

shallow places and allow barges to be brought from the mine directly to the south end of Lake Athapuskow without unloading. This will save the sleigh haul in bulk.

After the installation of the plant, underground mining was begun. A vertical shaft was sunk to 100 feet, a cross-cut driven to the ore body, and a drift and raise made in the chalcopryite lens. The ore was loaded directly from the shaft head by a tramway to barges and the ore was towed to the foot of Schist Lake. At the close of navigation 2,400 tons of ore were stockpiled at that place. The shaft is being sunk to 200 feet and it is planned to ship out by sleighs at least 7,500 tons during the winter. The ore already sent to the smelter averaged 17 per cent copper with a little gold and it is probable that the product now being mined will be equally high grade.

#### *Dion Claim*

On the point immediately south of the Mundy, a little stripping and blasting away of rusty rock has exposed a zone of chalcopryite stringers. The present showing is valuable only as indicating the possibility of a lens of ore at depth.

#### *Sturgeon Group.*

A group of claims lying close to the west shore of Hook Lake is located on a vertical shear zone near a small boss of granite. In this zone there are a number of small stringers of chalcopryite, the total width of the band of rock and sulphide veins being 30 inches. Shallow test pits have traced the mineral for a distance of 75 feet, but this deposit like the Dion claim, is as yet merely a possibility.

#### *Chico Claim.*

Considerable trenching and stripping has been done on a claim on the west side of Pincoot river near its mouth. In an open cut 35 feet long by 10 feet deep at the deepest point a shear zone has been exposed, consisting of serpentinized rock impregnated by pyrite and a little chalcopryite.

#### *Barley Durand Group.*

This group of claims lies between the first and second lakes east of Tartan Lake. Near the most westerly lake three deep trenches have been dug showing heavily iron-stained gossan. Near the eastern lakes a series of four trenches expose a 6 to 8-foot vein of pyrrhotite with

In the spring of 1915 it was estimated that 9,000 tons were stockpiled at Sturgeon Lake.