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REPORT

ON

**PROGRESS REPORT
FOR 1945
ST. EUGENE PROJECT**

FORT STEELE
MINING DIVISION

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MOYIE MINING CAMP
FORT STEELE M.D.

SUMMARY

Work on the St. Eugene project in 1945 was limited to the staking of 55 claims with the object of rounding out the ground now held, preparatory to further exploration. The locations of these new claims, as well as claims previously held, are shown on the map in the pocket.

The work was done in November and, as the snow had arrived earlier than usual, the handicap was considerable. The writer arrived in Cranbrook on November 16th, where he met P. Brennan, who had been engaged from Vancouver to do this work. Brennan is a surveyor with Consolidated, and was available as he had a short holiday. He then arranged with J.L. Neily, a surveyor with the Department of Public Works, to obtain a short leave and assist him. Four axemen were also engaged, making two parties of three men each. Brennan worked on the west side of the Lake, using a light transit, while Neily worked on the opposite side, using a Brunton compass.

Because of the fact that the location posts had been placed over 40 years ago and had rotted, and that the snow was widespread, they were not to be found. Use was therefore made of a map, kindly loaned by the Canadian Pacific, which showed the position of the railway tracks, and some permanent railway survey hubs, in reference to the claim posts. In this way a definite starting point and bearings were obtained, and lines run as shown on the map. Such checks as could be obtained indicate that the work was done with a considerable degree of accuracy notwithstanding the adverse conditions which prevailed.

Control was the fact that the hills immediately surrounding the lake are over 2,000 feet high, and soft snow on their summits reached four feet in depth. Progress was difficult and exhausting. It took at times three hours to reach the point where work was to be done. This, together with the very short period of daylight, meant that ground beyond that shown, could not be staked. Both Brennan and Neily were, also, available for a limited period only. The acreage is, however, believed to be adequate. The matter of further staking, if desirable, can be looked into further next spring.

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All claims were recorded at Cranbrook and, where necessary, Bills of Sale were obtained and recorded. The entire 55 claims are now, therefore, recorded in the name of the company. Staking dates extended from November 18th to November 25th inclusive and these claims are good until a year from that date.

CLAIMS NOT CONTROLLED BY ST. EUGENE

Claims shown on the map, not controlled by St. Eugene, are as follows:

DELTA FRACTION and BALTIMORE. These are owned by Consolidated and are in good standing.

SOCIETY GIRL. This claim is owned by Mark Nicholson of Moyie. Nicholson also claims ownership of the BLACKPINE claim, though the official records show it to be in the name of S.A. McPhee, 608 W. 14th, Calgary. Both are in good standing. The JOHN D. claim is owned in Oliver, B.C.

SOCIETY GIRL

As far as we can find out, the only one of these five claims that has been worked is the SOCIETY GIRL. Nicholson, the owner, is willing to sell but will place no valuation on it at present. He is prepared to place it in shape for examination early in the spring

Schofield, in his report on the Cranbrook area (G.S.C. Memoir 76), refers to this mine. He says the strike of the veins is N. 60 deg. W., with a dip of 60 deg. to the south, and it appears to be in the great zone of fissuring which traverses the Moyie area. The vein is narrow in the argillites and widens in the quartzites. The upper workings show oxidized ore. For the year 1911, to the end of September, shipments amounted to 400 tons.

The Minister of Mines Report for 1922, dealing with the ore available for shipment, and the possibilities for winning more ore from the upper workings, has this to say:

"Upon examination it was found that practically all the ore from this portion of the mine had been stoped to the surface and the indications for the development of further tonnage did not appear to be very encouraging. In the blacksmith shop there were about 40 sacks of carbonate ore which had been extracted from this part of the mine. A grab sample gave the following returns: Silver, 10.3 oz.; lead, 53.2%; zinc, 0.2%.

"Near the lower camp there were a number of sacks lying alongside the trail, containing ore which at some previous period had been extracted from the lower part of the mine workings. On account of the high percentage of zinc associated with the

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galena, this lot did not constitute shipping-ore, though possibly some fairly clean lead ore could be sorted out.

"The time offered for the trip was unfortunately insufficient to allow an inspection of all the mine-workings; hence no report will be attempted until the writer has an opportunity to make a more thorough examination."

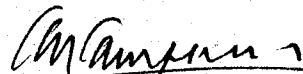
In 1923, L.K. Armstrong, mining engineer of Spokane, made an examination which is more encouraging. He states that much of the mineralization lies in cross fissures between two parallel veins. The development consists of two cross-cut tunnels, at different levels, which intersect the veins. There is drifting along the south vein on both levels and an up-raise connects the levels. The upper (No. 1 tunnel) appears to be 70 feet below the outcrop, while the lower (No. 2 tunnel) is 380 feet below the upper, and therefore 450 feet below the outcrop. The drift on the upper level is 300 feet long while the drift on the lower level is 1,000 feet long.

There is an enrichment zone on the No. 1 level, with a stope 12' x 20' x 4'. This stope is in ore on all sides.

No. 2 tunnel cuts the two veins at 1,100 feet and 1,300 feet from the portal. On the south vein drifting has been done 600 feet to the west and 400 feet to the east. At 200 feet to the west the up-raise has been put through. It is in ore for the most part, and at the bottom is a stope 110 feet long and 50 feet high which has produced considerable shipping ore. There is ore in the floor. More ore occurs at a point 250 feet westward. Easterly there are two showings at 100 feet and 350 feet. Ore shipments of sorted ore ranged from 28.8% lead and 6.5 oz. silver to 57.9% lead and 16.5 oz. silver.

In his report on the area F.A. Kerr makes no reference to SOCIETY GIRL.

Respectfully submitted,



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Mining Engineer.