

Report for
August 1912.

Albuquerque, N. M., September 25, 1912

The Chief Engineer,
Care Indian Office,
Washington, D. C.

Sir:

I herewith submit my report for the month of August 1912, which has been delayed by my absence from my office on a trip to Oregon detailed by orders of the Honorable Secretary of the Interior.

PERSONAL MOVEMENTS.

On the 1st and 2nd completed my trip to Crown Point in the Seven Lakes Country, returning the morning of the 3rd. In the office until the 9th, leaving the night of the 9th for Canada and Moki country, visiting all the rigs and their work going on those reservations, returning arrived at Albuquerque on the 22nd, where I remained until the 27th when I left for Oregon on the Umatilla Water Case.

SOUTHERN UTE.

On the Spring Creek Lateral work was continued on the drops. Drops one to seven were completed during the month. Drops Nos. 8 to 14 were excavated and partly concreted. Three spill ways were excavated and the paving partly completed. On this main lateral ditch there remains three cross flumes and the lateral headings yet to be done. Construction of lateral ditches in the Spring Creek Valley was commenced

PUEBLOS. San Felipe, Santa Ana and San Dia.

The surveys for the reclamation of the low lying and swamp lands of these Pueblos was continued during the month.

COCHITI.

The work on the new heading for the west side Cochiti Ditch was continued during the month with some breaks caused by the necessity of the Indians leaving this work in order to harvest their wheat at the proper time. This new heading is located in solid rock and will be permanent.

UNDER GROUDED WATER DEVELOPMENT.

In the Spring development work has been continued on the large Spring at Toreva. As stated last month quick sand was encountered and considerable difficulty was encountered in handling it, but by excavating small portions at a time and rip rapping the excavation, the work has been carried out very successfully and was completed the last day of the month. The Indians of the second mesa are now assured a good supply of clean water for their domestic use.

WELL DRILLING. Rig No. 1.

Work was continued on the deep well at Keams Canon during the month. The formation has changed from the grey shale to a brown stone of a similar formation but much harder and owing to the depth, over 1000 feet, the work is naturally slow. It is hoped that the change in formation may be an indication of our near approach to the Dakota sand stone and water, or a demonstration that there is no water at this depth.

Rig No. 2.

Two wells were put down by this rig during the month

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both of them in the Keams Canon. About a mile from Keams Canon Indian school. In the first well at 60 feet a sloping rock was encountered, lying at such an angle that the tools jammed and it was not advisable to continue deeper, so the rig was moved a short distance and the new hole put down to the depth of 90 feet. On the test run 500 gallons per hour were developed. The well was not completed, however, until September 9th.

Rig. No. 3.

Well No. 315 was completed and the driller has failed to return the amount of water developed on the test run. Well No. 316 was completed. Water was encountered at 15 feet and the well as completed was 26 feet deep and the discharge was 150 gallons per hour. Well No. 317 was put down 85 feet but no water found and work was begun on No. 318 which was down to 18 feet at the end of the month.

Rig. No. 4.

Rig No. 4 was at work on the school wells at Chin Lee. Three holes have been put down there close together and the best water found in the Chin Lee Valley and there promises to be a sufficient quantity for the use of the school. These wells are not located where it was expected the best water would be secured for upon a trial at that place water was salty in fact it was practically brine. The present wells are located at a point west of the school and the area where

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this good water is found seems to be limited, as test holes only a hundred feet either way encounters the bad water.

Herewith find cost data sheets and profile.

Very respectfully,

A handwritten signature in cursive script, reading "A. J. Robinson". The signature is written in dark ink and is positioned above a horizontal line.

Superintendent of Irrigation.