ADDENDUM D6C:

HANK UNIT PUMP TESTS

November 2007

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D6C.1 SINGLE-WELL TESTS

Several single-well tests were conducted on the Hank Unit wells to develop aquifer properties for the aquifers in this area. Single-well pump tests are included for wells that are completed in the F Sand, G Sand, C Sand, B Sand and A Sand.

D6C.1.1 HANK 1 TEST

Hank 1 well was pumped on July 11, 2007 at an average rate of 9.2 gpm for slightly greater than 1 hour. The pumping data and water-level data collected on the Hank 1 well is presented on Table D6C.1-1. Figure D6C.1-1 presents the plot of the semi-log drawdown and the fit of this data yields a transmissivity of 2210 gal/day/ft. The recovery data is presented in Figure D6C.1-2 and the recovery data yields a transmissivity of 2210 gal/day/ft. This test indicates that the transmissivity at the Hank 1 well is 2210 gal/day/ft.

D6C.1.2 DRY WILLOW #1 TEST

Dry Willow #1 well was pumped at an average rate of 10.1 gpm on May 2, 2007. Table D6C.1-2 and D6C.1-3 presents the water-level data collected during the Dry Willow #1 pump test. Figure D6C.1-3 presents the semi-log plot of the drawdown data and the fit of this data yields a transmissivity of 6670 gal/day/ft. The recovery plot of this data is presented in Figure D6C.1-4 and yields a similar transmissivity value.

D6C.1.3 BR-B TEST

F Sand well BR-B was pump-tested in 1979. Figures D6C.1-5 and D6C.1-6 presents plots of this pump test while Table D6C.1-4 presents the tabulation of the pump test data. The fit of the drawdown data yields a transmissivity of 2530 gal/day/ft while the plot of the recovery data yields a transmissivity of 2210 gal/day/ft.

A second pump test was conducted on April 25, 2007 by pumping this well at an average rate of 12.7 gpm. The fit of the straight-line data yields a transmissivity of 1970 gal/day/ft (see Figure D6C.1-7 for the plot and Table D6C.1-5 for the tabulation of the data). An average transmissivity of 2240 gal/day/ft is thought to be best representative of the F Sand at well BR-B from these two pump tests.

D6C.1.4 BR-G TEST

The pump test on well BR-G was conducted on August 8, 2007. Pumping this well at an average rate of 2 gpm for slightly longer than 2 hours (see Table D6C.1-6). The plot of the semi-log drawdown data is presented in Figure D6C.1-8 and the fit of this data yields a small transmissivity of 19 gal/day/ft. The recovery plot is presented in Figure D6C.1-9 and yields a much smaller transmissivity. The recovery data was not measured long enough to reach the true straight-line for this test and therefore the transmissivity from the drawdown test is thought to best represent the F Sand at well BR-G.

D6C.1.5 OW43756 TEST

Abandoned old windmill well OW43756 was pumped at an average rate of 3.1 gpm for 2.5 hours on June 21, 2007. The data from this well is presented in Table D6C.1-8 while the plot of the drawdown data is presented in Figure D6C.1-10. The straight-line fit of the drawdown data yields a small transmissivity of 18 gal/day/ft for the F Sand in this area.

D6C.1.6 BR-F TEST

BR-F was pumped at an average rate of 0.62 gpm on October 24 1979 (see Table D6C.1-9). Figure D6C.1-11 yields a transmissivity of 0.62 gal/day/ft.

A second pump test was conducted on this well on June 15, 2007. Tables D6C.1-10 and D6C.1-11 presents the water-level data collected during this pump test. The well was pumped at a small rate of 0.11 gpm. Figure D6C.1-13 presents the plot of the drawdown data and the fit of this data yields a transmissivity of 2.3 gal/day/ft. The recovery data is presented in Figure D6C.1-14 and the straight-line fit of this data yields a transmissivity of 0.4 gal/day/ft. The late time recovery data is thought to best yield the transmissivity for this small producing well and a value of 0.4 gal/day/ft is thought to best represent the B Sand at well BR-F.

D6C.1.7 BR-H TEST

G Sand well BR-H was pump tested in 1979. Table D6C.1-12 presents that pumping data for the test while Figure D6C.1-15 presents the plot of the drawdown data. The plot of the drawdown data yields a transmissivity of 2.7 gal/day/ft. This transmissivity is based on data that still contains significant well storage effects and therefore could be an error. The recovery data was not measured long enough to get a representative straight-line fit (see Figure D6C.1-16).

A second pump test was conducted by pumping well BR-H on May 24, 2007 at an average rate of 0.5 gpm (see Table D6C.1-13). A plot of the straight-line data in Figure D6C.1-17 yields a transmissivity of 2.9 gal/day/ft. The well storage effects are still significant at the end of this pump test and therefore this transmissivity could be an error. The late time recovery fit which is presented in Figure D6C.1-18 also yields a transmissivity of 2.9 gal/day/ft. This recovery value from the transmissivity is thought to best represent the G Sand at well BR-H.

D6C.1.8 URZHC-2 TEST

The URZHC-2 well was pump tested on June 28, 2007 by pumping this well at an average rate of 0.3 gpm for three hours. Table D6C.1-14 presents the pump test data while Figure D6B.1-13 presents the straight-line plot of the drawdown data. The late time drawdown data produced a transmissivity of 1.9 gal/day/ft for the C Sand well at URZHC-2.

D6C.1.9 BR-Q TEST

The B Sand well BR-Q was pumped on August 8, 2007 to sample this well. Pump test data that was collected during this sampling is presented in Table D6C.1-15 while the transducer water-level data is presented in Table D6C.1-16. A plot of the drawdown data is presented in Figure D6C.1-20 and the late time data yields a transmissivity of 176 gal/day/ft while the recovery data is presented in Figure D6C.1-21 and the late time data yields a transmissivity of 264 gal/day/ft. The transmissivity of 264 gal/day/ft is thought to be the best value due to the variations during the pumping portion of the test.

D6C.1.10 NBHW-13 TEST

Partially penetrating B Sand well NBHW-13 was pump test on August 8, 2007 (See Tables D6C.1-15 and D6C.1-16 for data). Figure D6C.1-22 presents the plot of the drawdown data the late time fit of this straight-line data yields a transmissivity of 1300 gal/day/ft. Well NBHW-13 is a partially penetrating well which is completed over a 22 foot interval in the B Sand at this location. The pump test needs to be conducted long enough for the partial penetration effects to be removed to use the straight-line data. The recovery data from this plot yields a smaller transmissivity and is not thought to be representative of the full aquifer due to partial penetrating effects on this test. The late time drawdown data transmissivity of 1300 gal/day/ft is thought to best represent the B Sand at well NBHW-13.

D6C.1-11 SS1-L TEST

The A Sand was tested at the SS1-L well in 1978 (see Table D6C.1-19). The plot of the drawdown data for this pump test is presented in Figure D6C.1-24 and yields a transmissivity of 1100 gal/day/ft. The plot of the recovery data in Figure D6C.1-25 yields a transmissivity of 954 gal/day/ft.

A second pump test was conducted by pumping well SS1-L at an average rate of 9.9 gpm for 2.5 hours. The plot of the drawdown data for this pump test in Figure D6C.1-26 and yields a transmissivity of 843 gal/day/ft. A transmissivity of 1030 gal/day/ft is thought to best represent the results from the first pump test while the transmissivity of 843 gal/day/ft is the best value from the second pump test.

