

ployed from the engines to the shafting, and a rope drive from the crushing mill to the grader room. A rope drive also operates a Root's pump in the basement of the grader room. This pump supplies all the water used in the mill, excepting that required for the classifiers, the latter being supplied by a duplex steam pump. The classifiers were installed during a suspension of milling operations in the spring, at which time the shafting and building were also strengthened. The Company now contemplates installing one or two additional sets of trommels, a pump and two additional magnetic separators.

south-western portion of the Yukon district. The presence of gold in this region was first made known in 1903 and a large number of streams were examined on which numerous claims were staked. Mr. McConnell writes: "The area of coarse gold discovery extends along the base of the St. Elias range for a distance of over seventy-five miles and has a maximum width of about thirty miles. Careful descriptions of the country and geological conditions and mode of occurrence of the gold, as well as indications of the auriferous streams of the St. Elias range, are described, reference being also



Corundum Mining in Ontario—Machine Drill at Work in one of the Canada Corundum Co.'s Quarries.

## THE GEOLOGICAL SURVEY OF CANADA.

Economic Work in 1904.

(Specially Contributed.)

The Summary Report of the Geological Survey of Canada for the calendar year, 1904, contains, besides thirty-eight pages of an introduction, or preliminary report, by Dr. Bell, the acting director of the survey, 392 pages of text, accompanied by maps, charts, sections, and diagrams illustrating the work of exploration and investigation carried on during the past twelve months.

The first report is that of Mr. McConnell, who carried on investigations in the Klumane area, in the

made to the discovery of other minerals, such as lead, native copper, copper pyrites, and lignite coal. The last is stated to be "of excellent quality, burning freely in an ordinary Yukon box stove." Lignite also occurs in Kimberley Creek.

### THE DUNCAN CREEK COUNTRY.

Mr. Joseph Keele was in charge of the geological survey along the Stewart River in the Yukon Territory. Though occurrences of gold had been known to Ogilvie in 1887, it was not until 1898 that prospectors made their way up the Stewart River. In 1901 a discovery was staked on Duncan Creek. Since the Klondike was made known, this is the