

PRODUCT PRODUIT	GOLD	PROVINCE OR TERRITORY	PROVINCE OU TERRITOIRE	British Columbia	N.T.S. AREA RÉGION DU S.N.R.C.	82 F/2	REF. AU 1 RÉF.
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NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

BAYONNE, ECHO

OBJECT LOCATED - Ohio claim (Lot 5962).  
OBJET LOCALISÉ

UNCERTAINTY 300 m  
FACTEUR D'INCERTITUDE

Lat. 49°09'10" Long. 116°57'20"  
Lat. Long.

Mining Division Nelson District  
Division minière District

County Nelson Township or Parish  
Comté Canton ou paroisse

Lot Concession or Range  
Lot 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 the Bayonne batholith, a granite to calcic granodiorite intrusive which is probably related to the Jurassic Nelson batholith.

The granodiorite, although elsewhere hard and unaltered even on the surface outcrops, in the vicinity of the mine is so thoroughly oxidized and decomposed that many feet of it have in places been ploughed away with a bulldozer while building roads. The granodiorite in which the orebody occurs is believed to be one of the earlier granitic bodies. It may reasonably be suggested that this body may have been fractured shortly after, during, or perhaps even before, the emplacement of the Bayonne batholith.

The deposit consists of a fissure vein in granodiorite. The wall-rock is fine-grained, light-coloured, biotite-hornblende granodiorite altered to a talc-carbonate rock for a distance of 2 to 3 feet on either side of the vein. The fissure strikes north 70 to 80 degrees east and dips almost vertically. It splits, widens and narrows, and sends offshoots into either wall, but is on the whole fairly regular and consistent. In most places it is occupied by a quartz vein  
see Card 2 ....

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

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

The property is located between elevations of 6,000 to 7,000 feet on the west side of John Bull Mountain, on the Summit Creek watershed some 15 miles east-southeast of Salmo. The Echo group of claims adjoins the Bayonne group on the south.

The Bayonne showings were discovered in the fall of 1901 by G. Harrison and F. Risdon and optioned that same year to Spokane interests, who began underground development. In 1902 the claims were under option to B. White, of Nelson. In 1904 Crown-grants were issued to Harrison and Risdon for 10 claims, the Bayonne, Oxford, Maryland (Lots 5083-5085 respectively), Delaware, Columbus, Ohio (Lots 5960-5962), Kentucky (5966), New Jersey (5967), Virginia (6887) and Illinois (6888).

During 1904 the property was acquired by a syndicate of Butte Montana interests who formed Bayonne Gold Mines, Limited. Intermittent development work to 1911 included an upper drift adit on the Bayonne claim, a drift adit on the Ohio claim, and a low-level crosscut driven from the Virginia claim; the workings totalled about 1,670 feet. The Skookum claim (Lot 9360), located in 1902 and surrounded by the Bayonne and Echo groups, was Crown-granted to J. Campbell in 1913. No further activity was reported until the 1921-23 period when J.B. White & associates of Spokane held an option and carried out further underground work.

From incomplete records it appears that a new company The Bayonne Gold Mines, Limited was organized in the 1920's in the USA to acquire the property. Development work during 1929-30 was financed by J.B. Gerrard, of New York; by 1930 the workings totalled about 3,280 feet of drifts and crosscuts. In 1934 the property was under option to A.C. Frost, of Seattle.

Bayonne Consolidated Mines, Ltd., incorporated April 1935, purchased the Bayonne property for \$100,000 payable out of production; the adjoining Echo group was acquired by the company in about 1936. The Echo group was owned in 1904 by W. Maher, H. Anderson, and J. Baugh, of Nelson. Trenching, ground sluicing, and at least 250 feet of underground work was done in one or more adits during the initial period of exploration. In 1922 the Echo group of 6 claims, the Echo,

see Card 2 ....

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

From 1935 to 1951 inclusive 88,933 tons of ore were milled or shipped from this property. From this ore, 41,556 ounces of gold, 118,474 ounces of silver, 79,686 pounds of lead, and 35,523 pounds of zinc were recovered.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia:  
 1901, p. 1035; 1902, p. 163; 1903, p. 149;  
 1904, pp. 131, 132, 145, 295; 1905, p. 169;  
 1910, p. 112; 1911, p. 162; 1915, pp. 170,  
 172<sup>+</sup>; 1917, p. 167; 1921, p. 143; 1922,  
 pp. 209, 354; 1923, p. 219; 1929, p. 359;  
 1930, p. 279; 1934, p. E 26; 1935, p. E 27;  
 1936, p. E 43; 1937, pp. E 9-16<sup>++</sup>; 1938,  
 p. E 41, 1939, p. 85; 1940, p. 170; 1941,  
 p. 68; 1942, p. 64; 1945, p. 100, 1936, p. 148;  
 1957, p. 47; 1963, p. 72; 1964, p. 118.

