., 1981). The area lies within the western limb of the Purcell Anticlinorium and butts up against the eastern edge of the Nelson Batholith.

The major metamorphosed units, from east to west, include the Ainsworth limestone, Star limestone, interlayered mica schist and hornblende schist. "Grey knotted schist" rests against the batholith (Fyles, 1967, bulletin #53). Numerous elongated granite pegmatites and granitic sills occur in conjunction with a lesser amount of lamprophyre dikes. There are generally three northerly trending strikeslip faults that divide the region into four parallel slices. They generally dip westerly and have numerous, smaller fault, off shoots, sub parallel to the main faults

#### 5.2 Mineralization and Alteration (Buss, 2008)

Mineralization of the property consists of galena, sphalerite, and pyrite, with a lesser amount of chalcopyrite. A majority of the mineralization occurs in the hornblende schist unit which is highly silicified.

## 6. Exploration

#### **6.1 Prospecting**

Five samples were taken in close proximity to the Hector and Danira MINFILE showings (Figure 4). A sixth sample was taken at a nearby previously producing mine called the Spokane. However, as the sample was taken from an ore cart, it has not been taken into consideration in this report.

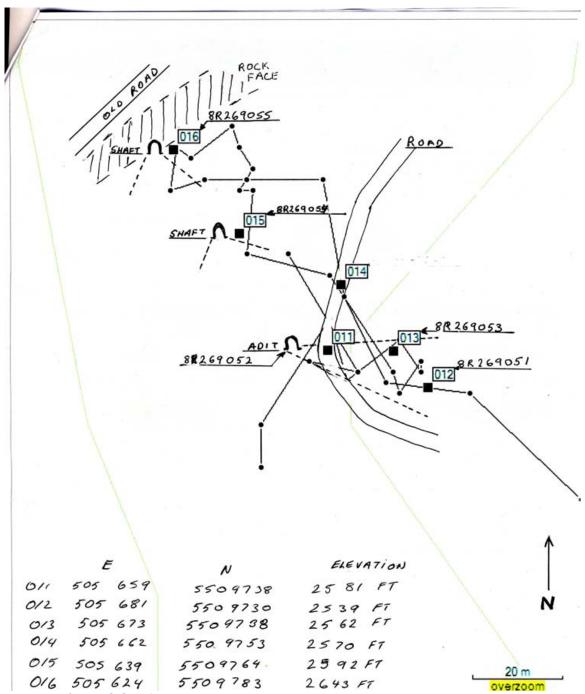


Figure 4. Prospector's sample location map.

## 7. Sampling

#### 7.1 Sampling Method and Approach

Rock grab samples were taken in five locations close to the old Hector and Danira showings/mines in the hopes of proving historical assay results. A sixth sample was taken near the Spokane past producing mine, from an old ore cart.

#### 7.2 Data Verification

See Appendix A for Certificates of Analysis from Acme Analytical Laboratories. Because so few samples were taken, and all were grab samples, no standards or blanks were introduced into the sample stream. Instead, Acme's own quality control procedures were relied upon to give accurate results. Please visit Acme's website for complete descriptions of their analytical procedures: www.acmelab.com.

#### 7.3 Results

Specific results can be seen in Appendix A but some notable numbers are evident for samples 8R269053, 8R269054, and 8R269055 and listed below. At this point, sample 269056 is not being discussed at there are few notes and no specific location since it was removed from an old one cart.

Sample	g/tAg	%Cu	%Pb	%Zn	%Fe	%S
8R269053	54	0.011	8.19	0.65	2.36	1.62
8R269054	20	0.331	0.78	13.29	2.46	6.09
8R269055	32	0.107	7.32	0.85	1.24	1.94
269056	95	0.752	23.4	5.07	6.56	6.12

#### 8. Conclusions and Recommendations

With the higher concentrations of silver, copper, lead, zinc and iron in these samples, further exploration is definitely warrented. Prospecting for new showings and expansion of existing but abandoned previous producers would be a good start.

As suggested by Buss, 2008: The high tonnage potential and the abundant crown grants in the Ainsworth tenure group dictates that airborne geophysics be employed. The main purpose would be to test for a deposit below the current property wide workings. The high grade nature and history of this mining area makes it the most likely to contain mineralized zones. Therefore, the preferred geophysical methods would be EM for structure determination and magnetometer for large sulphide zones. At 500 meter spacing, approximately 38 km of flown grid would be required to cover the entire tenure group.

