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

TO: Deep Creek Distribution System File
FROM: Richard B. Hall, P. E., Directing Engineer
SUBJECT: FIELD REVIEW OF THE DEEP CREEK DISTRIBUTION SYSTEM
DATE: July 18, 1984

A field review of the above referenced system was conducted on July 17, 1984 with the following in attendance:

Robert F. Guy
Blake Wahlen

Richard Perry

Richard B. Hall
Jerry L. Bronicel

All of the major diversion structures and measuring devices were observed including the Julian Park Reservoir. The following items were noted:

- 1) The commissioner does not distribute water on Deep Creek above its confluence with Mosby Creek.
- 2) The commissioner has been monitoring individual diversions within the Mosby Creek Irrigation System after the water is diverted from Deep Creek. We discussed it and the feeling was that it was not his problem and the irrigation company should handle their own system once the water is diverted from the channel.
- 3) Considerable discussion concerning repair work on the natural channels also took place. It is the opinion of the State Engineer's Office that the owner of a diversion structure, reservoir, or similiar facility is obligated to pay for any rehabilitation work on the natural channel, which is necessary to divert their water or to protect their facilities. The system, as a whole, should not bear the expense, unless it can be demonstrated that all of the users on the system could benefit due to the repair work.
- 4) The Heuber Ditch (Lower End) Weir, located some .25 miles downstream of the diversion, is silted in and the debris has submerged the weir to the point it is inoperative. OL
- 5) At the time of the inspection, Lannie Cook was in the process of modifying his diversion. He needs to lower the flowline of his diversion ditch approximately two (2) feet to divert the water.
- 6) Darvel Cook's diversion has no headgate or adequate measuring device.
- 7) The Parrish Reservoir was observed along with the reconstruction of the bypass channel to the west. The costs of repairing the bypass channel were billed to the distribution system. The reservoir is not legal, no stream alteration application was filed, and the repair work would not have been necessary if the reservoir had not been constructed.

Richard Perry, Commissioner
Bob Guy, Area Engineer, Vernal Office
Blake Wahlen, Vernal Office
Jerry Bronicel, Hydrologic Engineer, Distribution Office

cc:

- 8) Arron Simmon's weir needs leveling and he has relocated approximately .5 miles on the creek without filling a stream alteration application.
 - 9) The weir for Mosby Creek needs to be installed. (It has been purchased.) The McKee Diversion struction should be calibrated so it can be used to measure the combined flows of Deep Creek and Mosby Creek less the McKee Diversion, which has a meter in the pipeline.
 - 10) The Lance Luck #1 Ditch has a Parshall flume, which needs the approach channel cleaned.
 - 11) Eugene McClain's water is now being diverted as he requested, based on a discussion with Bob Guy.
 - 12) The Mill Canyon Weir appears to have super-critical flow up stream of the weir. This needs further investigation.
 - 13) There is no measuring device on the East Mosby Ditch.
- Based on the preceding observations, the following items are recommended:
- 1) The State Engineer should order installation of the weir on Mosby Creek or no water will be delivered next year.
 - 2) Blake Wahlen agreed to calibrate the McKee Diversion structure so it can be used as a measuring device.
 - 3) The State Engineer should order installation of a measuring device on the East Mosby Ditch.
 - 4) Owners of the ditches with measuring devices, which need correction should be informed.
 - 5) We should get justification for the repairs undertaken near Parrish Reservoir, including why the system should bear the expense.
 - 6) The commissioner should be informed that he is not obligated to distribute water once it has been diverted from the natural channel (ie: The Mosby Irrigation System).
 - 7) In the future, we need to produce a new distribution map, schedule, and verify the accuracy of all of the measuring devices.