

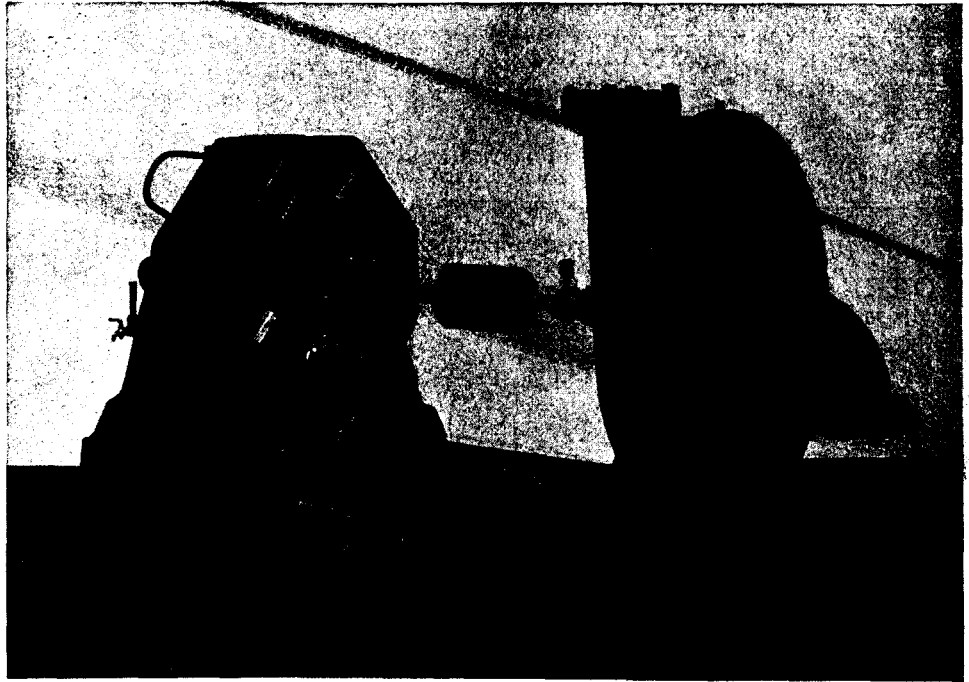
best of its kind for any purpose, always results in increasing and strengthening the demand therefor.

The many demands upon a centrifugal pump, peculiar to the Pacific Coast conditions, has done much to call out pumps of the high class manufacture for that market. And the careful, painstaking efforts of some Coast manufacturers along this line has kept pace with these demands. One of the foremost manufacturing firms is the Byron Jackson Machine

Works, of San Francisco. This firm, after years of patient toil and experimentation, is enabled to turn out such plants as are here shown. In cut is shown a dredging pump direct connected to high speed vertical steam engine. This plant is peculiarly adapted to handling gravel claims, which can be, or are submerged. It may be mounted on scow and operated as an ordinary dredge. The expense of handling gravel, sand and water with the attendant values, is, with these machines, reduced to a minimum. In cut herewith is shown a unique application of these pumps for purposes of hydraulic mining. The pump from which this photo was made is designed for the delivery of 1,000 gallons per minute under a pressure of 140 lbs. per square inch. It is to be used for delivery through a hydraulic giant to knock down auriferous gravel, and its test shows it to be successful beyond the makers' expectation. This plant is used in localities where it is physically

The second illustration of a pump made by this company is also interesting. This plant is especially noteworthy in view of the recent wide application of electricity to mining operations. It is small and compact, simple and durable, and can be installed in multiples to reduce pressure by distributing it among several units.

The Byron Jackson Machine Works are ready to supply plans and estimates upon whatever specifica-



Jackson Centrifugal Pump Direct Connected to Electric Motor.

tions are submitted for their consideration.

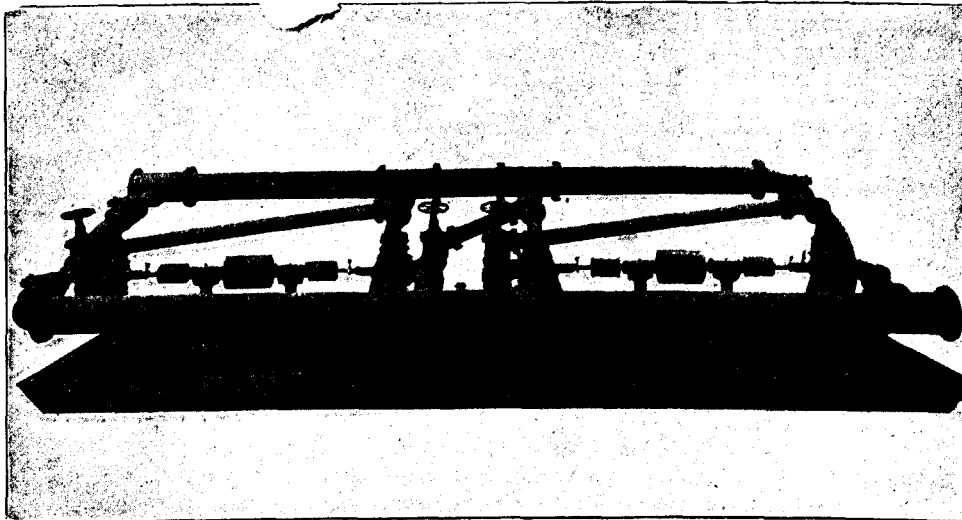
#### DEVELOPMENT OF THE CARIBOO.

CAMP M'KINNEY.

(From a Correspondent.)

IN the east drift of the 400-foot level of the famous Cariboo mine a strong body of high grade ore has been encountered.

This has been followed for a distance of over 400 feet. An upraise has been put through to the 300-foot level, and it is now the intention to sink a winze for at least 100 feet directly below this upraise. Should the ore body prove to be as strong at the 500-foot level, the upraise will be enlarged and pushed upward to the surface. This new shaft will have triple compartments, one compartment being reserved for sinking. It will



Jackson Quadrupler Centrifugal Pump for Hydraulic Mining.

impracticable to obtain water under pressure by gravity. It may also be used to deliver a larger quantity under a nominal pressure should there be any call for same, for sluicing, or other purposes.

reach the surface on the Okanagan claim about 150 ft. from the west side line. Work has also been resumed on the west drift of the 300-foot level almost directly under the mill and there is to be an upraise