

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

UNION

OBJECT LOCATED - Union claim (Lot 1022).
OBJET LOCALISÉ

UNCERTAINTY 300 m
FACTEUR D'INCERTITUDE

Lat. 49°33'25"
Lat.

Long. 118°21'20"
Long.

Mining Division Greenwood
Division minière

District
District

Similkameen

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

Palaeozoic to Triassic greenstone and Tertiary sedimentary and volcanic rocks underlie the property. A westerly trending structure from 5 to 25' wide is mineralized with pyrite, galena, sphalerite and a little chalcopyrite and pyrargyrite in a gangue of quartz and fractured greenstone. Economic boundaries had to be determined by sampling. In the lower levels of the mine only isolated patches of ore were found. Gold assays of from \$30 to \$100/ton in the upper workings probably represent a zone of secondary enrichment. The occurrence of platinum has been noted in a quartz vein (Open File 1986-7, p. 49, BCDM).

Associated minerals or products - Silver, zinc, lead, copper,
Minéraux ou produits associés

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

The property is located at 3,000' elevation on the east side of Mount Franklin, some 60 km north of Grand Forks.

The property was one of the first staked in the 'Franklin Camp' although it was recorded under a different name and allowed to lapse. In 1906 the ground was restaked by L. Johnson & associates as the Union (Lot 1022 S), Paper Dollar (Lot 1677 S) and Idaho (Lot 1679 S); the Union claim was Crown-granted in 1914. The Evening Star claim (Lot 1321 S), adjoining to the south, was staked in 1903 and Crown-granted in 1919 to H. Kerman and W. Dewdney. In carrying out the yearly assessment work very high gold assays were discovered on the Union claim in 1912. Subsequent mining operations were carried out in a glory hole and three adits in the period 1913 to 1920. Ore was shipped at high cost to the smelter at Grand Forks, and later to Trail. The owners in 1920 organized the Union Mining and Milling Company, Limited to finance further operations, with little success.

Hecla Mining Company, of Wallace Idaho optioned the property late in 1927. Development work in 1928 included a new lower level adit. A 150 ton per day mill was installed in 1929 and put into operation in 1930. The workings in 1930 comprised 3,250' of drifts and crosscuts in 4 adits over a vertical range of 424 ft. The mill closed early in 1933 due to lack of ore. Later that year a cyanide plant was installed to treat mill tailings; the tailings were estimated at about 100,000 tons at 0.05 oz/t Au, 2.0 oz/t Ag (Report of Minister of Mines, B.C., 1933, p. 148). Exploration work in search of additional ore included, in 1933, 1,970' of crosscuts and drifts, 727' of raises and 2,567' of diamond drilling. The mill processed ore remnants and tailings in 1934-36.

Lessees A.J. Fee, W.E. McArthur and C.E. Small in turn carried out separate mining operations in the period 1937-47; development work reported in that period included 240' of drifts, 255' of raises and 550' of diamond drilling.

Mustang Resources Ltd leased the property from Hecla in 1971. The company carried out a closed circuit leach operation on the tailings dump for several months but it proved uneconomic.

see Card 2

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HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

From 1913 to 1946 inclusive, 188,680 tons of ore were shipped from or milled at this property. From this ore 55,098 ounces gold, 1,379,962 ounces silver, 27,922 lbs copper, 371,579 lbs lead and 660,255 lbs zinc were recovered.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia:
 1913, p. 168; 1914, p. 341+; 1915, p. 201; 1917, p. 198; 1918, p. 207; 1919, p. 163; 1920, p. 152++; 1922, p. 169; 1925, p. 193; 1926, p. 205; 1927, p. 225; 1928, p. 241; 1929, p. 254; 1930, p. 226; 1932, p. 121; 1933, p. 148; 1934, p. D 3; 1935, p. D 11; 1936, p. D 56; 1937, p. D 32; 1940, p. 63; 1942, p. 59; 1947, p. 157;

Geology, Exploration and Mining, BCDM: 1971, p. 398.

Exploration in British Columbia; BCDM: 1980, p. 39; 1986, pp. A24, A60.

Drysdale, C.W.; Franklin Mining Camp, British Columbia; Memoir 56, p. 168, Geol. Surv. of Canada, 1915.

Thomlinson, Wm.; Sampling of Some Palatinum-bearing Lodes; Munitions Resources Commission, Canada, Final Report, 1920, p. 161.

Summit Ventures Inc, Filing Statement 140/86.

George Cross News Letter: 1986, No. 48; 1987, No. 182, 203.

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 6-1957, Kettle River (West Half), (Geol.), Sc. 1':4 miles, Geol. Surv. of Canada.

Map 97 A, Franklin Mining Camp, (Geol.), Sc. 1":2,000' - accomp. Memoir 56.

Sketch of Union Group, Report of Minister of Mines, B.C., 1914, p. 342.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	DMacR					
Date Date	11-86	03-88					

PRODUCT PRODUIT	GOLD	PROVINCE OR TERRITORY	PROVINCE OU TERRITOIRE	British Columbia	N.T.S. AREA RÉGION DU S.N.R.C.	82 E/9	REF. AU 1 RÉF.
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NAME OF PROPERTY NOM DE LA PROPRIÉTÉ	UNION
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HISTORY OF EXPLORATION AND DEVELOPMENT (continued) HISTORIQUE DE L'EXPLORATION ET DE LA MISE EN VALEUR

Pearl Resources Ltd apparently optioned the property from Hecla in 1979, staked adjacent ground to the west (Spring 1 claim) and acquired several old properties on the west slope of the mountain. Work in 1979-80 on the Union included geological mapping and 675 m of diamond drilling in 5 holes. Work in 1984 included rehabilitation of underground workings, limited geochemical sampling, trenching, diamond and percussion drilling.

Summit Ventures Inc in 1986 acquired control of 24 K Mining Inc, which had optioned the Union property from Pearl Resources in 1985. Probable reserves underground were reported as 14,000 tons at 0.458 oz/t Au, 22.45 oz/t Ag. When combined with surface dumps and mill tailings the probable is 109,100 tons at 0.10 oz/t Au, 4.20 oz/t Ag (Summit Ventures Inc Filing Statement 140/86). The company name was changed in August 1986 to Sumac Ventures Inc. Work that year included 610 m of surface diamond drilling, underground rehabilitation, sublevel drifting and raising.

In 1987, Sumac optioned 24 claims to Placer Dome Inc. and Longreach Resources Ltd, holders of the adjoining Platinum Blonde property; the option gave the right to earn a 49% interest in any platinum related metals; diamond drilling in 1987 may have been in part on Sumac ground.

Sumac in 1987 began a heap leaching operation utilizing a combination of crushed dump material (18,000 tons at estimated grade of 0.065 oz/t Au) and mine tailings (77,000 tons at estimated grade of 0.046 oz/t Au, 1.4 oz/t Ag) (Northern Miner, 23/02/87, p. 23).