

PRODUCT SILVER  
PRODUIT

PROVINCE OR PROVINCE OU British Columbia  
TERRITORY TERRITOIRE

N.T.S. AREA 82 F/14  
RÉGION DU S.N.R.C.

REF. AG 78  
RÉF.

NAME OF PROPERTY HALL, ALTOONA  
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - Altoona adit.  
OBJET LOCALISÉ

UNCERTAINTY 300 m FACTEUR D'INCERTITUDE	Lat. 49°59'30" Lat.	Long. 117°14'40" Long.
Mining Division Slokan 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

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

Triassic sedimentary rocks of the Slokan Series, including argillites, quartzites, and one 25' band of limestone, are intruded by several porphyry dykes and sills in the vicinity of a large granitic stock. Two directions of fissuring striking SE and E and dipping SW and S respectively are exposed in the upper workings. Ore has been found mostly in the east-west fissure but also occurs as replacement of the limestone. The fissure is narrow and sparsely mineralized but locally it widens to several feet and carries disseminations and streaks of pyrite, sphalerite, and galena in a gangue of quartz and sheared country rock.

A new showing was discovered in 1980 while bulldozing roads for drill sites. The vein is about 1.25 feet wide, strikes 075° and dips 60°S and by the beginning of 1981 had been traced over a length of 280 feet.

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

The property is located between elevations of 3,500 and 5,000' on the northeast side of Carpenter Creek, 1.5 miles northwest of Sandon.

Sandon Mining & Milling Company, Limited Liability held the property from about 1898. Underground work in 4 adits totalled about 1,500'. The Altoona, Bowknot, and Tawanda claims (Lots 1918-1920 respectively) were Crown-granted to the company in 1900. The company charter was surrendered in 1912 and the claims eventually reverted to the Crown for taxes.

The Altoona claim was re-Crown-granted to A.J. Murphy, of Sandon, in 1926. Altoona Mines, Limited was incorporated in August 1929 by Seattle interests to acquire the Altoona and Bowknot Crown-grants and the Commander located claim. Work during 1930 included trenching and a short crosscut driven from No. 1 adit; the claims were subsequently abandoned.

The claims were acquired by E. Doney in 1949 and optioned the following year to Kootenay Belle Gold Mines, Limited, operator of several properties in the Sandon area. Ore from stopes in No. 1 & 2 adits was shipped to the Whitewater mill during 1950-51.

During 1965-66 Sven Hallgren and associates carried out mining in No. 1 adit under the name Hallmac Mining Syndicate. The Altoona and Bowknot claims were optioned from E. Doney by A. Hewitson in November 1968 and assigned to Hallmac Mines Limited in January 1969. In addition the company acquired the Tawanada Crown-grant, the Hall 1-3 located claims, and the adjoining Majestic property (82 F/14, PB 7). Intermittent work to 1980 included geological mapping, crosscutting on No. 2 level, diamond drilling, and a geochemical soil survey. In 1981-83 development and mining operations were carried out in two adits 60' vertically apart on a new showing discovered in 1980. A third adit was begun in 1983 on a newly discovered adjacent structure. Operations were suspended in 1984 due to the low silver price. The company name (Hallmac) was changed in February 1986 to Royal Oak Resources Ltd. The mineral inventory at closure in 1984, including stockpiled high-grade and mill feed and ore in place is estimated to contain 246,000 ozs silver, 880 tons of lead and 213 tons of zinc (Royal Oak Resources Ltd June 30/86 Annual Report).

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

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

During the years 1951, 1965 and 1966 a total of 5,225 tons of ore were shipped. From this ore 1 oz gold, 6,802 ozs silver, 94,598 lbs lead, 370,587 lbs zinc, and 321 lbs cadmium were recovered.

Ore shipped in 1980-83 to the Trail smelter totalled 2 747 tonnes. From this ore 28 g Au, 5 445 721 g Ag, 807 839 kg Pb and 414 kg Zn were recovered.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1900, p. 981; 1926, p. 449; 1928, p. 288; 1929, p. 309; 1930, p. 249; 1950, p. 145; 1951, pp. 166, 170<sup>+</sup>; 1952, p. 175; 1965, p. 192; 1966, p. 222.

++Hedley, M.S.; Geology and Ore Deposits of the Sandon Area; Bulletin No. 29, p. 67, British Columbia Dept. of Mines, 1952.

Cairnes, C.E.; Descriptions of Properties, Slocan Mining Camp, British Columbia; Memoir 184, p. 4, Geol. Surv. of Canada, 1935.

Mineral Policy Sector; Corporation Files: "Altoona Mines, Limited"; "Kootenay Belle Gold Mines, Limited"; "Hallmac Mines Limited".

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1970, p. 454; 1974, p. 76; 1978, p. E 62.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

#Map 273 A, Sandon, (Geol.), Sc. 1:48,000 - accomp. Memoir 173, Geol. Surv. of Canada.

Map 1090 A, Nelson, (Geol.), Sc. 1":4 miles - accomp. Memoir 308, Geol. Surv. of Canada.

Hall property claim map, Royal Oak Resources 1986 Annual Report.

Map 8482 G, Slocan, (Aeromag.), Sc. 1":1 mile.

\*Map 82 F/14, Slocan, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	JL	DMacR				
Date Date	10-81	09-82	01-87				