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VANCOUVER, B.C.

BC Geological Survey  
Assessment Report  
30317

**2008 Aspen Prospecting Report**

Claims with tenure numbers, all in the Nelson Mining Division

ASP	548464
ASPEN 2	548465
ASP	548466
ASPEN 3	548467
ASP	548440

MAP NUMBERS 082F014, 082F015, 082F024, 082F025

LATITUDE 49 11 08 N LONGITUDE 117 11 19 W

MINFILE NUMBERS 082FSW001, 082FSW305

OWNERS Fred Critchlow/Jack Denny

OPERATORS Fred Critchlow/Jack Denny

AUTHOR Jack Denny

SUBMITTED *November 17, 2008*  
GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

30,317

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## **SUMMARY**

The limited work conducted on the Aspen Property in 2008 was concentrated mostly on rediscovering and sampling the Aspen Showing, Minfile Number 082FSW305. The purpose was to assess the value of follow-up work on this showing which has limited information available.

## **LOCATION AND ACCESS**

The Aspen property is centered at latitude 49°11 08 N and longitude 117°11 15 W. The property is located 6.5 km East-South-East of Salmo and 4.8 km north of the junction of Aspen and Sheep Creeks.

Access to the property can be gained via a four-wheel drive road up Aspen Creek from the Sheep Creek road off Highway 3/6.

About halfway up the road has deteriorated to an ATV trail which required some maintenance.

## **TOPOGRAPHY**

The Aspen claims are principally located on either side of Aspen Creek. Elevations range from 4500 feet (1372 meters) to 5000 feet (1524 meters). Slopes are moderate.

## **PROPERTY AND OWNERSHIP**

The mineral claims which comprise the Aspen Group are held by Fred Critchlow and Jack Denny. The claims are Asp record number 548440, Asp record number 548464 and Asp record number 548466 all held by Fred Critchlow, plus Aspen 2 record number 548465 and Aspen 3 record number 548467 held by Jack Denny.

## **History**

The Aspen deposit was discovered by prospectors in 1896. From 1912 to 1928 considerable development work was done on the property by private interests, including trenching, drifting, cross-cutting and diamond drilling.

Between 1928 and 1937 work was continued by Salmo-Malartic Mines Ltd. Recorded production for three years during this period totalled 28 tonnes grading 31 grams of gold, 36,359 grams of silver, 431 kilograms of lead and 365 kilograms of zinc.

Reserves published in 1937 indicated 29,030 tonnes averaging about \$9 per tonne combined silver and gold (1937 prices) and 90,720 tonnes of low-grade zinc. In 1951 Sheep Creek Gold Mines Limited conducted 3019 feet (920 meters) of diamond drilling which outlined a considerable tonnage of marginal material.

Extotal Resources Inc. did geological mapping and carried out a further 1545 meters of diamond drilling in 1980.

In 1984 Greenwich Resources completed a program of rock, soil and silt sampling combined with a ground electromagnetic survey.





Discovery Consultants carried out a limited soil and silt-sampling programs on parts of the property in 1993 and 1999.

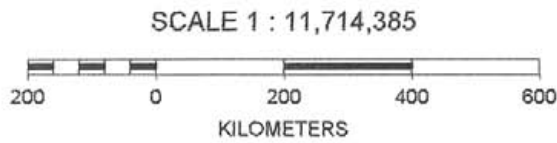
## **Geology**

The Aspen claim group is located in the Salmo Map Area GSC Map 1145A and has been mapped by Fyles and Hewlett (1959) and Little (1964). The Salmo area is underlain by a north south trending belt of the Early Paleozoic sedimentary rocks of the

# ARIS Map

## ASPEN LOCATION



-  Aspen Location
- Topographic Layers**
  -  Lakes 1:6M
  -  Rivers 1:6M
- BC Border Layers**
  -  BC Border 1:6M










