Report for
May. 08.

Office Chief Eng'r.
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JUN 8 1908
U. S. Indian Service

DEPARTMENT OF THE INTERIOR,
UNITED STATES INDIAN SERVICE,

Blackrock, N. M., June 2. 1908.

W. N. Code, Chief Engr.
522 Bennuller Building
Los Angeles, Calif.

Sir:

I herewith report on the work done under my supervision during the month of May ~~last past~~.

There is now work under progress at four points - viz; the Mesita Dam, near Laguna; the completion of the Wheatfields work, north of Ft Defiance about 50 miles, on the Navajo Reservation; the survey of the reservoir site and lands to be watered therefrom at Leupp Ariz. on the Navajo extension reservation; and the work at Blackrock.

Mesita Dam. The work at this point is going on very well under the supervision of Geo. Rathbourne, foreman. The cribs are about completed, and nearly filled with stone. The sheet piling on the upper side are all driven and considerable portion at the toe. All material is now on the ground excepting perhaps some stone, and it is estimated that the work will be completed by the 10th inst. when I will have Rathbourne report at Zuni (Blackrock) to take charge of the heavy excavation on the ditch there.

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WH.6., 2.

Navajo — Wheatfields. As I wrote you some days ago I secured an engineer and foreman at Denver. The latter is also an engineer, willing to accept the lesser job while engineering work was scarce. This man, Don T. Hover, I have put in charge of this work.

The work, which was surveyed originally by the writer in 1904 consists of an earth dam forming a reservoir with a capacity of approximately 1539 acre feet, supplied from Wheatfields creek by means of a crib dam and short canal. There was also to be two ditches built to convey the water to the lands to be irrigated.

The diversion dam and ditch were built by Supt Butler, but the dam being built on the surface of the stream bed with no sheet piling, the water has gone under the dam. This will have to be repaired and sheet piling driven. The earth reservoir dam is about 3/4 completed, and a part of the distribution ditch is built. I outfitted Mr Hover from the tools etc left by Supt Butler at Ft Defiance. He should have been able to get on the ground and commence operations about the 26th ult. As soon as possible he will report as to the amount of work to be done and the probable length of time necessary to do it. I visited the work with Mr Hover and instructed him what to do.

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N. N. 6, 3.

Tempe. The work here is to make a plane-table survey of the reservoir site and a topographic map of the lands under the proposed reservoir. Among the letters in this office I found one giving specific instructions to make this survey. This reservoir will be one of considerable size. The dam site has solid rock bottom and sides. The dam will be approximately 400 feet long and 40 feet high. This will give a reservoir some 1¾ to 2 miles in extreme length and about ¾ mile in average width. The drainage area, taken roughly from the government map of Arizona is about 1050 sq. miles and includes the entire east slope of the San Francisco mountains and the north slope of the mountains to the south of which Sunset Peak is the highest. The discharge thro San Francisco Wash and Cañon Diablo is large at times, often being out of fording for several weeks at a time, and the flood season covers two periods, one in the spring and the other in the late summer when the summer rains come.

This work I have put in charge of Mr. R. G. Bush who I am carrying as Asst. Engr. and he has a party of three white men and a couple of Indians. As soon as the field work is completed will make up maps and plans and forward them for your approval.

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WHC., 4.

Zuni: I established headquarters here on the 26th of May. Mr Newhall, Asst Engr. Ritter and party arriving that day. Mr Ritter immediately made final location of a portion of the ditch line and work clearing the right of way began on the 29th. Excavation commenced with a few teams on the 2d of June.

The machinery for Supt. Granville left Blocksick on the morning of June 1, with 13 teams and 4 wagons and there are several more loads of the lighter pieces to go out.

Any points not fully covered by this report I will discuss personally with you on my arrival in Los Angeles.

Very respectfully,

H. F. Robinson

SUPERINTENDENT OF IRRIGATION.

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