

BARNES HECKER MINE.

MINE BUILDINGS

These buildings being new, are all in good condition. During the year we painted the floor and interior of the engine house.

COAL DOCK

A coal dock was constructed in the tail track of the L. S. & I. Railway which permits us to dump our coal without shoveling.

RAILWAY TRACKS

During the summer the L. S. & I. Railway completed their tracks to serve this property and they are now ready to handle the production from this mine.

STOCKING TRETTLES

Rock from our drifts underground was dumped on the stockpile area underneath the permanent "one leg" trestle erected last year and this was spread with our small revolving shovel during the summer months at a cost of \$2100.00 or approximately  $3\frac{1}{4}$  cents per square foot. This is a large saving over plank which is generally used for this work. After the rock had been spread the area was rolled with a ten ton roller. This ground is now ready to receive ore. The ore can be loaded out with shovel without dismantling the trestle.

DRIFTING

Drifting has been underway on all three levels.

FIRST LEVEL:

This opening has reached a distance of 1629 feet from the shaft and is now in the ore formation. Rich jasper has been encountered and we hope to find ore on this level very soon.

Two horizontal Diamond Drill Holes were put in from this drift. Drilling was slow and expensive due to the broken up character of the ground and the large amount of water encountered. A pressure of 250# was noted on Drill Hole No. 1.

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DRIFTING  
(CONTINUED)

SECOND LEVEL:

This level is in a distance of 1856 feet from the shaft. On September 9th, just as we apparently hit the ore contact a tremendous flow of water was encountered and we were compelled to dam off this level as no progress could be made. No work has been done since on this elevation.

THIRD LEVEL:

This opening is in a total of 2038 feet from the shaft and some ore has shown up on one side of the drift. We have encountered a heavy flow of water on this level also and slow progress is being made at this writing. We are nearing the point at which we should encounter the ore as shown by Diamond Drilling.

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During the first few months of the year remarkable progress was made in drifting. During January month the second level was driven a total of 511 feet and during March month the first level was driven a distance of 539 feet. This could not be kept up as most of our best men left us and it has been difficult to keep good men at this work ever since, especially since we struck the heavy flows of water on each level.

MINE DAMS

We have placed concrete mine dams in all three drifts to be in position to shut off the water in case of accidents to our pumps.

PUMPS

During the early part of the year the excavation for pump house and sump on the bottom level were completed. The sump has a capacity of 350,000 gallons. The pump house opening has been shut off with a concrete dam provided with a seven foot "Boiler Head" with man hole opening and a raise has been put up from the pump house to the second level to provide a traveling way in and out of the pump house. This permits us to shut off our pump house completely on the 3rd level and protects our pumps to the extent of flooding our 3rd level.

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PUMPS  
(CONTINUED)

A 1000 G. P. M. plunger and a 1000 G. P. M. centrifugal pump have been installed in the pump house on the bottom level. After striking the large flow of water another 1000 G. P. M. centrifugal pump was placed on the second level.

The sump underneath the pump house is provided with a clean cut raise and all sediment carried in with the water will be taken out through this raise with but little expense.

ACCIDENTS

We are glad to be able to report that we have gone through the year without any fatal or serious accidents at this property.

GENERAL

The water problem at this property is proving a serious one. Heavy flows are encountered on all three levels. One level is idle due to the damming off of the water and very slow progress is being made on the other two levels.

We are planning a diversion ditch to carry the water we are pumping, together with the natural drainage in this territory, around the North Lake Basin into Carp River and it is possible we may have to unwater the lake before much work of mining can be done.