# ARIS Map

## ASPEN CLAIM MAP



**Mineral Titles Layers**

-  Aspen Tenure
-  All Mineral Tenures

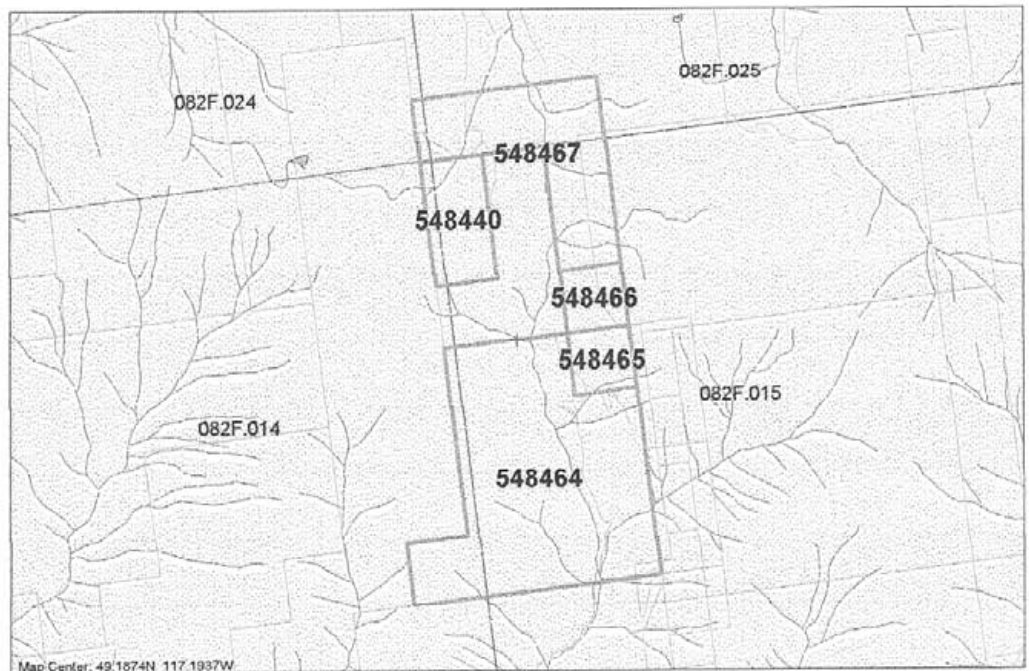
**Topographic Layers**

-  Railways 1:20K
-  Roads 1:20K
  -  Gravel Road
  -  Paved Road
  -  Rough Road
-  Lakes 1:20K
-  Rivers 1:20K

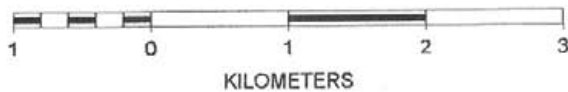
**Grid Layers**

-  Grid 1:20K - labels
-  Grid 1:20K - outline

**RC Border Layers**



SCALE 1 : 55,368



Active and Laib Formations. To the east these rocks are intruded by Cretaceous Granites of the Salmo Stock.

The property is underlain with limestones argillites and argillaceous quartzites of the Reno, Laib and Active Formations. The limestones have been re-crystallized by metamorphic and or hydrothermal activities. Argillaceous rocks are commonly silicified and quartz rich with quartz occurring as small veinlets plus larger veins and stockworks. Most of these replacements appear to be barren and void of base and precious metals although minor pyrite is almost always present. The property is characterized by numerous folding events and patterns and resultant shear zones and faults. Portions of the property are intruded by the Salmo Stock.

### **Mineralization**

The area of interest contains a zone of epigenetic Pb Zn Ag mineralization with accompanying minor gold enrichments which have been explored by shallow trenching and short, sloughed underground workings. Exposure is poor in this area but the strike length of the workings area was originally estimated by Sinden and Evans at 180 M. The mineralization which is mainly galena and sphalerite occurs in a silicified shear zone hosted mainly in argillaceous rocks probably of the Active Formation. Within the Active there are also narrow bands of limestone and dolomite which also host some mineralization. The mineralization appears to approximately parallel or follow a thrust fault mapped by Fyles and possibly is related.

Sample AP08-01 is from East of the main Aspen workings and consists of massive arsenopyrite occurring in limestone. All samples were checked with a black light for scheelite with no success.