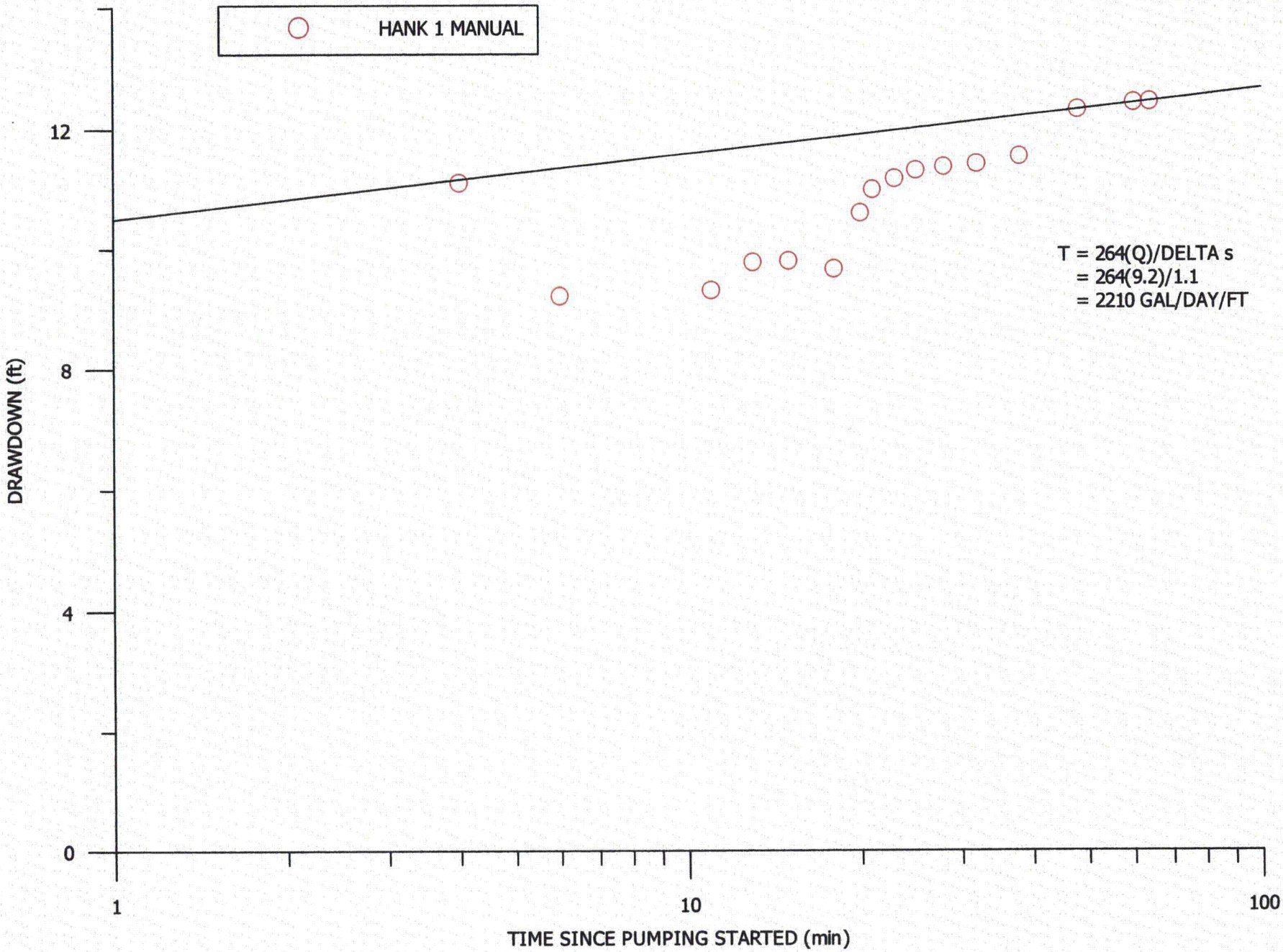

FIGURE D6C.1-1. DRAWDOWN IN PUMPING WELL HANK 1

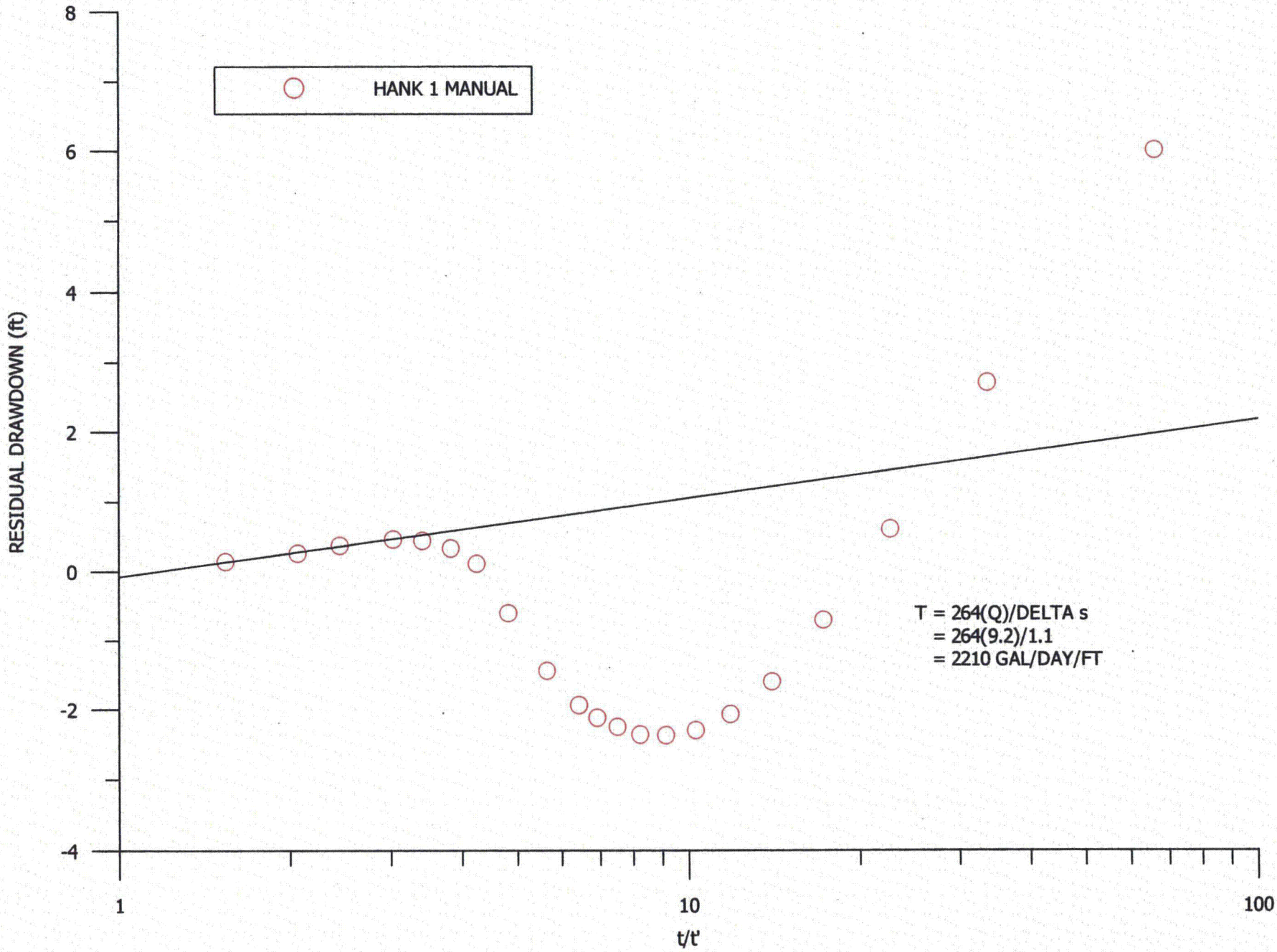

FIGURE D6C.1-2. RECOVERY IN PUMPING WELL HANK 1

