

PRODUCT	LEAD	PROVINCE OR TERRITORY	British Columbia	N.T.S. AREA	82 K/3	REF. PB 2
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NAME OF PROPERTY	ANTOINE, RED FOX					
OBJECT LOCATED - Antoine claim (Lot 516).						
UNCERTAINTY IN METRES	300.	Lat. 50°00'10"	Long. 117°11'50"			
Mining Division	Slocan	District	Kootenay			
County	Township or Parish					
Lot	Concession or Range					
Sec	Tp.	R.				

OWNER OR OPERATOR AND ADDRESS						
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DESCRIPTION OF DEPOSIT

The underlying sediments are chiefly massive Triassic argillaceous and quartzitic rocks of the Slocan Series. The general trend of these formations is northwest and the dip is mostly to the southwest at angles varying from 35 degrees to 60 degrees. The sediments are intruded by numerous porphyritic bodies varying from quartz-porphry to feldspathic types in which quartz is a less important constituent. These bodies occur as irregular masses and as dykes, most of the latter rather closely following the strike of the sediments. A few basic dykes were observed. Of these a dark green lamprophyre dyke about 5 feet wide, cut by the vein-lode on No. 5 level and followed by the inclined shaft, forms a noticeable feature in the underground workings.

The main lode of the Antoine mine has a general northeasterly course, but northeast from the incline shaft it curves towards the east as it approaches Red Fox ground. The average dip is 65 degrees southeast.

see Card 2

Associated minerals or products of value - Silver, zinc, copper, gold, cadmium.

HISTORY OF EXPLORATION AND DEVELOPMENT

The Antoine claim is located at the 7,200 foot elevation at the head of the south fork of McGuigan Creek, approximately 7 miles east of New Denver.

The claim was staked in October 1891 and Crown-granted (Lot 516) to Messrs. Green and Smith in 1897. The Jackson Mines, Limited Liability, incorporated in February 1897, is reported as operator of the property in 1899 and apparently continued into 1903. At that time an extensive exploratory program was undertaken including the projection of the long No. 5 crosscut adit to connect with the lower workings. Over 200 tons of ore was shipped during that year. In 1925 an attempt was made by a lessee to rework the old dump at the portal of No. 5 adit, and in the following year two lessees found some good ore 20 feet above the 50-foot level about 300 feet northeast of the shaft. Owners of the property during that period were Messrs. Foster, Mitchell, and Scott. The showings had at that time been developed by an upper or Red Fox drift adit; by an incline shaft connecting at a vertical depth of 150 feet with the main or No. 5 adit; by two intermediate levels driven from this shaft at 40 feet and 80 feet, respectively, below the collar; by the 800-foot adit crosscut and workings on the fifth level; and by a short winze below No. 5 level. These workings aggregate a length of over 3,500 feet.

The Red Fox group, comprising the Red Fox, Red Fox Fr. and Central claims (Lots 2413-2415, respectively) were staked in about 1893 and worked intermittently until 1906. Development work was carried on by the owner, G. Aylard, in 1903, and by lessees Gething and Henderson from 1904 to 1906. The property was partly developed by extending the upper workings of the Antoine into the Red Fox ground. Development work was reported to consist of 675 feet of tunnel and 425 feet of raises and winzes.

The Ogema claim, adjacent on the south side of the Antoine, was Crown-granted (Lot 3163) to George Alexander in 1901.

No activity was reported from 1927 until 1962 when L.N. Garland and associates acquired the Antoine group comprising 5 Crown-granted and 3 recorded claims, and obtained an option on the adjacent Soho property (82 K/3, AG 4).

see Card 2

HISTORY OF PRODUCTION

From 1899 to 1906, 569 tons of ore were shipped from the Red Fox property. From this ore 112,755 ounces of silver, 517,510 pounds of lead, and 338 pounds of zinc were recovered.

