

Location/Identification

MINFILE Number:	082N 016	National Mineral Inventory Number:	082N4 Pb4
Name(s):	<u>ALLCO</u> IRON CAP, LIMESTONE DIKE, ALLCO SILVER, LIMESTONE DIKE NO. 3 (L.14858)		
Status:	Past Producer	Mining Division:	Revelstoke
Mining Method	Underground	Electoral District:	Columbia River-Revelstoke
Regions:	British Columbia	Resource District:	Columbia Forest District
BCGS Map:	082N021		
NTS Map:	082N04W	UTM Zone:	11 (NAD 83)
Latitude:	51 13 27 N	Northings:	5675214
Longitude:	117 59 04 W	Easting:	431256
Elevation:	1889 metres		
Location Accuracy:	Within 500M		
Comments:	No. 2 adit on Lot 14858 (Limestone Dike No. 3), located at the headwaters of Woolsey (Silver) Creek, 13.5 kilometres northwest of Albert Canyon Station of the Canadian Pacific Railway, 34 kilometres north-northeast of Revelstoke (Assessment Report 16907).		

Mineral Occurrence

Commodities:	Lead, Silver, Zinc, Gold, Copper, Tin		
Minerals	Significant:	Galena, Sphalerite, Chalcopyrite, Tetrahedrite, Stannite	
	Associated:	Quartz, Carbonate, Pyrite, Arsenopyrite	
	Mineralization Age:	Unknown	
Deposit	Character:	Vein, Stockwork, Stratiform, Massive	
	Classification:	Replacement, Epigenetic, Sedimentary	
	Type:	105: Polymetallic veins Ag-Pb-Zn+/-Au, J01: Polymetallic manto Ag-Pb-Zn	

Host Rock

Dominant Host Rock:	Sedimentary		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Lower Cambrian	Undefined Group	Badshot	-----
Paleozoic	Lardeau	Undefined Formation	-----
Isotopic Age	Dating Method	Material Dated	
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Lithology:	Limestone, Siliceous Limestone, Ortho Quartzite, Argillite, Argillaceous Limestone, Silty Limestone, Limestone Conglomerate, Graphitic Argillite, Phyllite		

Geological Setting

Tectonic Belt:	Omineca	Physiographic Area:	Selkirk Mountains
Terrane:	Kootenay		

Inventory

Ore Zone:	SAMPLE	Year:	1986
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Category: Assay/analysis

Report On: N

NI 43-101: N

Sample Type: Chip

Commodity	Grade
Silver	1216.0000 grams per tonne
Lead	15.0000 per cent
Zinc	4.8000 per cent

Comments: Average assays of high-grade samples.

Reference: Assessment Report 15559.

Summary Production

		Metric	Imperial
	Mined:	193 tonnes	212 tons
	Milled:	193 tonnes	212 tons
Recovery	Silver	351,028 grams	11,286 ounces
	Gold	343 grams	11 ounces
	Lead	65,695 kilograms	144,833 pounds
	Zinc	13,209 kilograms	29,121 pounds

Capsule Geology

The Allco property is located at the headwaters of Woolsey (Silver) Creek, 13.5 kilometres northwest of Albert Canyon Station of the Canadian Pacific Railway, 34 kilometres north-northeast of Revelstoke. The Allco property was formerly known as the Iron Cap, Limestone Dyke, and Allco Silver.

Major exploration and development work was carried out between 1934 and 1937 by Allco Silver Mines Limited during which some ore shipments were made. The development work included 282 metres of drifts and crosscuts in 4 adits, a 20-metre shaft and a 15-metre winze. No further significant exploration work was recorded on the property until 1986 by which time Gunsteel Resources Incorporated had acquired the property. In 2008-2010, Rich River Exploration Ltd. performed a series of geochemical and geological surveys of showing as apart of their Allco-Redtop-Slide Project.

The occurrence area is underlain by strata of the Lower Cambrian Badshot Formation and Lower Cambrian and younger Lardeau Group. Five stratigraphic units have been identified and consist of: 1) massive grey limestone; 2) a 9-metre marker unit consisting of buff, siliceous limestone at the base grading upward into black orthoquartzite; 3) dark grey, thinly bedded argillite and argillaceous limestone (this unit is about 30 metres thick); 4) distinct buff, silty limestone and limestone conglomerate (maximum thickness of 60 metres); and 5) black, slaty, graphitic argillite and phyllite of considerable unknown thickness.

Units 1 through 4 are equated with the Badshot Formation and unit 5 with the Lardeau Group. The four units of the Badshot Formation have an average strike of 282 degrees and 44 degrees north dip in the central part of the area, changing to 314 degrees strike and 60 degrees north dip in the northwest part. A major northwest trending fault separates the underlying Badshot Formation from the Lardeau Group.

Locally, at least 13 showings of galena, sphalerite, chalcopyrite, tetrahedrite and pyrite occur within limestone in an area of approximately 2000 by 150 metres, trending northwest. Four distinct modes of mineralization have been found either in the buff limestone unit or along the contact between the buff and grey units and comprise: 1) stratiform, banded massive galena-sphalerite- chalcopyrite lenses found along the contact of buff and grey limestone units (adit 4); 2) replacement, massive galena-sphalerite or sphalerite-pyrite-arsenopyrite veins and pods in joints and joint intersections (in and around adits 1, 2 and 3); 3) stockwork, massive galena-sphalerite accompanying quartz-carbonate veins in brecciated limestone (in trenches 100 metres west of adit 3); and 4) locally occurring galena, sphalerite and pyrite in a 1-2 metre wide quartz vein found intermittently along a major fault.

Small percentages of tin associated with galena were reported from underground workings and is probably due to the presence of stannite.

Average assays of high grade chip samples were 15 per cent lead, 4.8 per cent zinc and 1216 grams per tonne silver (Assessment Report 15559).

In 2010, a grab sample of dump material returned 1.88 grams per tonne gold, 2809 grams per tonne silver, 42 per cent lead and 4.88 per cent zinc (Assessment Report 32051).

Bibliography

EMPR AR 1919-N141; 1927-C290; 1930-A260; 1931-A149-A151; 1933-A212; *1935-E19-E21; 1937-A40,E56
EMPR ASS RPT 12041, 13288, 14403, *15559, *16907, 30804, 32051
EMPR BC METAL MM00589
EMPR PF (82N General File - Canadian Superior Exploration geochemistry maps, 82N/4E,4W, 1976)
EMR MP CORPFILE (Allco Silver Mines, Limited)
GSC MAP 4-1961; 43-1962
GSC OF 481
GSC P 62-32
GSC SUM RPT 1928 Part A, p. 165
CANMET IR 771, p. 222 (1935)
EMPR PFD 752295, 752296, 752297, 752298, 752299, 822926, 600370, 860903, 860906, 860907, 860908, 860909, 674527

Date Coded:	1985/07/24	Coded By:	BC Geological Survey (BCGS)	Field Check:	N
Date Revised:	2012/03/27	Revised By:	Karl A. Flower (KAF)	Field Check:	N