# ASPEN GROUP LOCAL GEOLOGY

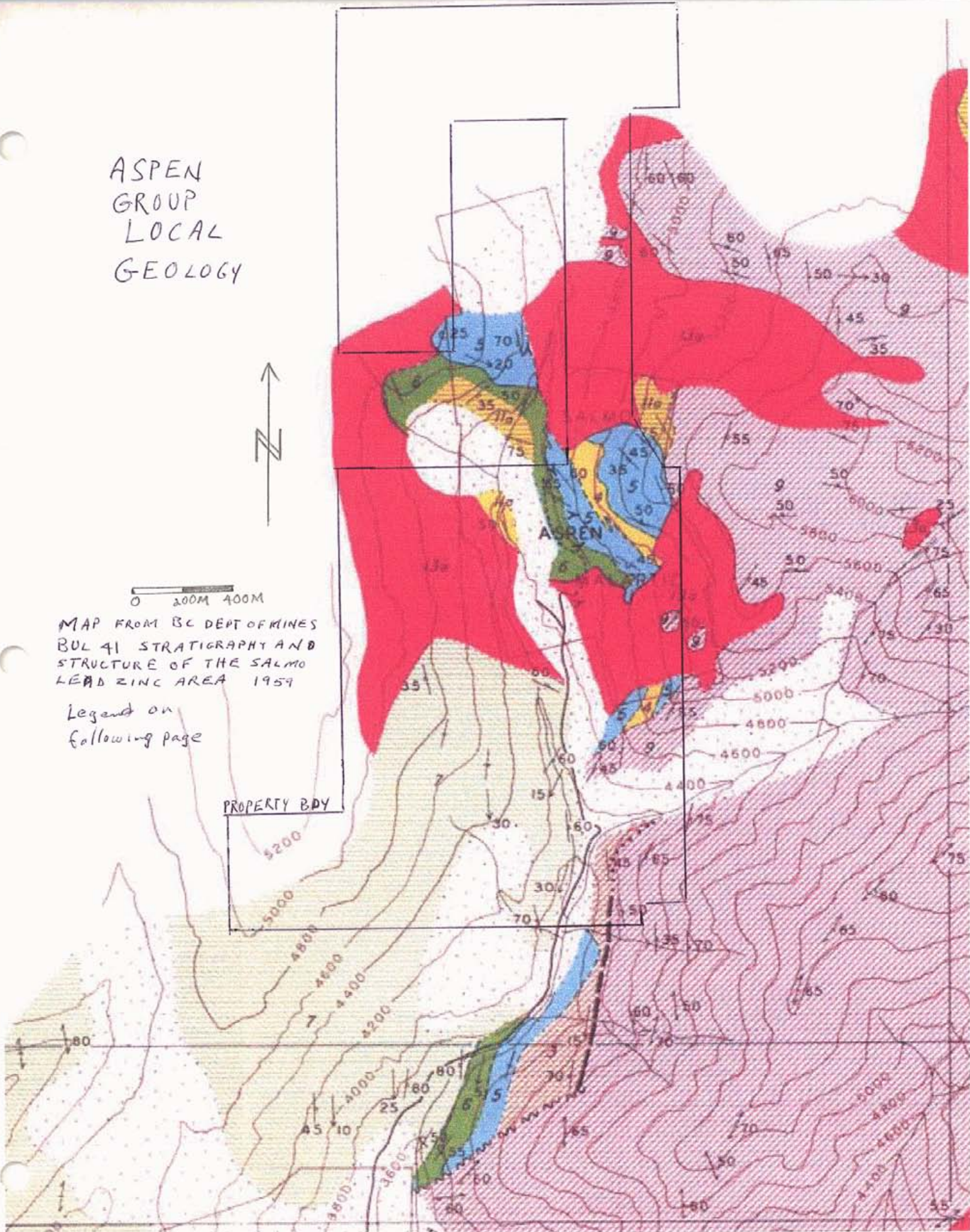


0 200M 400M

MAP FROM BC DEPT OF MINES  
BUL 41 STRATIGRAPHY AND  
STRUCTURE OF THE SALMO  
LEAD ZINC AREA 1959

Legend on  
following page

PROPERTY BDY

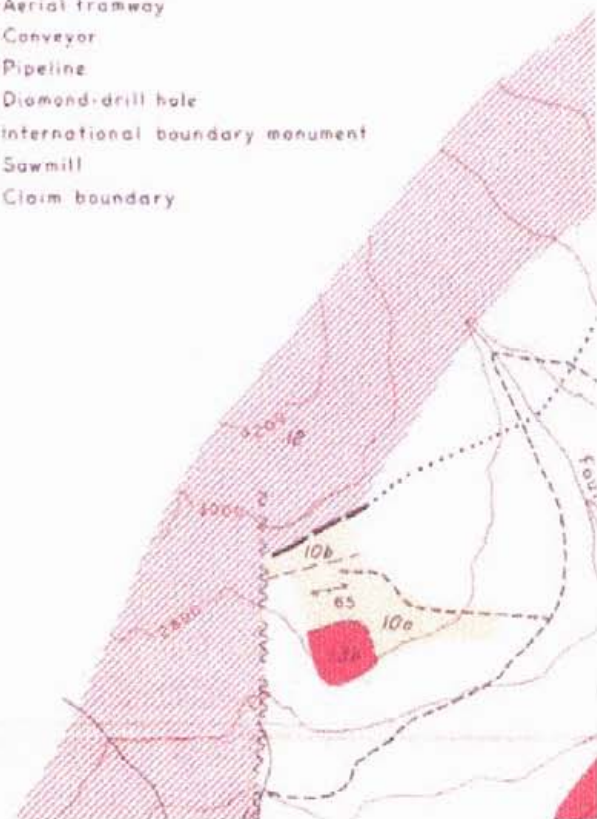




# LEGEND

- MESOZOIC**
- Area of little or no outcrop
  - 13** INTRUSIVE ROCKS: 13a-granite, 13b-leucocratic granite and syenite, 13c-augite-biotite monzonite
  - 12** VOLCANIC ROCKS: Greenstone and minor argillite
  - 11** METAMORPHIC ROCKS, CORRELATION UNCERTAIN
    - 11a-limestone and granitized argillite
    - 11b-granitized quartzite and argillite, minor limestone
    - 11c-white and grey quartzite
    - 11d-black phyllite and schist
  - 10** SEDIMENTARY ROCKS, CORRELATION UNKNOWN
    - 10a-black argillite, calcareous argillite, slate, and phyllite
    - 10b-grey limestone
    - 10c-chert, quartzite, and minor greenstone
- ORDOVICIAN**
- 9** ACTIVE FORMATION: mainly black argillite but including:
    - 9a-grey limestone and argillaceous limestone
    - 9b-dolomite, dolomite breccia, and limestone
    - 9c-silicified and silicated argillite and limestone
- CAMBRIAN**
- 8** NELWAY FORMATION: limestone and dolomite
    - 8c-upper grey limestone
    - 8b-dark and light grey dolomite
    - 8a-lower limestone and argillaceous limestone
- LAIB FORMATION**
- 7** UPPER LAIB UNDIVIDED: phyllite, schist, micaceous quartzite, and minor limestone