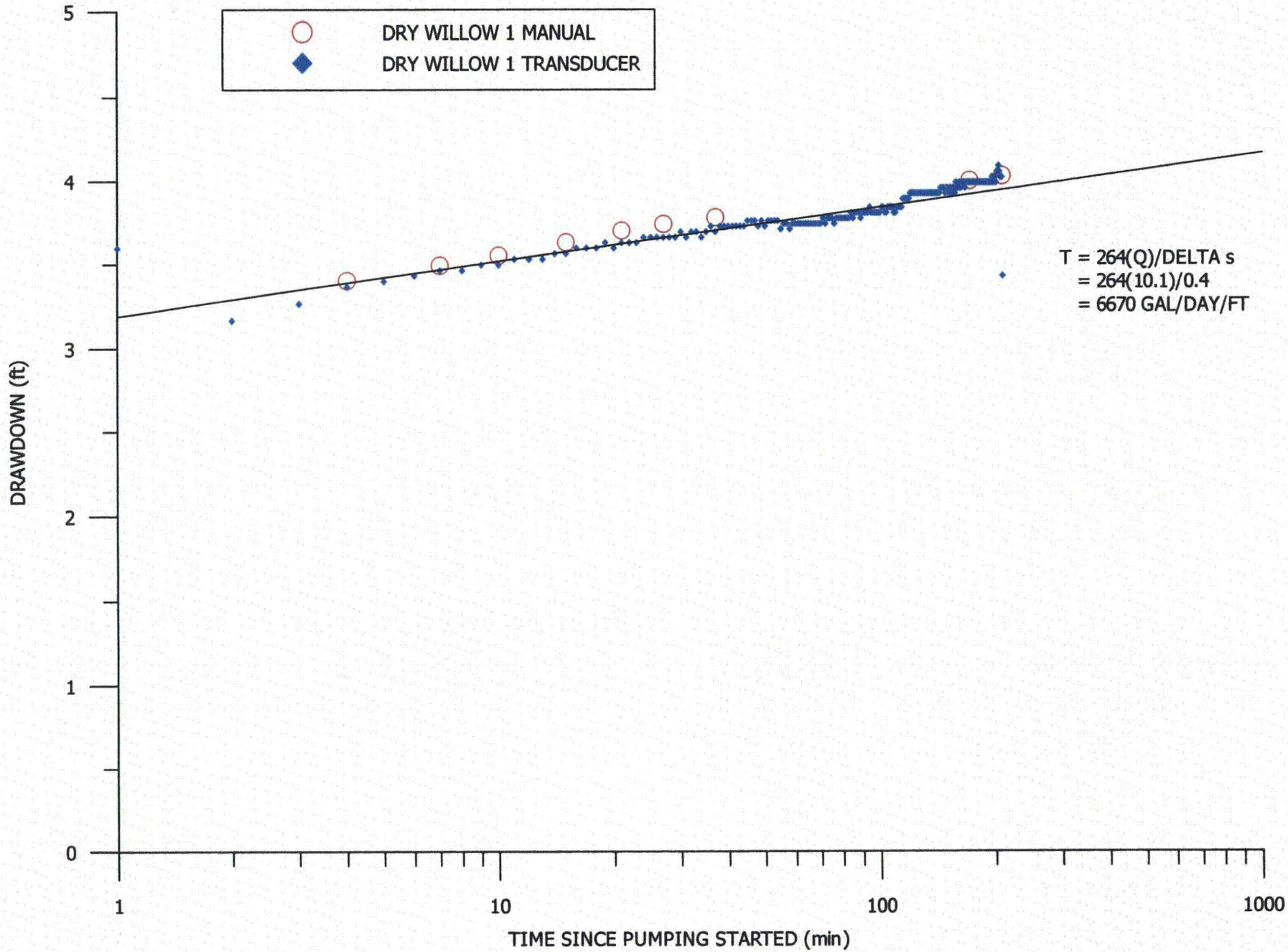

FIGURE D6C.1-3. DRAWDOWN IN PUMPING WELL DRY WILLOW 1

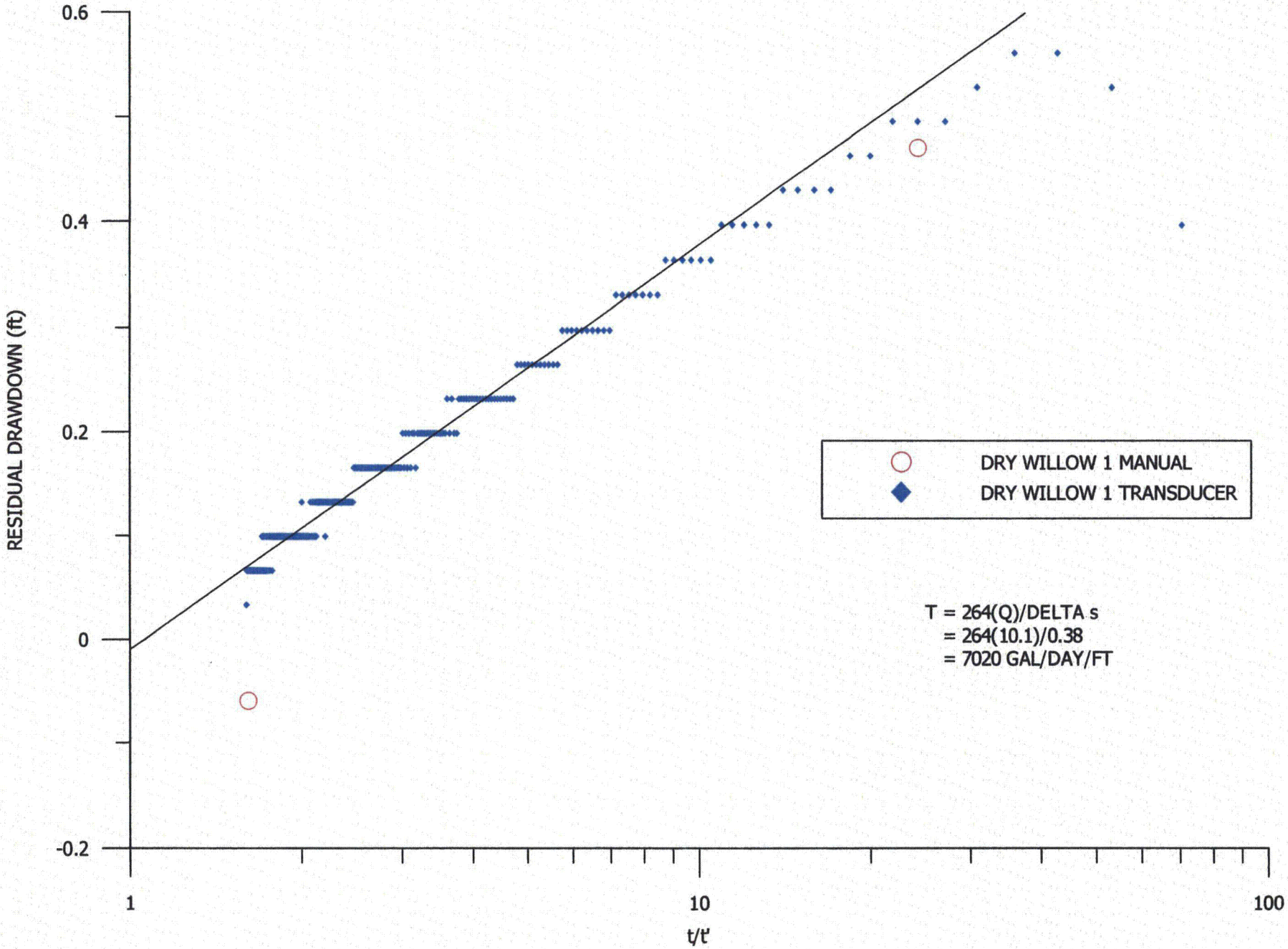

FIGURE D6C.1-4. RECOVERY IN PUMPING WELL DRY WILLOW 1

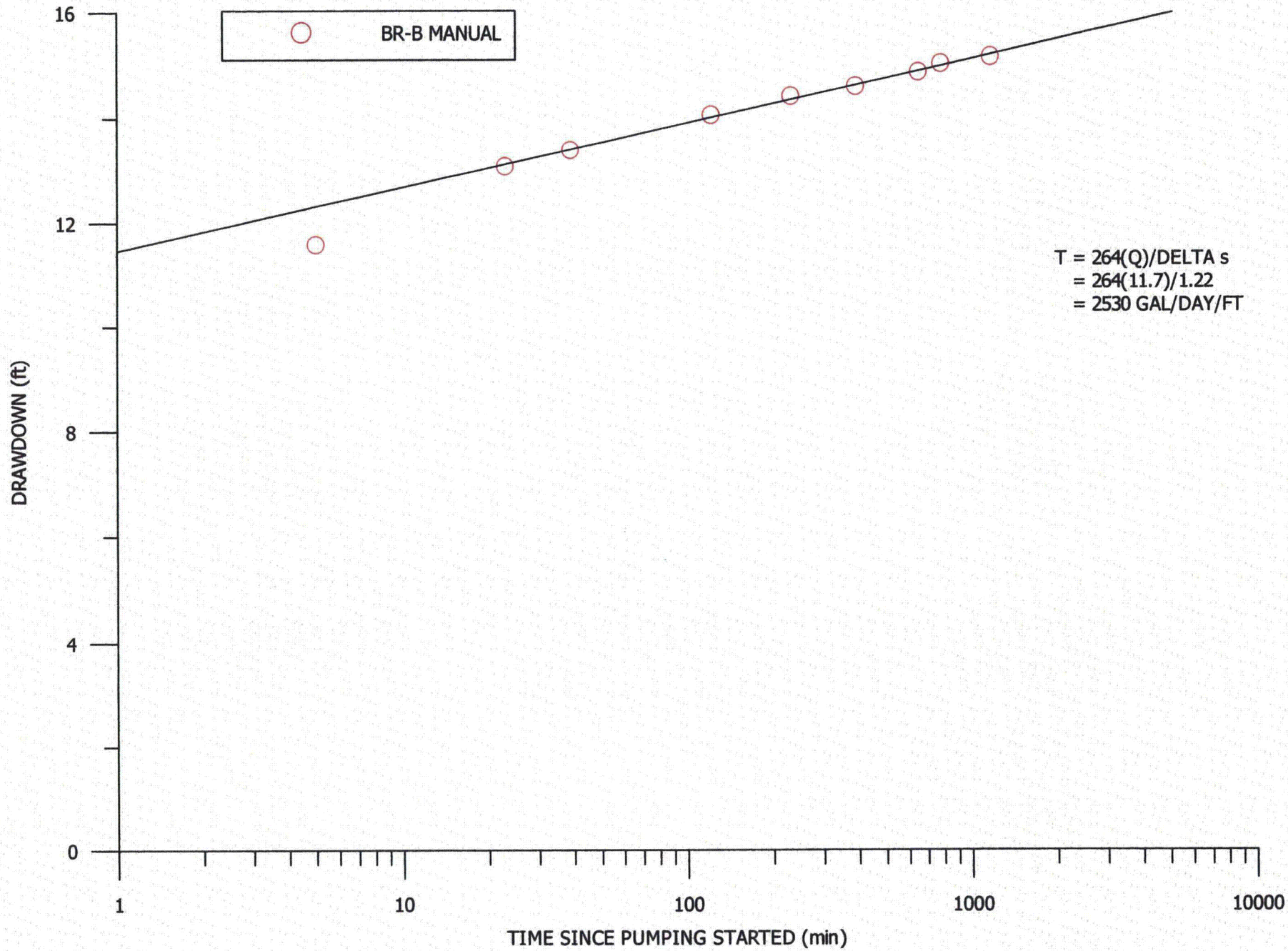

