

PRODUCT SILVER
PRODUIT

PROVINCE OR TERRITORY PROVINCE OU TERRITOIRE

British Columbia

N.T.S. AREA 82 E/15
RÉGION DU S.N.R.C.

REF. AG 1
RÉF.

NAME OF PROPERTY WATERLOO, SILVER SPOT, A.U.
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED
OBJET LOCALISÉ

UNCERTAINTY
FACTEUR D'INCERTITUDE

Lat. 49°54' Long. 118°34'
Lat. Long.

Mining Division Vernon
Division minière

District Osoyoos
District

County
Comté

Township or Parish
Canton ou paroisse

Lot
Lot

Concession or Range
Concession ou rang

Sec. Tp. R.
Sect. Ct. R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The property lies within an elongated elliptical area of limestone, greenstone, and paragneiss of the Palaeozoic Anarchist Group; these rocks are intruded locally by small masses or plugs of granodiorite of the Nelson Intrusions. The main Waterloo vein is a strong shear zone striking easterly, dipping steeply north, and averaging about 4 feet in width. The wallrock is chiefly crystalline limestone. The shear zone is mineralized along its explored length but much of it is of uneconomic grade. Exploration work located two segments of a small high grade shoot which were apparently separated by a southeast dipping fault. The ore in the high-grade shoot included a conspicuous amount of native silver, argentite, ruby silver, stephanite and tetrahedrite associated with argentiferous galena and sphalerite. These minerals occurred in lens-like masses and stringers accompanied by a varying proportion of gangue minerals, chiefly calcite. The low-grade mineralization consists of streaks and disseminations of sphalerite and galena occurring at intervals along and across the shear zone; gangue minerals include quartz and

see Card 2

Associated minerals or products - Lead, zinc, gold, cadmium,
Minéraux ou produits associés

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

The Waterloo No. 3 claim (Lot 4815) is located 1½ miles northwest of Lightning Peak, about 40 miles east of Kelowna. The Waterloo group in 1930 consisted of 20 claims in 3 parallel, adjoining, rows extending easterly from Rendell Creek. The Silver Spot claims, towards the east end of the property, were on the projected extension of the Waterloo vein.

Little is known of the early history of the area. Apparently considerable prospecting was done during a period of 7 or 8 years before the mineral occurrences were referred to in the annual reports of the provincial government. The first claim staked in the Lightning Peak area, the Rampalo in 1897, was located about 1½ miles east of the Waterloo. By 1904 considerable exploration work had been done on the Waterloo and a small amount of high-grade ore shipped; the property was at that time owned by Grand Forks interests. No further activity was reported until 1918 when lessees G. Borg and C. Hammarstadt carried on exploration work. In 1922 the Waterloo No. 3 claim was Crown-granted to F.E. Rendell and C.M. Kingston. Intermittent exploration work to 1929 was done in open cuts and 4 short adits.

The Waterloo Consolidated Mines, Limited, incorporated August 1929, optioned the Waterloo #3, Silver Spot 1-5, A.U. and other adjacent claims. Development work was carried on in several adits. The Waterloo Gold Mines, Limited, was incorporated in March 1931 to acquire the property from the former company. Intermittent development work was carried on until 1937; the Waterloo workings at that time totalled 2,230 feet of drifts in 4 adits, over a vertical range of 750 feet; the A.U. workings consisted of a shaft sunk to 75 feet and about 1,000 feet of drifts. The company charter was surrendered in 1937.

The Paycheck Mining and Development Company, Limited, incorporated June 1948, acquired the Waterloo No. 3 Crown-grant and other nearby properties. Exploration work was done in the Waterloo lower levels and on surface above #1 adit. A 75 ton per day mill operated intermittently from December 1953 until October 1954; during this period the #4 adit was stoped to surface for the first 200 feet.

see Card 2

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

Recorded production from the Waterloo for the period 1918-1954, inclusive, totals 1,346 tons of ore. From this ore 85 ounces of gold, 52,445 ounces of silver, 39,506 pounds of lead, and 35,888 pounds of zinc were recovered. A clean up of the mill in 1967 produced 44 tons of concentrates from which 1,914 ounces of silver, 4,929 pounds of lead, 49,375 pounds of zinc, and 271 pounds of cadmium were recovered.

REFERENCES/BIBLIOGRAPHIE

Cairnes, C.E.; Lightening Peak Area, Osoyoos District, B.C.; Summary Report 1930, Part A, pp. 79-81, 99-106, Geol. Surv. of Canada.

Reports of Minister of Mines, British Columbia: 1904, p. 224; 1917, p. 199; 1918, pp. 203, 221; 1919, pp. 167, 174; 1920, p. 156; 1921, p. 187; 1922, p. 355; 1925, pp. 196, 197; 1927, p. 227; 1930, p. 224; 1931, p. 122; 1932, p. 125; 1933, p. 149; 1934, p. D3; 1936, p. D57; 1937, p. D35; 1948, p. 150; 1949, p. 138; 1950, p. 118; 1951, p. 133; 1952, p. 140; 1953, p. 109; 1954, p. 119; 1966, p. 191; 1967, p. 223; 1968, p. 224; 1969, p. 300.

Mineral Policy Sector; Corporation Files: "The Waterloo Consolidated Mines, Limited"; "The Waterloo Gold Mines, Limited".

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 6-1957, Kettle River, (Geol.), Sc. 1":4 miles.

Map 82 E/15 E, Damfino Creek, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par							
Date Date	10-70						

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DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

calcite. An east-west shear zone on the Silver Spot #3 claim is close to the projected extension of the Waterloo vein. On the Silver Spot #4 and A.U. claims trenching has exposed several northerly striking quartz veins from several inches to 2 feet or more in width. Some of the veins are associated with acid dykes. A shaft on one of the quartz veins exposed abundant pyrite, galena, sphalerite, and chalcopyrite. A sample across the vein where 10 inches wide assayed: gold, 0.12 ounce a ton; silver, 24.5 ounces a ton; lead, 13%; zinc, 4.5%.

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

No further work was reported until 1966 when Bralome Pioneer Mines Limited optioned the Waterloo and other nearby properties. A geochemical survey of 17 claims was directed towards locating extensions of the Waterloo vein; the option was subsequently dropped. The Great Horn Mining Syndicate, Inc., a private company incorporated in Delaware, acquired the Waterloo No. 3 Crown grant and the Peak 1-200 claims. Exploration work by International Mine Services Limited during 1968-69 included geological and geochemical surveys and diamond drilling.