

Location/Identification

MINFILE Number:	1031 239		
Name(s):	<u>HARDSCRABBLE</u> EK8-1, EK8-1A, SITE 64, CARLSON		
Status:	Showing	Mining Division:	Omineca
Regions:	British Columbia	Electoral District:	Skeena
BCGS Map:	1031079	Resource District:	Kalum Forest District
NTS Map:	103109W	UTM Zone:	09 (NAD 83)
Latitude:	54 42 33 N	Northing:	6062600
Longitude:	128 22 18 W	Easting:	540488
Elevation:	234 metres		
Location Accuracy:	Within 100M		
Comments:	Burrow pit on north side of logging road on north side of Hardscrabble Creek, sample EK8-1a (Fieldwork 2005)		

Mineral Occurrence

Commodities:	Silver, Lead, Zinc, Gold, Molybdenum, Copper, Cadmium, Bismuth, Tungsten		
Minerals	Significant:	Pyrite, Galena, Sphalerite, Chalcopyrite, Scheelite	
	Significant Comments:	Dispersed fine-grained sulphides and sulphosalts in quartz veins.	
	Associated:	Quartz	
	Mineralization Age:	Eocene	
Isotopic Age:	53 Ma	Dating Method:	Uranium/Lead
		Material Dated:	granite
Deposit	Character:	Vein	
	Classification:	Epigenetic, Hydrothermal	
	Type:	105: Polymetallic veins Ag-Pb-Zn+/-Au	
	Shape:	Tabular	
	Dimension:	50x50x3 metres	Strike/Dip: 095/90
	Comments:	Zone of quartz veining, silicification and aplite intrusion within sheared granite.	

Host Rock

Dominant Host Rock:	Plutonic		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Eocene	Undefined Group	Undefined Formation	-----
Isotopic Age	Dating Method	Material Dated	
53	Uranium/Lead	53	
Lithology:	Granite		
Comments:	Carpenter Creek pluton		

Geological Setting

Tectonic Belt:	Intermontane	Physiographic Area:	Hazelton Ranges
Terrane:	Stikine		

Inventory

Ore Zone:	SAMPLE	Year:	2010
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Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Rock

Commodity	Grade
Silver	100 grams per tonne
Gold	0.111 grams per tonne
Bismuth	0.053 per cent
Cadmium	0.023 per cent
Copper	0.476 per cent
Molybdenum	0.024 per cent
Lead	0.679 per cent
Tungsten	0.01 per cent
Zinc	0.652 per cent

Comments: four samples (2917, 2918, 2919, 2948)

Reference: Assessment Report 32186

Ore Zone: VEIN

Year: 2005

Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Grab

Commodity	Grade
Silver	253 grams per tonne
Lead	.41 per cent
Zinc	0.31373 per cent

Comments:

Reference: Fieldwork 2005, pages 117-134

Capsule Geology

The Hardscrabble showing is located on the north side of the Hardscrabble Creek logging road, approximately 1 kilometre west of the Grotto vein (MINFILE 1031 045) in the canyon of Hardscrabble Creek.

The area is underlain by a sequence of volcanic and sedimentary rocks that have been mapped as Early Jurassic Hazelton Group or more recently as Early Jurassic Kitselas volcanics. The Kitselas volcanics are predominantly of felsic composition. These have been intruded by granites, granodiorites and diorites of the Eocene Carpenter Creek pluton.

Locally, a zone of quartz-scheelite veining outcrops with small, visible sulphide grains (sphalerite and galena) occurring in a silicified zone associated with aplite dikes. The dike and vein system strikes roughly east, sub-parallel to the road; it shortly disappears under cover in both directions.

In 2005, two samples were assayed. Sample EK08-1 is described as a 20 centimetre quartz vein in silicified aplite with pyrite, chalcocopyrite, chalcocite, bornite and galena and assayed 30.234 grams per tonne gold, 0.104 per cent lead and 0.037 per cent zinc. Sample EK08-1a assayed 253 grams per tonne gold, 0.41 per cent lead and 0.314 per cent zinc (Fieldwork 2005, page 131, Table 2.).

In 2010, four rock samples (2917, 2918, 2919 and 2948) from the zone yielded up to 0.111 gram per tonne gold, 0.024 per cent molybdenum, 0.476 per cent copper, 0.679 per cent lead, 0.652 per cent zinc, 0.023 per cent cadmium, 0.053 per cent bismuth, greater than 0.01 per cent tungsten and greater than 100 grams per tonne silver (Assessment Report 32186).

In 2002, the Carlson group of mineral claims was staked by G.W. Kurz. During 2003 through 2014, various programs of bedrock prospecting, rock chip sampling, geological mapping, a ground self-potential geophysical survey and geochemical soil and silt sampling were completed.

Bibliography

EMPR ASS RPT 27233, 27499, 27817, 28109, 30257, *32186, 32967, 33429, 34602
EMPR FIELDWORK 2005, p. 117-134
EMPR OF 2006-3

Date Coded: 2008/03/27

Coded By: JoAnne L. Nelson (JN)

Field Check: Y

Date Revised: 2015/05/21

Revised By: Karl A. Flower (KAF)

Field Check: N