

PRODUCT

SILVER

PROVINCE OR
TERRITORY

British Columbia

N.T.S. AREA 82 K/13

REF. AG 2

NAME OF PROPERTY

SPIDER (MULTIPLEX)

OBJECT LOCATED - Spider Crown-grant (Lot 15752).

UNCERTAINTY IN METRES 300. Lat. 50°46'33" Long. 117°36'30"

Mining Division Revelstoke District

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The country rock is dark green chlorite schist and locally black phyllite. Map 235 A indicates these rocks belong to the Lardeau series, of late Precambrian age. These rocks are squeezed into close asymmetric to isoclinal folds, with overturning to the southwest. Plunges are to the southeast, averaging about 25 degrees. In the vicinity of the workings the strike of schistosity and bedding approximates N40°W and the dip averages about 75°NE. The rocks are broken by six-types of steeply dipping fractures, among them north-striking right-hand faults which are the principal sites of mineralization. The right-hand faults strike mostly between north 5 degrees west and north 15 degrees west and dip 70 to 80 degrees east. The strike length ranges up to at least 450 feet, and the vertical range is probably at least as great. The faults terminate laterally by fraying and curving left into the foliation, the displacement presumably being taken up along foliation slips. Along most veins the wallrock is largely replaced by siderite, but not all siderite rock is associated with veins. Considerable areas of

Associated minerals or products of value - Lead, zinc, copper, gold, cadmium, antimony. see Card 2

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located between elevations of 2,500 and 4,500 feet on the south side of Pool Creek, 2 miles south-east of Camborne and some 30 miles southeast of Revelstoke. The Eclipse property (82 K/13, AG 3) adjoins to the east.

There is no record of when the Spider showings were discovered. The first report is in 1910 when underground work was in progress. Some ore was shipped in 1911 and 1912 under the names Arthur Evans and F.G. Wrightson.

Multiplex Mining, Milling and Power Company, Limited was incorporated in April 1914 to acquire 14 claims. Small scale development work was carried on most years until by 1929 the workings totalled about 2,000 feet of drifts and crosscuts in 5 adits. After the discovery of a new showing at lower elevations in 1929 the property was optioned to A. Renick, representing Eastern interests. Some development work was reported on No. 5 level but the option was apparently abandoned in 1930.

Late in 1936 a Syndicate headed by I.G. Nelson, of Nelson, reopened the mine. The Syndicate incorporated Spider Gold and Silver Mines, Limited in August 1937 to acquire 5 claims, the Spider, Multiplex No. 1, Winton, Ready Money, and Mabel Fr. Development work was carried on until June 1938 when all activity ceased. The company charter was surrendered in 1946.

In 1948 I.G. Nelson optioned the property to W.J. Scorgie, who assigned the option to Sunshine Lardeau Mines, Limited. The option agreement covered 5 claims, the Gold Bird, Winton, Spider, Spider No. 1, May Fr., and Anaconda (Lots 15750-15755 respectively). Work on the property began in 1949. During 1950 diamond drilling totalling 1,000 feet on surface and 2,000 feet underground led to the discovery of No. 4 and No. 5 veins. A crosscut was driven to the new veins on No. 5 level and a new level, No. 6 adit, was driven 140 feet southwesterly, cutting mineralization at 75 feet. The company exercised its option to purchase the property. An agreement was reached with Meridian Mining Company, Limited for the use of their old mill building at Camborne and a 50 ton per day mill was installed. Milling began in May 1952. Berens River Mines Limited provided additional funds and assumed operating control that same year.

The No. 10 level adit, comprising 540 feet of crosscut and 560 feet of drift, was driven in 1953 to further develop see Card 2

Mineral Development Sector, Department of Energy, Mines and Resources, Ottawa

510165

HISTORY OF PRODUCTION

From 1911-1958 inclusive 138,798 tons of ore were shipped or milled. From this ore 11,913 ounces of gold, 1,719,474 ounces of silver, 188,161 pounds of copper, 23,908,704 pounds of lead, 25,396,069 pounds of zinc, 133,583 pounds of cadmium, and 9,394 pounds of antimony were recovered. Of the above tonnage about 35,000 tons was from the Eclipse property and had about the same grade.

MAP REFERENCES

Map 235 A, Lardeau Area, (Geol.), Sc. 1":4 miles - accomp. Memoir 161.

Map 3235 G, Camborne, (Aeromag.), Sc. 1":1 mile.

#Map 82 K/13 E, Camborne, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR	DMacR	DMacR				
Date	6-78	02-86	05-88				

REFERENCES

Reports of Minister of Mines, British Columbia:

1909, p. 104; 1910, p. 95; 1911, p. 129; 1912, p. 323; 1914, p. 258; 1915, p. 118; 1916, p. 194; 1917, p. 153; 1918, pp. 158, 190; 1923, p. 233; 1924, p. 206; 1925, p. 263; 1928, p. 318; 1929, p. 285; 1936, p. E 49; 1937, p. E 56; 1938, pp. E 22-E 25; 1941, p. 26; 1949, p. 192; 1950, p. 150; 1951, p. 178; 1952, p. 182; 1953, p. 143; 1954, p. 143; 1955, p. 66; 1956, pp. 99-105 + ; 1957, p. 58, 1958, p. 49; 1964, p. 130.

