

Appendix C. Aquifer Test Measurements During Testing at Wells USGS 140 and USGS 141

Aquifer Test Data

Well Name: **USGS 140**

[Aquifer test data for well USGS 140. **Abbreviations:** T1, test 1; T2, test 2, NA, not applicable; DTW, depth to water; MP, measurement point; NGVD, National Geodetic Vertical Datum of 1929; ΔWL, water level change; Q, discharge; Avg., average; gpm, gallons per minute; BLS, below land surface; mm/dd/yyyy, month/day/year; hh:mm:ss; hour:minute:second].

Time Data			Water Level Data			Discharge Data		Test Notes
Pump on T1:	10:00	7/30/2013	Depth to water T1:	489.95	(feet)			Test Summary
Pump off T2:	8:30	7/31/2013	Depth to water T2:	489.86	(feet)	Discharge Type(s)		Δ WL Test 1 (ft): NA
Duration:	22.3	(hours)	Surface MP (NGVD29):	4936.51	(feet AMSL)	1. Flow meter	FM	Δ WL Test 2 (ft): -0.01
Pump on T1:	9:11	7/31/2013	Etape 2 correction:	0.16	(feet)	2. Volumetric	VM	Avg T1 Q (gpm): 23.9
Pump off T2:	10:10	7/31/2013	Stickup:	-2.47	(feet)			Avg T2 Q (gpm): 23.7
Duration:	0:59	(hours)	Deviation correction:	-0.26	(feet)			
			Total DTW correction:	-2.57	(feet)			

Date (mm/dd/yyyy)	Time (hh:mm)	Run Time (hh:mm:ss)	WL Etape: (feet)	Corrected WL (feet BLS)	Drawdown (feet)	Discharge (gpm)	Type	Comments
7/30/2013	9:56	0:00:00	492.52	489.95	0.00	0	FM	
7/30/2013	10:00	0:00:00	492.52	489.95	0.00	0.0	FM	Pump On Test 1
7/30/2013	10:01	0:01:00	492.52	489.95	0.00	23.9	FM	Groundwater took 1 minute to get to land surface
7/30/2013	10:02	0:02:00	492.52	489.95	0.00	23.6	FM	
7/30/2013	10:03	0:03:00	492.51	489.94	0.01	23.6	FM	
7/30/2013	10:04	0:04:00	492.51	489.94	0.01	23.5	FM	
7/30/2013	10:05	0:05:00	492.52	489.95	0.00	23.7	FM	
7/30/2013	10:10	0:10:00	492.52	489.95	0.00	23.8	FM	
7/30/2013	10:15	0:15:00	492.51	489.94	0.01	23.8	FM	Water level rise
7/30/2013	10:20	0:20:00	492.5	489.93	0.02	23.7	FM	
7/30/2013	10:25	0:25:00	492.5	489.93	0.02	23.8	FM	
7/30/2013	10:30	0:30:00	492.49	489.92	0.03	23.8	FM	
7/30/2013	10:35	0:35:00	492.49	489.92	0.03	23.8	FM	
7/30/2013	10:40	0:40:00	492.49	489.92	0.03	23.8	FM	
7/30/2013	10:45	0:45:00	492.48	489.91	0.04	23.8	FM	
7/30/2013	10:50	0:50:00	492.48	489.91	0.04	23.8	FM	
7/30/2013	10:55	0:55:00	492.48	489.91	0.04	23.9	FM	
7/30/2013	11:00	1:00:00	492.48	489.91	0.04	24.0	FM	
7/30/2013	11:05	1:05:00	492.48	489.91	0.04	23.9	FM	
7/30/2013	11:10	1:10:00	492.48	489.91	0.04	23.8	FM	

