

PRODUCT LEAD  
PRODUIT

PROVINCE OR PROVINCE OU  
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 82 F/10  
RÉGION DU S.N.R.C.

REF. PB 3  
RÉF.

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

BLACK DIAMOND & LITTLE PHIL CLAIMS

OBJECT LOCATED  
OBJET LOCALISÉ

UNCERTAINTY  
FACTEUR D'INCERTITUDE

Lat. 49°43'  
Lat.

Long. 116°56'30"  
Long.

Mining Division Slocan  
Division minière

District  
District

Kootenay

County  
Comté

Township or Parish  
Canton ou paroisse

Lot  
Lot

Concession or Range  
Concession ou rang

Sec  
Sect.

Tp.  
Ct.

R.  
R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

Yale Lead & Zinc Mines Ltd.,  
525 Seymour St.,  
Vancouver, B.C.

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The country rocks are greywackes, schists, limestones and thin bedded quartzites of the Lardeau series and Milford group. A number of lamprophyre sills and dykes occur in this general area. Intrusives of the Nelson batholith are exposed a few miles to the west. The ore occurs in bedded veins and in cross-faults. Minor amounts of disseminated galena and sphalerite are found in limestone and in some quartz veins. Gouge and breccia in the main shear varies in thickness from 2 to 20 ft. Galena and sphalerite are found to occur most frequently in and beside the larger veins of yellow carbonate.

HISTORY OF EXPLORATION AND DEVELOPMENT  
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

These claims are located about a mile west of Ainsworth and may be reached by about 4 miles of road that winds up the mountain side. They adjoin the Highlander and Albion claims on the west.

In 1892 the Black Diamond and Little Donald claims were owned by J.F. Stevens of St. Paul, Minnesota. A joint 400' crosscut tunnel was driven on the dividing line between the Black Diamond and Little Phil claims. Two veins were reached. The first one was driven on for 200', the second for 45 ft.

The Highlander Mining and Milling Co. took over the Black Diamond and Little Donald claims in 1899. The Highlander tunnel, driven from the Eagle claim at the foot of a high bluff, cut the two Black Diamond veins, the first at 2,520 ft., the second at 2,610 ft. The dip of the veins at this horizon is about 26°. The Highlander mine closed in 1911 and the property lay idle until 1949.

Yale Lead and Zinc Mines Ltd. obtained the property in 1949. Leasers shipped the old dump and did about 100 ft. of drifting during 1949 and 1950. The company mined the Black Diamond in 1951 and early 1952 and the Little Phil for the balance of 1952.

Associated minerals or products - Silver, zinc.  
Minéraux ou produits associés

Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa  
Secteur de la politique minérale, ministère de l'Énergie, des Mines et des Ressources, Ottawa  
507250 \*

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

The first production from the Black Diamond was in 1895 when 250 tons of ore, averaging 33 ounces of silver per ton and 66 to 70 per cent lead, was shipped. From 1949 to 1953, 429 tons of ore was shipped from this claim. From this 5,944 ounces silver, 67,624 pounds of lead, 23,703 pounds of zinc and 58 pounds of cadmium was recovered.

Production from the Little Phil for the period 1895-1920 amounted to 599 tons. From this ore 14,002 ounces of silver and 623,139 pounds of lead was recovered. Later production from this claim has not been recorded separately.

REFERENCES/BIBLIOGRAPHIE

Annual Reports, Dept. of Mines, B.C.: 1894, p. 736; 1895, p. 681; 1896, p. 92; 1899, p. 696; 1949, p. 179; 1950, p. 123; 1951, pp. 145-156.

Rice, H.M.A.; Notes on Geology and Mineral Deposits at Ainsworth; Preliminary Paper 44-13, Geol. Surv. of Canada.

Schofield, S.J.; Geology and Ore Deposits of Ainsworth Mining Camp, British Columbia; Mem. 117, Geol. Surv. of Canada, 1920.

Eastwood, G.E.P.; Black Diamond Townsite Area; Annual Report 1952, pp. 156-162, Dept. of Mines, B. C.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 603 A, Nelson, (Geol.), Sc. 1":4 miles - accomp. Mem. 228.

REMARKS/REMARQUES

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| Comp./Rev. By<br>Comp./rév. par |       |  |  |  |  |  |  |
| Date                            | 06-62 |  |  |  |  |  |  |

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