<sup>+++</sup>Rice, H.M.A.; Nelson Map Area, East Half, British Columbia; Memoir 228, p. 62, Geol. Surv. of Canada, 1941.

Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1935, Rept. 763, pp. 182-189 (No. 629); 1936, Rept. 774, p. 181.

Warren, H.V. et al.; Mineralogy of a Sample of Bayonne Ore; B.C. Miner, March 1938, p. 30.

Mineral Policy Sector; Corporation Files: "Bayonne Consolidated Mines, Ltd."; "Grull-Wihksne Gold Mines, Limited"; "Bayonne Mine Ltd."; "Goldrich Resources Inc."

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

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

Sketch Map of the Bayonne-Midge Creek Area, (Claim Map), Sc. 1":2 miles, Report of Minister of Mines, B.C., 1937, p. E 10.

Map 8475 G, Creston, (Aeromag.), Sc. 1":1 mile.

#Map 82 F/2, Creston, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	04-81						

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

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

from a few inches to 10 feet wide. The wide part of the zone is not, however, solid quartz, but rather composed of two or more quartz veins separated by masses of altered granodiorite.

The bulk of the ore mined prior to 1939 was mined from the oxidized zone, which extends down the vein to a maximum depth of 450 feet. In this zone the sulphides have largely disappeared, their place being taken by limonite and minor amounts of secondary lead and zinc minerals. The bottom of this zone is characterized by a rather abrupt transition from highly oxidized and leached material to primary sulphides with little or no trace of oxidization or leaching.

Gold and silver occur intimately associated with pyrite, galena, sphalerite, and chalcopyrite. Lenses of almost pure galena occurring within the veins carry moderate values in silver but very little gold. Tetrahedrite was observed under the microscope, and Warren (1938, pages 30, 31) reports that hessite (silver telluride) and petzite (gold-silver tellurite) may occur. As in most fissure veins the ore minerals are not uniformly distributed, but occur in well-defined shoots.

Echo Fr., Ontario, Portland, St. Elmo, and Idaho (Lots 13014-13019 respectively) were Crown-granted to Harris Ginsberg.

By a December 1935 agreement Grull-Wihksne Gold Mines, Limited acquired a 1/2 interest in the Bayonne Consolidated properties. Grull supplied mill equipment from a Bridge River area property and a 50 ton per day cyanide mill was installed and put into operation on November 3, 1936. Development work failed to locate additional ore and depletion of the known reserves led to the closing of the mill on October 31, 1938. Underground exploration and development during 1939-40 outlined additional reserves at depth and milling operations were resumed in April 1940; the mine closed August 1, 1942 for the duration of the war. Work resumed on the property in August 1945 when shaft sinking from No. 8 level was begun. Milling operations were resumed in May 1946 and continued until July of that same year when the mine closed due to labour and materials shortages. The workings at that time comprised 7 adit levels at vertical intervals of about 100 feet, connected by raises.

An internal shaft was sunk 170 feet from the lowest adit (No. 8 level) and No. 9 level established at a depth of 100 feet in the shaft. Underground work during the period 1936-46 included approximately 7,860 feet of drifting and cross-cutting, and 750 feet of raising. Lessees worked the property intermittently between 1947 and 1951, removing about 1,000 tons of ore from the workings. The property reportedly reverted to the Crown in 1957.

The construction of the Salmo-Creston highway up Summit Creek, about 4 miles to the south of the property, led to renewed interest in the area in the 1960's. Bayonne Mine Ltd., incorporated July 1962, acquired 17 Crown-grants of the Bayonne and Echo groups, and 25 recorded claims. During 1963 the company carried out rehabilitation work in No. 8 adit, underground sampling, and site preparation for the installation of a flotation mill. Reserves were reported at 11,000 tons valued at \$50 per ton (Northern Miner, Oct. 17, 1963). The property was held for a short period in 1968 by Liberty Mines Ltd. but no work was done and the option was later terminated.

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

In 1975 R.A. Sostad acquired the Bayonne, Columbia, Ohio, New Jersey, Virginia, and Skookum Crown-grants, and 11 reverted Crown-grants comprising the Bayonne and Echo groups. In February 1980 the claims were transferred to Goldrich Resources Inc. Reserves were estimated at approximately 17,200 tons (G.L. Mill, 04/01/80 in VSE AL 213/80, Goldrich Mines L.). Work began on the property in 1980.