

## NAME OF PROPERTY

RED TOP, BORNITE, DOCIA

OBJECT LOCATED - Lower adit.

UNCERTAINTY IN METRES 300.

Lat. 56°07'30"

Long. 129°44'20"

Mining Division

Skeena

District

Cassiar

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

## OWNER OR OPERATOR

## DESCRIPTION OF DEPOSIT

Two showings occur on the property, a vein of the silver-lead type and a chalcopyrite-bearing replacement deposit. The rocks cut by the vein are tuffs and lava flows of the Hazelton group. They dip gently northwestward, and are cut by dykes, some of which can be followed for distances of over a mile. The vein is 4,100 feet above sea-level, strikes N80°E, and dips 50 to 60° south. It has been traced by open cuts for a distance of 800 feet. It varies from 1 to 8 feet in width and contains galena, sphalerite, pyrite, and a little chalcopyrite in a gangue of quartz, calcite, barite, and jasper. In the vicinity of the chalcopyrite replacement deposit at the 2,900 foot elevation the rocks are approximately horizontal, fragmental volcanic rocks and possibly lava flows, and an interbed of argillite. Chalcopyrite is disseminated through the argillite and to a lesser extent through the immediately overlying volcanic rock. The size and shape of the mineralized area are not clearly outlined and the geological structure is not clearly understood. The bed of argillite is evidently offset by two normal faults. At 212 feet from the portal the adit cuts a vein-like body of pyrite and chalcopyrite 5 feet wide. This body has not been found on the surface. Chalcopyrite mineralization near the face of the adit is in argillite and in overlying volcanic rocks.

Associated minerals or products - Lead, silver, zinc.

## HISTORY OF EXPLORATION AND DEVELOPMENT

This property is located on the north side of the Bear River, just west of Cullen Creek, about 16 miles northeast of Stewart. The showings on the Red Top group lie between elevations of 2,900 and 4,000 feet. The Bornite (Black Bear) claims adjoin the Red Top on the northwest. The Docia claim lies at the 4,000 foot elevation east of and adjoining the Red Top.

The Red Top group was owned and under intermittent exploration by Messrs. McNeil and Erickson from 1908 until about 1916. By 1919 the property had been expanded to 14 claims, owned by the McNeil Bros. and J. Connors, of Stewart. During 1920 the claims were under bond to Gus Seiffert and associates, who drove several hundred feet of crosscut. In 1921 the owners resumed intermittent exploration and development work. The Red Top property, which includes the Red Top, Superior, and Amazon claim groups (Lots 4801-4804 and 4945-4951), was Crown-granted in 1929.

Exploration work to 1930 was done in open cuts and two crosscut adits, one at elevation 3,865 feet to explore the silver-lead vein, and the other at an elevation of about 2,900 feet to explore the chalcopyrite replacement deposit. The upper adit was driven through 370 feet of greenstone to under the outcrop and crosscutting to the west was begun but at last report the vein had not been found. The lower crosscut was driven for 330 feet.

The Docia claim was located by the McNeil Bros. in 1929 on a newly discovered galena vein up to 14 inches wide containing a little pyrite and chalcopyrite. Exploration work on the vein was done in two open cuts, 50 feet apart.

The Bornite group of 6 claims, owned by Nick Gillof and associates, was located in 1930 as a restaking of the old Black Bear property; the Black Bear claim (Lot 1553) was Crown-granted to the D.A. Robertson estate in 1916. Surface exploration only has been reported on these chalcopyrite and galena showings.

The Red Top and Bornite groups were subsequently acquired, and held for many years, by the Quickstad family. United Asbestos Corporation Limited, working on a 50-50 partnership basis with Price Bros. of Quebec City, obtained an option on the property in 1967. Work during the year included retimbering 325 feet of the "copper adit" in order to explore the copper mineralization by underground diamond

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Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa

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HISTORY OF EXPLORATION AND DEVELOPMENT (continued)  
drilling; four AX-size holes totally 146 feet were drilled. United Asbestos in 1968 continued work on the 21 optioned claims under the joint venture agreement with Terra Nova Explorations Ltd., a subsidiary of The Price Company Limited. The Copper adit at elevation 2,750 feet and the Silver adit at elevation 3,760 feet were surveyed and a geological out-crop map was prepared of the immediate areas. Diamond drilling totalled 1,996 feet in 8 holes, seven of which were in the vicinity of the copper adit, and the eighth to the west to explore the Erickson copper zone. The option was terminated later in the year.

Tournigan Mining Explorations Ltd. in March 1977 acquired a 100% interest in 21 Crown-granted claims from the Quickstad brothers of Seattle, executors of the will of Harry Quickstad. Trenching and geological mapping was carried out in 1978.

MAP REFERENCES

Map 216 A, Bear River Sheet, (Geol.), Sc. 1":1 mile - accomp. Memoir 159, Geol. Surv. of Canada.

#Map 217 A, Bear River, (Topo.), Sc. 1:50,000.

Bear Pass Property, (claim map), accomp. Rept. by D.R. Cochrane in Tournigan Mining Explorations Statement of Material Facts, 12/07/79, Vancouver Stock Exchange.

REMARKS

Comp./Rev. By			DMacR				
Date	6-67	10-74	8-79				

REFERENCES

Hanson, George; Portland Canal Area, British Columbia; Memoir 175, pp. 141, 109, 111, Geol. Surv. of Canada, 1935.

Reports of Minister of Mines, British Columbia:  
1910, p. 62; 1913, p. 92; 1919, p. 67; 1920, p. 56; 1921, p. 66; 1922, p. 77; 1923, p. 75; 1927, p. 95; 1928, p. 109; 1929, p. 99; 1930, p. 108; 1967, p. 36; 1968, p. 51.

Mineral Policy Sector; Corporation Files: "United Asbestos Corporation Limited"; "Tournigan Mining Explorations Ltd.".

Keyte, G.; Geological Report on the Bear Pass Property, Dec. 1978 - in Tournigan Mining Explorations Ltd. Statement of Material Facts, 12/07/79, Vancouver Stock Exchange.