

May 23, 1957

Mr. Clifton W. Johnson  
286 E. 5th N.  
Logan, Utah

*Re: Burnt Fork Dist.*

Dear Cliff:

Thank you very much for your report on your recent trip to Burnt Fork area of Utah and Wyoming. I am sorry that you had so much trouble getting into the area. This is a little hard to understand in light of the trip which I made in there more than a month ago when I thought that spring was coming. However, we have had some very abnormal weather all over.

It is good to know that you were able to get in, however, and to begin thinking about the distribution problem and the work with Mr. Stoll.

Would you check with the Foundation there in regards to getting a light portable 9-inch weir Parshall flume constructed for use in your small stream run-off work. It is my suggestion that perhaps the converging and throat section is all that would be necessary for your purpose. I don't believe that I would add the diverging section because of the added weight and size required. Also I believe that it might be well to have a piece of canvas or plastic attached to the front. This would allow the flume to be quickly installed without throwing around too much soil. However, you might give this a little thought and we will firm it up when you get here. I am not sure that the Research Foundation is the place to get it constructed but I merely suggest it in case you get a chance to talk with them and we could follow up.

I have just returned from Washington, D.C. and, therefore, did not get to answer your letter before this morning.

Sincerely yours,

Wayne D. Criddle

WDC/eca

286 E. 5th N.  
Logan, Utah  
May 19, 1957

Wayne D. Criddle  
State Engineer  
Salt Lake City, Utah

Dear Wayne:

With reference to my recent trip to the Burnt Fork area of Utah and Wyoming:

Due to the recent storms I had some trouble getting to Burnt Fork and had to go by way of Manila. I arrived about 10:30 A.M. on the 16th. Louis Stoll and three other water users were waiting when I arrived and it was decided that since the roads were almost impassible that the most I could accomplish at this visit was to visit the diversions and decide on some method of improving the system of water measurement. Therefore, Louis and I, by pickup and horses, visited most of the diversions and springs. Some of the diversions were still jammed with ice and beaver dams. The spring runoff has not started yet due to the cold weather and there was nearly 6 inches of ~~snow~~ at the upper diversion.

From my observations the greatest immediate need is to set up a fairly reliable system of water measurement. I don't think headgates at the diversions are necessary and the measuring points should be far enough below the diversions to not be effected by beaver dams and other problems on the main creek. My first suggestion is that simple lumber weirs should be installed on each ditch and that a stilling pond should be constructed for each. Louis Stoll thinks this would not be a burden on the users. Perhaps some other means should also be considered.

(about 9-inch throat)

For future trips to the area a small portable Parshall Flume would be excellent for spring flow measurement. Also, a dozen staff gauges are needed for permanent installation. The flume would need to be about the capacity for measuring 4 feet per second.

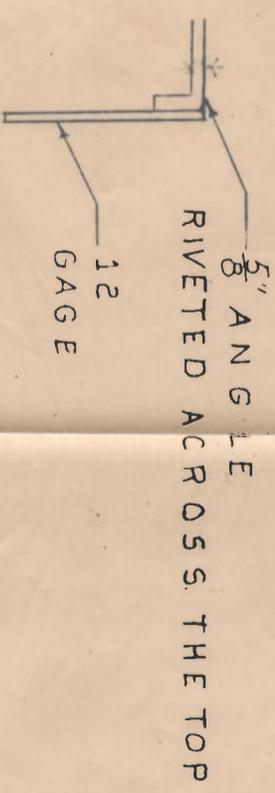
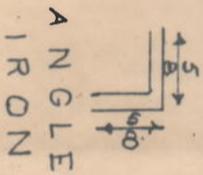
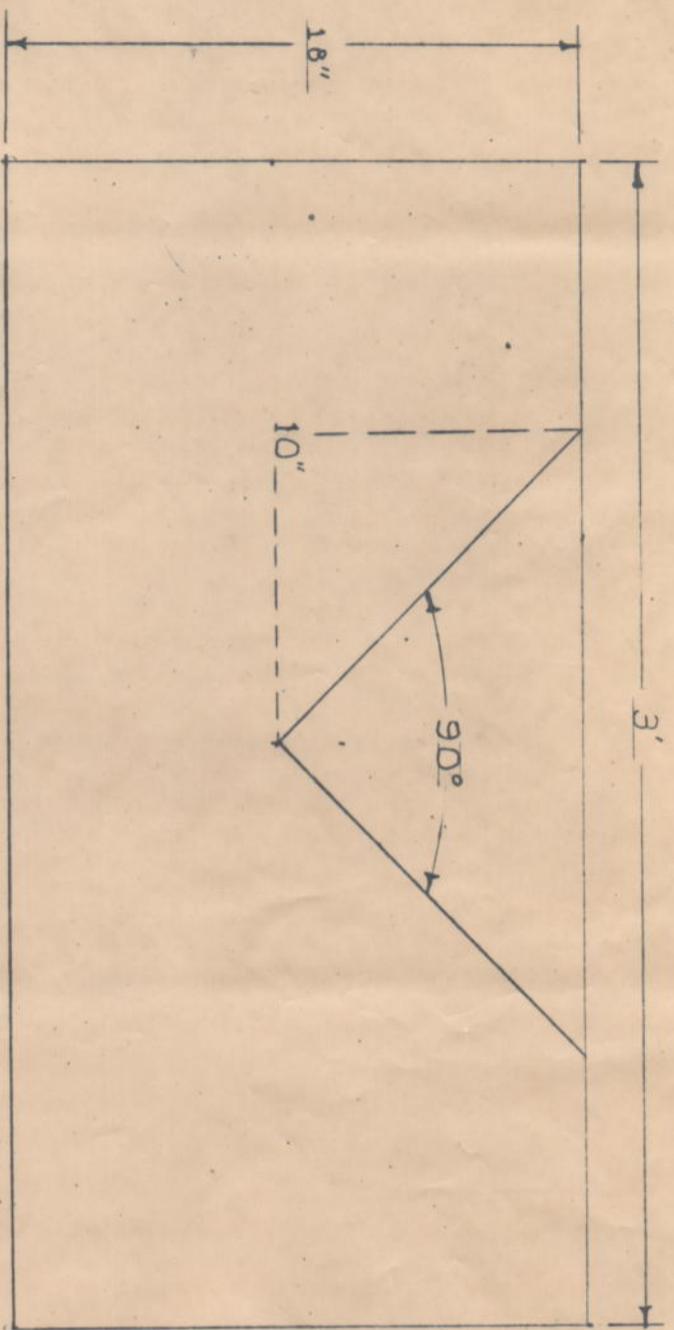
I visited Emil Gradert in Fort Bridger and find him very cooperative. Also, I went to Kemmerer but was not able to contact Jesse Ragsdale. I will report further the next time I am in Salt Lake City.

Sincerely,

*Clifton W. Johnson*



90° V-NOTCH WEIR



STATE ENGINEERS OFFICE  
 SCALE: 2 IN = 1 FT