Production from the Antoine, and possibly in part from the Red Fox, for the period 1895 to 1968, inclusive, totals 8,898 tons of sorted ore. From this ore 4 ounces of gold, 351,577 ounces of silver, 2,232 pounds of copper, 1,682,584 pounds of lead, 507,639 pounds of zinc, and 3,276 pounds of cadmium were recovered.

REFERENCES

Reports of Minister of Mines, British Columbia:

1895, pp. 676, 679; 1896, p. 63; 1897, pp. 534, 569; 1898, p. 1074; 1899, p. 596; 1900, p. 829; 1901, pp. 1026, 1226; 1903, pp. 148, 301; 1903, pp. 136, 137; 1904, pp. 195, 196, 201, 202; 1905, p. 160; 1906, p. 249; 1914, p. 287; 1925, p. 245; 1927, p. 276; 1962, p. 79; 1963, p. 74 ++; 1964, p. 122; 1965, p. 190; 1966, p. 222; 1967, p. 253; 1968, p. 254.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 331; 1970, p. 455.

Cairnes, C.E.; Descriptions of Properties, Slocan Mining Camp, British Columbia; Memoir 184, pp. 11-14, Geol. Surv. of Canada, 1935. +

Mineral Policy Sector; Corporation File: "Antoine Silver Mines Ltd."

MAP REFERENCES

Map 273 A, Sandon, (Geol.), Sc. 1":4,000 ft. - accomp. Memoir 173, Geol. Surv. of Canada.

Geology of the Antoine ore zone, Sc. 1":120 ft., Fig. 6, Report of Minister of Mines, British Columbia, 1963, p. 75.

#Map 82 K/3 E, Rosebery, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	2-77						

PRODUCT

LEAD

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TERRITORY

British Columbia

N.T.S. AREA 82 K/3

- Card 2 -
REF. PB 2

NAME OF PROPERTY

ANTOINE, RED FOX

DESCRIPTION OF DEPOSIT (continued)

Two important ore shoots have been developed on the Antoine property, an eastern shoot lying on either side of the Antoine-Red Fox line and a western shoot or series of shoots in the vicinity of the inclined shaft. The eastern shoot was about 200 feet long and did not go much below the upper intermediate level. The western shoot continued from near the surface to below No. 5 level. It pitched south, had a length of from 250 to 300 feet, and carried a paystreak varying from an inch or less to 18 inches wide. On No. 5 level the ore was continuous for about 300 feet and in one place had a thickness of 3 feet.

The vein matter consists of ore minerals, siderite, and quartz and is associated with fragments of country rock. In the southwest face of No. 5 drift quartz prisms were seen lying at right angles to the walls and projecting into siderite. Several specimens of vein matter were noted in which pyritized fragments of argillaceous country rock were completely surrounded by vein matter. The ore minerals include galena, zinc blende, grey copper, ruby silver, and native silver, the latter in leaf and wire form. Pyrite is commonly abundant and a little arsenopyrite was observed. Clean ore is stated to have run from 45 to 60 per cent lead and from 190 to 200 ounces silver to the ton. The zinc blende carries about 30 ounces in silver.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

Development work began on the Antoine in May 1962 and continued through 1963. Mr. Garland and associates incorporated Antoine Silver Mines Ltd. in May 1964. During the year 500 feet of crosscut and drift was driven on No. 5 level, opening a mineralized shoot over a length of 125 feet on the Ogema vein, which lies about 250 feet southwest of the Antoine ore shoot. During 1965 ore was shipped to the Carnegie custom mill from the Ogema vein, and from old dumps. In December 1965 operations were moved to the Soho property to extend the Old Tom Moore adit to cut the Ogema and Antoine veins at 500 feet below No. 5 level. This project was carried out in 1966-67 and included a raise driven some 450 feet to the Antoine workings and about 300 feet of diamond drilling. During 1968 some 500 feet of underground development and 1,500 feet of diamond drilling was carried out. Ore was shipped to the Red Deer Valley Coal Company, Limited mill near Silverton. Operations ceased on November 30th, 1968. Some 500 tons of low-grade ore remained in a stockpile at the bottom of the mine road.