

# <sup>News 441</sup> Kootenay Florence Goal Certain

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**Delay in Locating Big Orebodies on Lake Level Due to Change in Dip of Limestones—North and South Fissures Already Located—Electric Power Greatly Expedites Operations—Production Commenced**

**K**OOTENAY Florence mine, two miles north of Ainsworth, Kootenay Lake, B.C., was visited twice between the middle and end of August by the editor of Canadian Mining World. He found operations proceeding in the most satisfactory manner, with certain promise that the main ore shoot for which the lake level adit is being

has taken place in the lime bands which occur in the Josephine formation and which carry the big orebody in the upper levels.

#### Limestone Dip Changed

It has now been definitely demonstrated that this fold has caused a flatter dip westerly, with the result that it may be 200 or even 300 feet yet before the orebody will

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 was carried north on a stringer of ore at a point 2,700 feet from portal of the lake level adit and was followed northerly for 65 feet. It then turned westerly, or practically parallel to the main adit and, when the writer visited the mine the last time, the drift had been carried ahead 100 feet in a full face of mineralization, consisting

#### Production Started

While the main adit is being pushed ahead, actual production of ore from the upper levels has been started. Another air drill has been added to the equipment and is now breaking down ore in No. 5 level. A winze is also to be sunk from No. 5 on ore, thus expediting connection between the two levels when the lake level reaches its destination.

#### Electric Power Cut In

The new Ingersoll-Rand compressor, with capacity of 1,000 cubic feet of air per minute, has been installed in a commodious power house on the Kootenay Lake highway, which passes just below the dump of the lake level, and power from the municipal power lines of the City of Nelson was turned on two weeks ago. The compressor is actuated by a Canadian General Electric synchronous, K.V.A. 165, 80-cycle, 3-phase motor.

#### Modern Accomodations

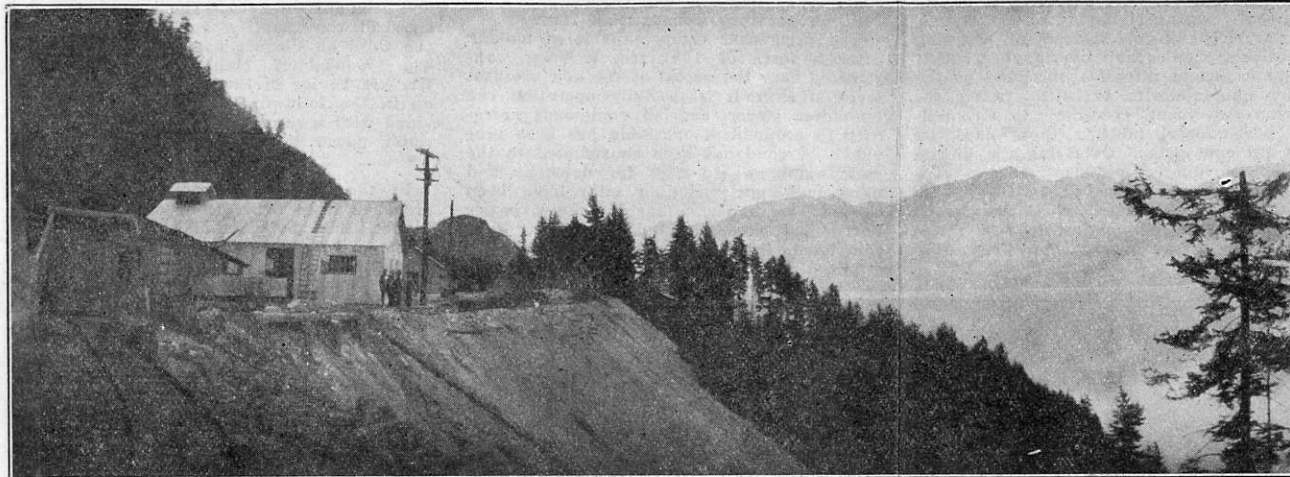
All outside work in preparation for winter has been completed. The new bunkhouse is 40 by 120 feet, with twenty two-man rooms, equipped with wash-room, shower baths and laundry tubs. The new cook-house is 60x40 feet, with seating capacity for 100 men. The kitchen is 20x40 feet, equipped with modern hotel range and every other modern convenience. All buildings, including the cottages for staff and superintendent, are being placed at grade and waste rock is being dumped into what will eventually be a well-graded street.

#### Construction Most Substantial

Other construction includes the compressor house, which is 60x40 feet, with space for another compressor unit of the same size as the one already installed; machine shop, at the mouth of the lake level adit, 30x40 feet; dry room, 24x30, heated by special arrangement designed by Superintendent Dennis, and an extra room, 24x30. All this construction is of the most substantial character and yet the cost has been remarkably low, as much of the lumber was brought down from the old camp at No. 5 level, now abandoned.

#### No Question of Outcome

The writer has known Kootenay Florence mine for more than ten years and in that time has made many trips over the surface and through the upper workings. At times he has seen as much as 30 feet of fine milling ore in the replacement bodies in limestone. In view of these facts, and especially in view of the strength of the orebodies in the floor of No. 5 level, he is convinced that the downward continuation will be found in good time on the lake level, with every promise that one of the greatest mines of its kind in the interior of British Columbia will result.



Kootenay Florence Mine, Kootenay Lake, B.C., looking north from concentrator ore bin and showing mine buildings and dump of Lake Level Adit.

driven would be encountered within reasonable time.

The fact that it has not yet been entered, although first surveys indicated it would be found at approximately 3,250 feet from portal, has caused much needless anxiety among stockholders. As the writer sees the situation, there is not the slightest reasonable mining chance that the orebody will not be found. There has, however, been some change in the generally accepted geological conditions, indicating that a fold

be entered. The original mark set for the lake level adit was predicated upon a certain dip apparent in No. 5 level, which is 550 feet above on the dip of the vein. In between the two levels there has been a curve in the lime bands taking the intersection point further into the hill.

#### Driving On Two Fissures

The main north and south fissures of the mineralized zone have nevertheless been found in the lake level adit, and it is now only a question of pushing the heading further ahead to the orebodies. A crosscut

of iron pyrite, sphalerite and galena. This heading was in the Ainsworth formation and about 200 feet this side of the contact with the ore-bearing Josephine formation. At 3,335 feet from portal of the main adit another crosscut was carried south upon another stringer, which also gradually turned almost parallel with the adit and showed nearly two feet of solid sulphide. It is believed that these headings are in the north and south fissures of the ore zone as exposed in upper workings and, in fact, there is practically no doubt of their identity.