

Record of Series of measurements of flow of water at discharge of pipe line at mouth of Taylor's Canon in N.W. 1/4 of Sec. 35, T. 6. N. - R. 1. W. Method of measurement was to catch the flow in a box discharging from a receiving box.

The dimensions of the measuring box were 6 feet long, 1.5 feet wide and 1.015 feet deep. A glass gage was attached to the side of said box with having a gage mark .97 ft. above the bottom of the box, also a mark 1.015 ft. above bottom. The .97 is designated "low gage". The water flowed into said box from a receiving box into which the pipe discharged. The receiving box was for the purpose of checking the velocity of the water. A partition of tin was also fastened across the measuring box to further check said velocity. The gage was for the purpose of more closely observing the height of water in the measuring box.

The measurements were as follows: Cont.

1) Aug. 6 - 6 - P.M. clear day hot

observation	(1)	low gage	1.00	=	16.00 seconds
"	2	"	1.00	=	16.00 "
"	3	"	1.00	=	16.00 "
"	4	"	1.00	=	16.00 "
"	5	"	1.00	=	16.00 "
				mean	16.00

contents of box = 7.5 cub. ft.
 discharge = 0.47 sec. ft. nearly
 16.00) 750 (0.47 marked
 640
 1100
 1120

2) Aug. 8th 6-30 P.M. clear + hot

observation	(1)	low gage	1.00	=	16.00
"	2	"	1.00	=	16.00
"	3	"	1.00	=	16.00
"	4	"	1.00	=	16.00
"	5	"	1.00	=	16.00
				mean	16.00

7.5 cub. ft. in 16 sec. = 0.47 sec. ft. nearly
 marked to Halverson
 Note: Error in this measure. The low gage was actually use = 0.97 makes flow = 0.454 second ft.

3) Aug. 12 - 06 - 9.30 AM clear - hot.

obs.	(1)	gage	0.97	=	20.6 seconds
"	(2)	"	0.97	=	19.2 "
"	(3)	"	0.97	=	20.0 "
"	(4)	"	0.97	=	20.0 "
"	(5)	"	0.97	=	21.0 "
"	(6)	"	0.97	=	20.5 "
				mean	20.21

contents of box = 7.275 cub. ft.
 7.275 ÷ 20.21 = 0.36 second foot. marked to Halverson

4) Aug 15 - 1906 - 6 - P.M. clear & hot day

obs.	(1)	gage =	0.97	time =	23.2 seconds
"	(2)	"	0.97	"	22.2 "
"	(3)	"	0.97	"	22.8 "
"	(4)	"	0.97	"	22.8 "
				mean	22.75

contents of box = 7.275 cub. ft.
 7.275 ÷ 22.75 = 0.32 sec. ft.

Aug. 21 - 9. AM. cloudy. Raind - 19th & 20th very hard.

obs.	(1)	low gage =	0.97	time =	20.2 seconds
"	(2)	"	0.97	"	20.2 "
"	(3)	"	0.97	"	21.0 "
"	(4)	"	0.97	"	20.2 "
"	(5)	"	0.97	"	20.5 "
				mean	20.42

7.275 ÷ 20.42 = 0.358 sec. ft.

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