

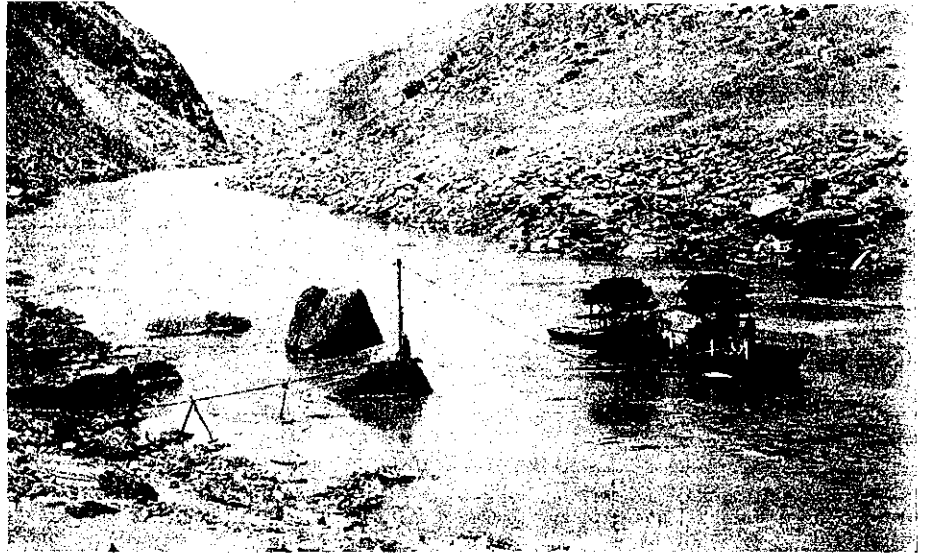
## An Important Industry of Central Otago.

Unlimited Water for Mines and Irrigation.

### A Unique Pumping Plant.

Kitto and Co.'s.

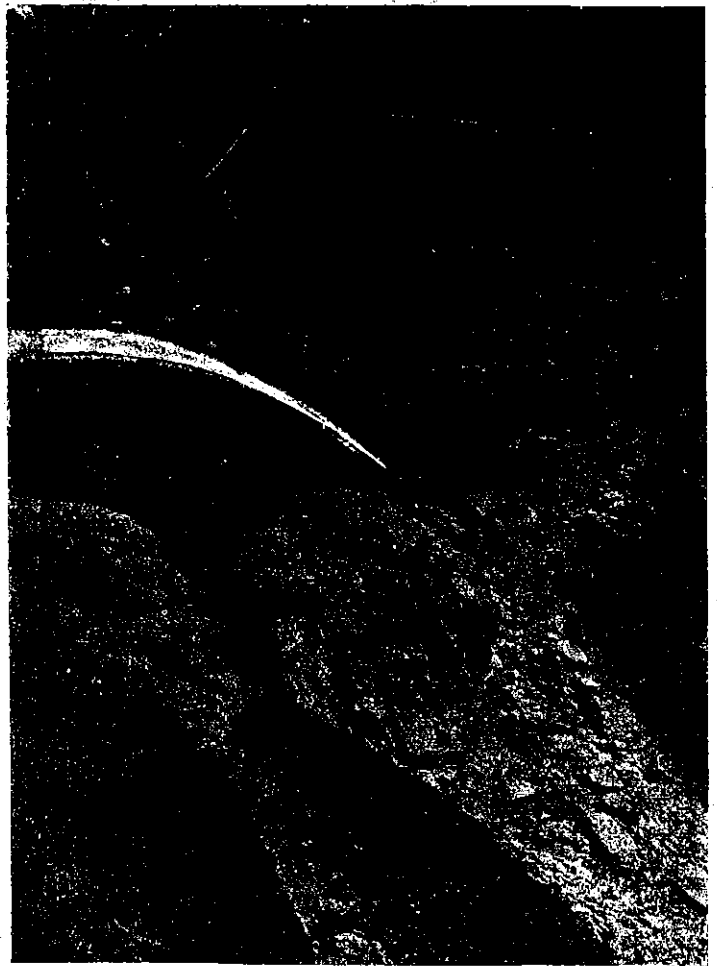
This plant, which we illustrate, is the invention of Mr. Kitto, long associated with mining—sluicing and dredging—in Central Otago. It is the only one of its kind in the Dominion which lifts water 400 feet above its own level for sluicing purposes. The pontoon was built and launched by R. P. and J. F. Kitto, who took some six weeks over the work, and navigated it to the claim seven miles by the river Clutha. Immediately after arrival they laid the pipes up the cliff, a work of great difficulty, and were delayed after its completion by a variety of accidents. The total length of pipes from pump to reservoir is 1000 feet. The wall of reservoir is built of stones and earth, the inside face being lined with cement, which renders it perfectly watertight. The original estimate was for a



THE PONTOONS, WHEELS AND PUMP.



THE WAY UP THE BANK FOR THE WATER.



THE WATER AT THE CLAIM.

pump of a capacity of fifty gallons a minute, but the capacity of the pump installed has been proved up to seventy-five.

The plant is giving great satisfaction, working day and night without further attention than the night and morning oilings. The new departure has opened up a new method of mining by which hundreds of acres of highly payable ground along the

banks of the river Molyneux (Clutha) can be mined far more cheaply than by the construction of water-races, which cost nowhere less than fifty shillings a chain to construct. There are millions of horsepower in the river to be had on the same terms. As there are besides the auriferous country many thousands of acres of fertile land waiting only for water to make it

produce in profusion, it would appear that a very prosperous future may be secured for the district. Struck by this consideration, Mr. Kitto took out a patent for his pump in 1888. The water of this big river is practically inexhaustible.

The machine in question will meet the irrigation demand with completeness, promptitude, and cheapness.