

## NAME OF PROPERTY

BV (EMPIRE)

OBJECT LOCATED - centre of property.

UNCERTAINTY IN METRES 400.

Lat. 54°47'

Long. 127°16'50"

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

A vein containing silver, lead, and zinc minerals is exposed on the mountain slope on the north side of the south fork of Simpson Creek. It follows a well-defined fault fissure in volcanic flow breccias of Jurassic age. These are invaded by a small diorite stock east of the vein fissure. At an elevation of 4,700 feet, an adit is driven 40 feet northwesterly along the vein, which strikes north 55 degrees west and dips 60 degrees southwest. At the portal the vein is 12 inches wide, and consists largely of massive galena and sphalerite, with minor chalcopyrite and pyrite. The vein narrows along the adit, and the fault fissure is barren at the face. The vein also pinches out 60 feet above the adit along a 36-degree slope.

On the south side of the basin of the South Fork of Simpson Creek, a well-defined shear zone extends for 600 or 700 feet up steep bluffs of andesitic volcanic rocks. The zone strikes north 35 degrees west and dips southwest 75 to 80 degrees. The wall-rocks are bleached to a pale yellow along the shear zone, and the altered rock contains stringers of galena and sphalerite - see Card 2 ....

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

## HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at the 5,500 foot elevation on Hudson Bay Mountain, at the head of the south fork of Simpson Creek, 4 miles west of Smithers.

The Empire group, comprising the Empire, Empress, Excelsior, Imperial, and Emperor claims, was staked by Simpson Brothers of Smithers in 1908. D.C. Simpson prospected the claims from time to time over a 30 year period. On the north side showings 2 adits were driven, one a 40 foot drift, and the other a 15 foot crosscut which did not reach the vein. On the south side showings 2 adits were driven and a 10 foot shaft sunk. One of the adits comprises a 70 foot crosscut and 135 foot drift, the other a 50 foot drift. Mrs. Simpson shipped 0.056 tons of ore to the Dept. of Mines Sampling Plant at Prince Rupert in 1938.

Sunset Empire Mining Company Limited was incorporated in November 1951 to acquire the Empire and adjacent properties. During 1952 one of the Empire showings was traced an additional 600 feet by trenching. No further work was reported. The company charter was surrendered in 1956.

Buval Mines Ltd. apparently acquired the property in about 1966 as the BV 1-6 claims. Geological mapping, and geochemical and geophysical surveys were carried out in 1966 over the 175 claims held by Buval. The company name was changed in 1969 to Buval Executive Mining Industries Ltd. By an agreement of June 1970 Buval optioned the 175 claims to Anmar Mining Ltd. The company name (Anmar) was changed in 1972 to Abaca Mining Ltd. The claims were subsequently allowed to lapse.

120823

## HISTORY OF PRODUCTION

In 1914, 3 tons of ore were shipped from this property. From this ore 644 ounces of silver and 1,540 pounds of lead were recovered.

A shipment of 0.056 tons to the Dept. of Mines Sampling Plant at Prince Rupert in 1938 assayed: Gold, 0.15 ounce and silver, 50.0 ounces per ton; copper, 0.5%; lead, 15.0%; zinc, 10.4%.

## REFERENCES

Kindle, E.D.; Mineral Resources, Hazelton and Smithers Areas, Cassiar and Coast Districts, British Columbia; Memoir 223 (Revised Edition), p. 93, Geol. Surv. of Canada, 1954.

Reports of Minister of Mines, British Columbia: 1909, p. 84; 1912, p. 115; 1914, p. 225; 1920, p. 90; 1921, p. 272; 1924, p. 96; 1925, p. 137; 1926, p. 132; 1928, p. 161; 1929, p. 164; 1938, pp. B 37, C 49; 1952, p. 94.

Jones, R.H.B.; Geology and Ore Deposits of Hudson Bay Mountain, Coast District, B.C.; Summary Report 1925, Pt. A., p. 136, Geol. Surv. of Canada.

Mineral Policy Sector; Corporation Files: "Buval Executive Mining Industries Ltd."; "Abaca Resource Industries Inc."

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1971, p. 177.

## 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.

Sketch Map of Hudson Bay Mountain, (Geol. and Mineral Deposits), Sc. 1":1 mile - accomp. Paper 36-20, Geol. Surv. of Canada.

Map 5319 G, Smithers, (Aeromag.), Sc. 1":1 mile.

\*Map 93 L/14 W, Smithers, (Topo.), Sc. 1:50,000.

#Claim Map 11 T 286 M, Hudson Bay Mountain, British Columbia Dept. of Mines.

## REMARKS

Comp./Rev. By	DMacR						
Date	12-75						

NAME OF PROPERTY

BV (EMPIRE)

## DESCRIPTION OF DEPOSIT (continued)

ite. At an elevation of 4,725 feet the shear zone is prospected underground by a 135-foot drift at the end of a 70-foot crosscut adit. A sample collected from a small heap of ore at the portal of the adit assayed: gold, 0.03 ounce a ton; silver, 7.45 ounces a ton; lead, 7.17 per cent; and zinc, 4.31 per cent.

Near the top of the bluffs, at elevation 5,200 feet, the same shear zone is prospected by a 50-foot drift adit and a 10-foot shaft. This adit was driven in 1914, and some 3 tons of ore are reported to have been shipped at the time from these workings.

Another showing, at an elevation of 5,200 feet at the head of the basin, is described as follows in the Annual Report of the Minister of Mines for 1929:

"It consists of a wide zone in volcanics striking north-south and dipping west, mineralized with galena and zinblend. Very little work has been done, but the zone can be traced on the surface for a considerable distance, and it is claimed that there are good showings farther up the mountain, but at the date of inspection the higher levels were under recent snow, so were not visited. A sample from a small cut across 24 inches of mineralized vein matter assayed: gold, 0.30 ounce a ton; silver, 6.0 ounces a ton; copper, 1.0 per cent; lead, 25.2 per cent. Another sample from a small cut about 700 feet north, across a stringer 5 inches wide, assayed: gold, 0.76 ounce a ton; silver, 7.0 ounces a ton; copper, 1.0 per cent; and zinc, 23.4 per cent."