

NAME OF PROPERTY

KLONDIKE

OBJECT LOCATED - area of drilling.

UNCERTAINTY IN METRES 100. Lat. 54°22'15" Long. 126°33'20"

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 oldest and predominant geological units in the area are believed to be part of the Mesozoic Hazelton Group. The suite is mainly volcanic although shales and greywackes are recorded in a few drill logs. Biotite quartz feldspar porphyry is exposed in trenches in the main prospect area. Alteration of the porphyry has resulted locally in albitization and carbonatization of plagioclase phenocrysts and sericitization and kaolinization of the fine-grained constituents. Biotite is commonly slightly chloritized and hornblende, where it occurs, is generally converted to magnetite and chlorite. The main area of mineralization consists primarily of pyrite and subordinate chalcopyrite occurring as thin fracture fillings and fine-grained disseminations in the porphyry intrusion and adjacent volcanic rocks. Molybdenite is found in minor amounts as thin smears on fractures at the edge of the intrusion. Drill hole Nos. 1 and 2 cut what appeared to be altered porphyry with narrow seams of magnetite and minor chalcopyrite. A quartz-rich section of hole No. 2, between 240 and 260 feet, ran 0.28% copper. Hole Nos. 4 and 6 showed continuous sections of pyrite-bearing porphyry. Chalcopyrite was scarce, the highest assay showing only 0.14% copper. The core from hole No. 3 showed an abundance of disseminated magnetite which probably accounts for a high magnetic anomaly in the area.

Associated minerals or products of value - Molybdenum.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at the 3,100 foot elevation on the east side of Dungate Creek, 4 miles southeast of Houston.

The initial discovery of mineralization was made in a shallow excavation on the newly constructed Dungate Creek logging road about 1962. Subsequent trenching parallel to the road failed to reveal any important extension of the mineralization and the owners allowed the claims to lapse.

In July 1964, E. Westgarde of Houston restaked the showing as the Klondike and Star groups. Additional staking was done in 1965 to a total of 57 claims. Amax Exploration, Inc., optioned the property and carried out geological mapping, a magnetometer survey, a limited program of soil and rock geochemistry, and 3,000 feet of bulldozer trenching.

Early in 1966 Normont Copper Ltd. gained control of the Klondike 1-10, NC 1-40, and Star group, totalling 74 claims. Geochemical and induced polarization surveys were carried out. In 1967 another detailed induced polarization survey was carried out to locate diamond drill targets. Normont optioned the property to Noranda Exploration Company, Limited, in December 1967. Drilling by Noranda in 1968 was done in 7 holes totalling 2,000 feet. Holes Nos. 1, 2, and 3 were drilled to test combinations of induced polarization and magnetic anomalies; holes 4, 5, 6, and 7 were intended to test various combinations of induced polarization, magnetic, electromagnetic, and geochemical anomalies. Results were disappointing and the property remained dormant from 1969 to 1972.

In April 1972, R. Blusson restaked the Westgarde holdings for Chinook Resources Ltd.

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HISTORY OF PRODUCTION

REFERENCES

Church, B.N.; Star, Klondike (Hot, Chief); Geology, Exploration, and Mining, 1972, pp. 384-390, British Columbia Dept. of Mines. +
 Reports of Minister of Mines, British Columbia: 1965, p. 80; 1968, p. 138.
 Mineral Policy Sector; Corporation Files: "Mexxon Mines Ltd.".

MAP REFERENCES

Geology of the Buck Creek Area, Sc. 1":3-1/3 miles, Fig. 34 - accomp. Report by Church.
 #Plan of Mineral Showings on the Hot, Chief claims, Dungeness Creek Area, Sc. 1":430 ft., Fig. 45 - accomp. Report by Church, p. 389.
 Map 671 A, Houston, (Geol.), Sc. 1":4 miles (1942).
 Map 5308 G, Houston, (Aeromag.), Sc. 1":1 mile.
 *Map 93 L/7 E, Houston, (Topo.), Sc. 1:50,000.

REMARKS

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