Date (mm/dd/yyyy)	Time (hh:mm)	Run Time (hh:mm:ss)	WL Etape: (feet)	Corrected WL (feet BLS)	Drawdown (feet)	Discharge (gpm)	Type	Comments
7/30/2013	11:15	1:15:00	492.48	489.91	0.04	24.0	FM	
7/30/2013	11:20	1:20:00	492.48	489.91	0.04	23.8	FM	
7/30/2013	11:25	1:25:00	492.48	489.91	0.04	24.0	FM	
7/30/2013	11:30	1:30:00	492.48	489.91	0.04	23.9	FM	
7/30/2013	11:35	1:35:00	492.47	489.9	0.05	23.9	FM	
7/30/2013	11:40	1:40:00	492.47	489.9	0.05	24.0	FM	
7/30/2013	11:45	1:45:00	492.47	489.9	0.05	24.1	FM	
7/30/2013	11:50	1:50:00	492.47	489.9	0.05	23.9	FM	
7/30/2013	11:55	1:55:00	492.47	489.9	0.05	23.9	FM	
7/30/2013	12:00	2:00:00	492.47	489.9	0.05	24.0	FM	
7/30/2013	12:05	2:05:00	492.46	489.89	0.06	24.0	FM	
7/30/2013	12:10	2:10:00	492.46	489.89	0.06	23.9	FM	
7/30/2013	12:15	2:15:00	492.46	489.89	0.06	24.0	FM	
7/30/2013	12:20	2:20:00	492.45	489.88	0.07	24.0	FM	
7/30/2013	12:25	2:25:00	492.45	489.88	0.07	24.1	FM	
7/30/2013	12:30	2:30:00	492.45	489.88	0.07	24.3	FM	
7/30/2013	14:38	4:38:00	492.39	489.82	0.13	24.2	FM	
7/30/2013	14:44	4:44:00	492.38	489.81	0.14	23.8	FM	
7/30/2013	14:49	4:49:00	492.37	489.8	0.15	24.2	FM	
7/30/2013	14:53	4:53:00	492.37	489.8	0.15	24.2	FM	
7/30/2013	15:00	5:00:00	492.37	489.8	0.15	24.3	FM	
7/31/2013	8:00	22:00:00	492.43	489.86	0.09	24.1	FM	
7/31/2013	8:10	22:10:00	492.43	489.86	0.09	24.2	FM	
7/31/2013	8:20	22:20:00	492.43	489.86	0.09	24.1	FM	
7/31/2013	8:30	22:30:00	492.43	489.86	0.09	0.0	FM	Pump Off Test 1
7/31/2013	9:11	0:00:00	492.43	489.86	0.00	23.9	FM	Start Pump Test 2
7/31/2013	9:15	0:04:00	492.44	489.87	-0.01	23.6	FM	Second Test 2 - rapid recovery
7/31/2013	9:16	0:05:00	492.45	489.88	-0.02	23.6	FM	
7/31/2013	9:17	0:06:00	492.44	489.87	-0.01	23.5	FM	
7/31/2013	9:20	0:09:00	492.44	489.87	-0.01	23.7	FM	
7/31/2013	9:23	0:12:00	492.44	489.87	-0.01	23.8	FM	

Date (mm/dd/yyyy)	Time (hh:mm)	Run Time (hh:mm:ss)	WL Etape: (feet)	Corrected WL (feet BLS)	Drawdown (feet)	Discharge (gpm)	Type	Comments
7/31/2013	9:31	0:20:00	492.44	489.87	-0.01	23.8	FM	
7/31/2013	9:42	0:31:00	492.44	489.87	-0.01	23.9	FM	
7/31/2013	9:47	0:36:00	492.44	489.87	-0.01	23.5	FM	
7/31/2013	9:51	0:40:00	492.44	489.87	-0.01	23.8	FM	
7/31/2013	9:55	0:44:00	492.44	489.87	-0.01	23.8	FM	
7/31/2013	10:02	0:51:00	492.44	489.87	-0.01	23.8	FM	
7/31/2013	10:09	0:58:00	492.44	489.87	-0.01	23.7	FM	
7/31/2013	10:10	0:59:00	492.44	489.87	-0.01	0.0	FM	Pump Off Test 2

Aquifer Test Data

Well Name: **USGS 141**

[Aquifer test data for well USGS 141. **Abbreviations:** T1, test 1; T2, test 2, NA, not applicable; DTW, depth to water; MP, measurement point; NGVD, National Geodetic Vertical Datum of 1929; ΔWL, water level change; Q, discharge; Avg., average; gpm, gallons per minute; BLS, below land surface; mm/dd/yyyy, month/day/year; hh:mm:ss; hour:minute:second].

Time Data			Water Level Data			Discharge Data		Test Notes
Pump on T1:	9:00	9/24/2013	DTW T1:	492.18	(feet)			Test Summary
Pump off T2:	9:52	9/25/2013	Surface MP (NGVD29):	4938.20	(feet AMSL)	Discharge Type(s)		ΔWL T1 (feet): -0.05
Duration:	24.9	(hours)	Etape 1 Correction:	-304.87	(feet)	1. Flow meter	FM	Avg. Q T1 (gpm): 23.4
Pump on T1:	NA	NA	Stickup:	-1.86	(feet)	2. Volumetric	VM	Avg. Q T2 (gpm): NA
Pump off T2:	NA	NA	Deviation correction:	0.00	(feet)			
Duration:	NA	(hours)	Total DTW correction:	-306.73	(feet)			

