

Washington Well #6

Test Pump

June 29, 1956

Varner Well Co.

Time	Piezo Guage Inches	GPM	Air Gauge Reading	Draw Down	Yield gal. /ft. d. d.	Remarks
12:10 PM	12		172			Static
12:20	13 1/2	580	220	48		
12:30	10 1/2		224	52		
12:35	11	515	223			
12:45	11	515	225	53		
1:00	11		225			Water cloudy. Slight H ₂ S
(Pumping Level #5 = 188.45 6-29-56 #6 Not pumping)						Depth Air Line = 280' = Top Bowls 6" Orifice, 8" pipe Discharge 10" Column 1 15/16" shaft 5stage 10" bowls = 5' long / 20' suction pipe (Static 168'5" - June 29, 1956)
<u>July 2, 1956</u>						Static 171.5 July 2, 1956
1:20 PM	11.5	545	225	53.5	10.2	1.5 ppm Fe. V. Hrdns. 370 ppm
1:40	11.75	550	226	54.5	10.1	Cl = 60 ppm
2:00	12.25	562	228	56.5	9.95	
2:10	13.0	578	230	58.5	9.89	Cut down Disc. Value
"	11.75	550	229	57.5	9.58	
2:20	11.80	552	227	55.5	9.95	
2:45	12 1/4	562	227	55.5	10.1	Well #5 Pumping Level 192.25' corrected to Well #6 = 193.42'
3:00	12 1/4	562	227	55.5	10.1	
3:30	12 1/4	562	227	55.5	10.1	Pump Speed 1480 RPM

Time	Piezo Gauge Inches	GPM	Air Gauge Reading	Draw Down	Yield gal. /ft. d. d.	Remarks
4:00	12 1/2	567	227	55.5	10.2	Water slightly cloudy
4:30	12 1/2	567	227	55.5	10.2	Cl = 60.7 ppm Fe = 0.8 ppm
5:00	12 1/2	567	227	55.5	10.2	Well #5 (same as above)
5:30	12 1/4	562	227	55.5	10.1	Well #5 Shut off
5:45	12 1/2	567	227	55.5	10.2	" " " "
6:00	12 3/4	572	226	54.5	10.5	" " " "
6:15	12 3/4	572	226	54.5	10.5	" " " " T° 72F
6:30	12 3/4	572	226	54.5	10.5	" " " " T° 72F
6:35						Fe = 0.6 Cl = 60.7 V. Hrdns. 260
6:45	12 3/4	572	226	54.5	10.5	Well #5 Shut off. T. 72°F Clear
7:00	12 1/2	567	226	54.5	10.4	" " " "
7:20	12 3/4	572	226	54.5	10.5	
7:40	12 3/4	572	225	53.5	10.7	Well #5 Shut off. Static 168.0 @ #5 (corrected to #6 = 169.19)
8:00	12 3/4	572	225	53.5	10.7	Fe = 0.6 Cl = 60.7
8:25	12 3/4	572	225	53.5	10.7	Well #5 Shut off
8:50	12 3/4	572	225	53.5	10.7	" " " " Water Temp. 72°F
9:30	13	578	227	55.5	10.4	" " " "
9:50	13	578	227	55.5	10.4	" " " "
10:00	12 3/4	572	226	54.5	10.5	" " " "
10:30	12 3/4	572	226	54.5	10.5	" " " "
11:00	12 3/4	572	226	54.5	10.5	Well #5 on @ 11:00 PM
11:30	12 1/2	567	226	54.5	10.4	V. Hrdns = 390, Cl = 60.7, Fe = 0.6
11:50	12 1/2	567	227	55.5	10.2	
12:10 AM	12 1/2	567	227	55.5	10.2	
12:30	12 1/2	567	227	55.5	10.2	

