

PRODUCT PRODUIT	FLUORSPAR <i>Fluorite</i>	PROVINCE OR TERRITORY	PROVINCE OU TERRITOIRE	British Columbia	N.T.S. AREA 94 M/9 RÉGION DU S.N.R.C.	REF. FSP 1 RÉF.
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NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

TAM

OBJECT LOCATED - Tam showing.
OBJET LOCALISÉ

UNCERTAINTY 200 m
FACTEUR D'INCERTITUDE

Lat. 59°32'
Long. 126°05'

Lat.
Long.

Mining Division Liard
Division minière

District
District

County
Comté

Township or Parish
Canton ou paroisse

Lot
Lot

Concession or Range
Concession ou rang

Sec
Sect.

Tp.
Ct.

R.
R.

OWNER OR OPERATOR/PROPRIÉTAIRE OU EXPLOITANT

Liard Fluorspar Mines Limited

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The rocks in the area belong to the Middle Devonian Dunedin Formation and the Middle Devonian to Mississippian Besa River Formation. The former consists of fine-grained, commonly fossiliferous, light and dark grey and black limestone. The overlying Besa River Formation consists mainly of hard black thin-bedded argillite. In most places it is blocky but may be slaty or sometimes shaly.

At the Tam showing thin bedded siliceous black argillite that strikes northeast and dips an average of 45 degrees southeast overlies rather massive grey fine-grained fossiliferous limestone. Along the contact there may or may not be brecciation of limestone or argillite or both. Local minor folds or rolls in the bedding are present in the argillite as shown by the exposure near the centre of the workings. The irregular westerly protrusion of argillite breccia in the north central part of the showing may be due to a synclinal fold, or alternatively to a southwesterly striking fault.

Mineralization is present chiefly in limestone or argillite breccia and sometimes is so abundant that the original

p.t.o.

associated minerals or products - Barium.
minéraux ou produits associés

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

The Tam showings are located at the 3,700 foot elevation between Teeter Creek and the head of Mould Creek, 8 miles north of the Alaska Highway at Mile 497.

The discovery of fluorite near the Liard River Hot Springs was first reported in the summer of 1953 (Gem property, 94 M/8, FSP 1). The area north of the Gem property was explored during 1971-1972 by Conwest Exploration Company Limited, Jorex Limited, and J.R. Woodcock Consultants Ltd. A number of new showings, including the Tam, Camp, Coral, Tee, and Strap, were located and some 785 claims staked covering an area about 10 miles by 10 miles. Work on the Tam showing in 1971 included geological mapping, trenching, stripping, and 1,891 feet of diamond drilling in 14 holes on Tam 2, 4, and West 55, 57. This drilling indicated a potential of over 500,000 tons averaging 36.7% CaF₂. (Ref. Jorex Limited, Filing Statement, May 1972). Bulk samples for metallurgical testing were obtained from the Tam and Coral showings.

Liard Fluorspar Mines Limited was incorporated in June 1972 by Conwest (47.5%) and Jorex (42.5%). Exploration work indicated that fluorite occurs in relatively small deposits over a large area. Work was suspended in 1972; work to date established geological reserves of about 2.6 million tons averaging 30% fluorite, in several deposits (Conwest Exploration Company Limited, 1981 Annual Report). By 1981 the property had been reduced to 45 claims.

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DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

rock is difficult to recognize. The highest grade mineralization appears to be in limestone breccia. The fluorite is either fine grained and black or coarse and some shade of purple. At the northwest corner a 16-foot-wide vein contains light green to white fluorite and coarse white calcite. A 2.5-foot-wide horse of limestone is enclosed in the centre of the vein. The most abundant barium mineral is witherite with lesser barite and barytocalcite. Small vugs are scattered through the mineralized matter.

REFERENCES/BIBLIOGRAPHIE

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1971, p. 462; 1972, pp. 587-595.

Mineral Policy Sector; Corporation Files: "Conwest Exploration Company Limited"; "Jorex Limited".

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 49-1962, Rabbit River, (Geol.), Sc. 1":4 miles.

#Fluorite-witherite occurrences near Liard River Hot Springs Park, Sc. 1":1.5 miles, Fig. 70.

#Geology of the Tam Showings, Sc. 1":125 ft., Fig. 72, Geology, Exploration, and Mining, 1972.

*Map 94 M/9 E, Teeter Creek, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR		DMacR				
Date Date	09-76	01-79	05-83				

BCI 94 M - 5,7,8,10,11