

NAME OF PROPERTY

SURPRISE

OBJECT LOCATED—adit.

UNCERTAINTY IN METERS 200. Lat. 55°19'05" Long. 127°37'20"

Mining Division Omineca District Cassiar

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The rocks in the adits and in the few exposures at the surface are mostly massive grey tuffaceous sandstone and grey-wacke interbedded with dark thin argillaceous beds. Most of the beds dip gently southward and eastward, though in a few minor rolls in the main crosscut, beds dipping westward are seen. The beds are on the eastern limb of a northerly trending anticline.

Three northeasterly striking veins exposed in the main crosscut consist largely of white quartz, some carbonate and pyrite. The widest vein is about 6 inches wide and dips steeply near the crosscut. It has been followed in drifts from the main crosscut; toward the north the vein flattens and follows a bedding-plane slip. The width decreases to about an inch where the vein flattens out. Southwest of the crosscut the vein contains some sphalerite, but 20 feet from the crosscut it is cut off by a northerly striking fault.

In the other adit a vein 4 inches wide has about the same strike but a steeper dip than the bedding. The vein contains sphalerite and galena, and a sample (No. 44) from it assayed: Gold, 0.01 oz. per ton; silver, 2.88 oz. per ton; lead, 1.5 per cent; zinc, 1.8 per cent.

The fractures, occupied by veins, strike nearly parallel to the beds of the Hazelton group and not as on the Silver Standard Associated minerals or products of value - Lead, zinc, gold. p.t.o.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located on the north side of Glen Mountain, 4½ miles north-northeast of Hazelton. The claims adjoin the Silver Standard mine on the north.

The property was held by Wm. Thompson from about 1911. A crosscut adit at about 1,500 feet elevation was driven 770 feet to explore the northeast extensions of the Silver Standard mine veins. At 200 feet from the portal a drift was driven northeast for 96 feet and two raises driven through to the surface. Operations ceased in 1913. Assessment work was reported in 1915 and subsequent years. One other adit, 20 feet long, is located about 350 feet east of the main adit portal at an altitude of about 1,625 feet.

Mr. Thompson sold the property in 1917 to B.R. Jones. Three claims, the Wonderful, Surprise, and Shamrock (Lots 3710-3712, respectively) were Crown-granted to Mr. Jones in 1918. Glen Mountain Mines, Limited, was incorporated in February 1918; no exploration or development work was reported; the company charter was dissolved in 1974.

HISTORY OF PRODUCTION

REFERENCES

Reports of Minister of Mines, British Columbia: 1912, p. 112; 1913, p. 106; 1915, p. 76; 1916, p. 89; 1917, p. 107; 1918, p. 472; 1950, p. 95.

Kindle, E.D.; Mineral Resources, Hazelton and Smithers Areas, Cassiar and Coast Districts, British Columbia; Memoir 223, Revised Edition, p. 83, Geol. Surv. of Canada, 1954.

MAP REFERENCES

Surface Geology, Glen and Nine Mile Mountains Area, Sc. 1": $\frac{3}{4}$ mile, Fig. 1, Report of Minister of Mines, British Columbia, 1950.

#Plan of Silver Standard Mine and Surprise Adit, Sc. 1": 200 ft., Fig. 2, Report of Minister of Mines, British Columbia, 1950.

*Map 93 M/5 E, Hazelton, (Topo.), Sc. 1:50,000.

DESCRIPTION OF DEPOSIT (continued)

property, nearly normal to the beds. The stresses that caused fractures to form on the Silver Standard property may have been relieved to a large extent by movements along numerous bedding planes on the Surprise property. For this reason only a few discontinuous fractures may have formed crossing the bedding planes.

REMARKS

Comp./Rev. By	DMacR						
Date	2-75						