



### Location/Identification

**MINFILE Number:** 082N 021 **National Mineral Inventory Number:** 082N1 Zn1

**Name(s):** HAWK CREEK  
ALBION

**Status:** Developed Prospect **Mining Division:** Golden

**Regions:** British Columbia **Electoral District:** Columbia River-Revelstoke

**BCGS Map:** 082N020 **Resource District:** Columbia Forest District

**NTS Map:** 082N01E **UTM Zone:** 11 (NAD 83)

**Latitude:** 51 06 12 N **Northing:** 5661756

**Longitude:** 116 02 16 W **Easting:** 567368

**Elevation:** 1706 metres

**Location Accuracy:** Within 500M

**Comments:** The showings are on the west side of Hawk Creek in Kootenay National Park, on the southern slopes of Isabelle Peak, about 2.5 kilometres east of Highway 93 and 46 kilometres south-southeast of Field (Minister of Mines Annual Report 1953, page A155).

### Mineral Occurrence

**Commodities:** Zinc, Lead, Silver, Gold

**Minerals**

<b>Significant:</b>	Sphalerite, Galena
<b>Associated:</b>	Calcite, Pyrite
<b>Mineralization Age:</b>	Unknown

**Deposit**

<b>Character:</b>	Podiform, Disseminated, Vein, Shear
<b>Classification:</b>	Replacement, Hydrothermal, Epigenetic
<b>Type:</b>	E12: Mississippi Valley-type Pb-Zn
<b>Shape:</b>	Cylindrical
<b>Dimension:</b>	75x15x0 metres
<b>Comments:</b>	A mineralized irregular-shaped cylindrical zone.

### Host Rock

**Dominant Host Rock:** Sedimentary

<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Cambrian-Ordovician	Goodsir	Undefined Formation	-----

<b>Isotopic Age</b>	<b>Dating Method</b>	<b>Material Dated</b>
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**Lithology:** Argillaceous Limestone, Argillite

### Geological Setting

**Tectonic Belt:** Foreland **Physiographic Area:** Continental Ranges

**Terrane:** Ancestral North America

### Inventory

**Ore Zone:** TOTAL **Year:** 1942

**Category:** Indicated **Report On:** Y

Quantity: 26,759 tonnes

NI 43-101: N

Commodity	Grade
Zinc	12.5000 per cent

Comments: One interpretation of drill results.

Reference: Minister of Mines Annual Report 1953, page A156.

### ***Capsule Geology***

The Hawk Creek deposit is in Kootenay National Park on the west side of Hawk Creek, about 2.5 kilometres east of Highway 93 and approximately 46 kilometres south-southeast of Field. Access is via a road that leaves Highway 93 about 50 metres north of the Hawk Creek road bridge. The showings are on a gently sloping timbered hillside that forms the southern flank of Isabelle Peak.

The area in the vicinity of the showings are underlain by strongly cleaved, gently dipping or horizontal thin-bedded argillaceous limestones and argillites of the Cambrian to Ordovician Goodsir Group. A prominent, steep (dips 45 to 70 degrees southwest), northwest-striking shear zone appears to control the distribution of the vein and replacement mineralization. The shear zone and associated mineralization cuts sharply across bedding in the sedimentary rocks.

Mineralization comprises an irregular-shaped cylindrical zone roughly 15 metres in width and 75 metres in length. Amber-coloured sphalerite, the dominant sulphide, forms massive fine-grained pods, disseminations and stringers. Galena, which is less abundant, occurs as fine-grained disseminations and stringers associated with both sphalerite, calcite and minor pyrite.

In 1930, a 1.8-metre channel sample in the upper openpit assayed 30.6 per cent zinc, 4.3 per cent lead, 54.8 grams per tonne silver and 1.7 grams per tonne gold (Minister of Mines Annual Report 1930, page A239).

The showings were discovered in November 1929 by Fred W. Jowett while constructing a trail under the employ of the Federal Government. The Albion claims were staked and recorded at Windermere where the mining recorder was not aware that the showings were in Kootenay National Park and, by terms of the act, not open to staking. Some trenching was done by an eastern Canadian mining company late in 1930, before snowfall. In 1932 the National Parks Board refused the stakers permission to do further assessment work. In the spring of 1942, due to the wartime shortage of zinc, Base Metals Mining Corporation Limited, which was operating the Monarch mine (082N 019) near Field, made representations to the Federal Metals Controller with regard to the occurrence; the company was retained by the Federal Government to carry out exploration work to determine the extent of the orebody. Work by the company during 1942 included trenching, driving a short adit and diamond drilling in 17 holes totalling about 503 metres. No further work was done. One interpretation of the 1942 drill results indicates a total of 26,759 tonnes averaging 12.5 per cent zinc (Minister of Mines Annual Report 1953, page A156).

### ***Bibliography***

EMPR AR \*1930-A237-A239; \*1953-A155,A156

EMPR FIELDWORK \*1980, p. 108

EMPR PF (Starr, C.C. (1930): Report of Examination of the Albion Group, 3 p.; Sketch of Albion Group, (1"=20'), 1930; Christie, K.J. (1951): Investigation of the Mineral Claims on Hawk Creek in Kootenay Park and Mining Operations at Base Metals Mining Corporation in Yoho Park; \*Rice, H.M.A. (1942): Final Report on the Hawk Creek Showings; \*Brown, W.L. (1942): Report on the Hawk Creek Property; Richmond, A.M. (1942): Report on the Albion Group; \*Galloway, J.D. (1942): Report on Hawk Creek Mineral Deposit; Field notes, letter; Numerous plans, sketch maps and sections of drillholes and trenches (1942, 1951))

EMR MIN BULL MR 223, B.C. 82

EMR MP CORPFILE (Base Metals Mining Corp. Ltd.)

GSC MAP 1476A

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Date Coded: 1985/07/24

Coded By: BC Geological Survey (BCGS)

Field Check: N

Date Revised: 1993/06/17

Revised By: George Owsiacki (GO)

Field Check: N