Time	Piezo Gauge Inches	GPM	Air Gauge Reading	Draw Down	Yield gal. /ft. d. d.	Remarks
1:00AM	12 1/2	567	227	55.5	10.2	
1:30	12 1/2	567	228	56.5	10.0	
2:00	12 1/2	567	228	56.5	10.0	
2:30	12 1/2	567	228	56.5	10.0	
3:00	12 1/2	567	228	56.5	10.0	
July 3						
3:30AM	12 1/2	567	227	55.5	10.2	
4:00	12 1/2	567	227	55.5	10.2	Well #5 Shut off 4:05 AM
4:30	12 1/2	567	227	55.5	10.2	" " " "
5:00	12 1/2	567	226	54.5	10.4	" " " "
5:30	12 1/2	567	226	54.5	10.4	Air Temp. 64°F, Water Temp. 72°F
6:00	12 3/4	572	227	55.5	10.3	Cl=60.7, Fe=0.6, V.Hrdns=380
6:10						Well #5 off. Static 168.08' (Corrected to #6=169.17)
6:30	12 3/4	572	227	55.5	10.3	Well #5 off
7:00	12 3/4	572	227	55.5	10.3	" " "
7:10	12 1/2	567	226	54.5	10.4	" " "
7:30	12 1/2	567	226	54.5	10.4	Water clear
7:30	24	776	255	83.5	9.3	Increased Pumping Rate Pump speed 1625 RPM
7:33	24 1/2	784	258	86.5	9.1	Well #5 off
7:38	22 1/4	748	261	89.5	8.35	" " "
7:45	22	744	261	89.4	8.3	" " "
7:50	21 3/4	740	262	90.5	8.17	Water Milky

Time	Piezo Gauge Inches	GPM	Air Gauge Reading	Draw Down	Yield gal. /ft. d. d.	Remarks
8:00	21 3/4	740	262	90.5	8.17	Water Milky
8:15	22	744	262	90.5	8.21	" "
8:30	21 3/4	740	262	90.5	8.17	" "
8:40						Well #5 off Static 168.92' (Drop 0.84' with increase pumping #6 (Corrected to #6= 170.09')
8:45	21 3/4	740	262	90.5	8.17	Water Temp. 73°F, Cl. =60.7, Fe=0.6
9:20	21 1/2	735	262	90.5	8.12	Water Cloudy - Clearing
9:30	21 1/2	735	262	90.5	8.12	
9:40						Well #5 off Static 168.92' (Corrected to #6=170.09')
10:10	21 1/2	735	262	90.5	8.12	
10:15	33 1/2	901	276	104.5	8.62	Increased Pumping Rate
10:20	31 3/4	879	276	104.5	8.40	Water Brown Color
10:25	31 3/4	879	276	104.5	8.40	Water slightly milky
10:30	31 3/4	879	277	105.5	8.32	Water milky, heavy
10:40	32	882	277	105.5	8.36	Well #5 off, Static 169.54 (Corrected to #6=170.71)
10:50	32	882	276	104.5	8.43	
11:00	27 1/2	825	277	105.5	7.81	Decreased Pumping Rate Occasional decrease discharge
11:10	27 3/4	828	277	105.5	7.85	
11:20	27 3/4	828	277	105.5	7.85	
11:40	27 1/2	825	277	105.5	7.81	Well #5 On, Pumping Level 191.42 (Corrected to #6 = 192.59)
11:45	12 1/4	562	262	90.5	6.20	Decreased Pumping Rate
11:50	10 1/4	515	242	70.5	7.30	" " "
12:00	11 1/4	539	232	60.5	8.90	

Time	Piezo Gauge Inches	GPM	Air Gauge Reading	Draw Down	Yield gal. /ft. d. d.	Remarks
12:10						V. Hrdns. 410, Fe=0.6, Cl=60.7
12:20	11 1/4	539	232	60.5	8.90	
12:30	11 1/4	539	232	60.5	8.90	Collected mineral S. Hyg. Lab. Bottle

RECOVERY

Time	Air Gauge Reading (Ft.)	
12:30	232'	Shut off pump
/30 sec.	209	
12:31	193	
/30 sec.	183	
12:32	174	
/30 sec.	172	
12:33	171	
/30 sec.	171	
12:34	171	
/30 sec.	171	
12:35	171	
12:37	170	
12:40	170	170'-6" Electrode Reading as check on Air gauge

RELATIVE ELEVATIONS

	#5 Well	= 100.00 Top head @ breather hole
	#6 Well	= 101.17 Top 20" casing
6-29-56	Pumping level #5 = 188.45	Well #6 off
6-29-56	Static Well #6 = 168.42	Well #5 running
7-2-56	Static Well #6 = 171.50	Well #4 & 5 running
<u>Notes:</u>	1936	Well #4 Static 127')
	1946	Well #5 Static 148') drop 2' / yr. / 20 yr.
	1956	Well #5 Static 168')