## thubsday, may 2a, 1021 <br> A FEW PERTINENF Factis

| Undoubtedly the mont important step taken to inaure the advancemont of Prineville and to anfeguard the surrounding country againat a possible ahortage of water for crops wan when the Ochoco Irrigation District was formed in order to construct a reservolr for the atorage of water. <br> Lake Ochoco has a storage capaeity of 47,000 aere feet. That this in, of the utmont importance to the growth and development of Prineville is recognized by all familiar with the elty and fis ponabibition. <br> The Twohy Brothern Company, who originally started the conntruefon, were responsible for the erecHon of the large camp which made it poamible for the workmen to rumain near the works at all times. This company erected nuperintendenta' cottagen, roomy bunk housen for the emplayees, private living quartors for thone employees who brought their famillen with them, a big atore offices; dreasing rooms, warehounes mens hall and dormatory-the beat accomodations for all who farnished their brains and muscles toward completing the dam. <br> In spite of the enormoun increase in the cost of labor and construction materials occanioned by the war, the work was not abandoned but the project was puahed forward an rapdaly an ponsible. The price of labor had increased 35 per cent higher than at the time the contract was awarded. Steel cable, which was very difficult to get. cont 100 per ceth, more than it did previously. Blasting powder had risen 40 per cent, and cement 20 per cent. Foed, oats, and hay cost 100 per cent more than had formerly been pald, and freight rates increased 25 per cent. All of these ttemn were in constant demand almost dally $\ln$ large quantities on this construction work, and the fact that the work wan carried on in spite of this reverse is worth consideration. <br> The work of excavation in the matn canal was accomplished through the means of a large steam shovel, the heaviest plece of machinery ever used near Prineville. A great por- | tion of the main canal is through solid rock cuts and several long stretchen of flume aggregating about 4.000 feet in length was replaced by the large earth and rock canal, therely making a more permanent Job. <br> The large reinforced concrete condutt has a capacity of 1,000 cubic feet of water per second. After leaving the conduit the water flows through a concrete lined canal built on the steep rock hillalden for about one and one-half miles. This canal has a rock wall on one side and has a three inch concrete lining throughout the whole mile and a half. Although there was more than five timen the quantity of this rock wall than estimated the contractor would have completed the canal and lined it with concrete within ten days of the contract time, if it had not been necensary for the directors to have thly work temporarily dincontinued, in order to Irrigate some of the land It was necensary to build almost half a mile of road to get nand and gravel for the concrete up to the canal. <br> The big dam, which is 125 feet high and over 1,000 teet long and 600 feot thick on the bottom and 18 feet thick on the top, is the largest and most important part of the projoct. To built the dam, it required over half a million yards of earth and rock and nearly 6.000 yards of concrete. To stop the water from flowing under the dam, It was intended to oxcavate through the gravel in the foundation into the solid clay bed underlying the dam site. and to fill this trench with clay. It was, however, decided to build the dam in two individual sections, the first to ralse the water about forty feet and the second section to raise the water the full height. It was <br>  Instead of one, and the dam now has this additional factor of safety. <br> The main part of the dam is buift of earth and rock sluiced down from the mountain nides. Two large pumps driven by a 400 horse-power electric motor pumped $6,000,000$ kallons of water a day under great gallons of water a day under great | presure, loonened the material which was then carried into the dam through flumes and plipe lines. This pumping unit consisted of one $\mathbf{4 0 0}$ horeepower electric motor which was connected directly to twin five stage pumps weighing forty tons each and mounted on a concrete foundation of equal weight. <br> It was contemplated to get all the half million yards of material for the big dam from the south mide of the valley. The material there, however, proved a great dissappointment to everyone connected with the project. It contained so much rock and so little earth, that the powerful giants were unable to loosen it. The contractorn, at great expense, moved his giants and pipe lines to five different pits, but each one that was tried, turned out to be a dissappofiniment. By resorting to a great deal of expenilve blasting and other unusual work, enough material was necured to build the first section of the dam, which cortained about 50 ,000 cuble yards of materials. Another body of material was then located on the opposite side of the valley, and all the giants, pipe lines and other equipment were moved to this new location. <br> Continuing with the work on the north side of the stream, an abundance of material for the construction was obtained. <br> Slueing operations were under way at all times, unless the weather was unusually cold, which delayed the work only a short time. <br> The Twohy Brothers Company abandoned their contract on February, 1919, after completing approximately 26 per cent. of the structure. <br> The Ochoco District subsequently took over the work under the contract and entered into an agreement with the Slucing Department of the Puget Sound Bridge and Dredging Company, for the continuation and completion of the slucing and other operations. <br> During the season of 1920, the dam proved its worth by storing all the water ylelded by the drainage area, or abous 22,000 acre feet. The amount stored during the season of |
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woman and shouted cheerfolls. womno and shouted cheerfully:"
"I Is nearls trio clock."-New
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times. It saves you the trouble of always borrowing it from your neighbor.```

