

Monthly Report.
September 1911.

Albuquerque, N. M., October 13, 1911.

Mr. W. H. Code, Chief Engineer,
526 Federal Building,
Los Angeles, Cal.

Dear Sir:

I herewith submit my report for the month of September 1911.
Personal Movements. From the 1st to the 11th was in the office on regular routine work. On the 10th left and spent the day in Santa Fe, leaving the next day for the north. Arrived at Durango on the 14th; left for Hogback Canal on the 17th, returning to Durango the night of the 19th. Went to Ignacio on the 20th; returned to Durango on the 22d, and left on the 23d for Albuquerque, arriving the 25th. Was in the office the balance of the month.

Changes in Personnel. Mr. E. D. Kinney, Assistant Engineer, reported for duty on the 5th and he was assigned to the investigations called for by Circular No. 31.

Southern Ute. All of the work during the month was confined to the Ute Creek Lateral, and on account of the fairs and feasts held on the various reservations from which the supply of labor is drawn, but a small force was available. Three and one-half days were lost on account of rains and the Ute Fair.

The ditch is completed to Sta. 125, partly excavated to Sta. 135, and the right of way is cleared and grubbed to Sta. 165.

On account of the withdrawal of \$15,000 of the \$20,000 allotted to the Southern Ute work for the payment of the purchase of the Doctor Mor-

Underground Water Development. Springs. During the month Mr. Womack has completed the work on the Ishpi Spring, the main supply for the First Mesa (Moki),

As completed, the spring is now protected from most of the contamination from wind and water. The present condition is shown in the photographs and by the sketch annexed. The latter part of the month was occupied in cleaning and repairing the second in importance of the springs for this mesa, and which lies on the opposite of north side.

Well Drilling. Work on the construction of the new rig continues, and the first one should be in the field by the middle of October and the other one two or three weeks later.

At Keams Canyon, the deep well is down about 540 feet, still in shale. The small rig (No. 2), has completed a good well near Five Houses, moved to one of the older wells where a mill was erected and the well pumped free of sand with the power pump, and has another well about completed, which promises to be a good one.

Windmills have been set up at most of the completed wells, and rock is being hauled to build tanks at each one. Until the tanks are built the mills are being tied down to prevent damage to them.

The mills are being erected by the drilling crew, but the tanks will be built by Mr. Womack.

Zuni Irrigation Project. Heavy rains occurred almost daily during the last half of the month, but did little damage to the work at the reservoir but did some to the canal.

On September 1st the gauge height in the reservoir was 22.6. The valves were left open until about the 10th when the height was 19.7. The rains