

DEPARTMENT OF THE INTERIOR,
UNITED STATES INDIAN SERVICE,
Moqui School,

Keam's Canon, Ariz. July 15, 1906.

The Honorable,

The Commissioner of Indian Affairs,
Washington, D. C.

Sir:-

I have the honor to report that preparatory to taking up, moving and cementing in the present water pipe which must be moved because the widening of the wash is going to carry out more of it and which I deemed it advisable to cover with cement to protect, I had the engineer make some examinations of the pipe and leaks made yet other examinations necessary.

He informs me that the pipe was put together by shrinking one joint on the other, and that it can be taken up only by cutting the rivets. This is complicated by the fact that in many places the rivets are so nearly eaten out that they will not cut but will tear out and that some joints of the pipe are not worth moving. He further states that there will necessarily be some loss in transferring the pipe to the other side of the wash for safety, that is some loss of pipe because of deteriorated pipe and because of the necessary loss where the rivets are cut to disjoint the pipe. The amount of such loss can not be determined except by uncovering the pipe and examining foot by foot and even then there will probably be conditions that will not be fully determined till the pipe is out of the ground. Under the conditions he recommends that

the present main be allowed to remain where it is and a new main laid of better pipe, either wood or some form of iron pipe that in emergency can be taken apart and repaired in the ground. He puts this on the ground that it is a long job to dig out and transfer the present pipe even if it is not covered with cement and that from the time the line is broken for the transfer till all is again complete we will be under the necessity of hauling water.

I have the honor to inform your Office that I can but approve of his findings in the matter and add that by putting in another pipe line the water supply will be continuous and when the old pipe is no longer needed in its present location it can be taken up and used in innumerable places on the reservation conducting water from springs badly located to where the stock can get to the water.

I last year ordered a lot of well casing for this purpose and it is being properly used and requested. This old pipe can be so used.

I therefore recommend that one of the engineers of the Service be sent here to lay out the new line and make estimate of cost of installing a system of four inch wooden pipe, and of again getting control of the flow of some of the springs of the system that have apparently backed up into the mountain and broken out into a flow at the bottom of the wash above their old outflow. It is my judgment that a good deal of the cement gotten to case pipe will be necessary in recapturing and holding this outflow from the springs.

Very respectfully



Superintendent.