

The Jubilee Reservoir

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Pitching

The stone pitching on both of these dams was considered to be unique. As a general rule, stones forming pitching are laid horizontally, but as the rock fill forming the downstream part of the Shing Mun Dam is not founded on rock but on comparatively soft material it was certain that it would settle. It was thought that if the pitching were laid at an angle of 45° in a series of alternating slopes, the settle would not so easily be noticed, especially if joints were broken every few stones. So it was that the design of the pitching was first evolved purely to dissemble the effects of settlement, but on working out details it was noticed that the changing slopes led to the formation of a pointed arch and that the arches gave additional strength to resist any tendency which the pitching may have had to slide downwards. It was decided to "break joint" every third stone by half the height of a course, which involved the insertion of snecking stones, and as blue granite was locally available it

was decided to use it for this purpose. The central part of the rock fill has settled to date about 4 feet, part of the settlement having occurred since the pitching was laid, but there is no apparent evidence of this in its appearance.

Steps on Face of Dam

Although it is unusual to bring up a dam in higher lifts than 5 or 6 feet, it was decided to construct the diaphragm in 20 foot lifts on the Shing Mun Dam. It is customary to bolt "soldiers" to the face of a dam to carry sliding panels between them against which to place the concrete but at Shing Mun, with the special and comparatively thin diaphragm, it seemed better to do away with bolts, and the steps on the dam are the result of a study to that end. They have proved very successful and likewise afforded very convenient walkways from one side of the dam to the other.

The estimate of cost of the works was \$9,200,000, and although nearly \$300,000 worth of extra works have been added, the whole works were completed for approximately \$8,000,000.

Dulong Mining Company

The total advance for the month of February on the Sampaguita, Aurora, and Luna sections was 1,019.5 feet.

A crew of 12 men completed 780 meters of road on the Bimmace-Bolañget project.

The survey to all the portals was completed during February and the map is expected to be completed in about six week's time.

An epidemic of influenza caused some trouble last month but all employees have recovered.