

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

BLUE GROUSE & SUNNYSIDE

OBJECT LOCATED  
OBJET LOCALISÉ

UNCERTAINTY  
FACTEUR D'INCERTITUDE

Mining Division <i>Division minière</i>	Victoria	District <i>District</i>	Cowichan Lake
County <i>Comté</i>	Township or Parish <i>Canton ou paroisse</i>		
Lot <i>Lot</i>	Concession or Range <i>Concession ou rang</i>		
Sec <i>Sect.</i>	Tp. <i>Ct.</i>	R. <i>R.</i>	

Lat. 48°50'30"  
Long. 124°13'

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

Cowichan Copper Co. Ltd.,  
620 Howe St.,  
Vancouver, B.C.

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The formation consists of basaltic flows, tuffs, and agglomerates of the Franklin creek volcanics and a few remnants of the overlying Sutton limestone. These rocks are intruded by irregular bodies of feldspar porphyry. The bedded rocks strike northwest to northeast and dip 25 to 50 degrees eastward and westward. Post mineral slips and faults are numerous. Ten separate copper occurrences have been indicated in underground workings and in diamond drill holes. Of these only the "G" & "H" orebodies, the skarn zones on the footwall & hanging wall sides respectively of the post mineral fault have been opened extensively. This zone of garnet-epidote-actinolite skarn forms a southerwesterly plunging pipe-like body extending from the surface to the 1,100 level. This zone appears to coincide with the line of intersection of two shear zones.

The skarn is mineralized with chalcopyrite, pyrite, and pyrrhotite, which occur irregularly in it as stringers and small masses. The skarn evidently is a replacement of volcanic rock, probably fragmental in nature as there is evidence that the replacement was controlled by fracturing.

HISTORY OF EXPLORATION AND DEVELOPMENT  
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The property is located on the south side of Cowichan Lake, about 3 miles northwest of Honeymoon Bay. It consists of 3 Crown-granted claims and 60 claims held by record covering two old properties, the Blue Grouse & Sunnyside groups.

The Sunnyside and Here-it-is claims were located by Messrs. Douglas, Shelton, and Prevost in about 1906; development work at this time amounted to a few open cuts and a short adit. Further work was done on this group by J.O. Grayson of Victoria in 1917.

The Blue Grouse group was located in about 1915 and exploration of the main showing was begun by means of a short adit. In the fall of 1916 the property was leased to Messrs. Ketchen & Miller of Victoria who made an agreement with the Empire Lumber Co., owner of the surface rights, allowing them to ship ore.

Messrs. Ketchen & Miller sold their interests in the property to the Consolidated Mining & Smelting Co. of Canada Ltd. in 1917. A program of diamond drilling and underground development was carried on during 1917-18 and then the property was abandoned.

In 1928 the Pacific Tidewater Co. leased the Blue Grouse group from the Empire Lumber Co. A crosscut tunnel was driven 85 feet along the line of the last diamond drill hole; the option was dropped in 1929 and no further work was done on the property until 1952.

The Cowichan Copper Co. Ltd. acquired the property in 1952 and began development work in an adit which was started in 1918. The mill went into operation in December 1957. In November 1960 mining & milling was suspended after available ore reserves above the 1,100 level were depleted.

The mine is developed by two adits, the main haulage or 1,100 level and the upper or 1,340 level, and two sub-levels, the 1,280 and 1,430. The ore mined came from the E, G, H, J & M orebodies and from No. 5 pit extending from above 1,340 level to the surface. Additional ore was obtained by slashing in the G north zone and Sunnyside open pits.

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

From 1917 to 1960, 274,807 tons of ore were shipped from this property. From this ore, 7 ounces of gold, 80,656 ounces of silver, and 15,022,749 pounds of copper were recovered.

REFERENCES/BIBLIOGRAPHIE

Annual Reports, Dept. of Mines, B.C.: 1906, p. 212; 1915, p. 290; 1916, pp. 312, 366; 1917, pp. 267-268; 1918, pp. 299, 307; 1927, p. 339; 1928, p. 364; 1929, p. 370; 1952, p. 213; 1953, p. 170; 1954, p. 166; 1955, p. 79; 1956, pp. 120-122; 1957, pp. 69-71; 1958, p. 60; 1959, pp. 138-140; 1960, p. 115.

Fyles, J.T.; Geology of the Cowichan Lake Area, Vancouver Island, B.C., Bulletin No. 37, pp. 54-57, Dept. of Mines, B.C., 1955.

Mineral Policy Sector; Corporation Files: "Cowichan Copper Co. Ltd."; "Consolidated Mining & Smelting Co. Ltd." - annual reports 1918 & 1919.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Bulletin No. 37, Fig. 2, Cowichan Lake Area, B.C., (Geol.), Sc. 1":1 mile, Dept. of Mines, B.C.

Map 17 A, Southern Vancouver Island, B.C., (Geol.), Sc. 1":6 miles - accomp. Mem. 13.

Map 92 C/16 (East Half), Cowichan Lake, B.C., (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par							
Date Date	09-63						