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* M E M O R A N D U M *

TO: File
FROM: Richard B. Hall, P. E., Directing Engineer
SUBJECT: Logan River Distribution System Field Review
DATE: August 6, 1984

A field examination of the subject system was undertaken on July 31, 1984 with the following in attendance:

Clinton Crockett	Dorothy Boulton
Michael Turnipseed	Richard B. Hall
Jerry L. Bronicel	

With the exception of some flood damage at the 8th Ward Diversion and the Logan-Blacksmith Fork Canal Diversion, the headgates and measuring devices are generally adequate. The following items were noted and/or discussed.

- 1) All of the larger measuring devices have continuous recorders. Many of the devices are old and they are having trouble with the clocks. They have begun to budget for new recorders.
- 2) The city's springs produce approximately 22 cfs and they have a right for 10 cfs. To make up the difference, they have acquired stock in the various irrigation companies and can also directly replace water into the canals with their system of wells. There is some unresolved litigation on Logan City's rights and when it is resolved, the distribution will need to be modified. In lieu of replacing water with the wells, the city, at the option of the irrigation companies, can pay for the water lost at the rate of \$4 per acre-foot.
- 3) The natural flow of the Logan River is taken as the summation of the reading at the U.S.G.S. gaging station at the mouth of the canyon and the U.S.G.S. station at the Smithfield-Hyde Park Canal. It is possible that some of the water is being measured twice due to seepage losses from the canal. It would be more accurate to move the canal gaging station downstream to minimize this problem.
- 4) The Kimball Decree, which includes the Logan and Blacksmith Fork Rivers, gives users on the Lower Logan a better priority date than the users on the Lower Blacksmith Fork. There is no commissioner on the Blacksmith Fork so during low years, the State Engineer must cut off the users on the Lower Blacksmith Fork.

- 5) The commissioner said he was somewhat confused as to his authority and responsibility and wanted to know if we had any information on the subject. I told him we were going to prepare a manual, which would, hopefully, be available for the next irrigation season.
 - 6) We had a discussion on measuring devices, particularly on who should be responsible to pay for them. We did not feel the system should bear the cost.
- The following items need to be cleared up and/or researched.
- 1) Check with Ted Arnou at the U.S.G.S. to see if they have kept any parts from their older continuous recorders.
 - 2) Talk to the attorney general to see if it is legal to have a river system buy measuring devices to be placed on individual ditches.
- cc: Jerry L. Bronicek