

Dec. 1st, 1913.

F-778

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Chairman,
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Dear Sir, Mining in Elk Lake & Gowganda Districts.

I have just returned from Elk Lake and Gowganda and beg to make the following report on mining conditions in these districts.

ELK LAKE DISTRICT

This district is quiet at present.

Beacon. Now closed down, but tenders are being called for the sinking of the shaft to a depth of 500 feet and the contract is expected to be let shortly. Have installed a plant and are ready for development.

Beaver Auxiliary. This property is practically closed down on account of difficulty in securing an adequate supply of water. A small lake has been dammed and the requisite supply will soon be obtained.

A steam plant has been installed including

2 - 90 H.P. Boilers
1 - 8 Drill Compressor
1 - 6 x 8 Hoist.

Coal will be brought in to run the plant as soon as

the winter roads are fit.

The main shaft was sunk to the 200' level and early in August development on this level commenced. Have now completed 480 feet of drifting and crosscutting. The vein which was found in the old shaft has not yet been cut, but one rich pocket was encountered 2 - 2 1/2 inches wide, about 12 feet long, which still shows in the floor but not in the back (roof).

Cobalt Frontenac. As the manager was in Cobalt I did not visit this property, but obtained the following information from him:- The property consists of the N.1/2 Lot 7. Con. 1. Tudhope. 160 acres. The shaft is down 200 feet. The main vein is 14 feet wide and assays from \$2.80 to \$4.00 gold and \$1.60 silver. A second vein 6 inches wide gives assays up to \$14.00 gold per ton. Several other small veins have been found. Veins have been located by crosscuts on the 100 and 200 feet levels but no drifting has yet been done - Are now working 35 men including 9 woodcutters. All mining is done by contract.

Fleur-de-Lis. Situated to the north east of Elk Lake has a small force working.

Moose Home. Recently closed down.

SILVER LAKE DISTRICT

Downey Property. East of Silver Lake. This claim was closed down under dispute for several years but the dispute was settled about two years ago and work was commenced this Autumn. From an open-cut 250 sacks of high grade ore were taken, the ore chute being about 30 feet long. A shaft will

now be sunk for further prospecting.

Mapes-Johnston. Situated about 3/4 mile north of the Otisse. The main shaft is down 100 feet with about 80 feet of drifting at that level. The vein which shows on the surface and also at a depth of 56 feet shows up more or less continuously all along the 100 feet level. The vein runs from four to six inches wide of calcite with considerable copper mineralization, with small patches of good silver and occasionally niccolite and smaltite. Some of this ^{is} ore of milling grade, but there is very little high grade.

Currie. Near Hubert Lake. Shaft sink 100 feet. Have crosscut 20 feet and expect soon to cut vein.

CALCITE LAKE DISTRICT.

Bishop. Closed down.

Calleta. This is the property formerly known as the Calcite Lake Mine. Several small but rich pockets of ore have been found. Prospecting is now proceeding on the 200 foot level.

Powerful. A littel silver was found this summer, but the property is now closed down for lack of funds.

GOWGANDA DISTRICT.

Mann Mines. This mine was not visited as Gowganda Lake could not be crossed and the manager was away, but I understand that this summer's development has been favorable.

Miller Lake O'Brien. The main shaft is down over 400 feet and the next level to be opened will be the 450 feet. The levels now are:-

1. 90 feet
2. 140 "
3. 240 "
4. 300 "
5. 350 "

1. 90 feet. The old stope on this level has been a large producer and is still being extended from both ends with good results.

2. Not working at present.

3. This level has two stopes with about 50 feet of low grade material between, but giving altogether about 500 feet of an ore chute.

4. Main vein is mostly stoped out but cross vein shows an ore chute 90 - 100 feet long, the best ore yet found in this system.

5. Development on this level has not yet proceeded far enough to disclose much ore.

The production from this mine during 1913 to 31st. October was 413,000 ounces silver.

The reduction mill on the Millerett Property now belonging to the Miller Lake O'Brien ran from May to October treating

	<u>Tons Treated</u>	<u>Tons Concentrates made</u>	<u>Concentration Ratio</u>	<u>Silver Recovery. OZS.</u>
Miller Lake	3028	59.1	51.2	
O'Brien				144.457
Mann Mines	244	9.4	25.9	

Surface prospecting on the Millerett has disclosed some very promising veins in the diabase.

The Miller Lake O'Brien Mine now looks in better physical condition than I have ever seen it before. A carload of ore

is now ready and will be shipped as soon as there is good sleighing.

The cost of wood has now become so excessive that a power plant is being installed to relieve the situation. To carry on the work as planned with wood as fuel would require an expenditure of about \$20,000.00 annually for wood alone.

The power being developed is in the Townsite of Gowganda, between Gowganda Lake and Burke Lake. The natural fall is about 27 feet but this is developed to give 30 feet. An 800 H.P. generator is being installed and about 500 H.P. is the power expected to be generated regularly. The length of transmission line is 2 1/4 miles, at a voltage of 4000.

Yours very truly,

Mining Engineer.