

*Original copy*

019112

1927  
104 B/BE

1048-33

Pioneer Group

This group of mineral claims  
is owned by Mrs. J.L. Campbell

46  
Big Missouri

of Hyder, Alaska. It is located on the west side of Tide Lake at the headwaters of Bowser River on the Nass River drainage slope, about 31 miles by road and trail from seaboard at Stewart, B.C. dock. It is reached by motor-road for 18 miles from the town of Stewart to the Big Missouri mine at 2850 feet elevation and thence by rough, rocky, and hilly pack-horse trail for 13 miles to the cabin at 2720 feet elevation. Reference to the property is contained in the Annual Reports of the Minister of Mines for the years 1927, 1930 and 1933 and Canada Department of Mines' Memoir 175, 1935.

The mineral deposit consists of sheared and pyritized calcareous tuffs and tuffaceous sediments locally containing quartz seams and small lenses mineralized with mainly sphalerite and galena.

During 1929 and 1930, the property was optioned and diamond-drilled by the Consolidated Mining and Smelting Co. of Canada and the option then relinquished. In 1933 a cross-cut adit at 2500 feet elevation was driven in a general north-westerly direction by Jancowski brothers for the purpose of locating a gold value of 8.72 oz. per ton, intersected at comparatively shallow depth in Consolidated diamond-drill hole No. 2, but did not encounter any values.

During 1939, this crosscut-adit was continued and at 126 feet encountered an irregular shear up to 1.5 feet wide, striking northerly and dipping 75 degrees west. This was drifted on for 27 feet towards the north, in which distance it shows a width up to 3 feet containing some pockets with quartz stringers and small irregular quartz lenses mineralized with disseminated pyrite and massive sphalerite. From this working, two shipments of selected cobbled ore were made to the Government Sampling Plant and assayed as follows:

Dry tons	Gold oz. per ton	Silver oz. per ton	Copper %	Lead %	Zinc %	Arsenic %	Antimony %	Silica %
0.7690	23.92	48.8	<u>nil</u>	3.6	16.5	0.1	<u>nil</u>	50.3
1.0163	16.37	39.3	<u>nil</u>	2.33	10.17	<u>nil</u>	<u>nil</u>	49.3

At the time of examination (August 28-29th), very little mineralization was showing in the adit. The following samples were taken from the best-mineralized section:

- 1) Face of adit, across 3 feet of sheared, silicified tuff: Gold, trace; silver, 0.4 oz. per ton; copper, nil; lead, nil; zinc, nil; silica, 53.9 per cent.
- 2) Roof of adit, 11 feet from face, selected sample of best mineralization in a pocket 4 feet long: Gold 0.10 oz. per ton; silver, 14.9 oz. per ton; copper, nil; lead, 1.3 per cent; zinc, 14.7 per cent; silica, 56.4 per cent.



- 3) Face of crosscut south, 49 feet from adit portal; across 20 inches of quartz with pyrite: Gold, 0.08 oz. per ton; silver, 2.3 oz. per ton; copper, nil; zinc, 0.4 per cent; silica, 76.5 per cent.

Between 2555 feet and 2589 feet elevation on the top of the knoll above the adit, a defined shear, 3.5 feet wide, has been opencut for a length of 40 feet, exposing quartz bands 6 to 15 inches wide mineralized with mainly pyrite. This shear strikes north 76 degrees west and dips 76 degrees southerly. The following samples were taken from these workings:

- 1) Open-cut at 2555 feet elevation. Quartz band 11 inches in width in face centre with disseminated pyrite and some sphalerite: Gold, 0.10 oz. per ton; silver, 6.7 oz. per ton; copper, nil; zinc, 0.4 per cent; silica, 85.0 per cent.
- 2) Open-cut at 2570 feet elevation, quartz band for length of 5 feet and 7 inches wide on hanging-wall of shear, mineralized with seams of pyrite: Gold, 0.06 oz. per ton; silver, 2.5 oz. per ton; copper, nil; lead, nil; zinc, nil; silica, 67.0 per cent.
- 3) Open-cut at 2580 feet elevation, quartz band 15 inches wide with seams of pyrite on hanging-wall of shear: Gold, 0.04 oz. per ton; silver, 3.0 oz. per ton; copper, nil; lead, nil; zinc, nil; silica, 74.8 per cent.

- 4) Open-cut at 2585 feet elevation, quartz band 9 inches wide with pyrite seams, on hanging-wall of shear: Gold, 0.08 oz. per ton; silver, 6.3 oz. per ton; copper, nil; lead, nil; zinc, nil; silica, 72.6 per cent.
- 5) Grab sample of 1/2 ton of cobbled ore north of top open-cut: Gold 0.30 oz. per ton; silver, 17.3 oz. per ton; copper, nil; lead, 2.2 per cent; zinc, 6.8 per cent; silica, 59.1 per cent.
- 6) Grab sample of several small piles of cobbled ore south of top cut: Gold, 0.16 oz. per ton; silver, 19.6 oz. per ton; copper, nil; lead, 0.1 per cent; zinc, 0.9 per cent; silica, 77.1 per cent.