

NAME OF PROPERTY MATUSS (SILVER KING & LAST CHANCE)

OBJECT LOCATED - showing.

UNCERTAINTY IN METRES 300. Lat. 54°50'10" Long. 127°20'

Mining Division	Omineca	District	Range 5 Coast
County		Township or Parish	
Lot		Concession or Range	
Sec	Tp.	R.	

OWNER OR OPERATOR AND ADDRESS

**DESCRIPTION OF DEPOSIT**

Massive andesite is in sharp contact, some 400 feet north of the workings, with shale, argillite, and greywacke. At the contact these formations strike west and dip 70 degrees north. Both the volcanic and sedimentary rocks are intruded by light-coloured quartz-albite porphyry dykes, most of which range from 4 to 10 feet in width and from 500 to 1,000 feet in length. One of these dykes, 7 feet in width, intersects the vein 15 feet from the portal of the adit. The dyke is clearly later than the fissuring.

At elevation 4,600 feet an adit has been driven 90 feet along a quartz-arsenopyrite vein that lies in a shear zone in massive andesites. The shear zone is exposed for 500 feet up a 35-degree slope and contains vein filling for most of this distance. The vein strikes southwest and dips from 50 to 70 degrees southeast.

At the portal of the adit the sheared zone ranges from 3 to 4 feet in width and contains a quartz-arsenopyrite vein 1 foot wide. The vein consists of about 40 per cent quartz and 60 per cent arsenopyrite. see Card 2 ....

Associated minerals or products of value - Silver, zinc, copper.

**HISTORY OF EXPLORATION AND DEVELOPMENT**

The property is located at the 4,600 foot elevation on the west side near the foot of the Toboggan Creek glacier, 8 miles northwest of Smithers.

The Silver King and Last Chance claims, were located prior to 1928 but details are lacking. The claims were owned by Joe Matuss, of Telkwa. Development work, including open cuts and a 90 foot adit, was carried out prior to 1932.

Sunset Empire Mining Company Limited in 1952 held the "Malnok" group, at the foot of Toboggan glacier. No work was reported at that time.

120643

HISTORY OF PRODUCTION

REFERENCES

Kindle, E.D.; Mineral Resources, Hazelton and Smithers Areas, Cassiar and Coast Districts, British Columbia; Memoir 223 (Revised Edition), p. 117, Geol. Surv. of Canada, 1954.

Lode Gold Deposits of British Columbia, compiled by J.D. Galloway, Bulletin No.1, 1932, p. 54, British Columbia Dept. of Mines.

Report of Minister of Mines, British Columbia: 1952, p. 94.

MAP REFERENCES

Map 69-1, Smithers, Hazelton, and Terrace Areas, (Geological compilation), Sc. 1":4 miles, British Columbia Dept. of Mines.

Preliminary Map 44-23, Smithers, (Geol.), Sc. 1":2 miles, Paper 44-23, Geol. Surv. of Canada.

Sketch Map of the Silver Lake Section, Sc. 1":2,000 ft. (approx.), Report of Minister of Mines, British Columbia, 1928, p. 165.

Map 5319 G, Smithers, (Aeromag.), Sc. 1":1 mile.

#Map 93 L/14 W, Smithers, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR						
Date	1-76						

PRODUCT

GOLD

PROVINCE OR  
TERRITORY

British Columbia

N.T.S. AREA 93 L/14

- Card 2 -  
REF. AU 5

NAME OF PROPERTY

MATUSS (SILVER KING &amp; LAST CHANCE)

## DESCRIPTION OF DEPOSIT (continued)

cent arsenopyrite. Other quartz-arsenopyrite stringers lie in both walls of the sheared zone. The vein narrows gradually within the adit, consisting of 7 inches of almost solid arsenopyrite 20 feet from the portal and 3 inches of arsenopyrite with quartz 35 feet from the portal. Where it narrows to 3 inches another quartz-arsenopyrite vein, 6 inches wide, comes in along the hanging-wall side of the sheared zone. The latter vein maintains an average width of 6 inches for 50 feet to the face of the adit, and for this distance lies along the hanging-wall side of a sheared zone 15 inches wide. A 5-inch channel sample taken across the quartz-arsenopyrite vein 40 feet from the portal assayed: gold, 0.36 ounce a ton; silver, 0.05 ounce a ton.

In an open-cut at elevation 4,650 feet, the sheared zone is 4 feet wide with 12 inches on the hanging-wall side replaced by arsenopyrite. At the next open-cut, elevation 4,715 feet, the mineralization has changed. A lens consisting of black sphalerite and pyrrhotite cut by stringers of chalcopyrite occurs along the fissured zone. The lens is 30 feet long, with an average width of 6 inches. The andesite wall-rock is mineralized over a width of several feet on either side of the 30-foot lens by small stringers of similar sulphides. The bedrock is washed clean for 30 feet at elevation 4,800 feet, and there the sheared zone is 8 inches wide. A parallel sheared zone 6 inches wide lies 12 feet to the southeast. Both are well mineralized with arsenopyrite, but are leached and oxidized by surface weathering. In a natural exposure 100 feet farther up the slope there are three parallel sheared zones, 6 and 10 feet apart, respectively. They are each 3 inches in width and contain very little arsenopyrite.