

Aug 27 - 1912

I made survey to verify former survey by City Eng. on 24th lot Grant of Lincoln Blk 33 - Plat A. in Mrs. V. Lee -

Went to Hooper - with G. M. Conway and ran levels for ditch to divert waste water into N² Sec. 9 T. 20 N. R. 2. W. returning at 1 P.M.

Sept 18th 1912 - Survey for Reservoir Site for Hooper Irrigation Co. in Weber Valley Morgan Co. Wt.

Level up S. Side of Dry Creek at Dam Site

+ 13.00 = 13.00	50.00
- 0.0	63.50
+ 12.1	63.50
- 0.0	71.6
+ 11.7	75.6
- 0.0	87.3
+ 12.2	87.3
- 0.0	99.5
+ 11.7	99.5
- 0.0	111.2
+ 12.1	111.2
- 0.0	123.3
+ 12.5	123.3
- 0.0	135.8
+ 12.2	135.8
- 0.0	148.0
+ 12.5	148.0
9.9	160.5
	150.6

in bed of Dry Creek in old Exc.

Dec. 15 - 1912 - Made preliminary Estimate of cost of Dam as follows -
 26000. yds of earth @ 20cts = \$52000.
 4000. yds of concrete @ 5. = 20000.
 outlet tunnel & gates = 10000
 \$82000

front slope = 2 1/2 to 1 = water face
 back slope 2 to 1
 corr 6' in bottom 2' in top

on old stakes

Ver. dis. or dif. in Elev.	Vertical Angle	Horizontal	Stadia Readings from old stakes at S. end of dam	var. 16° 48'
	0°-0'	0.00	4.7 470.0	✓ N 45° W, along dam site
+12.55	+ 0°-56'	7.7	769.7	✓ N 72° 22' W to S.E. Cor. Chumy in back Ho.
-36.64	- 10°-35'	4.80	463.8	✓ N 24°-30' E
-17.0	- 1-20	7.30	729.6	✓ N 27° 00' E
+10.44	+ 0°-40'	9.00	899.9	✓ N 26° E
+7.8	+ 0°-30'	9.00	899.9	✓ N 24° 10' E
-79.8	- 4°-20'	10.60	1053.9	✓ N 49°-20' E
0.0	- 0°-00'	13.00	1300.0	✓ N 40°-34' E
+96.7	- 20°-04'	3.00	264.7	✓ N 25°-00' W

10' S. of Creek
 100 yds. N. of Cr.
 To Station (2)
 to Creek bed

Stadia Reads from Sten. 2 - El. 1170.00
 ✓ S 40°-34' W. To Sta. 1 - bottom

-56.5	-5°-15'	9.50	942.0	✓ S 40°-00' W
-4.2	-0°-15'	9.50	950.0	✓ S 28°-00' W
-4.6	-0°-10'	8.00	800.0	✓ S 5°-00' W
-80.7	-7°-33'	6.20	609.2	✓ S 11°-40' W
-74.7	-5°-40'	7.60	752.6	✓ S 18°-30' W
-75.9	-10°-20'	4.30	416.0	✓ S 25°-08' E