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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: Field Review of the Sevier River Distribution System
DATE: September 24, 1984

A field review of the subject system was undertaken on September 20th, and 21st, with the following in attendance:

Roger Walker
M. Stanley Adams

Kirk Forbush
Jerry L. Bronicel

Richard B. Hall

The following items were observed and/or discussed:

- 1) Vermillion Diversion - The channel has been realigned around the gaging station. This measurement is critical because it is the dividing line between the upper and lower zones and all of the water, which goes over the diversion dam, is classified as storage water.
- 2) Rocky Ford Reservoir - The Rocky Ford Irrigation Company has the right to fill the reservoir in March. Their water is diverted into a canal immediately below the dam and is measured by an 8' Parshall Flume. The commissioner stated that there is a problem created when storage water is diverted into canals and returned to the river because it then becomes part of the primary direct flow rights and cannot be stored downstream.
- 3) Gaging Station below Rocky Dam (Sevier River near Sigard).
- 4) Lost Creek - Both measuring stations are washed out. When they are in a current meter is used to determine the flows. Lost Creek is regulated upstream by Rex Reservoir.
- 5) Salina Creek Diversion - The measuring device is located downstream and was not observed.
- 6) West View Canal - The Parshall Flume is submerged due to downstream conditions. There is a continuous recorder on the flume.
- 7) Redmond Lake - (Independent Right) The lake discharges into the West View Canal. The measuring station is downstream of the dam.
- 8) Willow Creek - The measuring station is washed out with some 20' of erosion downstream of the box culvert under the highway.
- 9) Gunnison - Fayette Canal - A Parshall Flume, with a continuous recorder, is used to measure the flow. This company also has a right out of the San Pitch River.

Overall, the system is in good condition and has adequate measuring devices except those damaged from flooding. We need to check how the gaging stations are funded and who is responsible for their repair.

- 10) Sewier River below San Pitch near Gunnison Measuring Station - This station is no longer of value because the San Pitch River is contributing water below the measuring point and the station is inundated. The station is critical since it is used to determine the inflow into Sewier Bridge Reservoir.
- 11) Dover Canal - Flow is measured by two stilling wells (differential head).
- 12) Sewier Bridge Reservoir - The gaging station below the dam has had flood damage.
- 13) Gunnison Bend Reservoir - The spillway has been rebuilt to handle some 10,000 cfs.
- 14) Highline Canal - Flow is measured by two stilling wells (differential head).
- 15) Conk Diversion Dam - This is the last right on the Sewier River. A new diversion structure has been constructed. The surrounding land is very low and the water must be backed up all the way to Gunnison Bend Reservoir in order to get the water into the highest ditch.
- END OF FIRST DAY -
- 16) Delta Gaging Station - Washed out and needs to be relocated.
- 17) Canal A - Submerged Flume verified with a Current Meter. Diverts from DMAD Reservoir.
- 18) Sewier River near Lymdyl Gaging Station - Has received flood damage.
- 19) Pool Creek Reservoirs - The reservoirs are filled in the winter and pick up the waters between Sewier Bridge and DMAD Reservoirs.
- 20) Lemington Canal - Measured by a Parshall Flume.
- 21) Central Utah Canal - Diversion structure has recently been reconstructed.
- 22) The Cox Decree Flow Rates are not based on any kind of duty as such. The users were simply awarded the flow rate they claimed mostly because of the return flow characteristics of the river.
- 23) The Sewier River System is on a call basis.