  - 6** EMERALD MEMBER: black phyllite and argillite
  - 5** REEVES MEMBER: grey limestone, minor dolomite
  - 4** TRUMAN MEMBER: phyllite and argillite with lenses of limestone
  - 3** RENO FORMATION: grey blocky and grey micaceous quartzite
- QUARTZITE RANGE FORMATION**
- 2** NAVADA MEMBER: white quartzite and brown micaceous quartzite
  - 1** NUGGET MEMBER: white quartzite

- Geological contact
  - defined, approximate, inferred
- Bedding fault
  - defined, approximate, inferred
- Transverse fault
  - approximate, inferred
- Attitude of bedding and banding
  - inclined right side up, overturned
  - inclined stratigraphic top not known, vertical
- Attitude of cleavage and schistosity
  - inclined, vertical
- Direction and plunge of dragfolds
- Adit portal      X Prospect
- Fossil locality
- Main road
- Side road
- Trail
- Building
- Aerial tramway
- Conveyor
- Pipeline
- Diamond-drill hole
- International boundary monument
- SM Sawmill
- Claim boundary



To accompany B. C. Department of Mines Bulletin 41. "Stratigraphy and Structure of the Salmo Lead-Zinc Area." 1959

## **Current Program and Results**

A total of six rock samples were collected from the Aspen Property during the brief 2008 program. Sample descriptions and locations are in Appendix 1 with the assay certificates with the results in Appendix 2. Assaying gave results as high as 249 gm/mt Ag with 11.96% Pb and 1.1 gm/mt Au from AP08-05 which was a grab sample from the Aspen Showing.