FIGURE D6C.1-5. DRAWDOWN IN PUMPING WELL BR-B

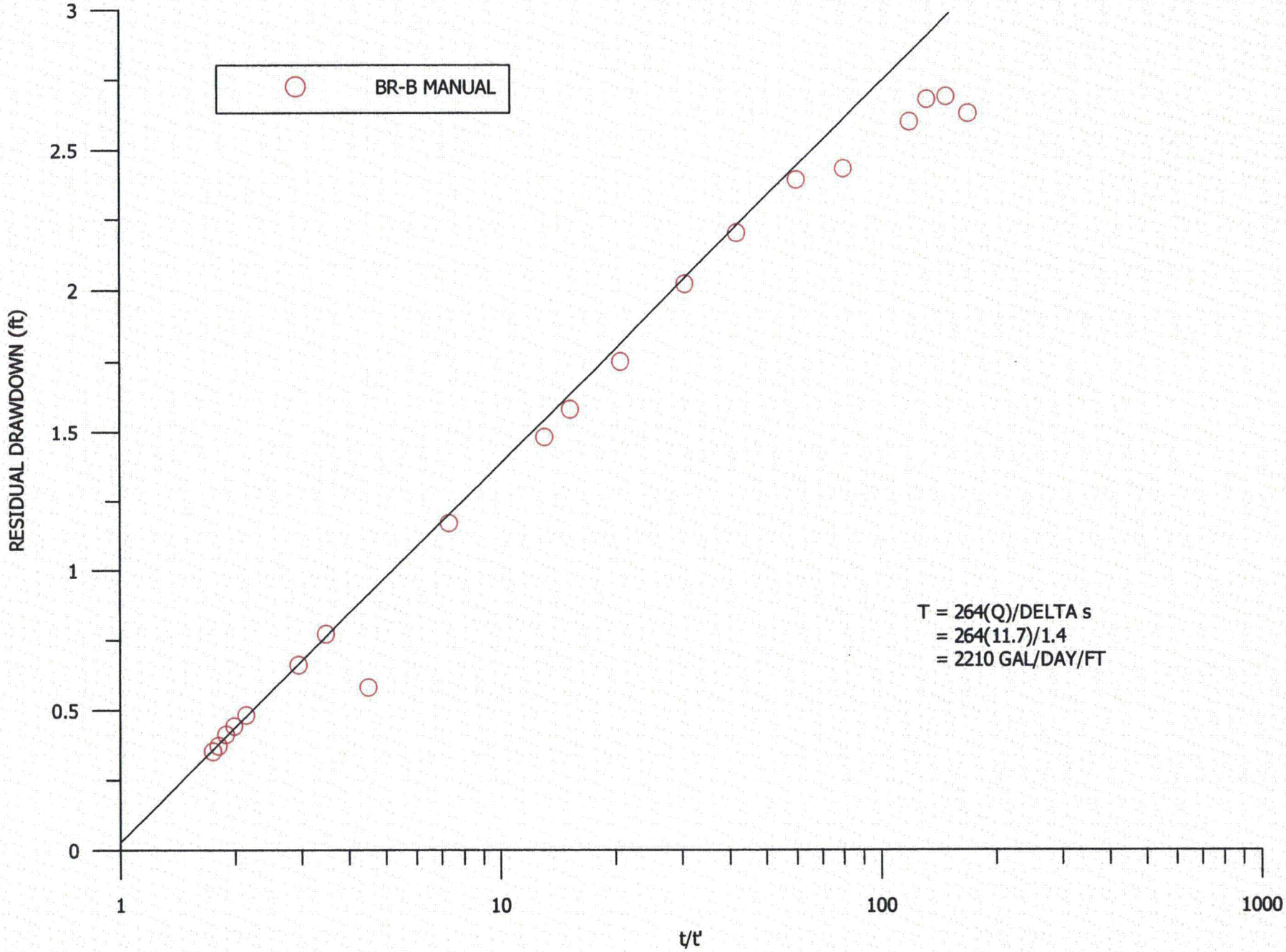

FIGURE D6C.1-6. RECOVERY IN PUMPING WELL BR-B

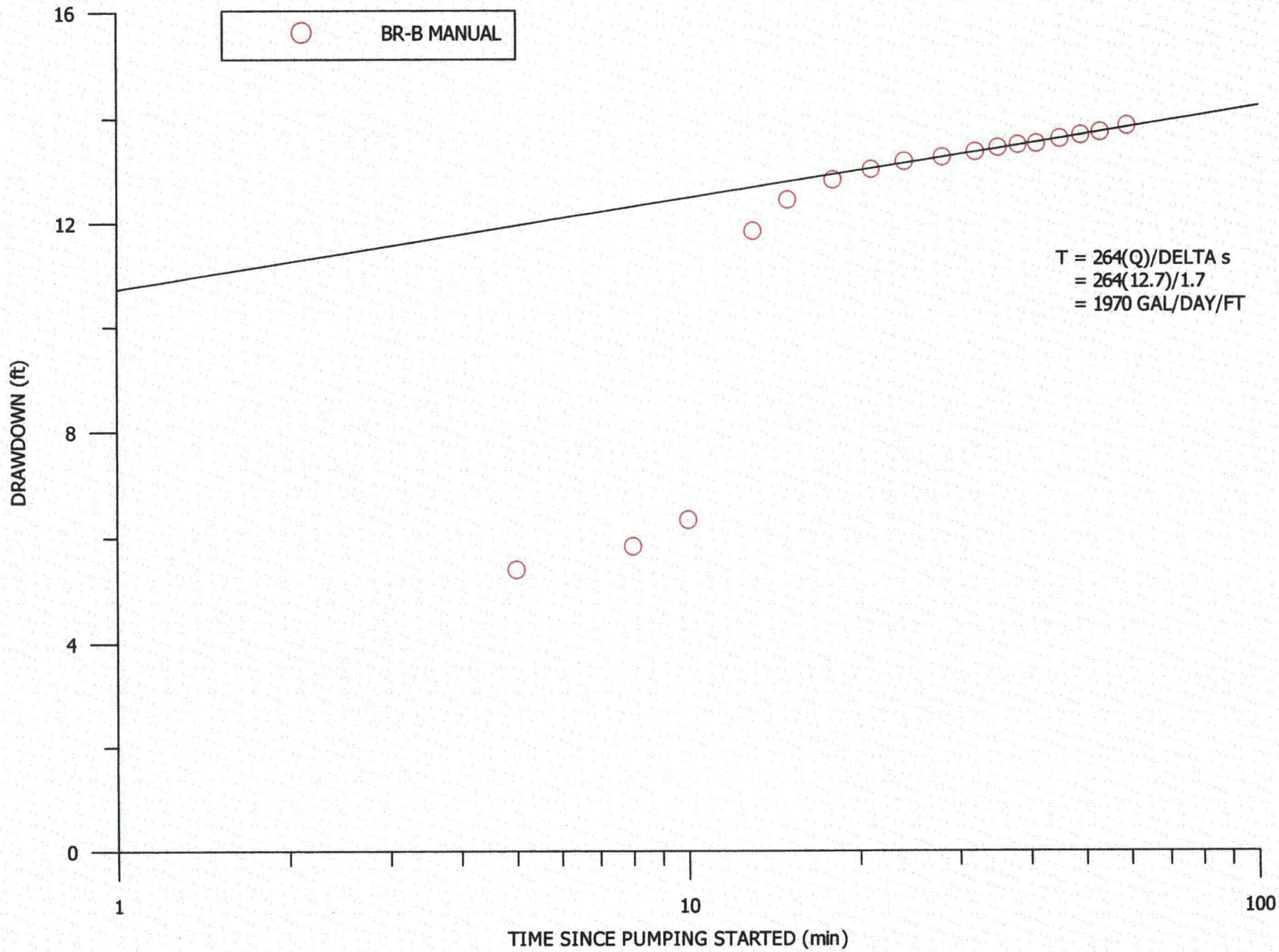

