

Report for
July, 1912.

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Albuquerque, N. M., August 24, 1912.

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

Sir:

I herewith submit my monthly report for operations during the month of July 1912.

This report has been delayed by the non arrival of funds early enough to pay off for the month, on the first of August, and then by absence in the field.

PERSONAL MOVEMENTS.

July 1st and 2d in office. 3d to 6th in Santa Fe, to and including the 21st was in the office attending to routine matters and Annual and other reports. The 22d and 23d went to Gallup, 23d and 24th in office. The 26th went to Isleta with Supt. Lonergan, and on the 27th to Cochiti. To the 30th in office and on the 31st left for Crown Point School.

PUEBLOS.

During the month the surveys of the swamp and overflowed lands along the Rio Grande of the pueblos of San Dia, San Felipe and Santa Ana has been commenced in accordance with instructions from the Indian Office, and the construction of a new heading and a headgate for the West Side Cochiti Ditch has been inaugurated.

SOUTHERN UTE.

Work on the Spring Creek Extension and the laterals was continued with a small force. The nine drops in this section of the canal have been

Shiprock were washed out, and the bridge over the "big Arroyo" where we have Flume No. 1, which was replaced last winter was again put out of commission. Work on the repairs to the canal were begun immediately in order that water might again be turned into the canal.

ZUNI IRRIGATION PROJECT.

The rains began about the middle of the month, and there is again plenty of water in the reservoir. Between the 18th and the 24th the inflow was about 1800 acre feet, the gage reading now being 25.5.

The rains did some damage to the canal and to the water bridges, and also cut out the banks of the arroyo at Siphon No. 1. Repairs have been made and the arroyo banks protected by additional rip rap.

On the cutoff wall the last of the excavation to Station 7 was completed, and the driving of sheet piling was started, and it is estimated that it would require two weeks to complete the driving. The masonry cut off wall of the north side of the new spillway was completed and the spillway side wall is about completed.

Now that there is water in the reservoir the puddling along the wall will be commenced shortly.

SPRING DEVELOPMENT.

Mr. Womack has been working on the large spring at Toreva. After the excavation was commenced it was found that there was a great quantity of quick sand to be handled, and it was quite difficult to handle it and get the masonry walls started. The work is progressing nicely, the rock has all been quarried and quite a bit of the wall laid.

Contrary to all predictions by men who knew the Indians, there was no trouble in doing this work, the Indians not offering any opposition, although this is considered one of the most sacred springs at any of the mesas. I think that this is due entirely to the diplomacy of Mr. Womack, and the

tact with which he has handled the Indians.

WELL DRILLING.

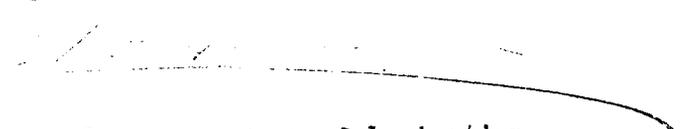
Well rig No 1 is still pugging away at the deep well at Keams Canyon, is down a little over 1000 feet and still in shale, although the character is changing, and it is hoped that it is an indication that we are approaching the sand stone.

Rig No. 2 has been working southwest of the Hopi villages and has put down five wells during the month. Holes 221 to 225 inclusive have been put down, aggregating 382 feet of hole, but no wells were developed. Trace of water was found but not enough to develop. The rig was then moved to Keams Canyon and a well began about a mile below the school near the trader's store where there was need of a well as the Indians coming in to trade would often be there all day and there was no water for their horses who would stand and suffer, and then make the return trip without water. There are also a number of bands of sheep which will water here. The trader gets his water from a small spring which is only sufficient for his needs.

Rig No. 3 was not operated the first two weeks of the month on account of a change in drillers. Well No. 315 was put down to a depth of 117 feet, good water being reached at 109 feet, the discharge on the test run being 150 gallons per hour.

Cost data sheets etc. are hereto annexed.

Very truly,


Superintendent of Irrigation.