Date (mm/dd/yyyy)	Time (hh:mm)	Run Time (hh:mm:ss)	WL Etape: (feet)	Corrected WL (feet BLS)	Drawdown (feet)	Discharge (gal/min)	Type	Comments
9/24/2013	8:27	0:00:00	798.92	492.19	0.00	0.0	FM	
9/24/2013	8:37	0:00:00	798.92	492.19	0.00	0.0	FM	
9/24/2013	8:43	0:00:00	798.91	492.18	0.00	0.0	FM	
9/24/2013	8:49	0:00:00	798.91	492.18	0.00	0.0	FM	
9/24/2013	8:59	0:00:00	798.91	492.18	0.00	0.0	FM	
9/24/2013	9:00	0:00:00	798.91	492.18	0.00	0.0	FM	Pump On Test 1
9/24/2013	9:03	0:03:00	798.95	492.22	-0.04	23.0	FM	
9/24/2013	9:04	0:04:00	798.95	492.22	-0.04	23.0	FM	Groundwater took 2.5 minutes
9/24/2013	9:07	0:07:00	798.95	492.22	-0.04	23.0	FM	to get to land surface
9/24/2013	9:08	0:08:00	798.95	492.22	-0.04	23.2	FM	
9/24/2013	9:10	0:10:00	798.95	492.22	-0.04	23.3	FM	
9/24/2013	9:11	0:11:00	798.96	492.23	-0.05	23.3	FM	
9/24/2013	9:12	0:12:00	798.96	492.23	-0.05	23.1	FM	
9/24/2013	9:13	0:13:00	798.96	492.23	-0.05	23.2	FM	
9/24/2013	9:14	0:14:00	798.96	492.23	-0.05	22.1	FM	
9/24/2013	9:15	0:15:00	798.96	492.23	-0.05	22.7	FM	
9/24/2013	9:16	0:16:00	798.96	492.23	-0.05	22.6	FM	
9/24/2013	9:17	0:17:00	798.96	492.23	-0.05	22.9	FM	
9/24/2013	9:18	0:18:00	798.96	492.23	-0.05	23.0	FM	
9/24/2013	9:19	0:19:00	798.96	492.23	-0.05	22.9	FM	

Date (mm/dd/yyyy)	Time (hh:mm)	Run Time (hh:mm:ss)	WL Etape: (feet)	Corrected WL (feet BLS)	Drawdown (feet)	Discharge (gal/min)	Type	Comments
9/24/2013	9:20	0:20:00	798.96	492.23	-0.05	23.0	FM	
9/24/2013	9:22	0:22:00	798.96	492.23	-0.05	22.7	FM	
9/24/2013	9:24	0:24:00	798.95	492.22	-0.04	23.0	FM	
9/24/2013	9:26	0:26:00	798.95	492.22	-0.04	22.5	FM	
9/24/2013	9:28	0:28:00	798.95	492.22	-0.04	22.9	FM	
9/24/2013	9:30	0:30:00	798.95	492.22	-0.04	23.0	FM	
9/24/2013	9:40	0:40:00	798.95	492.22	-0.04	23.1	FM	
9/24/2013	9:50	0:50:00	798.95	492.22	-0.04	23.1	FM	
9/24/2013	10:00	1:00:00	798.95	492.22	-0.04	23.4	FM	
9/24/2013	10:10	1:10:00	798.94	492.21	-0.03	23.2	FM	
9/24/2013	10:20	1:20:00	798.93	492.20	-0.02	23.3	FM	
9/24/2013	10:30	1:30:00	798.93	492.20	-0.02	23.1	FM	
9/24/2013	10:40	1:40:00	798.92	492.19	-0.01	23.4	FM	
9/24/2013	12:30	3:30:00	798.86	492.13	0.05	23.8	FM	Water level started to
9/24/2013	12:40	3:40:00	798.86	492.13	0.05	23.9	FM	rise after lunch
9/24/2013	12:50	3:50:00	798.86	492.13	0.05	23.9	FM	
9/24/2013	13:00	4:00:00	798.85	492.12	0.06	24.1	FM	
9/24/2013	13:18	4:18:00	798.85	492.12	0.06	24.0	FM	
9/25/2013	8:35	23:35:00	798.86	492.13	0.05	24.4	FM	
9/25/2013	8:38	23:38:00	798.86	492.13	0.05	24.4	FM	
9/25/2013	8:46	23:46:00	798.86	492.13	0.05	24.5	FM	
9/25/2013	8:58	23:58:00	798.88	492.15	0.03	24.5	FM	
9/25/2013	9:01	24:01:00	798.91	492.18	0.00	23.7	FM	
9/25/2013	9:10	24:10:00	798.90	492.17	0.01	24.1	FM	
9/25/2013	9:18	24:18:00	798.89	492.16	0.02	24.4	FM	
9/25/2013	9:25	24:25:00	798.90	492.17	0.01	24.0	FM	
9/25/2013	9:35	24:35:00	798.89	492.16	0.02	24.1	FM	
9/25/2013	9:42	24:42:00	798.88	492.15	0.03	24.1	FM	
9/25/2013	9:45	24:45:00	798.89	492.16	0.02	24.1	FM	
9/25/2013	9:50	24:50:00	798.88	492.15	0.03	24.1	FM	
9/25/2013	9:52	24:52:00	798.88	492.15	0.03	0.0	FM	Pump off test 1
9/25/2013	9:54	0:00:00	798.81	492.08	0.10	0.0	FM	Pump off

Date (mm/dd/yyyy)	Time (hh:mm)	Run Time (hh:mm:ss)	WL Etape: (feet)	Corrected WL (feet BLS)	Drawdown (feet)	Discharge (gal/min)	Type	Comments
9/25/2013	9:55	0:00:00	798.80	492.07	0.11	0.0	FM	Pump off
9/25/2013	9:57	0:00:00	798.81	492.08	0.10	0.0	FM	Pump off
9/25/2013	9:59	0:00:00	798.80	492.07	0.11	0.0	FM	Pump off
9/25/2013	10:09	0:00:00	798.80	492.07	0.11	0.0	FM	Pump off