

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

BIG SIOUX

OBJECT LOCATED  
OBJET LOCALISÉ

UNCERTAINTY  
FACTEUR D'INCERTITUDE

Mining Division  
Division minière

Nicola

County  
Comté

Lot  
Lot

Sec  
Sect.

Lat. 49°57.4'  
Lat.

District  
District

Township or Parish  
Canton ou paroisse

Concession or Range  
Concession ou rang

Tp.  
Ct.

Long. 120°35.4'  
Long.

Kamloops

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The Aspen Grove copper area is about 8 miles long, extending from just north of Missezula Lake to about latitude 50°00' and is from 2 to 2.5 miles wide. Chalcopyrite, bornite, chalcocite and some pyrite occur in shear zones in volcanic rocks of the Nicola group. These mineralized shears, although in places high in grade, are restricted in size. Copper minerals also occur as disseminations in the interstices between fragments of flow breccia. Both types occur on the Big Sioux property and workings, consisting of a number of adits, shallow shafts and opencuts, have exposed mineralization over wide areas.

HISTORY OF EXPLORATION AND DEVELOPMENT

HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

The Big Sioux group of claims is located in the centre of the Aspen Grove Copper area. Copper mineralization was found here on the Big Sioux claim in 1899. In 1919 the property was taken over by the Aspen Grove Mining Company who were unsuccessful in finding an orebody. In 1918, the property, consisting of 60 claims, was acquired by Aspen Grove Amalgamated Mines, Limited, and between then and 1920 considerable diamond drilling was done. In 1929, 32 claims, including the Big Sioux were purchased by Morgan Copper Mines, Limited. However, due to the depression this company had no opportunity to develop the property.

In 1956 Noranda Explorations held 102 claims and 19 fractions in the Aspen Grove area, including the Big Sioux property. An exploration program, consisting of geological mapping, geophysical surveys, diamond drilling and bulldozer stripping was carried out; however, no orebody was located. Although mineralization was found over broad widths, the grade averaged less than a half of one per cent copper.

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

REFERENCES/BIBLIOGRAPHIE

Rice, H.M.A.; Geology and Mineral Deposits of the Princeton Map-Area, British Columbia; Mem. 245, pp. 93, 94, Geol. Surv. of Canada, 1947.

Olien, K.O.; Geology and Mineral Deposits of the Aspen Grove Area, B.C.; B.Sc. Thesis, University of Western Ontario, 1957.

Annual Reports, Dept. of Mines, B.C.: 1899, p. 742; 1900, p. 899; 1901, p. 1181; 1913, p. 232; 1915, p. 224; 1917, p. 233; 1928, p. 233; 1929, p. 246.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 888 A, Princeton, (Geol.), Sc. 1":4 miles - accomp. Mem. 213.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par							
Date Date	11-63						