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MEMORANDUM: For Office Study

TO: Hubert C. Lambert, State Engineer
Donald C. Norseth, Distribution Engineer

FROM: Gerald W. Stoker, Area Engineer

As per instructions from the State Engineer on a request from Allen J. Tibbals, Attorney for the Rocky Ford Irrigation Company, an inspection of the diversions, diversion works, and measuring devices was made on April 24, 1967. This inspection was made by the Area Engineer, Gerald Stoker and the Beaver River Water Commissioner, Lee Strong. Previously, on April 18, 1967, the inflow into the Rocky Ford Reservoir and the Aberdare Canal had been measured and found to fluctuate greatly. The second examination was scheduled at the request of Mr. Lee Strong because of various points that seemed lacking in detail.

On this April 24th inspection we found all diversions below the Barton Ditch diverting water in the following amounts:

(in flow)	Flow	Pro rata Flow
Barton Ditch	0.85	1.37
Aberdare Canal	2.08	2.70
Emerson Ditch	0.58	0.61
Furnace Ditch	2.01	1.49
South Ditch	0.50*	0.56
Hay Ditch	0.30*	0.33
Gaging station (Res.) recorded a 68 reading which equals 3.12 CFS from table No. 4, Beaver River Curve, U.S.G.S.		

The pro rata flow was figured on the total flow (rounded off) of the above listed diversions. From these figures the Rocky Ford is receiving more than their share of the reflow of the Beaver River but it is evident from rechecking these diversions on other occasions that the reflow fluctuates wildly at times, depending on the area being irrigated and its proximity to the river. If the river had a base flow to work with it would be a different matter in setting up a schedule of distribution but with the reflow varying so greatly it would be very difficult to adjust the control gates to proportion this water.

It would be my suggestion that we meet with the opposing parties and arbitrate an agreement between them where they might establish turns using the whole stream rather than a proportional share of the stream. Mr. Lee Strong has additional information (flow measurements, etc.) that will be available upon request. *LS*

* Estimation only