

NAME OF PROPERTY SANTA MARIA

OBJECT LOCATED - showing.

UNCERTAINTY IN METRES 300. Lat. 54°28'15" Long. 127°22'45"

Mining Division Omineca District Range 5 Coast

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The country rocks in the area are Jurassic flows and pyroclastic strata of the Hazelton Group. Mineralization at the Santa Maria consists of quartz veins, carrying chalcopyrite, pyrite, chalcocite, and bornite, which have been traced by trenching for a strike length of more than 1,700 feet. In addition to the long-known Santa Maria vein, another parallel vein, the S.H. vein, and other minor veins have been found through diamond drilling and recent trenching. The vein system strikes approximately north 30 degrees west and dips southwesterly at moderate to steep angles. The veins occur over a surface width of 250 to 300 feet and follow a zone of intensely altered and sheared pyroclastic rocks of the Hazelton Group. These comprise reddish lapilli tuff and volcanic breccia, and buff to greenish fine-grained highly altered andesitic lava or intrusive rock. In addition to these rocks, several dykes of buff, cream, and brick red rhyolite porphyry are found. The dykes are crudely parallel to the vein structure, are generally strongly altered, and may be sparsely mineralized with sulphides. In addition to the strong shearing and alteration within the vein zone, an extensive amount of saussurite alteration of the country rocks accompanied by sparsely distributed silicification and sulphide mineralization was noted on either side of the main zone of shearing. Faulting and shearing along a northerly trending zone have played an important role in displacing the mineralized veins, so as to greatly complicate the picture.

Associated minerals or products of value - Silver.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located about 3/4 mile west of Mooseskin Johnny Lake, 23 miles south-southwest of Smithers.

In the spring of 1916 a group of 4 claims, the Santa Maria, Kathrina, Telkwa, and Howson, were staked by Jimmy Michelle and Felix George and shortly thereafter sold to the Chisholm Bros. That same year the claims were optioned to the Jefferson-Dockrill Syndicate, which was financed by New York interests. Development work during 1916 and 1917 was done in a 120 foot inclined shaft; from the 60 foot level drifts were run 120 feet south and 102 feet north and stoping carried out. Some drifting was done at the 120 feet level but no ore was found; operations ceased at the end of 1917.

Norcan Mines Ltd. in 1966 acquired the Santa Maria property as part of a group of 255 claims covering Howson Basin. Work on the Santa Maria in 1966 included geochemical and geophysical surveys, about 5,300 feet of trenching, and 3,742 feet of diamond drilling in 8 holes.

Bethex Explorations Ltd. optioned the Norcan Mines property in November 1966 and during 1967 and 1968 carried out geophysical and geochemical surveys and trenching; the option was subsequently given up.

Through an August 1970 agreement with Norcan Mines, Pathfinder Resources Ltd. acquired an undivided 50% interest in the property. Work on the Santa Maria in 1970 included a geophysical (Turam) survey and diamond drilling. The company name (Norcan) was changed in 1972 to Accent Resources Ltd.

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HISTORY OF PRODUCTION

In 1917, 239 tons of ore were shipped from this property. From this ore 2,232 ounces of silver and 73,200 pounds of copper were recovered.

REFERENCES

Preto, V.A.G.; Norcan Mines Ltd.; Report of Minister of Mines, British Columbia: 1967, pp. 91-97.

Reports of Minister of Mines, British Columbia: 1916, pp. 91, 125; 1917, p. 118; 1966, p. 92; 1968, p. 127.

Mineral Policy Sector; Corporation Files: "Accent Resources Ltd."; "Bethex Explorations Ltd."; "Pathfinder Resources Ltd."

MAP REFERENCES

#Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological compilation), Sc. 1":4 miles, British Columbia Dept. of Mines.

Preliminary Map 44-23, Smithers, (Geol.), Sc. 1":2 miles, Paper 44-23, Geol. Surv. of Canada.

Map 5309 G, Thautil River, (Aeromag.), Sc. 1":1 mile.

*Map 93 L/6, Thautil River, (Topo.), Sc. 1:50,000.

REMARKS

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