



THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

ED. H. WATSON
STATE ENGINEER

July 26, 1944

Memorandum for office study only by L. C. Monson

RE: MUDDY RESERVOIR DISTRIBUTION AND FERRON CANAL RESERVOIR DISTRIBUTION

In accordance with the appointment made July 19, 1944, the writer met Mr. Cliff Snow at Ferron, Utah, on July 25, 1944. Mr. Snow, Mr. Gunderson, and the water master accompanied the writer to the head of the Rochester Canal for the purpose of checking the distribution of the water between the Emery and the Rochester Canal.

The Rochester people desired the writer to set a mark on the Emery Canal distribution, showing a mark at the elevation that would give them 88 sec. ft., the balance going to the Rochester Canal.

When Mr. Snow made the appointment, he estimated that there was 125 sec. ft. in Muddy River, however, when the writer measured the water, there was only 67.5 sec. ft. above the diversion. The writer explained to Mr. Snow that a mark set on the canal showing the elevation when 88 sec. ft. was in the canal was not the proper way to distribute the water inasmuch as the canal has no control and has a shifting channel and that such a mark would not maintain its gauging height discharge relationship. No other measurements were made on the Muddy River.

When the writer returned to Ferron, he found the water master of the Ferron Canal and Reservoir Company awaiting him with the request that he make a current meter measurement on the North Canal and on the South Canal, which was done. The North Canal had 54.7 sec. ft.; the South Canal had 26.5 sec. ft. This showed the fact that the ^{south} canal was not getting all the water to which they were entitled at present, inasmuch as they are entitled to 7/12 of the present stream flow.

L.C.M.

LCM/des