## 9. Statement of Costs

Labour:

Leigh Nord, Prospector \$200/day x 2 days \$400.00

**Transportation:** 

Truck Rental \$50/day x 2 days **\$100.00** 

Fuel \$100.00

**Geochemistry:** 

Assays (Acme) \$379.16 Shipping \$45.00

Report:

A. Ledwon, P.Geo (UTM) \$70.00/hr x 5 hrs \$350.00 Mapping (UTM) \$60.00/hr x 1 hr \$60.00

**Miscellaneous:** 

Supplies **\$85.00** 

Total Expenditures: \$1419.16

## 10. References

Buss, L. (2008). Geological Exploration Summary Report on the Kootney Arc Land Holdings, SE Portion of British Columbia, Canada For Liberty International Minerals Corp. Website Publication for Liberty Minerals:

www.libmin.com/pdfs/Regional\_Exploration\_Report\_Dec1508.pdf

MINFILE 082FNE034

Putt, D.J. (1977). Report on the Bounty Claim, Ainsworth, BC. BC Ministry of Energy and Mines Assessment Report # 6481.

# 11. Statement of Qualifications

I, Anastasia Ledwon, residing in Telkwa, British Columbia, do hereby certify that:

a. I am part owner and am currently employed as a consulting geologist by:

UTM Exploration Services Ltd. PO Box 5037 Smithers, British Columbia, Canada VOI 2N0

- b. I graduated from the University of Victoria in 1997 with a B.Sc (With Honours) (With Distinction) in Earth and Ocean Sciences;
- c. I am a Professional Geoscientist (P.Geo) registered with the Association of Professional Engineers and Geoscientists of British Columbia, license #33898, and have been a member in good standing since 2009;
- d. Between 1997 and 2001 I was continuously employed as a geoscientist in research geology and from 2005 until present I have been continuously employed as a geologist in the mineral exploration sector;
- e. I have not yet visited this property and am not responsible for the data collected herein.

Dated at Telkwa, British Columbia, this 10th day of June, 2011.

Mather

**Appendix 1: Assays from Acme Analytical** 

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client:

Wallach, David A.

5241 Cobble Crescent

Kelowna BC V1W 5C3 Canada

Submitted By:

David A. Wallach

Receiving Lab:

Canada-Vancouver

Received:

Page:

May 02, 2011 June 02, 2011

Report Date:

1 of 2

# **CERTIFICATE OF ANALYSIS**

## VAN11001863.1

#### **CLIENT JOB INFORMATION**

None Given Project:

Shipment ID: P.O. Number

Number of Samples:

**SAMPLE DISPOSAL** 

STOR-PLP Store After 90 days Invoice for Storage

6

DISP-RJT Dispose of Reject After 90 days

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

Wallach, David A. Invoice To:

> 5241 Cobble Crescent Kelowna BC V1W 5C3

Canada

#### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	6	Crush, split and pulverize 250 g rock to 200 mesh			VAN
G6	6	Lead collection fire assay fusion - Grav finish	30	Completed	VAN
7TD2	6	4 Acid digestion ICP-ES analysis.	0.5	Completed	VAN
G817	1	Lead Assay by Classical Titration	0.5	Completed	VAN

#### **ADDITIONAL COMMENTS**



CC:

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

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

1020 Cordova St. East Vancouver BC V6A 4A3 Canada Phone (604) 253-3158 Fax (604) 253-1716 Client:

Wallach, David A.

5241 Cobble Crescent

Kelowna BC V1W 5C3 Canada

Project:

None Given

Report Date:

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Part 1

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CERTIFI	CERTIFICATE OF ANALYSIS VAN11001863.1																				
	Method	WGHT	G6Gr	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Wgt	Ag	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	Р	Cr	Mg
	Unit	kg	gm/t	%	%	%	%	gm/t	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	50	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
8R269051	Rock	1.53	<50	<0.001	<0.001	<0.02	0.03	<2	0.002	<0.001	0.16	1.50	<0.02	<0.01	<0.001	<0.01	<0.01	0.79	0.36	0.003	0.16
8R269052	Rock	0.81	<50	<0.001	0.001	<0.02	0.02	<2	<0.001	<0.001	0.03	0.77	<0.02	<0.01	<0.001	<0.01	<0.01	0.10	0.05	<0.001	0.02
8R269053	Rock	0.93	54	<0.001	0.011	8.19	0.65	32	0.001	<0.001	0.30	2.36	0.03	0.02	0.004	<0.01	<0.01	0.06	0.02	0.001	0.15
8R269054	Rock	1.35	<50	<0.001	0.331	0.78	13.29	20	<0.001	0.006	0.02	2.46	<0.02	<0.01	0.063	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
8R269055	Rock	1.77	<50	<0.001	0.107	7.32	0.84	32	<0.001	<0.001	<0.01	1.24	<0.02	0.02	0.004	<0.01	<0.01	0.01	0.04	0.001	<0.01
269056	Rock	0.32	86	<0.001	0.752	>10	5.07	95	0.004	0.005	0.15	6.56	<0.02	<0.01	0.026	<0.01	<0.01	0.01	<0.01	<0.001	1.53