FIGURE D6C.1-7. DRAWDOWN IN PUMPING WELL BR-B, 2ND TEST

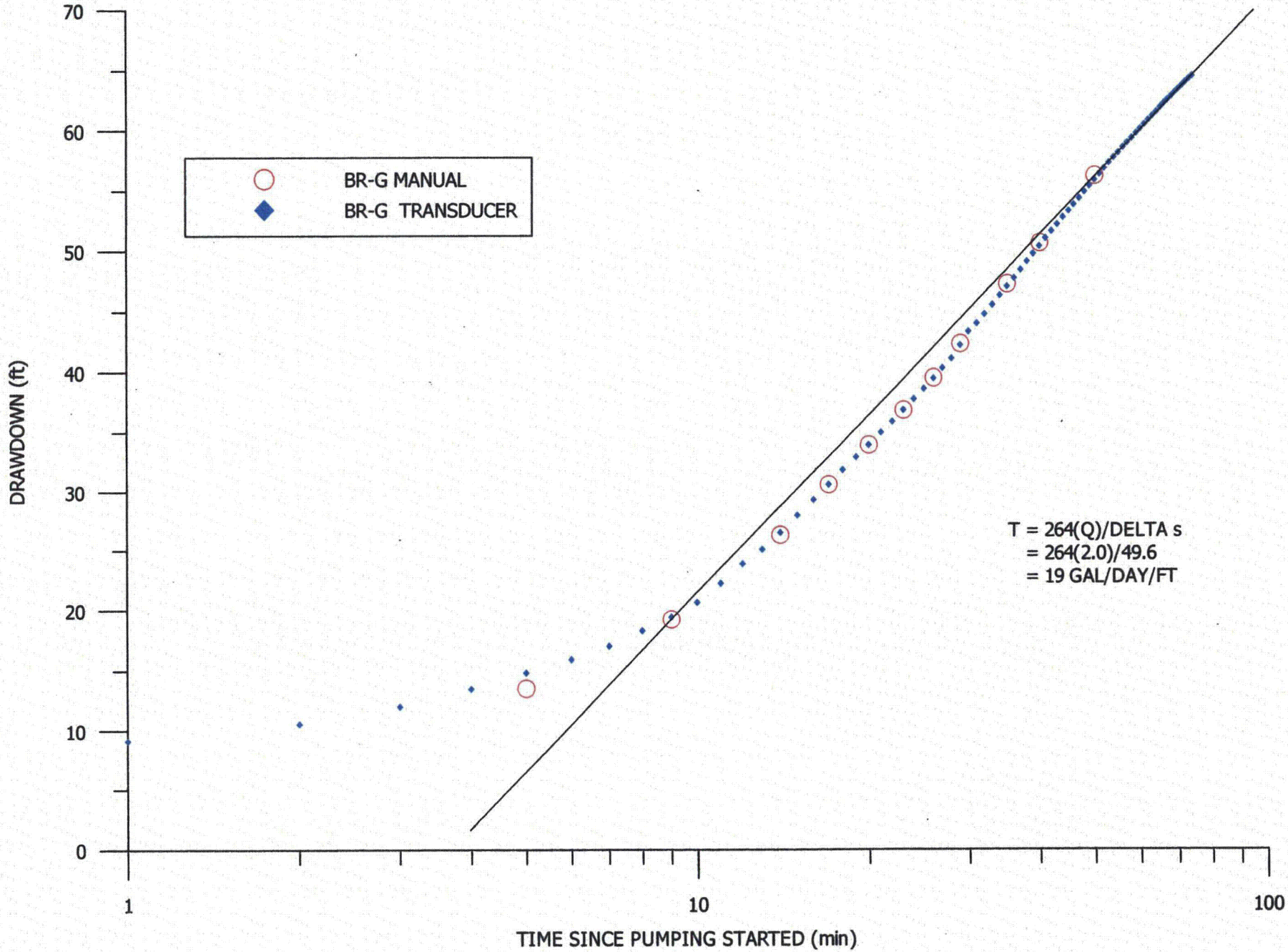

FIGURE D6C.1-8. DRAWDOWN IN PUMPING WELL BR-G

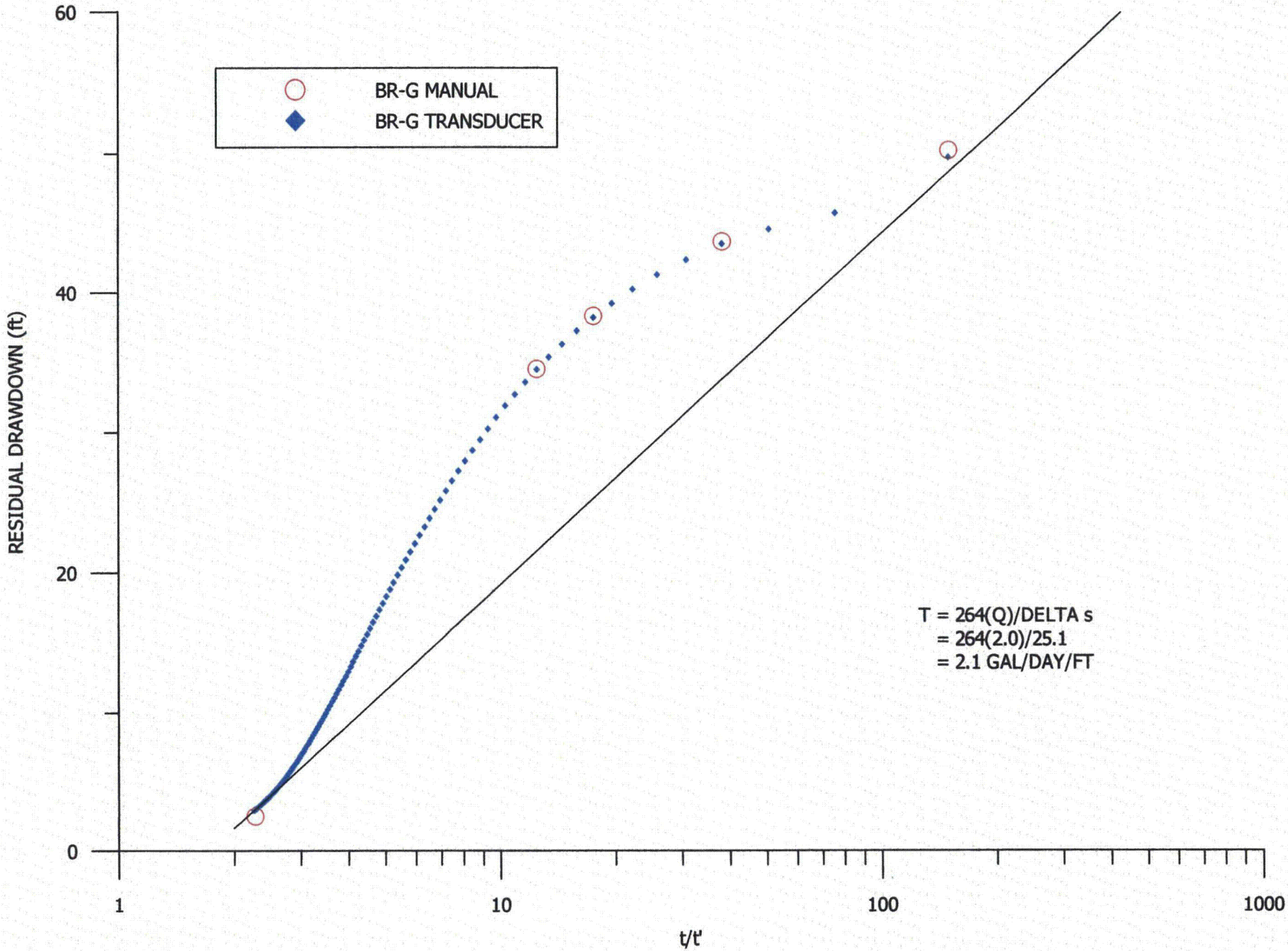