## **Assay Procedures**

Assays were performed by Acme Labs of Vancouver with all samples being analyzed by their Assay2 package. This package includes Group 7AR, which is Hot Aqua Regia digestion on a 1 g split for base-metal sulphide and precious metal ores followed by ICP Emission Spectrometry for 23 elements. Also included for each sample was a Fire Assay for Au and Ag on a 30 g split. Samples were first crushed split and pulverized then screened to 200 mesh.

## **Conclusions and Recommendations**

The program was successful in relocating the Aspen Showing workings. The trenches were brushed out but still require digging to better expose the bedrock. This section of the property requires careful geology to determine if the showings are in the Truman Member of the Reno Formation or the Active Formation plus an accurate location may be found for the thrust fault on Fyles Map. The assay results were encouraging, particularly the precious metal values. The road was brushed out well enough to give good ATV access. Further improvements are required to allow truck access which would be necessary for a larger program but the actual road bed is still in good shape.

## Bibliography

EMPR Annual Reports 1896-73; 1912-155, 1913-131, 1914-329, 1915-162, 1917-170, 195, 1918-173,198; 1920-133; 1926-278; 1927-308, 1928-348; 1933- 232; 1934-A29,E22; 1935-A31,G50; 1936-E42; 1937-E53; 1951-139; 1959-62

EMPR Assessment Reports 9053, 12985, 17796, 19030, 23717, 26135

EMPR Bulletin 41 Stratigraphy and Structure of the Salmo Lead-Zinc Area, James T. Fyles and C. G. Hewlett

GSC map 1145A by H.W. Little

<http://www.em.gov.bc.ca/mining/Geolsurv/MapPlace/>

Minfile Numbers 082FSW001, 082FSW305

## Statement of Costs

### Personnel

Jack Denny, Aug 12, 14, 15 @ \$275/Day	825.00
Fred Critchlow, Aug 14 @ \$275/Day	275.00
3 Days 4X4 Truck @ \$50/Day	150.00
3 Days ATV @ \$50/Day	150.00
Assaying	264.18
Shipping	21.78
Report Writing	<u>300.00</u>
TOTAL	\$1985.96

## Statement of Qualifications

I, Jack Denny of Box 325, Salmo, B.C., V0G 1Z0 certify that:

1. I am a professional prospector and I have worked in mining exploration continuously since 1971 with short stints in the mining industry, mostly in British Columbia.

2. Education 1971-72 Geology program Selkirk College  
1970 + 76 + 87 Chamber of Mines of Eastern BC Prospecting Course  
1974 Open Pit Mining, BC Mining School, Rossland BC  
1988 BC Dept of Mines Advanced Prospecting Course  
Numerous short courses in various aspects of Mining Exploration

3. Experience I am a self employed Prospector and have been since 1975 and I also work as a contract mining explorationist in all aspects of the Exploration Industry for a wide variety of companies.

Jack Denny

A handwritten signature in black ink that reads "Jack Denny". The signature is written in a cursive style with a large, looping initial "J".

## APPENDIX 1

### Rock Sample Descriptions

Locations are all NAD83 Zone 11 and were taken with a Garmin GPSmap76CSx

#### **AP08-01**

Old trench @ 0486388E 5448215N

Chip sample across 45 cm of massive arsenopyrite which locally conforms with the bedding. Strike 280 deg Az - dip 75 deg North

#### **AP08-02**

Grab sample of rusty weathering silicified dolomitic argillite with minor pyrite at the West end of an old cat trail. Poor GPS coverage, location can be found on the Prospecting Map.

#### **AP08-03**

0486477E 5446736N at the West end of 10M trench cutting the geology of narrow bands of dolomite up to 1 Meter wide in argillite striking 360 deg Az dipping 70 deg East  
Grab sample of representative rock types in the trench.

