

NAME OF PROPERTY MARY REYNOLDS (JEAN) (HEPBURN)

OBJECT LOCATED-showing.

UNCERTAINTY IN METRES 300. Lat. 50°19'40" Long. 120°20'40"

Mining Division Nicola District Kamloops

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The claims are underlain by massive and mildly foliated Triassic augite andesite of the Nicola Group which in the central part of Mineral Lease M-20 contains a northeast-trending zone of quartz-carbonate alteration 3,000 feet long and up to 150 feet wide.

Two vein zones on the property strike northeast and dip steeply southeast to steeply northwest. They apparently converge towards the north, and are stated to have been proved over a horizontal distance of 900 feet by cuts and diamond drill holes. These zones range up to 6 feet in width, and carry veins and stringers of quartz mineralized with pyrite, chalcopyrite, galena, zinc blende, and tetrahedrite. The vein zones occur in the alteration zone.

Associated minerals or products of value - Gold, lead, zinc.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at about the 3,500 foot elevation $2\frac{1}{2}$ miles east-southeast of the south end of Stump Lake, 23 miles south of Kamloops.

The Mary Reynolds, Gold Cup, and Robert Dunsmuir claims (Hepburn group) were staked in 1887 by J. Hepburn, W. Wilson, and R. Dunsmuir, of Victoria. Exploration and development work was done in 3 shafts 100, 75, and 35 feet deep. In the 100 foot shaft about 90 feet of drifting was done on the 35 foot level. Small amounts of high-grade ore were shipped during this period. Work ceased in 1889. The Mary Reynolds (Lot 674) and Gold Cup (Lot 675) were Crown-granted in 1888 to John Hepburn. The Robert Dunsmuir (Lot 673) was Crown-granted that same year to Wm. Wilson.

No further activity was reported until 1918 when R.R. Hedley, of Nicola, secured an option on the property. Development work during 1918-19 was carried out on the 35 foot level and a small amount of ore was shipped. J.L. Brown, of Victoria, optioned the property in 1927. Primary Ore Mining Company, Limited, acquired the property in 1928. Exploration and development work during 1929-30 included crosscutting and drifting, and diamond drilling in several holes.

Mary Reynolds Mines, Limited, was incorporated in May 1934 to acquire the 3 Crown-grants, and the Troy 1-10, Victor, Violet, Hall, Hall 1-2, Hall Fr. and Troy Fr. claims. There is no report of work done by the company. The Jean group of 8 claims, in part a restaking of the Mary Reynolds claims which had reverted to the Crown and had been thrown open for relocation, was staked by McMaster, Doyle, and Matheson prior to 1948. The workings in 1948 included 3 adits totalling about 500 feet of crosscuts and drifts.

A geophysical survey was reported on the Jean and Dan groups by Mutual Mines and Metals Ltd. in 1958. D. Faulkner, of Merritt, shipped a small amount of ore from the property in 1967.

Pine Valley Explorers Ltd., incorporated July 1972, acquired the 3 Crown-grants as Mineral Leases M-19 (Lot 673) and M-20 (Lots 674 and 675), and the ND 1-4, ARD 1-6, ARD 1 & 2 Fr., and PV 1-12 claims. Work during 1973 included magnetometer and self potential surveys over 30

p.t.o.

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

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HISTORY OF PRODUCTION

During the periods 1887-1889, 1918-19, and in 1967, a total of 150 tons of ore were shipped from this property. From this ore 27 ounces of gold, 6,665 ounces of silver, 3,798 pounds of lead, and 307 pounds of zinc were recovered.

REFERENCES

++Cockfield, W.E.; Geology and Mineral Deposits of Nicola Map-Area, British Columbia; Memoir 249, p. 57, Geol. Surv. of Canada, 1948.

Reports of Minister of Mines, British Columbia: 1887, p. 276; 1888, pp. 315, 321; 1889, p. 290; 1896, p. 562; 1917, p. 228; 1918, pp. 239, 244; 1919, pp. 184, 189; 1924, p. 135; 1927, p. 213; 1928, p. 222; 1929, p. 245; 1930, p. 206; 1934, p. D-25; 1958, p. 67.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1972, p. 186; 1973, p. 190; 1973, p. 190 + ; 1975, p. E86; 1976, p. E86.

Mineral Policy Sector; Corporation Files: "Pine Valley Explorers Ltd."

MAP REFERENCES

- #Map 886 A, Nicola, (Geol.), Sc. 1":4 miles - accomp. Memoir 249.
- Map 5213 G, Stump Lake, (Aeromag.), Sc. 1":1 mile (1968).
- *Map 92 I/8, Stump Lake, (Topo.), Sc. 1:50,000.

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REMARKS

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

line-miles, and a geochemical soil survey (1,612 samples) over 31 line-miles covering all the claims. During 1974 one of the adits was reopened. Prospecting and sampling related to feasibility studies was carried out in 1975; the old workings are reported to contain an indicated 25,000 tons of material (no grade given) (Northern Miner, Dec. 7, 1972).

A geochemical soil survey (923 samples) was carried out over PV 1 and 2 claims in 1976.

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