FIGURE D6C.1-9. RECOVERY IN PUMPING WELL BR-G

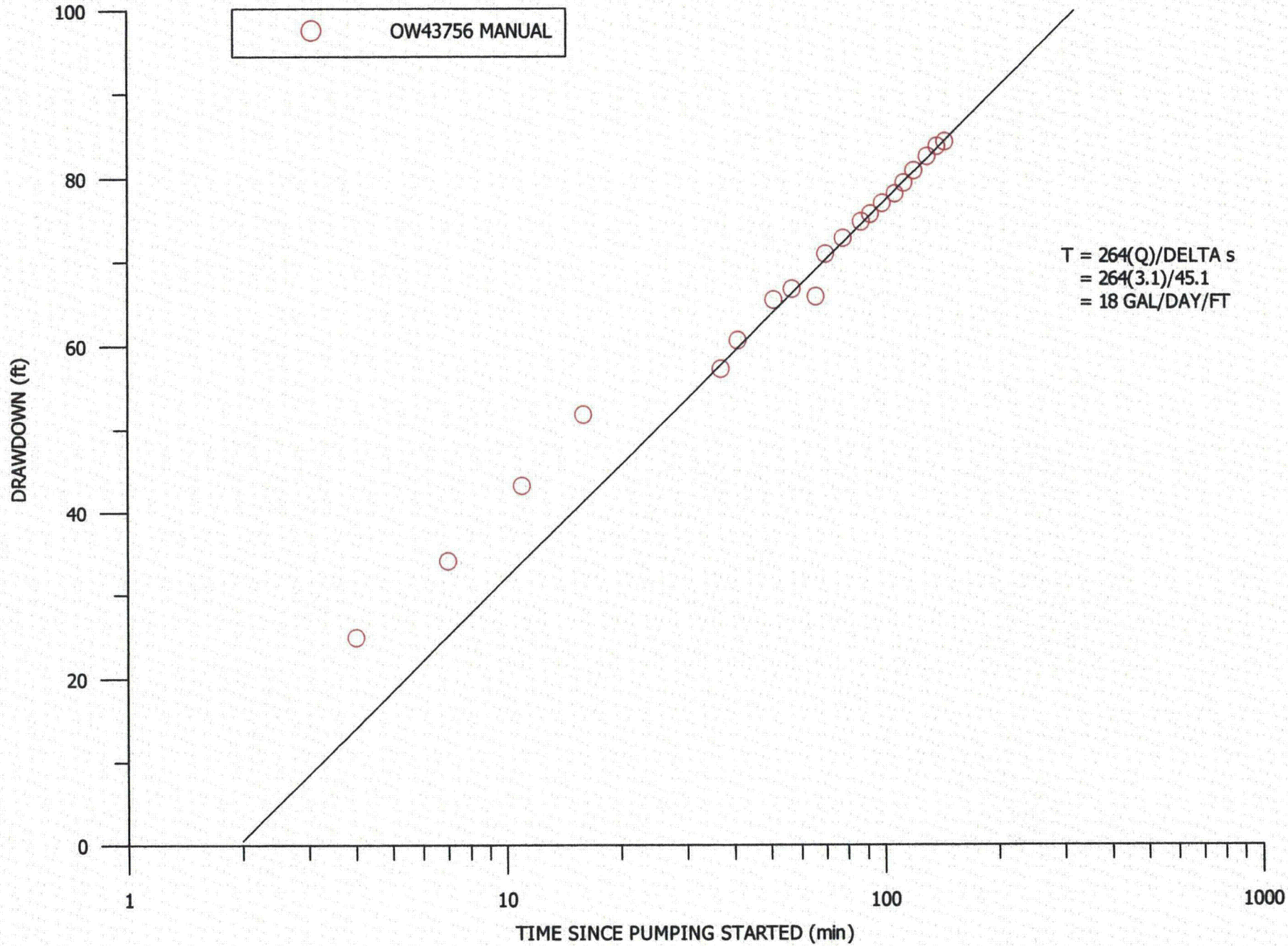

FIGURE D6C.1-10. DRAWDOWN IN PUMPING WELL OW43756

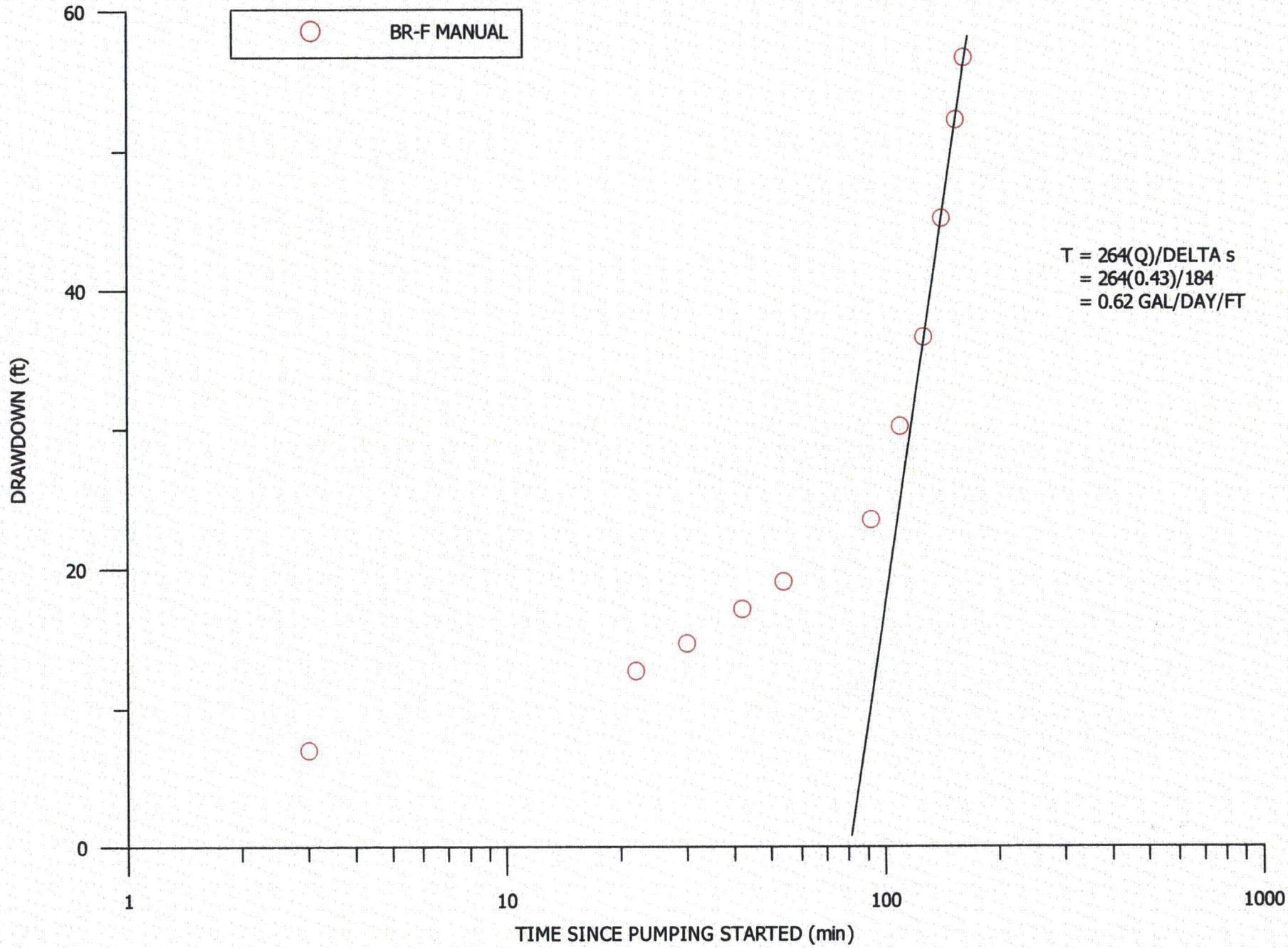

FIGURE D6C.1-11. DRAWDOWN IN PUMPING WELL BR-F

