

NAME OF PROPERTY **YANKEE GIRL, ATLIN**

OBJECT LOCATED - adit, 1235 level.

UNCERTAINTY IN METRES 100. Lat. 49°17'15" Long. 117°11'23"

Mining Division	Nelson	District	Kootenay
County	Township or Parish		
Lot	Concession or Range		
Sec	Tp.	R.	

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The country rock is Lower Jurassic (?) and older Ymir Group slates, argillites and argillaceous quartzites at the contact with a mass of the Nelson batholith (Lower Cretaceous ?) which trends northeasterly through the area.

The main Yankee Girl vein is in a fissure, generally 4 to 6 feet wide, striking north 60 to 70 degrees east and dipping 55 to 70 degrees southwest with an average dip close to 65 degrees. It averages about 4½ feet wide; has a maximum width of about 30 feet, but in productive sections does not exceed 12 feet. The vein fissure is filled with quartz and crushed country rock and is mineralized with pyrite, galena, and sphalerite. The distribution of the values is erratic; some sections are very high grade, but values in these may disappear as rapidly as they enter. In most cases the ore forms fairly well-defined shoots raking to the east. On most of the levels the eastern termination of the Yankee Girl vein is against a northeasterly fault zone known as the "Lakeview vein".

see Card 2

Associated minerals or products of value - Silver, lead, zinc, cadmium.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at approximately 3,600 feet elevation on the north side of Oscar Creek, 1 mile east of Ymir.

The Yankee Girl, Canadian Girl, and Atlin claims were staked in October 1899 by Messrs. Graham, Grobe, McLeod, Masterton, and Lovell. Development work was done in a series of open cuts, a shaft, and an adit ("Overland Tunnel") which gained a depth of 50 feet on the vein. In 1904 the Atlin and adjacent Nome and Yukon claims were held by Pat Daly, A. Parr, Wm. Coffey and associates. The Atlin-Nome workings included a shaft to 60 feet with a 50 foot crosscut to the north, and a 315 foot crosscut adit and drifts on the vein. On the Yukon claim an adit had been driven 245 feet. The Yankee Girl (Lot 7712) and Canadian Girl (Lot 7072) were Crown-granted in 1907 to David Grobe, Donald McLeod, James Cronin, and Eber Moore. The Yukon Fr. (Lot 5303) was Crown-granted to Messrs. Daly, Coffey, Hughes and Ryan. In 1910 the Atlin (Lot 4800) and Atlin Fr. No. 2 (Lot 9336) were Crown-granted to William Coffey.

The property was bonded in 1907 by a syndicate of American interests. About 1,000 feet of development work was carried out and a tram line was built from the Yukon claim to the wagon road. The bond was given up in August of that same year. Early in 1908 the property was bonded by H.L. Rodgers, representing New York interests, and development work began in driving the 1235 (No. 4) level adit from the Old Bill claim of the adjacent Dundee property (82 F/6, Au 10). Operations were transferred to Yankee Girl Gold Mines, Limited which was incorporated in South Dakota and registered in British Columbia in 1909.

The Yankee Girl, Canadian Girl and Yukon Fraction were optioned in 1911 by Hobson Silver-Lead Company, Limited of Spokane, which was controlled by Fort Worth Texas interests. An aerial tram 6,000 feet long was built from the 1235 level to the railroad at Ymir. Development work continued in the 1235 level and ore was shipped to smelters at Greenwood, Grand Forks, and Trail, the high silica content of the ore making it desirable for fluxing purposes. The company ceased operations in 1919. Ownership of the property was transferred to Texas Yankee Girl Mines, Limited, which was registered in British Columbia in 1920.

see Card 2

HISTORY OF PRODUCTION

Recorded production from the Atlin, Yukon Fraction, and Yankee Girl claims for the period 1903-1951 totals 408,584 tons. From this ore 123,813 ounces of gold, 708,621 ounces of silver, 13,665,058 pounds of lead, 14,273,184 pounds of zinc, and 79,395 pounds of cadmium were recovered.

