

NAME OF PROPERTY  
NOM DE LA PROPRIÉTÉ

AURORA, GUINDON

OBJECT LOCATED - Aurora claim (Lot 7017).  
OBJET LOCALISÉ

UNCERTAINTY FACTEUR D'INCERTITUDE	Lat. 49°17'10"	Long. 115°50'50"
Mining Division Division minière	Fort Steele	District District
County Comté		Township or Parish Canton ou paroisse
Lot		Concession or Range Concession ou rang
Sec Sect.	Tp. Ct.	R. R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

A host rock of thin bedded Precambrian quartzites and argillaceous quartzites of the Aldridge Formation strike northeasterly and dip 20° northwest. On the Aurora group a main vein striking N75°W and dipping 60° south varies in width from 1 to 4' and averages about 2'. Coarse crystalline galena and sphalerite occur locally in lenses in a quartz gangue. An apparently parallel vein with vertical dip occurs about 80' south and was explored from the shaft.

The main vein on the Guindon group lies about 700' north of the Aurora vein. It strikes east-west, dips 60° south, and has a width of 4 to 5'. Galena and sphalerite occur in occasional small porkets or lenses. Another vein is reported to strike N44°W and dip 60° southwest.

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

These adjacent properties are located on the west side of Moyie Lake some 24 km south-southwest of Cranbrook. The showings were considered to be on the same fracture zone as the St. Eugene mine on the other side of the lake; hence the showings have attracted more attention than would otherwise be expected.

The Aurora group, comprising the Etna, Durango, Aurora, Horseshoe and Portland claims (Lots 7015-7017, 7022, 7205 respectively) was owned from 1898 or earlier by I.B. Sanborn of Portland Oregon and associates Messrs. Johnson and Rader. Development work was begun in open cuts and a drift adit. The claims were Crown-granted in 1906. Aurora Mining and Milling Company, Limited, incorporated in 1908, acquired an option on the property and development work continued into 1910. The workings included 3 adits totalling about 950' of drift and crosscut. Between No. 2 and 3 adits a shaft was sunk 80' with 180' of drift to the west. Five claims staked adjoining on strike to the west (Lots 2167-69, 2330, 2331) were Crown-granted to F. Guindon, J.A. Harvey and associates in 1910; no development work is reported on these claims.

The Guindon, Ferole, and Alice Fr. claims (Lots 6127, 9806, 1907 respectively), located adjoining the Aurora group on the north, were Crown-granted to F. Guindon, J. Gosselin and associates in 1914. By 1923 the workings included about 750' of drift and crosscut in 2 adits on No. 1 vein, and a 400' drift adit on No. 2 vein.

St. Eugene Extension Mines, Limited was incorporated in 1929 to acquire the Guindon group, an option on the Aurora, and a lease on the St. Eugene. A winze was sunk from the Aurora No. 2 adit and the upper (No. 3) adit was extended. St. Eugene Mining Corporation, Limited was incorporated in 1939 to acquire the holdings of the former company. A geological survey was carried out and some of the adits on the Aurora and Guindon groups were re-opened and examined. Diamond drilling was done in 2 holes on the Aurora in 1940.

St. Eugene Mining Corporation carried out joint exploration in 1962-63 with Consolidated Mining and Smelting, owner of the St. Eugene property on the east side of the lake. Falconbridge Nickel Mines, Limited in 1965-66 carried out geophysical and geochemical surveys and diamond drilling

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**HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION**

Production for the period 1910-1927 includes 2,458 tons from the Aurora and 31 tons from the Guindon for a total of 2,489 tons. From this ore 9,793 oz of silver, 410,803 pounds of lead, and 696,536 lbs of zinc were recovered.

**REFERENCES/BIBLIOGRAPHIE**

Reports of Minister of Mines, British Columbia: 1898, p. 1012; 1899, p. 660; 1900, p. 799; 1901, p. 1006; 1902, p. 131; 1905, p. 140; 1906, p. 251; 1907, p. 84; 1908, p. 85; 1909, pp. 83<sup>+</sup>, 87; 1910, pp. 90, 247; 1911, p. 121; 1912, p. 137; 1913, p. 121; 1914, p. 513; 1917, 150<sup>+</sup>; 1919, pp. 115, 148; 1923, pp. 205, 206<sup>++</sup>; 1924, p. 186; 1926, p. 243; 1927, p. 266; 1929, pp. 295, 447; 1930, p. 240; 1940, p. 82; 1941, p. 76; 1962, p. 85; 1965, p. 199.

+++Schofield, J.S.; Geology of the Cranbrook Map-Area, British Columbia; Memoir 76, pp. 123, 125, Geol. Surv. of Canada, 1915.

Mineral Policy Sector; Corporation Files: "St. Eugene Mining Corporation, Limited".

**MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES**

Map 11-1960, Fernie (West Half), (Geol.), Sc. 1":2 miles, Geol. Surv. of Canada.

#Map 82 G/5, Moyie Lake, (Topo.), Sc. 1:50,000.

**HISTORY OF EXPLORATION AND DEVELOPMENT (continued)  
HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR**

under an agreement with the above companies. The 1960's work was confined mainly to the east side of the lake.

**REMARKS/REMARQUES**

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	09-83						