RECEIVED
JUL 31 1967
STATE ENGINEER'S OFFICE

Sterling, Utah
July 28, 1967

Dear Sir;

Enclosed is the information requested. The amount of water stored, and the plan of delivery, to Sterling Irrigation Co.

On the plan of delivery the figures Mr. Brotherson has shown may not always be the same figure. What he is showing is how the water can be measured from the mine stream into the Ottosen Ditch.

We plan on taking 1/2 C.f.s. of water from the Lake Co. part of the mine water until we have used our share.

We plan on turning this in on the 7th or 8th of Aug. 1967

If this information is not complete please let me know.

Sterling Irrigation Co. & the Lake Co. would like an appointment with the State Engineer by the 15th of Aug. 1967. To set up a permanent plan of storage for Sterling Irrigation Co's winter water. Please let us know the time & date. If he is going to be in our area within the

Near future we can plan a meeting in our area. Otherwise we will come to Salt Lake.

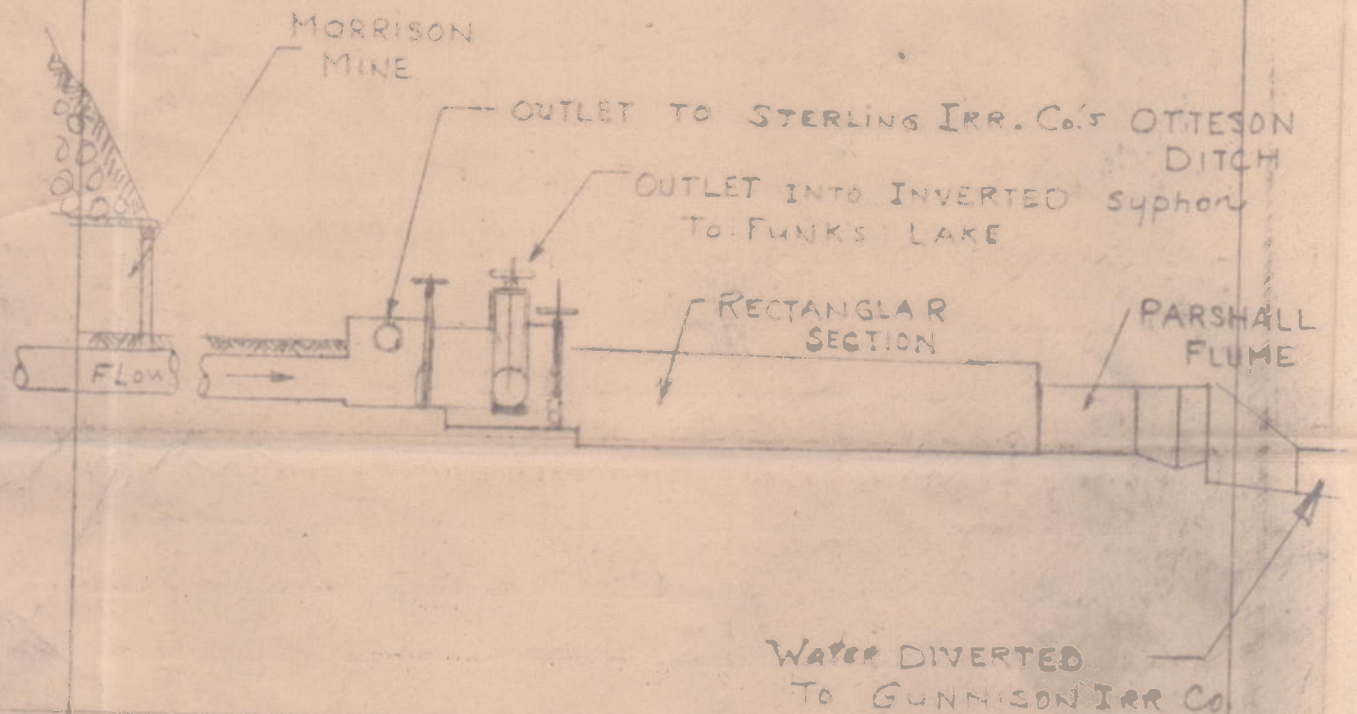
Yours truly,
Clair Allen

Sterling Irrigation Co.

T.M.B & L.J. July 20-47

Water Control Structures & Measurements

Morrison mine outlet control Detail



WATER DIVISION

0.5 c.f.s. = Sterling Irr Co.
0.5 c.f.s. = North Six-Mile
1.0 c.f.s. = Gunnison Irr. Co.

All over 2 c.f.s = North Irr. Co

To measure water Diverted:

① Turn all water thru Parshal - find Total "Q"

② Turn gate into Otteson ditch until weir shows 0.5 c.f.s less going thru weir

③ Turn gate into Syphon until "Q" going thru Parshall is (1.5 c.f.s) 2.0 c.f.s

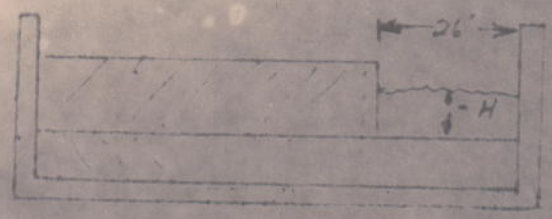
④ Then Gunnison Irr. Co. is receiving 1 c.f.s.
North Six Mile 0.5 c.f.s. Sterling 0.5

Water measurement

STERLING IRR. CO.

T.M.B. [illegible] July - 67

Calculation of Water storage from Six-Mile into Funks Lake for 1966-7 Irr. Season



Broad Crested Suppressed Weir

$Q = C L H^{3/2}$

$C = 3.0$

Sterling Irr. %	Date of Measurement Date	Depth	Discharge c.f.s.	Volume Acre-feet Day	Days storage Per Month	Volume storage Per Month	Remarks
50%	Dec 1 to Jan 9-67	4.5"	1.71	3.42	40	13.68	Broad crested weir (L=26")
38%	Feb 9 to 19	5"	1.72	3.44	10	34.4	Sharp Crested 24" weir
	Feb 19 to 24	5 1/8	1.78	3.56	5	17.8	"
	Feb 24 to 28	5 3/8	1.94	3.88	4	17.52	"
	Mar 1 to 6	6 1/2"	2.53	5.06	5	25.3	"
	Mar 6 to 11	6"	2.26	4.52	5	22.6	"
	Mar 11 including Mar 20	4 1/6"	1.28	2.56	11	28.16	"
Total						282.58	

half of - 136.80 = 68.4 ac/ft.

38% of 145.78 = 55.4 ac/ft

282.58

Total Storage } = 123.8 Ac-ft.

(2.0 [illegible]) 2.0 [illegible]

sterling 0.5