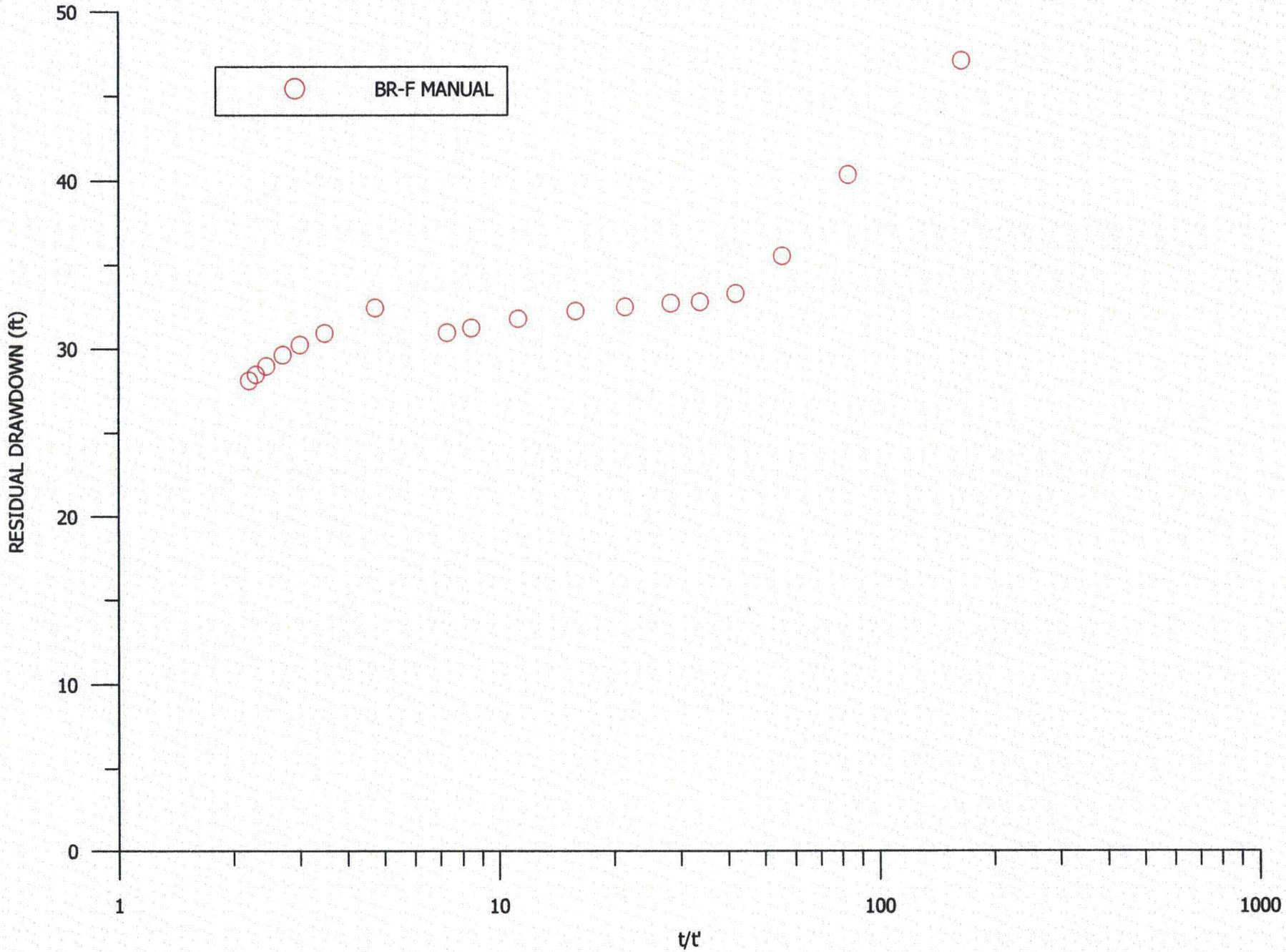

FIGURE D6C.1-12. RECOVERY IN PUMPING WELL BR-F

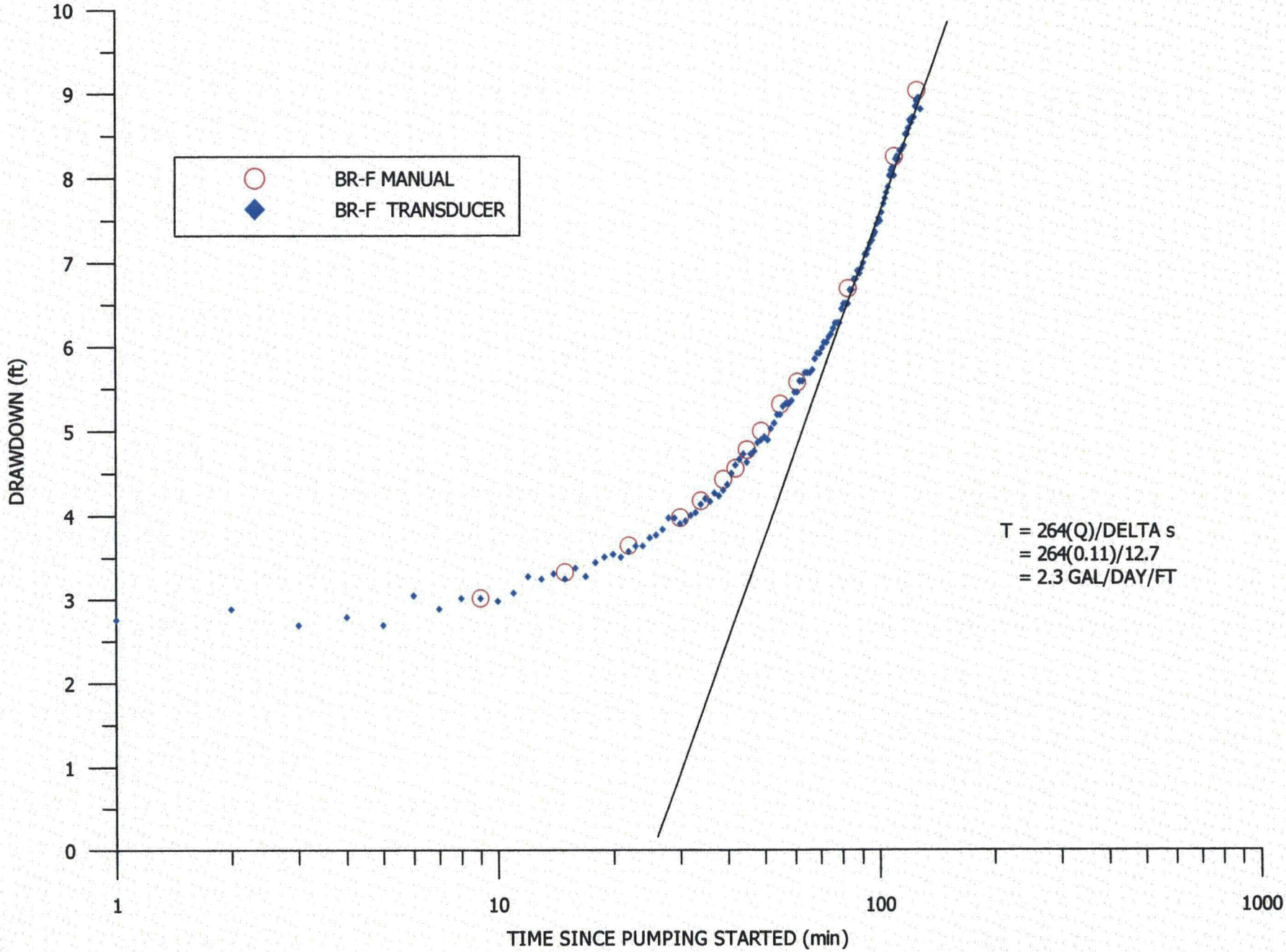

FIGURE D6C.1-13. DRAWDOWN IN PUMPING WELL BR-F, 2ND TEST

