

Great Northern Petroleum and Mines Ltd.

Great Northern Petroleum and Mines Ltd., has obtained exceptionally high assay results from its 74-claim Shuswap Group, a silver-copper-lead-zinc prospect located 20 miles northeast of the north end of Shuswap Lake, British Columbia.

Assays taken from the McLeod Zone include:

Width ft.	Silver oz.	Copper %	Lead %	Zinc %
6.0	2.9	0.68	5.61	6.35
4.0	5.2	0.29	9.49	15.40
3.0	1.7	0.08	4.69	10.16
5.0	6.2	0.16	12.90	3.88
5.5	1.7	0.06	4.23	6.40
4.25	2.3	0.24	5.15	8.60
5.0	5.0		11.00	16.50
9.5	2.4		4.96	8.00
5.0	6.5		11.00	16.00

*
Good
Assay
Data

The McLeod zone has been traced a total distance of 5,300 feet. Of this total length, 2,000 feet is exposed by 19 rock-cuts blasted out this year plus other trenches made in previous years. The zone has been traced a further 500 feet to the northwest by a magnetometer survey and yet a further 2,500 feet by a geochemical survey.

Three main mineralized zones have been explored on the Shuswap Group and others have been indicated by geophysical surveys. The three zones opened to date by rock cuts, tunnels, and shafts are the McLeod zone to the east, the Cotton-Belt zone to the west, and the Copper King zone which is just west of the McLeod zone.

B. I. Nesbitt, president, states:

"Geological mapping of the entire Shuswap Group has been completed, tying together the three known mineralized zones, and an induced-polarization survey done over part of the claims by Seigel Associates Ltd. This work supports theories arrived at earlier that the Cotton-Belt and the McLeod zones are limbs of a synclinal fold and that they will join at depth and also at surface to the northwest. It is expected that in the central part of the synclinal trough, drag-folding will exist which could multiply the width of the mineralized zones many times, resulting in a large-tonnage open-pit type ore-body. The metal content of the zone is excellent and the length over which continuous mineralization can be traced is exceptional. The Cotton-belt zone, for instance, has been traced by open-cuts, shafts

and tunnels for a horizontal length of 9,000 feet and for a further 2,800 feet by geochemical and magnetometer surveys. Mineralization in the various workings extends over a vertical range of 2,400 feet."

The Copper King zone has not been explored as much as the others. However, it has been traced by trenches for some 7,500 feet and a 20-ton shipment made in 1915 averaged 3.0% copper.

Federated Mining Corporation Ltd.

Federated Mining Corporation has intersected high-grade silver-lead-zinc mineralization in underground development work at its Pend Oreille base metals property, adjoining to the north of the producing Reeves MacDonald mine in the Salmo Area, British Columbia, president James A. Farrell reports.

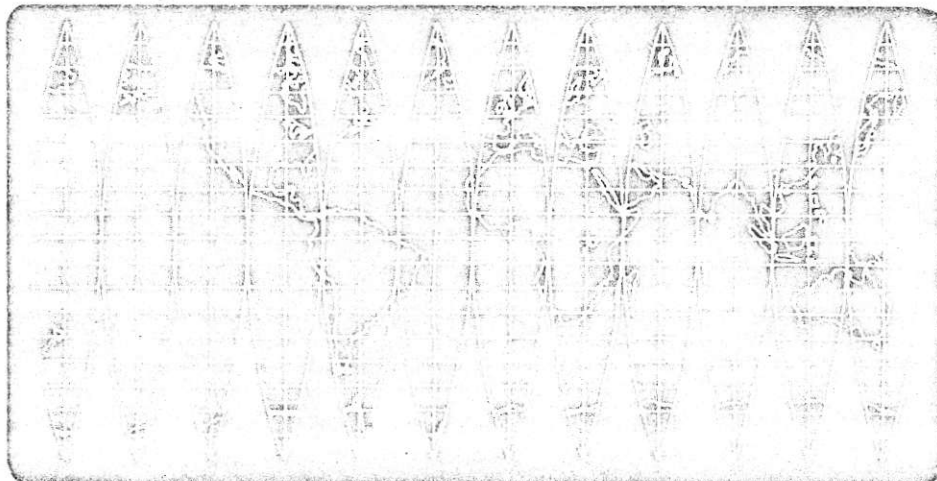
An adit drive has intersected what appears to be a lens-type formation some 340 feet from the portal and the structure has a width of 7.0 feet. This high-grade lens is contained in a limestone band approximately 60 feet wide.

First samples taken over a width of 4.4 feet, average 9.70 oz. silver per ton with 19.9% lead and 7.9% zinc. A second sample, taken five feet from the No. 1 sample averages 4.4 oz. silver per ton with 7.4% lead and 13.2% zinc, over a width of 5.1 feet.

Alaska Department of Natural Resources

The Division of Mines & Geology will in future be known as the Division of Geological Survey, according to the October 1970 issue of Mines Bulletin at College, Alaska. The new Division, within the Department of Natural Resources of the State of Alaska, will be headed by a State Geologist, who has not yet been selected. Functions of the Division are outlined as follows:

The Division of Geological Survey is authorized to make a complete geological survey of the State, giving special attention to all natural products of economic importance, in order to determine the character, location, and amount of these products; and to provide information on and call attention to areas of potential danger of a geologic nature to private or public building projects. The State Geologist may make provision for topographic, geologic, and hydrographic surveys of the State in co-operation with the United States Geological Survey in such manner as in his opinion will be of the greatest benefit to the agricultural, industrial, and geological requirements of the State.



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