#### **AP08-04**

0486473E 5446675N Old trench sloughed with only 1.5 Meters of exposed rock. Grab sample of galena and sphalerite with minor chalcopyrite and pyrrhotite occurring in greyish silicified argillite. Almost no quartz. strike 360 deg Az dip averages 70 deg East

#### **AP08-05**

0486456E 5446658N Caved portal crosscutting the formation. Grab sample is from an ore pile on the dump. Mostly galena with minor sphalerite occurring in greyish silicified argillite with some



mineralization occurring in cross fractures. Based upon the size of the dump, the underground workings should amount to about 20 Meters.

**AP08-06**

0486449E 5446636N Trench just North of another crosscut portal (located at 486448E 5446630N) which is caved. Grab sample has galena and sphalerite.

**Appendix 2**  
**Assay Certificates**



# AcmeLabs

ACME ANALYTICAL LABORATORIES LTD.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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

www.acmelab.com

Client:

Denny, Jack

Box 325

Salmo BC V0G 1Z0 Canada

Project:

ASPEN

Report Date:

September 22, 2008

Page:

2 of 2

Part 1

## CERTIFICATE OF ANALYSIS

VAN08008357.1

Method	Analyte	WGHT	G6	G6	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	7AR	
		Wgt	Au	Ag	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	
		kg	gm/mt	gm/mt	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	%	%
		MDL	0.01	0.01	5	0.001	0.001	0.01	0.01	2	0.001	0.001	0.01	0.01	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.001
AP08-01	Rock	0.51	0.03	6	<0.001	0.005	0.01	0.08	<2	0.004	<0.001	0.01	29.10	34.51	0.002	<0.001	0.045	0.03	3.43	0.016	<0.001	
AP08-02	Rock	0.87	0.14	<5	<0.001	0.002	<0.01	<0.01	<2	<0.001	<0.001	0.02	4.00	0.02	0.001	<0.001	<0.001	<0.01	0.21	0.096	0.002	
AP08-03	Rock	1.27	0.11	20	<0.001	0.015	1.01	0.48	20	<0.001	<0.001	0.03	1.46	<0.01	0.014	0.003	0.003	<0.01	7.72	0.304	0.002	
AP08-04	Rock	1.89	0.20	33	<0.001	0.062	2.03	2.58	39	0.001	<0.001	0.03	2.55	0.21	0.003	0.016	0.012	<0.01	1.10	0.388	0.002	
AP08-05	Rock	1.80	1.10	249	0.002	0.047	>4	0.55	271	<0.001	<0.001	0.01	1.02	<0.01	0.004	0.005	0.051	<0.01	1.17	0.460	0.002	
AP08-06	Rock	1.00	1.29	127	<0.001	0.070	>4	1.56	140	<0.001	<0.001	<0.01	1.59	0.02	0.002	0.010	0.050	<0.01	0.87	0.472	0.002	

**CERTIFICATE OF ANALYSIS**

**VAN08008357.1**

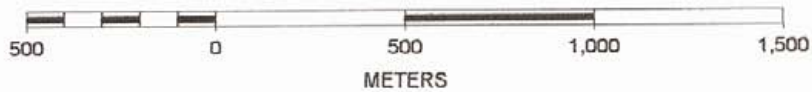
Method		7AR	7AR	7AR	7AR	7AR	7AR	7AR.1
Analyte		Mg	Al	Na	K	W	Hg	Pb
Unit		%	%	%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.001	0.001	0.01
AP08-01	Rock	0.03	0.03	<0.01	<0.01	<0.001	<0.001	N.A.
AP08-02	Rock	0.50	0.97	0.01	0.31	<0.001	<0.001	
AP08-03	Rock	2.49	0.55	0.04	0.17	<0.001	<0.001	
AP08-04	Rock	0.20	0.49	<0.01	0.13	0.003	<0.001	
AP08-05	Rock	0.11	0.40	<0.01	0.10	<0.001	<0.001	11.96
AP08-06	Rock	0.04	0.30	0.01	0.16	0.001	<0.001	5.98



