

RECEIVED
SEP 15 1916
U. S. INDIAN SERVICE

-4-

Garado Project
Arizona

Report of work necessary
to complete the
Diversion and
Storage
Units

Sept 11-1916.

RECORDED AT THE NATIONAL ARCHIVES

DEPARTMENT OF THE INTERIOR
Chief Engineer Files
UNITED STATES INDIAN IRRIGATION SERVICE
SUPERINTENDENT OF IRRIGATION

Albuquerque, N. M.

September 11th, 1916.

Mr. W. M. Reed, Chief Engineer,
U. S. Indian Irrigation Service,
Washington, D. C.

Dear Sir:-

I am sending you Mr. Ritter's report on the work still to be done in the Ganado project on the diversion and storage units only. This includes the repair work necessitated by the floods in the Rio Pueblo Colorado.

In my letter of August 11th I asked whether money from the general Irrigation fund could be used for the repair in this project, and in your reply of August 17th, you stated that in as much as there is a special appropriation, you presume that a strict compliance with the law may make it difficult to utilize any of the funds from the Indian Irrigation reservation, but that as soon as Mr. Ritter's report was made, you would take the matter up and ascertain. Under the last Indian appropriation Bill, \$3,000.00 was appropriated for the maintenance and operation of the project. It will be seen from Mr. Ritter's report that this will be insufficient for the repair work necessitated by the flood, which will properly

2.

come from the maintenance and operation, and it must be remembered that the maintenance and operation of threefourths of the year must also come from this fund. In your letter you state " In the maintenance it will be necessary for you to go ahead with the fund available and put the system in such shape that it can be operated during the coming season".

I understand from this that I am to put the system in shape using any of the Ganado funds that may be needed to do this work. Of course this will take from the funds necessary for the construction work, and it is hoped that you will be able to include additional funds to make up the amount that will be used in this repair work.

Mr. Ritter's report covers 30 pages of manuscript in addition to blue prints and I will not undertake to make a resume of the entire report, allowing it to speak for itself.

I have gone over the proposed plans with him both in the office and on the ground, and I approve of the plans that he has made. On page 9 of this report Mr. Ritter takes up the question of the present spillways in the river, recommending that it is not of sufficient size to care for the maximum floods that may occur. In justification to this office, I would state that in the building of these head works an error was made by the man in charge in placing the head gates which was not according to the plans, and this error was not discovered until the headgates were all built.

About this time, Mr. Hill, Assistant Chief Engineer, visited the project with me and we went over the matter and decided that by raising ~~upon~~ the headgate the three feet mentioned by Mr. Ritter, that we would have a sufficient factor of safety to allow the headgates to remain where they had been placed.

The plans made by Mr. Ritter have been gone over pretty fully, and while I approve Plan No. 3 if we had sufficient money, I would scarcely deem it justifiable to remove the present headgates which are entirely uninjured by the flood with the exception of the wooden gates themselves, and for that reason would recommend his plan No. 3.

On page 10 of Mr. Ritter's report he provided for a storm water ditch and dike. This was provided for in the original plans and had been partially constructed when local floods came down and destroyed what had been done. This was just before we closed down the work for the lack of funds and they were not reconstructed and succeeding floods have practically obviated what was done. This work is absolutely necessary for the protection of the ditch.

It is to be greatly regretted that these floods should have come and damaged the project to such an extent when the amount of money appropriated is so limited, and the project was so nearly completion.

1.

Construction will be pushed on the work as soon as your approval of these plans has been received, and Mr. Ritter will make plans for the continuance of the ditch construction and its extension. This will be submitted as soon as possible.

Yours very truly,

H. F. Robinson

Superintendent of Irrigation

HFR-B