MAP REFERENCES

- Map 51-4 A, Ymir, (Geol.), Sc. 1": $\frac{1}{2}$ mile - accomp.
Paper 51-4, Geol. Surv. of Canada.
- #Map 1144 A, Ymir, (Geol.), Sc. 1":1 mile (1964).
- Map 175 A, Ymir, (Geol.), Sc. 1":1 mile - accomp. Memoir 94.
- Map 8480 G, Nelson, (Aeromag.), Sc. 1":1 mile.
- *Map 82 F/6 E, Nelson, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	7-76						

REFERENCES

Reports of Minister of Mines, British Columbia: 1904, p. 126; 1905, p. 167; 1907, pp. 102, 217; 1908, p. 107; 1909, p. 119; 1910, pp. 106, 247; 1912, p. 154; 1913, p. 132; 1914, p. 329; 1915, p. 149; 1916, p. 204; 1917, pp. 168, 195; 1918, pp. 173, 197; 1919, pp. 132, 158; 1920, pp. 121-131; 1926, p. 275; 1927, pp. 297-301; 1928, pp. 327-329; 1929, p. 349; 1932, p. 186; 1933, pp. 224, 225, 317; 1934, p. E-6; 1935, p. E-29; 1936, p. E-45; 1937, p. E-46; 1938, p. E-38; 1939, p. 82; 1940, p. 67; 1941, p. 66; 1942, p. 62; 1944, p. 61; 1946, p. 144; 1947, p. 162; 1950, p. 120; 1952, p. 144; 1953, p. 115; 1954, p. 125; 1960, p. 67; 1961, p. 67; 1962, p. 73; 1963, p. 69; 1965, p. 180; 1966, p. 212; 1967, p. 243; 1968, p. 240;

Cockfield, W.E.; Lode Gold Deposits of Ymir-Nelson Area, British Columbia; Memoir 191, p. 26, Geol. Surv. of Canada, 1936. †

Drysdale, C.W.; Ymir Mining Camp, British Columbia; Memoir 94, pp. 107, 108, 112, 114, Geol. Surv. of Canada, 1917.

Galloway, John D.; Lode Gold Deposits of British Columbia; Bulletin No. 1, 1932, p. 104, British Columbia Dept. of Mines.

Wright, L.B. and Morrell, L.G.; Ymir Yankee Girl Gold Mines Ltd.; Trans. Vol. 141, p. 13, Am. Inst. Min. Met. Engrs., 1938.

Weekes, F.R.; The Yankee Girl Mine; The B.C. Miner, July 1935, pp. 40-44.

Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1927, Rept. 695, pp. 30-37 (No. 266); 1932, Rept. 736, pp. 99-109 (No. 447); 1933, Rept. 743, pp. 143-150 (No. 509); 1936, Rept. 774, pp. 53-59 (No. 670).

Mineral Development Sector; Corporation Files: "The Mining Corporation of Canada, Limited"; "McDowell Mines, Limited"; "The Porcupine Goldfields Development and Finance Company, Limited"; "Yankee Girl Consolidated Mines, Limited"; "Ymir Yankee Girl Gold Mines, Limited"; "Ymir Dundee Gold Mining Company, Limited"; "Dundee Mines Limited"; "New Cayzon Athabaska Mines Limited"; "Burlington Gold Mines Ltd.".

BCI - 82 F/SW - 68, 239.

PRODUCT

GOLD

PROVINCE OR
TERRITORY

British Columbia

N.T.S. AREA 82 F/6

Card 2 -
REF. AU 1

NAME OF PROPERTY

YANKEE GIRL, ATLIN

DESCRIPTION OF DEPOSIT (continued)

On the 1,235 level the Lakeview vein has been drifted on for 450 feet northeast, and some 400 feet southwest, of its intersection with the Yankee Girl vein. It strikes north 30 to 40 degrees east, dips 50 to 60 degrees northwest, and is shown by crosscuts to be 20 to 25 feet wide. The zone carries black graphitic gouge and is impregnated with quartz and well-mineralized with pyrite. The mineralization is mostly below commercial grade.

Paralleling and on the foot-wall side of the Yankee Girl vein for considerable distances in other parts of the mine is the Spur vein. This is a branch of the Yankee Girl vein. It leaves the latter some 200 feet west of the intersection of the Yankee Girl and Lakeview veins and joins it again about 950 feet farther west. The vein was mined out above the 1,235 horizon.

At the intersection of the Yankee Girl and Spur veins and close to the Lakeview vein, the combined veins form an ellipsoidal mass of quartz about 30 feet in maximum width and 150 feet long. The quartz is heavily impregnated with pyrite and, in places, values run as high as 0.25 ounce in gold a ton. Average values are stated to be below commercial grade.