# Aspen Group



SCALE 1 : 20,000



⊗ sample location  
Ag 3/t | Pb %  
Au 3/t | Zn % sample values

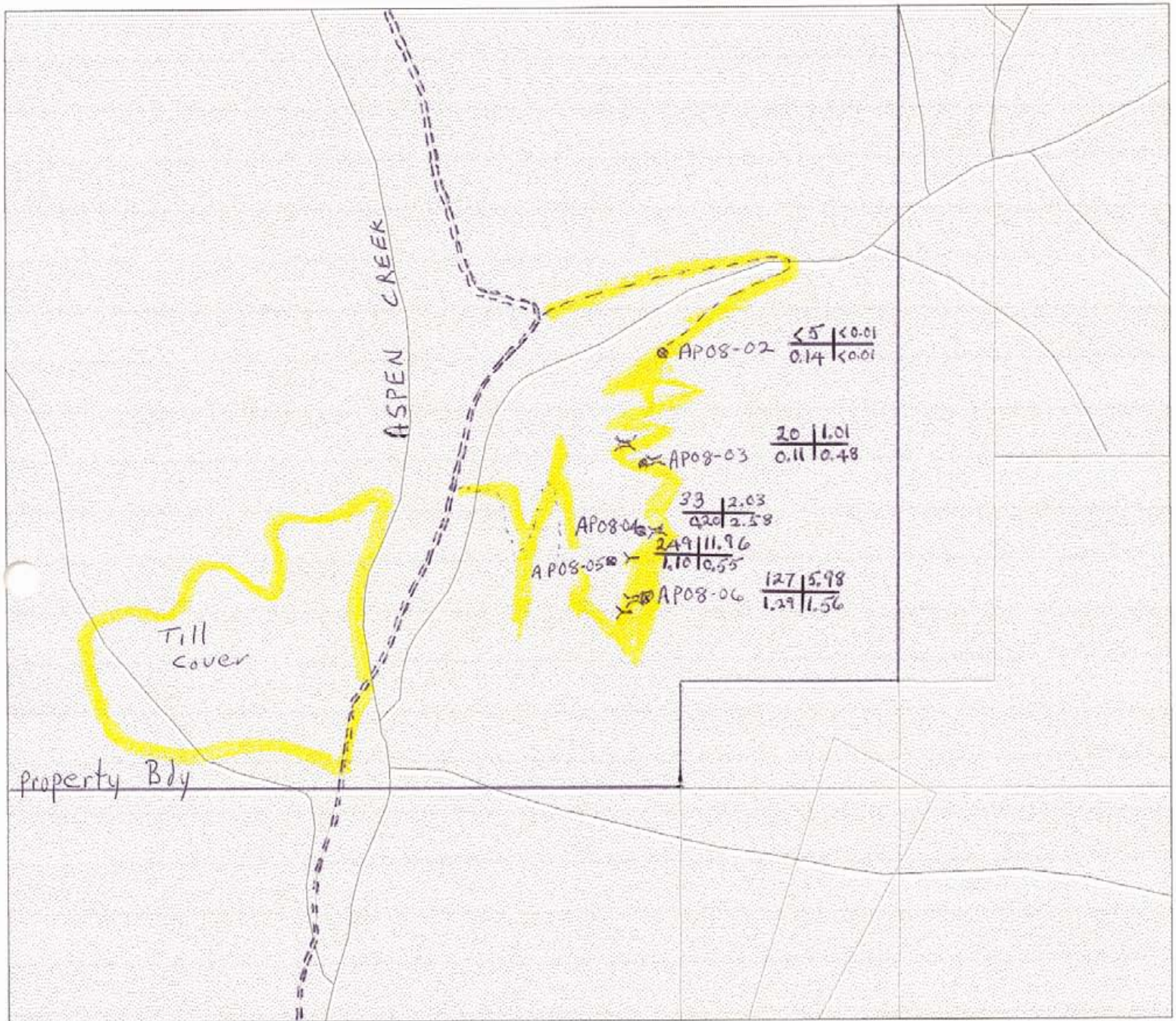
○ Traverse



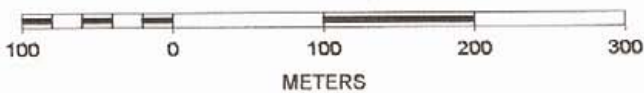


# Prospecting Map

ASPEN GROUP



SCALE 1 : 5,000



- == road
- .- cat trail
- ..... trail
- X portal
- W trench
- ⊙ sample location



Ag % | Pb % | Sample Values  
Au % | Zn %

Traverse