

PRODUCT GOLD
PRODUIT

PROVINCE OR PROVINCE OU
TERRITORY TERRITOIRE

British Columbia

N.T.S. AREA 93 A/14
RÉGION DU S.N.R.C.

REF. AU 1
RÉF.

NAME OF PROPERTY CARIBOO HUDSON (HUDSON)
NOM DE LA PROPRIÉTÉ

OBJECT LOCATED - Main adit.
OBJET LOCALISÉ

UNCERTAINTY - 300 m
FACTEUR D'INCERTITUDE

Lat. 52°53'20"
Lat.

Long. 121°19'40"
Long.

Mining Division Cariboo
Division minière

District
District

Cariboo

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 mainly by quartzite and schists of the lower and middle members of the Cambrian Snowshoe Formation. The overall pattern of the complex fold structure is isoclinal and repetitive. These rocks are crossed by a series of northerly striking shears, some of which are mineralized. The Hudson quartz vein occupies the Hudson shear, which strikes about north 6 degrees east and is vertical or dips about 80 degrees east. It cuts across the formations which strike north 30 to 60 degrees west and dip 50 to 75 degrees northeast. The Hudson shear is a comparatively small break with branches running off along the bedding planes on both hangingwall and footwall sides. The shear contained a single orebody that outcropped on surface, was as much as 9 feet wide, and in some places contained high gold values. The orebody had a stope length on the 200 level of 195 feet, and on the 250 level of 185 feet. No ore was mined below the 250 level, but the vein was mined from the 250 level to the surface 95 to 110 feet above the 200 level. At the south end on the 200 level the orebody terminates abruptly at a point where numerous narrow quartz stringers branch from it and run

see Card 2...

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

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

The Hudson group covers part of the narrow divide between Pearce and Simlock creeks some 15 miles southeast of Barkerville.

The showings were apparently discovered and staked in 1922 by I.E. Moore and Fred Wells, of Barkerville. Samples from oxidized vein outcrops gave interesting values in gold, lead, and tungsten. Underground exploration began early in 1923 in an adit driven in the south bank of Pearce creek at the 5,500' elevation. A new adit was driven in 1929 about 70' above the original adit.

Cariboo Amalgamated Gold Mines, Limited was incorporated in July 1933 to acquire the Hudson property from the Moore Estate and Fred Wells, and several other properties including the adjacent Cunningham group (92 A/14, W 3); no work was reported on the Hudson.

Cariboo-Hudson Gold Mines, Limited was incorporated in November 1936 to acquire the assets of the former company. The Hudson, Cutler, Black Martin and Cunningham groups (Lots 9816-21, 10596, 10597, and 5905-17) were Crown-granted to the company in 1938. The main (200 level) crosscut adit at approximately 5,600' elevation was driven over 2,000' through the divide to the Simlock creek side during 1937. In 1938 a winze was sunk from the 200 level and the 250 and 300 levels established. The 600 level adit was driven from the Simlock creek side and a raise put up to 300 level. A 100 ton per day cyanide mill was put into operation in September 1938. Ore was stoped from the 200 level to the surface 90 to 100' above, and between the 250 and 200 levels. Exploration and development during 1939 included 1,052' drifting, 400' raising, and 3,197' of diamond drilling. This work failed to locate additional reserves and the mine and mill closed on August 8, 1939. The mine workings comprised about 8,000' of drifts and crosscuts on 5 levels connected by a winze; most of the work was on the 200 and 600 levels which were opened up for distances of some 3,800 and 3,700' respectively. Trenching and stripping was carried out on the Hudson (Lot 9816) and Shasta (Lot 9820) claims in 1940.

Cariboo-Hudson Gold Mines (1946) Limited was incorporated in March 1946 to acquire the assets of the former company. Work during 1946-47 included about 400' of exploratory drift-

120618

see Card 2 ...

HISTORY OF PRODUCTION/HISTORIQUE DE LA PRODUCTION

During 1938-39, 13,492 tons of ore were milled at this property. From this ore 5,186 ozs gold and 2,626 ozs silver were recovered.

REFERENCES/BIBLIOGRAPHIE

Reports of Minister of Mines, British Columbia:
 1922, p. 119; 1923, p. 122; 1925, p. 150; 1927, p. 171; 1929, p. 191; 1930, p. 167; 1933, p. 124; 1937, p. C 33; 1938, p. C 47; 1939, pp. 35, 71; 1940, p. 57; 1946, p. 94; 1947, p. 115⁺; 1948, p. 91.

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1973, p. 294; 1976, p. E 137; 1977, p. E 182; 1978, p. E 193.

+++Holland, Stuart S.; Geology of Yanks Peak-Roundtop Mountain Area, Cariboo District, British Columbia; Bulletin 34, p. 57, British Columbia Dept. of Mines, 1954.

+Lang, A.H.; Keithley Creek Map-Area, Cariboo District, British Columbia; Paper 38-16, p. 27, Geol. Surv. of Canada.

Johnston, W.A. & Uglow, W.L.; Placer and Vein Gold Deposits of Barkerville, Cariboo District, British Columbia; Memoir 149, p. 212, Geol. Surv. of Canada, 1926.

Little, H.W.; Tungsten Deposits of Canada; Economic Geology Series No. 17, p. 70, Geol. Surv. of Canada, 1959.

Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1938, Rept. 73 b, pp. 30-46 (No. 792).

Mineral Policy Sector; Corporation Files: "Cariboo-Hudson Gold Mines, Limited"; Cariboo-Hudson Gold Mines (1946) Limited"; "Athabasca Columbia Resources Ltd."; "Resoursex Ltd."; "Invex Resources Limited"; "Imperial Metals Corporation".

CIM Reporter, Vol. 6, No. 6, Sept. 19, 1980, p. 23.

George Cross News Letter: Nov. 9/83; 1984, No. 129; 1986, No. 155.

Exploration in British Columbia; BCDM: 1980, p. 311; 1983, p. 393.

BCI 93 A - 71

MAP REFERENCES/RÉFÉRENCES CARTOGRAPHIQUES

Map 3-1961, Quesnel Lake, (Geol.), Sc. 1":4 miles, Geol. Surv. of Canada.

Map 562 A, Keithley Creek, (Geol.), Sc. 1":1 mile, Geol. Surv. of Canada, 1940.

#Geological Map of the Yanks Peak-Roundtop Mountain Area, Sc. 1":1,143', Fig. 2, Sheet B - accomp. Bulletin 34.

*Map 93 A/14, Cariboo Lake, (Topo.), Sc. 1:50,000.

REMARKS/REMARQUES

Comp./Rev. By Comp./rév. par	DMacR	DMacR	DMacR				
Date Date	09-81	12-83	08-86				

PRODUCT PRODUIT	GOLD	PROVINCE OR TERRITORY	PROVINCE OU TERRITOIRE	British Columbia	N.T.S. AREA RÉGION DU S.N.R.C.	93 A/14	REF. AU 1 RÉF.
--------------------	------	--------------------------	---------------------------	------------------	-----------------------------------	---------	-------------------

NAME OF PROPERTY
NOM DE LA PROPRIÉTÉ

CARIBOO HUDSON (HUDSON)

DESCRIPTION OF DEPOSIT/DESCRIPTION DU GISEMENT (continued)

parallel to the beds. At the north end the vein swings away from the Hudson shear along the foliation planes of the quartzite. The quartz vein was mineralized with pyrite, galena, and scheelite.

Several northerly shears approximately parallel to the Hudson shear lie east and west of it. To the west, on the footwall side, the Shasta shear was explored on the 200 level to the south and found to contain no ore. Seventy-five feet east, on the hangingwall side, is a fault marked by a broken zone 10 to 12 feet wide dipping 55 to 70 degrees east and containing no ore. Three hundred and sixty feet east the 605 shear was followed by a drift for 150 feet on the 200 level. It is occupied by quartz, and the average of company sampling at regular intervals, including four gold assays higher than 0.50 ounce of gold per ton, is about 0.25 ounce of gold per ton. Fifty feet west of the Hudson shear on the footwall side a shear was explored by the 635 drift, which opened a 55-foot length of quartz mineralized with pyrite, galena, sphalerite, and bright orange scheelite. The average of eleven samples taken at 5-foot intervals across an average sampled width of 4 feet is: Gold, 0.03 oz per ton; silver, nil; tungstic oxide, 0.14 per cent.

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

ing and 5,000' of diamond drilling. In the 635 drift (600 level) a 55' length of vein assayed about 0.20 oz/t Au over a width of slightly more than 2'. The mill was sold and removed from the property in 1948. Work by the company in the 1950's was confined to a tungsten showing on the Cutler and Cunningham claims (93 A/14, W 3).

The Hudson and Cunningham properties, comprising Mineral Lease M-32, was owned in 1973 by Guy B. Allen. T.V.I. Mining Ltd and Athabasca Columbia Resources Ltd optioned the property and carried out electromagnetic and magnetometer surveys over 20 line-miles and a geochemical soil survey (296 samples). The company name (TVI) was changed in 1974 to Resoursex Ltd, owned by Athabasca (50%) and The Pitcairn company. Work during 1976-78 included further geophysical and geochemical surveys, and 454 metres of surface diamond drilling in 5 holes; one hole cut 12.5' of quartz vein material assaying 0.88 oz/t Au (Application for Listing 11/80).

Invex Resources Ltd in January 1979 acquired 100% interest in Resoursex Ltd through a share transaction. Diamond drilling in 1979-80 indicated approximately 3,000 tons at 0.65 oz/t Au (Invex, Filing Statement 127/81); a mining contractor began mining and shipping this reserve in 1980. In September 1980 Invex amalgamated with Western Rolling Hills Mines & Oils Limited under the name Invex Resources Limited. In December 1981 Invex amalgamated with Risby Tungsten Mines Ltd and Imperial Metals and Power Ltd under the name Imperial Metals Corporation. Work in 1983 included over 500 m of diamond drilling in 12 holes; assays ranged from traces to 2.6 oz/t Au and 8.6 oz/t Ag across 0.9 metre vein width. Additional work in the 1980-83 period included geochemical soil (1,624 samples) and rock (29 samples) surveys. In 1984 over 1 000 m of diamond drilling was carried out. The 200' level was reopened in 1985. Drilling on two veins indicated 60,000 tons at 0.4 oz/t Au, 0.5 oz/t Ag (Imperial Metals Corp. Listing Statement, July 1985).