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Client:

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Kelowna BC V1W 5C3 Canada

Project:

None Given

Report Date:

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# **IFICATE OF ANALYSIS**

VAN11001863.1

	ı	Method	7TD	7TD	7TD	7TD	7TD	G817
	4	Analyte	Al	Na	K	w	s	Pb
		Unit	%	%	%	%	%	%
		MDL	0.01	0.01	0.01	0.01	0.05	0.1
8R269051	Rock		1.80	0.02	0.89	<0.01	0.08	
8R269052	Rock		0.35	0.01	0.10	<0.01	<0.05	
8R269053	Rock		1.13	<0.01	0.11	<0.01	1.62	
8R269054	Rock		0.25	<0.01	0.02	<0.01	6.09	
8R269055	Rock		0.79	<0.01	0.03	<0.01	1.94	
269056	Rock		2.33	<0.01	<0.01	<0.01	6.12	23.4

**Acme**Labs

Phone (604) 253-3158 Fax (604) 253-1716

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

Client:

Wallach, David A.

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Project:

None Given

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Page:

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Part 1

QUALITY CONTROL REPORT VAN11001863.1																					
	Method	WGHT	G6Gr	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD
	Analyte	Wgt	Ag	Мо	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
	Unit	kg	gm/t	%	%	%	%	gm/t	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	50	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
Pulp Duplicates																					
8R269053	Rock	0.93	54	<0.001	0.011	8.19	0.65	32	0.001	<0.001	0.30	2.36	0.03	0.02	0.004	<0.01	<0.01	0.06	0.02	0.001	0.15
REP 8R269053	QC			<0.001	0.011	8.07	0.65	32	0.001	<0.001	0.30	2.41	0.03	0.02	0.004	<0.01	<0.01	0.06	0.02	0.001	0.15
269056	Rock	0.32	86	<0.001	0.752	>10	5.07	95	0.004	0.005	0.15	6.56	<0.02	<0.01	0.026	<0.01	<0.01	0.01	<0.01	<0.001	1.53
REP 269056	QC																				
Reference Materials																					
STD AGPROOF	Standard		93																		
STD CDN-ME-3	Standard		274																		
STD CPB-2	Standard																				
STD OREAS131B	Standard			<0.001	0.021	1.82	3.13	32	0.002	0.002	0.17	5.65	<0.02	<0.01	0.009	<0.01	<0.01	5.28	0.05	0.002	3.05
STD R4T	Standard			0.062	0.506	1.53	3.43	87	0.351	0.040	0.09	24.17	<0.02	0.02	0.018	0.02	<0.01	2.17	0.05	0.018	1.38
STD SU-1B	Standard			<0.001	1.165	<0.02	0.03	6	1.959	0.065	0.07	25.20	<0.02	0.03	<0.001	<0.01	<0.01	2.19	0.06	0.032	1.72
STD R4T Expected				0.062	0.502	1.518	3.376	86	0.344	0.039	0.086	24.07	0.0087	0.0185	0.018	0.0138	0.0018	2.166	0.045	0.018	1.384
STD OREAS131B Expected				0.0003	0.0216	1.86	3.14	33.3	0.0025	0.00181	0.1717	5.705	0.0072	0.0026	0.0089	0.005		5.28	0.0536	0.002	3.128
STD SU-1B Expected				0.0004	1.185	0.0058	0.0235	6.4	1.97	0.0672	0.0703	25.54	0.00025	0.03	0.0003	2E-05	0.0003	2.21	0.06	0.032	1.79
STD CDN-ME-3 Expected			276																		
STD AGPROOF Expected			94																		
STD CPB-2 Expected																					
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank		<50																		
BLK	Blank		<50																		
Prep Wash																					
G1	Prep Blank	<0.01	<50	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.08	2.39	<0.02	0.07	<0.001	<0.01	<0.01	2.24	0.08	<0.001	0.62

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Project:

None Given

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Page:

