

PRODUCT COPPER  
PRODUIT

PROVINCE OR PROVINCE OU  
TERRITORY TERRITOIRE British Columbia

N.T.S. AREA 103 I/9  
RÉGION DU S.N.R.C.

REF. CU 16  
RÉF.

NAME OF PROPERTY ALVIJA (LUCKY JIM)  
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - #81, Map 69-1.  
OBJET LOCALISÉ

UNCERTAINTY 600 m FACTEUR D'INCERTITUDE	Lat. 54°34' Lat.	Long. 128°11' Long.
Mining Division Omineca Division minière	District District	Range 5 Coast
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

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT

The property is underlain by Hazelton Group volcanic rocks of Lower (?) and mid Jurassic age. Tuffs and breccias of dacite to dacitic-andesite are intensely fractured and sheared and locally intruded by a 6-foot diorite dyke. Three showings, the Main, North and Chris have been identified; the North is 1,500' NW of the Main; the Chris is 2,500' to the east. The adits exposed a 4 to 6 inch shear zone mineralized with bornite and chalcopyrite, with small veinlets of bornite in the adjacent wallrock. In the Main surface showing, bornite occurs in fractures spaced 2 to 5 inches apart but more commonly as disseminations in the rock matrix. A chip sample across an exposed width of 25' assayed: Copper, 3.6%; silver, 1.9 oz/t. The Main showing locally contains four zones, cut by drill hole B-1 in 1969; the four successive intersections were:

width (ft)	Cu (%)	Ag oz/t
5.5	0.70	
18.2	0.74	
4.7	0.66	
7.0	1.71	1.05

p.t.o. ...

Associated minerals or products - Silver,  
Minéraux ou produits associés

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

The property is located at 2,100' elevation on the north side of Kleanza Creek some 17 miles east-northeast of Terrace.

The Lucky Jim claim was staked in 1908 and other claims, to a total of 5, were staked in subsequent years. Yearly assessment work by owner Fred Forrest, of Usk, was done in open cuts, an inclined shaft and drift adit.

The Federal Mining and Smelting Company, of Wallace, Idaho, optioned the property late in 1923. About 35 feet of adit was driven before the Company abandoned the option in 1924. The Consolidated Mining and Smelting Company of Canada Limited optioned the property in 1928. The adit was extended and a new adit driven before the option was abandoned in 1929. The last work reported on the property by Mr. Forrest was in 1930. The workings at that time included open cuts and a 20' inclined shaft on the Lucky Jim claim, and two adits on the Idaho claim about 1,000' northwest of the shaft. The upper adit, at 2,100' elevation was driven 90'. The lower adit, 50' below the upper and on the same mineralized fault zone, was driven 160'.

Union Carbide Exploration Ltd mapped and sampled the showings in 1966. Alviija Mines Ltd in 1967 acquired 108 claims in the Alviija, Alpine and Sioux groups, including the former Lucky Jim ground. Work during 1967-69 included geological mapping, a geochemical soil survey, bulldozer trenching, and 4,187' of diamond drilling in 11 holes. Reserves were estimated in 1968 at 200,000 tons averaging 4% copper and 2 oz/t silver (Western Miner, October 1968, p. 154). Subsequent diamond drilling demonstrated the mineralized zones to be of more limited extent.

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DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

The diamond drilling indicated these mineralized zones to be of limited extent.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia: 1908, p. 65; 1909, p. 84; 1914, p. 126; 1920, p. 83; 1923, p. 103; 1924, p. 88; 1925, p. 126; 1926, p. 125; 1928, p. 146; 1929, p. 152; 1930, p. 137; 1967, p. 82; 1968, p. 107.

Geology, Exploration and Mining; British Columbia Dept. of Mines: 1969, p. 82+; 1970, p. 193.

Kindle, E.D.; Mineral Resources, Usk to Cedarvale, Terrace Area, Coast District, British Columbia; Memoir 212, p. 16, Geol. Surv. of Canada, 1937.

Hanson, George; Reconnaissance in Zymoetz River Area, Coast District, B.C.; Summary Report 1925, Pt. A., p. 114, Geol. Surv. of Canada.

Mineral Policy Sector; Corporation Files: "Alvija Mines Ltd."

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 1136 A, Terrace, (Geol.), Sc. 1":4 miles - accomp. Memoir 329, Geol. Surv. of Canada, 1964.

#Map 69-1, Geological Compilation Map, Sc. 1":4 miles, B.C. Dept. of Mines.

\*Map 103 I/9, Usk, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR						
Date Date	12-84						