

NAME OF PROPERTY CRIS, CLEO, SUMMIT, LANA (BEAVER DAM)

OBJECT LOCATED - Drilled area.

UNCERTAINTY IN METRES 300. Lat. 54°37'35" Long. 126°16'20"

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

Drilling to the east of the Topley Landing road resulted in the discovery of Topley granitic rocks containing pyrite, chalcopyrite, and molybdenite. Where relatively unaltered, these rocks are fine-grained massive granodiorites, light grey in colour and consisting of quartz, plagioclase with incipient sericite alteration, fresh K-feldspar, hornblende nearly totally altered to green biotite, and primary biotite altered to chlorite. Better grades of mineralization apparently occur in intensely altered varieties of granodiorite which are buff in colour and consist essentially of quartz, sericite, and carbonate. Chalcopyrite, molybdenite, and pyrite occur most commonly as selvages or disseminations in one-eighth to one-quarter-inch quartz veinlets commonly rimmed by secondary K-feldspar. The mineralization is covered by about 100 feet of drift.

Associated minerals or products of value - Molybdenum.

HISTORY OF EXPLORATION AND DEVELOPMENT

The mineralized zone occurs at about the 3,700 foot elevation on the lower northwesterly slope of Tachek Mountain, approximately 8 miles north of Topley. Claim staking and exploration work has covered much of the area at the head of Redtop, Holmes, and Tachek Creeks, but apparently only this one mineral occurrence has been found.

The Beaver Dam group of 6 claims, owned by George Findlay and E.E. Orchard in 1926, was located on a granodiorite-volcanic contact on Redtop Creek.

The Summit 1-49 claims were staked by Summit Oils Limited following the release of aeromagnetic maps of the area in early 1969. A reconnaissance geochemical soil survey (192 samples) were carried out in 1969. A magnetometer survey over 20.5 line-miles, and an induced polarization survey over 15 line-miles were completed in 1970. Diamond drilling showed the magnetic anomaly adjacent to Redtop Creek to be due to the presence of Tertiary basalt. Adjacent claims (about 150) in the Lana, Joe, and Hull groups, apparently staked by the Topley Joint Venture which was comprised of R.D. Westervelt, J.K. Campbell, L.G. White, and R.C. O'Brien, were optioned by Whitesail Mines Ltd. and Mercury Explorations Limited as a joint venture. Additional claims were acquired by staking in the Cleo group. Work during 1970 included magnetometer, electromagnetic, induced potential, and geochemical soil surveys on the Joe, Hull, and Cleo claim groups. The option was subsequently given up.

By 1972 some 206 claims in the Summit, Lana, Cleo, Cris, and other groups, were owned 65% by the Topley Joint Venture and 35% by Summit Oils and Delbrook Mines Limited. Ducanex Resources Limited, owned 50-50 by Lacanex Mining Company Limited and Du Pont of Canada Limited, optioned the property in June 1972. Work during 1972 included geological mapping, an induced polarization survey over approximately 20 line-miles covering most of the claims, and diamond drilling in 17 holes totalling approximately 6,000 feet covering mostly the Cris claims. Drilling indicated a large linear induced polarization anomaly adjacent to the Topley Landing road to be caused by a graphitic siltstone horizon within Triassic or older rocks. Further drilling to the east of the Topley Landing road resulted in the discovery of

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HISTORY OF PRODUCTION

REFERENCES

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 119; 1970, p. 157; 1972, p. 394 +; 1973, p. 343.

Mineral Policy Sector; Corporation Files: "Summit Oils Limited"; "Whitesail Mines Ltd."; "Ducanex Resources Limited"; "Lacanex Mining Company Limited".

Report of Minister of Mines, British Columbia: 1926, p. 143.

MAP REFERENCES

#Lennac Lake-Redtop Creek Area, (Geol.), Sc. 1":1 mile, Fig. 48, Geology, Exploration, and Mining, 1972, British Columbia Dept. of Mines.

Map 671 A, Houston, (Geol.), Sc. 1":4 miles (1942).

Map 5312 G, Topley, (Aeromag.), Sc. 1":1 mile.

*Map 93 L/9 W, Topley, (Topo.), Sc. 1:50,000.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

Topley granitic rocks containing chalcopryrite and molybdenite. In 1973 percussion drilling was done in 10 holes totalling 2,520 feet on Chris 38, 41, 45, 46, Cleo 19, and Summit 44. The option was subsequently given up.

REMARKS

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| Date | 12-75 | | | | | | |

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