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VAN11001863.1

	QUALITY CON	NTROL	REP	OR	Τ			
		Method Analyte	7TD Al	7TD Na	7TD K	7TD W	7TD S	G817 Pb
		Unit	%	%	%	%	%	%
		MDL	0.01	0.01	0.01	0.01	0.05	0.1
	Pulp Duplicates							
	8R269053	Rock	1.13	<0.01	0.11	<0.01	1.62	
	REP 8R269053	QC	1.12	<0.01	0.11	<0.01	1.57	
	269056	Rock	2.33	<0.01	<0.01	<0.01	6.12	23.4
	REP 269056	QC						22.9
	Reference Materials							
	STD AGPROOF	Standard						
	STD CDN-ME-3	Standard						
	STD CPB-2	Standard						64.0
	STD OREAS131B	Standard	4.46	0.14	3.37	<0.01	4.98	
	STD R4T	Standard	3.88	0.92	1.16	<0.01	12.30	
	STD SU-1B	Standard	4.31	1.69	0.61	<0.01	8.29	
	STD R4T Expected		3.897	0.9	1.153	0.00016	12.9903	
	STD OREAS131B Expected		4.57	0.139	3.34		5.01	
	STD SU-1B Expected		4.39	1.662	0.6	0.0007	9	
	STD CDN-ME-3 Expected							
	STD AGPROOF Expected							
	STD CPB-2 Expected							63.52
	BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05	
	BLK	Blank						
	BLK	Blank						
	Prep Wash							
	G1	Prep Blank	7.14	2.51	3.08	<0.01	0.11	
- 1								

Ainsworth Assessment Report
June 2011

**Appendix 2: MINFILE Reference for Hector and Danira** 

(hidden)	(hidden)	(bidden)	(hidden)	(hidden)	(hidden)
(hidden)	(hidden)	(hidden)	(hidden)	(hidden)	(hidden)
(hidden)	(hidden)	(bidden)	(hidden)	(bidden)	(hidden)
(hidden)	(hidden)	(hidden)	(hidden)	(hidden)	(hidden)
(hidden)	(hidden)	(bidden)	(hidden)	(hidden)	(hidden)
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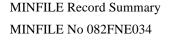


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#### XML Extract/Production Report

BC Geological Survey (BCGS) File Created: 24-Jul-85

by Garry J. Payie(GJP) Last Edit: 23-Dec-99

**SUMMARY** 



082F10 Pb8

Slocan

NMI Name HECTOR & DANIRA, Mining Division

DANERA (L.259), HECTOR (L.5074),

DINERA

**BCGS Map** 082F076 
 Status
 Past Producer
 NTS Map
 082F10W

 Latitude
 49° 44' 22" N
 UTM
 11 (NAD 83)

 Longitude
 116° 55' 12" W
 Northing
 5509665

 Easting
 505764

Commodities Lead, Silver, Zinc, Deposit Types I05 : Polymetallic veins

Copper Ag-Pb-Zn+/-Au

Tectonic Belt Omineca Terrane Kootenay

Capsule Geology The Hector, Danira and Keystone Fraction claims are located at the northwest corner of Ainsworth townsite.

The claims cover two quartz veins that strike between 330 and 335 degrees, dip 40 to 60 degrees west and are parallel to the foliation of the enclosing rocks. These rocks are quartz mica-schist and quartzites of the Mississippian to Lower Permian Milford Group. The quartz vein on the Danira is on strike with the Highlander vein to the south. It follows the hangingwall of a lamprophyre sill and is up to 1 metre thick. It contains lenses of sphalerite, galena, pyrite and minor chalcopyrite up to about 30 centimetres thick. The vein on the Hector as exposed in an old trench and shaft consist of 60 to 90 centimetres of rusty quartz containing lenses of galena, sphalerite, pyrite and chalcopyrite.

There is recorded production for the Hector & Danira for 1942 and 1949 when 16 tonnes was mined. From this, 4,665 grams of silver, 5,761 kilograms of lead and 1,027 kilograms were recovered.

The Hector claim, located in 1904, has been developed by a 366 metre adit with 30.5 metres of drifting on a shear at 174 metres from the portal. A raise was driven to the surface from the drift.

On the Danira claim, which was located in 1891, a 7.6 metre shaft was sunk on the vein. A crosscut adit, collared 55 metres south, was driven westward to intersect the vein 23 metres from the portal. A drift was driven to the north for 53 metres and from the end of this drift a raise was driven to connect with the bottom of the old shaft. Halfway along the drift a second raise was driven on the vein to the surface. In 1951 about 366 metres of diamond drilling in 8 holes was done by the Ainsworth Syndicate on the Danira claim.

Yale Lead & Zinc Mines Ltd. acquired the Hector, Danira and Keystone Fraction claims in 1954. Some of the above mentioned development was done by this company in 1954-55. Most of the work was disappointing.

Bibliography EMPR PF (MAPS)

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EMPR INDEX 3-193,199 EMPR BULL \*53, p. 44,48,79

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UBC MSC THESIS, ORR 1971 EMPR ASS RPT 8240, 8992

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