

## NAME OF PROPERTY

COPPER CHIEF, RUFFLED GROUSE

## OBJECT LOCATED - adit

*Copper Chief*

UNCERTAINTY IN METRES 200.

Lat. 50°38'10"

Long. 117°36'20"  
15"

Mining Division Revelstoke

District

Kootenay

County

Township or Parish

Lot

Concession or Range

Sec

Tp.

R.

## OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

The property is underlain predominantly by a series of phyllite, argillite, and impure quartzite, containing bands of limestone-dolomite skarn. Map 235 A indicates these rocks are of late Precambrian age, being members of the Lardeau and Babshot formations of the Windermere group. These rocks have been intruded by a small granodiorite stock. Light grey to white dolomite is exposed near the Lucky Boy mine, forming a band a few hundred feet wide which dips steeply northeast. To the southwest the phyllites, argillites, quartzites, and calcareous lenses more or less altered to skarn form poorly defined beds several hundred feet wide on the steep Wilkie Creek slope extending from the crest of the ridge east of the creek to the level of the creek. The skarn consists of a fine-grained aggregate of quartz, carbonate, epidote or zoisite, diopside, and garnet. It is commonly heavily mineralized with pyrrhotite and locally contains chalcopyrite and scheelite. The rocks are complexly folded. Cleavage is vertical or dips steeply to the northeast.

see Card 2 ....

Associated minerals or products of value - Lead, tungsten.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The Copper Chief claim is located at the 4,800 foot elevation on the southeasterly side of Wilkie (Trout) Creek, 3 miles west-southwest of the village of Trout Lake. Much of the history of this property is in common with the Lucky Boy property (82 K/12, AG 2) which adjoins to the north, and with adjacent molybdenum showings (82 K/12, MO 1).

The first report of activity in this vicinity was in 1898. Claims held at that time included the Copper Chief, Copper Stain, and Peacock. By 1902 this group comprised the Copper Chief, Ruffled Grouse, and Willow Grouse claims. Work on the Ruffled Grouse was done in 2 short adits, a winze, and some drifting on the vein. A small amount of ore was shipped from the Ruffled Grouse during this period of activity. By 1905 the workings on the Copper Chief included 2 drift adits and stripping on the vein.

No further activity was reported until 1916 when the Copper Chief group comprising 4 claims and a fraction, owned by J.W. Livingston, were leased and bonded to R.D. Fetherstonhaugh for Edmonton interests. These interests organized the Copper Chief Mining Syndicate and development work began in December 1916 with George Yuill as foreman. During 1917 open cutting and some 285 feet of drifting was carried out. A second adit was begun 100 feet below No. 1 adit. Work ceased in the fall of 1917 due to lack of funds. The details of the Crown-granting of the Copper Chief claim (Lot 4584) are not known.

No further activity was reported on the Copper Chief until the early 1940's when tungsten was discovered on this and the adjoining Lucky Boy group. For the history of exploration in subsequent years see Lucky Boy: 82 K/12, AG 2.

For the history of exploration for molybdenum on these and adjacent claims see: 82 K/12, MO 1.

## HISTORY OF PRODUCTION

Recorded production from the Ruffled Grouse and Copper Chief claims for the period 1901-1917 totals 23 tons of ore. From this ore 3,382 ounces of silver and 4,357 pounds of lead were recovered.

## REFERENCES

Reports of Minister of Mines, British Columbia:  
1898, p. 1069; 1901, p. 1020; 1905, p. 154;  
1914, p. 316<sup>+</sup>; 1916, p. 201; 1917, pp. 165, 191;  
1952, p. 184<sup>++</sup>.

Brock, R.W.; The Lardeau District, B.C.; Summary Report for the Year 1903, Annual Report Vol. XV, 1902-03, p. 71 A, Geol. Surv. of Canada.

+++Fyles, J.T. and Eastwood, G.E.P.; Geology of the Ferguson Area; Bulletin 45, p. 59, British Columbia Dept. of Mines, 1962.

Gunning, H.C.; Lardeau Map Area, British Columbia; Memoir 161, p. 84, Geol. Surv. of Canada, 1930.

## MAP REFERENCES

#Geological Map of the Ferguson Area, Sc. 1": $\frac{1}{2}$  mile, Fig. 2, Sheet A. - accomp. Bulletin 45, British Columbia Dept. of Mines, 1962.

Map 235 A, Lardeau Area, (Geol.), Sc. 1":4 miles - accomp. Memoir 161.

Mineral Reference Map No. 2, Trout Lake, Lardeau, Ainsworth (surveyed claims), Sc. 1":1 mile, Dept. of Lands, British Columbia, 1928.

Geological Map of main showings on the Copper Chief property, Sc. 1":225 ft., Fig. 8, Bulletin 45, p. 60, B.C. Dept. of Mines.

\*Map 82 K/12 E, Beaton, (Topo.), Sc. 1:50,000.

# Trout Lake project, Surface Geol., Sc. 1":470', CIM Bull, JAN 83, P. 118

## REMARKS

see: 82 K/12, AG 2  
82 K/12, MO 1

Comp./Rev. By	DMacR						
Date	5-78						

PRODUCT SILVER

PROVINCE OR TERRITORY British Columbia

N.T.S. AREA 82 K/12

Card 2 -  
REF. AG 3

NAME OF PROPERTY COPPER CHIEF, RUFFLED GROUSE

DESCRIPTION OF DEPOSIT (continued)

At the portal of the Copper Chief adit at 4,840 feet elevation, a skarn body 2 to 4 feet wide encloses several lenses of unaltered grey limestone. Both skarn and limestone are mineralized with scheelite, and a sample across 4 feet assayed 1.06 per cent tungstic oxide. Several hundred feet of underground work was done at the Copper Chief adit, which was driven on a narrow quartz vein dipping 10 degrees northeast. Underground the vein is cut off by a strong fault striking north 30 degrees west and dipping 85 degrees northeast, and most of the underground work was in search of the faulted segment of the vein. The fault cuts off the skarn band whose extension on the east side of the fault is not visible. The Copper Chief quartz vein and other narrow, flat-lying veins nearby are rather sparsely mineralized with scheelite. A lens of dark-green skarn between 50 and 100 feet below the adit is well mineralized with pyrrhotite but contains only small amounts of scheelite. The vein which ranges from 6 inches to 1 foot in width contains minor amounts of sphalerite and galena and in places is copper stained.