

DEPARTMENT OF THE INTERIOR,
CHIEF ENGINEER, INDIAN SERVICE,
(IRRIGATION,)

5456
522 Bumiller Bldg.
Los Angeles, Cal.

Sept. 30, 1908.

Mr. H. F. Robinson, C.E.
Supt. of Irrigation.
Albuquerque, N.M.

Dear Sir:

I have the honor to transmit herewith my report on work done at Tuba, Arizona, for the month of September, 1908.

The dam in Reservoir Canyon was completed on the 23rd. with the exception of about one half day's carpenter work to be done on the trusses to which the valve stem is attached, which work will be completed by Mr. Janus, Superintendent. The valve came, and I set it in the masonry, but the stem has to be lengthened by welding on 2½ feet more, which Mr. Janus said he could do. I would have liked to have done this myself, but had to leave on the 24th., as Mr. Janus was having the teams go in to Flagstaff that day.

I stored the level, hand level, tape and tools with Mr. Janus, as you said in your letter that you would send in an assistant engineer to take my place.

Mr. Janus changed his mind with regard to furnishing us cement from his supply, and wishes us to replace what we used, viz: 77 sacks. Will you please ask your assistant engineer to take this up with Mr. Janus?

RESERVOIR CANON DAM.

Engineering	August	\$191.25
	Sept.	223.25
Total		<u>\$414.50</u>

Supplies.	Total	33.70
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Headgate	August was	248.25
		<u>306.77</u>
		555.02

Eng. Dept.
School "

Should be	421.50
	<u>22.37</u>
	443.87

Eng. Dept.
School "

Sept.	<u>20.00</u>
	463.87

\$8. white, \$12 Ind. labor.

(Note) Cement is worth only \$2.25 per cwt. at Tuba, instead of \$3.60 as per August report.

Spillway.	August	\$ 63.00
	Sept.	6.00
Total		<u>\$ 69.00</u>

Riprap/	August	\$ 56.00
	Sept.	428.00
Total		<u>484.00</u>

Rock	\$357.00
Ind labor	<u>127.00</u>
	484.00

1117 sq. yds. @ .433¢ \$484.

Fill.	August	\$606.00
	Sept.	167.88
Total		<u>773.88</u>

All Indian labor
and teams.

3112 cu. yds. earth @ .248¢ \$773.88.

Total costs Dam.

Engineering	\$414.50
Supplies	33.70
Headgate.	463.87
Spillway	69.00
Riprap	484.00
Fill	<u>773.88</u>
Total	\$2243.95

MOENCOPI WASH DAM.

Engineering	\$ 47.00
156 cu yds rock	231.00
Labor, Indian	46.75
	<u>\$ 324.75.</u>

The flood I mentioned in my last letter took out about half of the work I had done, including the top 18 inches of the part of the dam I had completed. As this 18 inch top was composed of the best and largest rock I could get, and was laid very solidly and carefully, it shows that it will be necessary to use some kind of binder material, if the dam is to hold.

The Moencop Wash flowed approximately 943 sec. ft. of water at the time it took out the dam, and sometimes it carries considerably more, I am informed.

I send under separate cover the pay roll for September. Also enclosed please find expense account for September. There was no charge for freight on the valve, as Mr. Janus brought it out himself.

Yours very respectfully,

Asst. Engineer.