++Gunning, H.C.; Lardeau Map-Area, British Columbia; Memoir 161, pp. 85-88, Geol. Surv. of Canada, 1930.

Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1927, No. 695 (Invest. No. 279), p. 122; 1933, No. 744 (Invest. No. 539), pp. 126-128.

Mineral Policy Sector; Corporation Files: "Multiplex Mining, Milling and Power Company, Limited"; "Spider Gold and Silver Mines, Limited"; "Sunshine Columbia Resources Limited".

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1975, p. E 48; 1976, p. E 52.

Exploration in British Columbia; British Columbia Dept. of Mines: 1982, p. 96; 1987, pp. A 19, A 57.

George Cross News Letters: 1982, Nos. 164, 220; 1986, No. 20; 1987, No. 13, 178, 188, 193, 236; 1988, No. 80.

PRODUCT SILVER

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N.T.S. AREA 82 K/13

Card 2 -
REF. AG 2

NAME OF PROPERTY

SPIDER (MULTIPLEX)

DESCRIPTION OF DEPOSIT (continued)

phyllite show partial replacement, accompanied by some silicification, and a few patches of nearly complete replacement occur in both phyllite and greenstone distant from any known veins or faults.

The five known Spider veins are all in greenstone and have considerable thicknesses of altered wallrock. Quartz is the principal gangue, accompanied by some calcite and siderite. Quartz is sparing on the upper levels but forms a thick continuous vein along No. 4 fault on Nos. 8 and 10 levels, obliterating the fault for considerable distances. Sulphides line fault remnants or form large ragged lenses and pockets in the gangue. Veinlets of quartz or sulphides extend into the walls. The principal sulphides are pyrite, sphalerite, and silver-bearing galena. Chalcopyrite is minor but is widely distributed. Grey copper is rarely seen in No. 4 vein but was an important constituent of ore from Nos. 1 and 2 veins. Arsenopyrite is rare.

The Spider No. 4 vein, the largest of the five en échelon Spider veins, has a known vertical range of more than 600 feet and a length which increases from 85 feet on No. 5 level to 400 feet on No. 10 level, in addition to about 100 feet of low-grade ore in an offshoot on No. 10. The ore is from 3 to 10 feet wide. Ore is continuous along the vein in the upper levels, but the longer sections of vein on Nos. 8 and 10 levels contain short lengths carrying only sparsely disseminated sulphides. On these levels the vein splits toward the north end, the intersection plunging 70 degrees north. On No. 10 level an offshoot curves to the right across the foliation and back to a north strike; sphalerite and galena are essentially confined to the north-striking portion of the offshoot, although quartz and pyrite are continuous around the double curve.

Drilling in 1987 has shown that at a depth of 200 feet below No. 10 level the No. 4 vein becomes predominantly pyrite carrying gold values.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

No. 4 vein. A raise was put up and No. 9 sublevel established. In 1954 the No. 10 level was extended 1,000 feet into the adjoining Eclipse property. In 1956 Berens River Mines was liquidated and control of Sunshine Lardeau Mines passed to the parent company Newmont Mining Corporation of Canada Limited. Nearly all ore had been mined above No. 10 level by the end of 1957; underhand mining was started in December. Mining and milling was suspended on May 14, 1958.

No further activity was reported until 1964 when the company carried out a program comprising 25 AX diamond drill holes and about 200 feet of drifting. The diamond drill holes intersected the No. 4 vein over a length of 400 feet and to a depth of 225 feet below the No. 10 level. Based on this work, probable reserves were estimated at 58,800 tons averaging 0.08 ounce gold, 2.70 ounces silver; 2.00% lead, and 4.25% zinc. (Sunshine Lardeau Mines Limited 1964 Annual Report).

The company name was changed in 1965 to Sunshine Comstock Mines Limited, and in 1974 to Sunshine Columbia Resources Limited. The old tailings dump from the milling operation, located on the Treadwell claim (Lot 5402) and owned by C. Nelson, of Vancouver, was sampled and tested in 1975-76 for gold and silver values. In 1981-82 stripping and diamond drilling in 9 holes was done in a new area 600' south of the former workings; two 4-foot sections in separate zones assayed 7.85 oz/t Ag and 11.9 oz/t Ag respectively. On adjacent ground Westmin Resources Limited in 1982 carried out a geochemical soil survey. An analysis of mill tailings was carried out in 1985. Work in 1986 included VLF electromagnetic, magnetometer and geochemical soil surveys.

The company name (Sunshine Columbia) was changed in February 1987 to K-2 Resources Inc. Sampling of the approximate 75 000 tons of tailings was carried out; two samples gave values ranging from .084 to .115oz/t Au, 2.1 to 2.4 oz/t Ag, .89 to 1.10% Pb, 1.14 to 1.92% Zn. Diamond drilling in 1987 totalled 9400 feet in 26 holes of which 6950 feet were in 17 holes testing No. 4 vein from underground. Proven reserves to 200 feet below the 10 level on No. 4 vein are 28 000 tons at 0.13 oz/t Au, 7.43 oz/t Ag, 6.19% Pb, 6.34% Zn (George Cross News Letter, 26/04/88).