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H. C. NEUFFER, SUPERVISING ENGINEER - PAGES 54 and 59

Water Supply Projects

Koams Canyon Domestic Water Supply

A concrete tank was constructed on the canyon wall above the Hopi Agency and School, Koams Canyon, Arizona, to increase the storage capacity for domestic supply. This work, under the direction of General Foreman Womack, was started early in October with the crushing of rock for aggregate and excavating for the foundation and floor of the tank. It was necessary to haul sand seven miles but the rock taken out for the foundation was suitable for the coarser aggregate. The floor and walls of the tank were poured by the end of November and the roof slab early in December although cold weather had set in. Some of the excavation for the pipe line was finished but the pipe was not laid until March, at which time all work was completed and put in service.

This tank provides a storage of 111,000 gallons and an increased pressure.

(Hopi Res. - A.R. - 1933, District #5, Pages 54 and 59)

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Water Supply Projects

Zuni Water Supply

A spring near the Agency has been the source of supply for many years but erosion of the arroyo in which the spring is located has resulted in a depletion of the supply. Plans provided for the construction of a concrete weir 80 feet long across the arroyo, with a 60-foot spillway undercutting the flow and bringing the water to the surface, thus providing a large saturated area above the weir. In this saturated area a system of open joint tile connects directly with the reservoir, 18 feet by 13 feet by 17 feet, with a capacity of 29,755 gallons. Pumping will be direct from the reservoir to the Agency and into the elevated tank there.

Work was started April 22 under the direction of General Foreman Womack and completed early in June. The principal units were the construction of the concrete weir, the extensive rock excavation necessary for the weir, the concrete reservoir, and a concrete bridge to carry the pipe across an arroyo. The total cubic yardage of concrete was 72.64.