Except for a few stopes at the western end of the mine, the general rake of the ore shoots is to the east, or into the hill following, probably, the intersection of the Yankee Girl and Lakeview veins. Locally, too, ore shoots occur where tongues of granodiorite are cut by the vein and, in some cases, one wall of an ore shoot is of this rock.

The Bonus vein lies parallel to and some 560 feet northwest of the Yankee Girl vein. In a drift to the northeast from the Wildhorse adit the vein maintained a width of 4 feet. The vein is made up of a mixture of quartz and sheared rock mineralized with pyrite, sphalerite, and galena.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

The Mining Corporation of Canada, Limited optioned the property in the spring of 1920 and carried out 2,060 feet of drifting and crosscutting and 670 feet of raising in known areas of the mine. The option was given up later in the year. No further activity was reported until 1926 when O.C. Thompson and associates optioned the property and incorporated Yankee Girl, Limited. The mine was reopened and some ore shipped during the year. In May 1927 The Porcupine Goldfields Development and Finance Company, Limited optioned the property. Further development work was carried out and diamond drilling was done to test for ore below the 1235 level. Enterprise Consolidated Mining Company, Limited optioned the property in March 1928 from Texas Yankee Girl Mines, Limited. The company name (Enterprise) was changed to Yankee Girl Consolidated Mines, Limited. Further development work was done in the upper levels of the mine. The workings at that time included 2 shafts, 5 adits and 10 levels totalling some 18,000 lineal feet of openings. In the fall of 1928 a new crosscut adit was begun on the Ymir (Wildhorse) Creek side of the mountain 765 feet below the 1235 level. When work was suspended late in 1929 the Wildhorse adit had been driven 2,850 feet.

Early in 1933 E.P. Crawford, F.R. Weekes and associates took over the property under an agreement with Texas Yankee Girl Mines, Limited and incorporated Ymir Yankee Girl Gold Mines, Limited in May 1934. The property included 5 Crown-granted claims, the Yankee Girl, Canadian Girl, Lakeview, Black Diamond, Yukon Fr., and Klondyke No. 1 Fr. The company installed a 100 t.p.d. mill which began production in January 1935. A winze was sunk to 300 feet below the 1235 level, extending the workings to a depth of 1,625 feet and comprising eleven levels. The company continued operations during 1938 while lessees carried out the mining of ore remnants in pillars and stopes in the less accessible parts of the mine. In 1939 the company carried out a salvage mining operation in pillars and stope remnants. A crosscut adit was driven from the 1235 adit level to the Dundee ore zone in 1940. The mill operated on Dundee ore, and on mill tailings from former operations, until June 1942 when the company ceased work. Lessees operated the mill until near the end of the year, treating backfill from old stopes. Lessees continued intermittent mining and clean up operations into 1950.

see reverse Card 2

HISTORY OF EXPLORATION AND DEVELOPMENT (continued)

Yankee Dundee Mines Limited was incorporated in November 1952 to develop the Yankee Girl and Dundee properties. Rehabilitation and extension of the Wildhorse adit began and in 1954 the adit reached a length of 4,650 feet. At 4,092 feet from the portal the Bonus vein was intersected and drifted on for 65 feet. At 4,650 feet the Yankee Girl vein was encountered and drifted on for 45 feet. In December 1954 a raise was started on the vein but only driven 35 feet when work stopped.

Newmont Mining Corporation of Canada Limited optioned the property in August 1960. Diamond drilling was done in 2 holes to test the Bonus vein. The option was given up in December.

Cayzar Athabaska Mines Limited in August 1961 optioned the property from Yankee Dundee and drove a raise on the Yankee Girl vein for 471 feet to intersect the old workings at the 1625 level. Drifting totalling 415 feet and some 2,225 feet of diamond drilling in 5 holes was done on the Yankee Girl vein from the Wildhorse adit. The option was given up in 1965. The company name (Yankee Dundee) was changed in 1963 to Dundee Mines Limited.

Burlington Mines Ltd. by an agreement dated July 1966 acquired from Dundee Mines 24 Crown-granted claims. Rehabilitation and maintenance work was done in the Wildhorse adit. The company name was changed to Burlington Mines & Enterprises Ltd. in 1970 and to Burlington Gold Mines Ltd. in 1974.