

## NAME OF PROPERTY

BOOM, FRANKIE (KWANIKA)

OBJECT LOCATED - north zone at drill hole X2.

UNCERTAINTY IN METRES 100. Lat. 55°30'30" Long. 125°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

Granitic rocks of Lower Cretaceous age intrude Lower Jurassic basic units of the Hogem batholith along the border of the Pinchi fault zone. Within the silicified and potash feldspathized hybrid zone created by the intrusion, pyrite with minor chalcopyrite and molybdenite occur within local highly fractured zones. Pyrite is by far the most abundant sulphide, occurring as disseminations and fracture fillings in silicified and brecciated zones. A north and south mineralized hybrid zone is separated by a wedge of Triassic Takla Group banded argillites. Diamond drill core indicates that an increase in visible chalcopyrite occurs in mafic-rich zones in the hybrid quartz bearing monzonite. Visible molybdenite was noted mainly as disseminations in quartz veins in these alteration zones.

Associated minerals or products of value - Molybdenum.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located on Kwanika Creek, some 25 miles east of Takla Landing. The mineralized zones on the Boom and adjacent claims are located from 3,000 to 9,000 feet south of the junction with West Kanika Creek.

The ground was first staked for copper by A. Almond. Hogan Mines Ltd. optioned the Boom and Frankie groups of 6 and 4 claims, respectively, in 1965 and adjacent staking was done to a total of some 200 claims. Exploration work during 1965 was confined to the Boom group and immediately adjacent claims and included bulldozer stripping along the banks of the creek, and 140 feet of x-ray diamond drilling in 2 holes.

Canex Aerial Exploration Ltd. optioned the property in 1966 and carried out geological, geochemical, and geophysical surveys, bulldozer trenching, and 2,807 feet of diamond drilling in 11 holes. The option was subsequently given up.

Hogan Mines carried out some geological work on the property in 1967. Great Plains Development Company of Canada Ltd. acquired an option on the property and during 1969 and 1970 carried out one line-mile of detailed induced potential survey and 4,324 feet of diamond drilling in 7 holes; the option was dropped in 1971.

The company name (Hogan Mines) was changed in 1972 to Bow River Resources Ltd. During the year the company carried out 1,800 feet of diamond drilling in 6 holes.

Pechiney Development Limited optioned the property and during 1973-1974 carried out geological mapping, frequency-domain induced potential and ground magnetometer surveys over 40 line-miles, and 9,820 feet of percussion drilling in 30 holes, 17 in the south zone and 13 in the north.

Reserves were reported at 36,000,000 tonnes at 0.2% copper (Porphyry Deposits of the Canadian Cordillera, Canadian Institute of Mining & Metallurgy, Special Volume 15, Table 1, #97, 1976).

Pechiney Development abandoned the option agreement. The company name (Bow River) was changed in 1979 to Suneva Resources Limited.

HISTORY OF PRODUCTION

REFERENCES

Reports of Minister of Mines, British Columbia: 1965, p. 105 \*\* ; 1966, p. 119; 1967, p. 119.

Minerals Development Sector; Corporation Files: "Canex Aerial Exploration Ltd."; "Great Plains Development Company of Canada, Ltd."; "Bow River Resources Ltd."

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 105; 1970, p. 180; 1972, pp. 440-447 + ; 1973, p. 365; 1974, p. 276.

Garnett, J.A.; Geology & Copper-Molybdenum Mineralization in the Southern Hogen Batholith, North-Central British Columbia; CIM Bulletin, Sept 1974, pp 101-106.

Garnett, J.A.; Geology and Mineral Occurrences of the Southern Hogen Batholith; Bulletin 70, pp. 53-62, British Columbia Dept. of Mines, 1978.

MAP REFERENCES

Map 844 A, Takla, (Geol.), Sc. 1":4 miles.

Map 907 A, Fort St. James, (Geol.), Sc. 1":6 miles - Accomp. Memoir 252.

Kwanika Creek Area, (Geol.), Sc. 1":3,300 ft. (approx.), Fig. 19 - accomp. Geology, Exploration, and Mining, 1970.

Kwanika Creek Area, (Geol.), Sc. 1":3 miles (approx.), Fig. 57 - accomp. Geology, Exploration, and Mining, 1972.

#Geology of the Kwanika Property, Sc. 1":1,500 ft., Fig. 59 - accomp. Geology, Exploration, and Mining, 1972.

\*Map 93 N/11, Kwanika Creek, (Topo.), Sc. 1:50,000.

Map 93 N/6, Indata Lake, (Topo.), Sc. 1:50,000.

Geology of the Southern Hogen Batholith, Sc. 1:125,000, Fig. 3, accomp. Bulletin 70, British Columbia Dept. of Mines, 1978.

Geology of the Kwanika Property, Fig. 21, accomp. Bulletin 70.

REMARKS

Comp./Rev. By	DMacR						
Date	11-76						