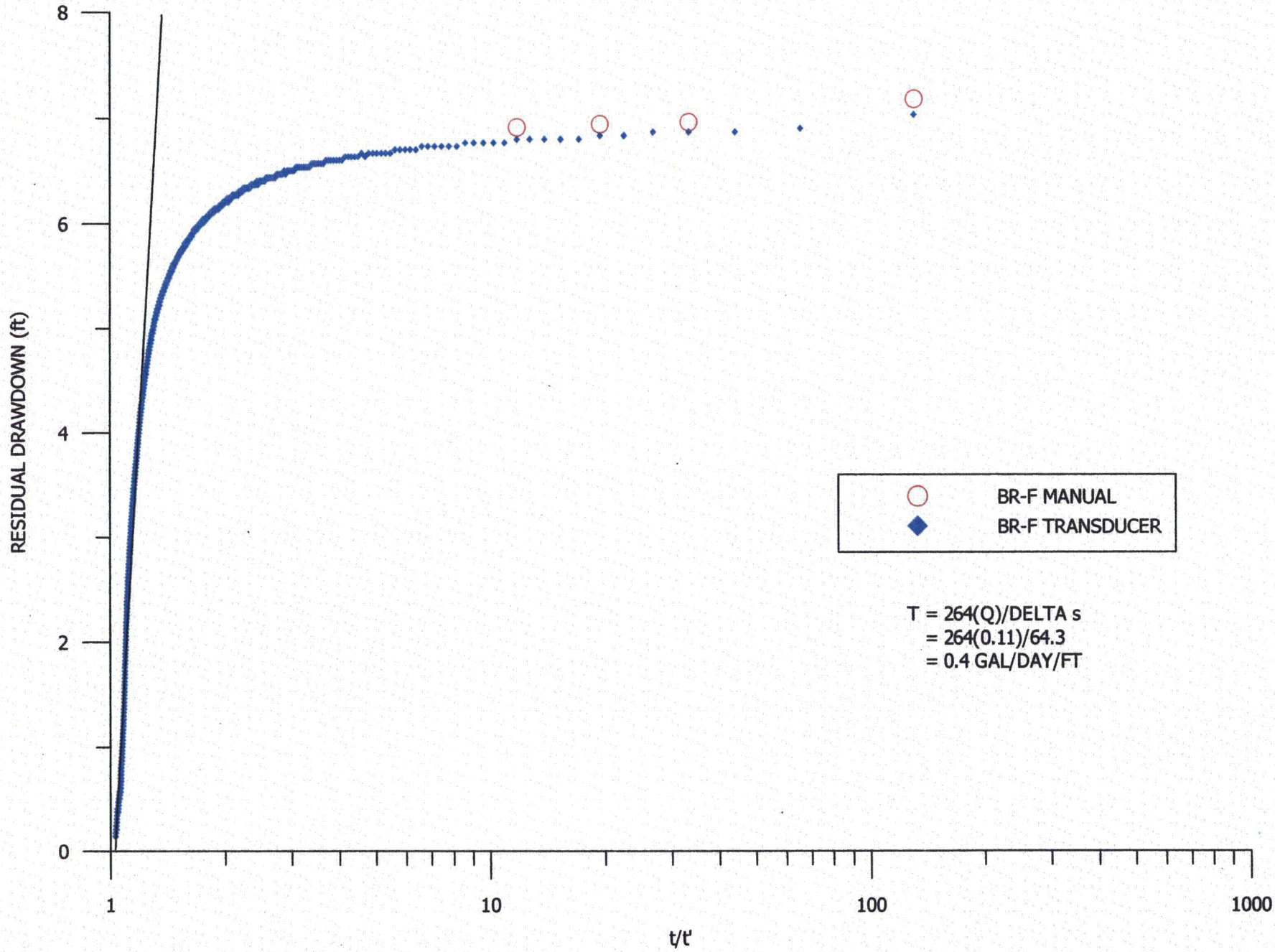

FIGURE D6C.1-14. RECOVERY IN PUMPING WELL BR-F, 2ND TEST

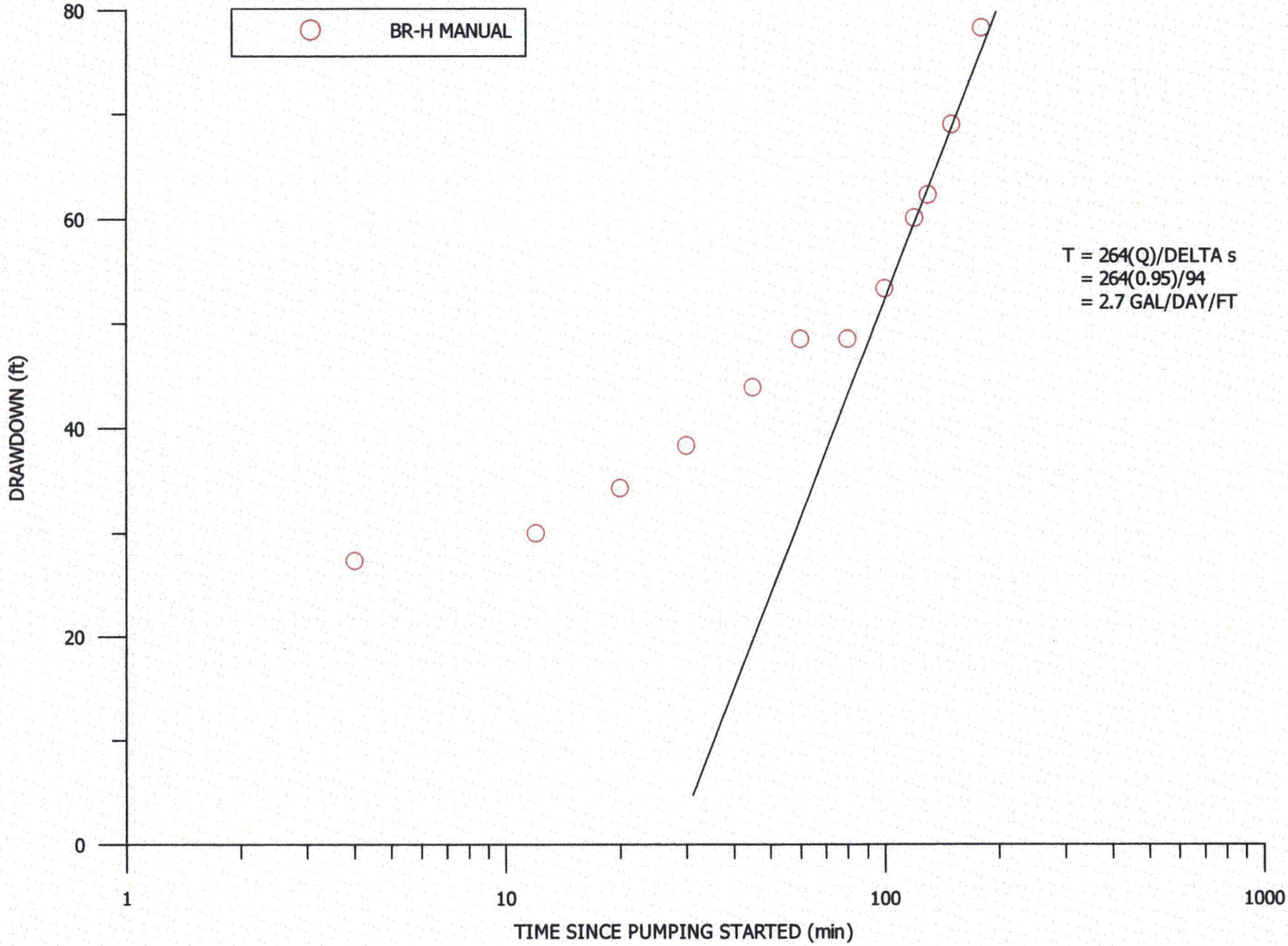

FIGURE D6C.1-15. DRAWDOWN IN PUMPING WELL BR-H

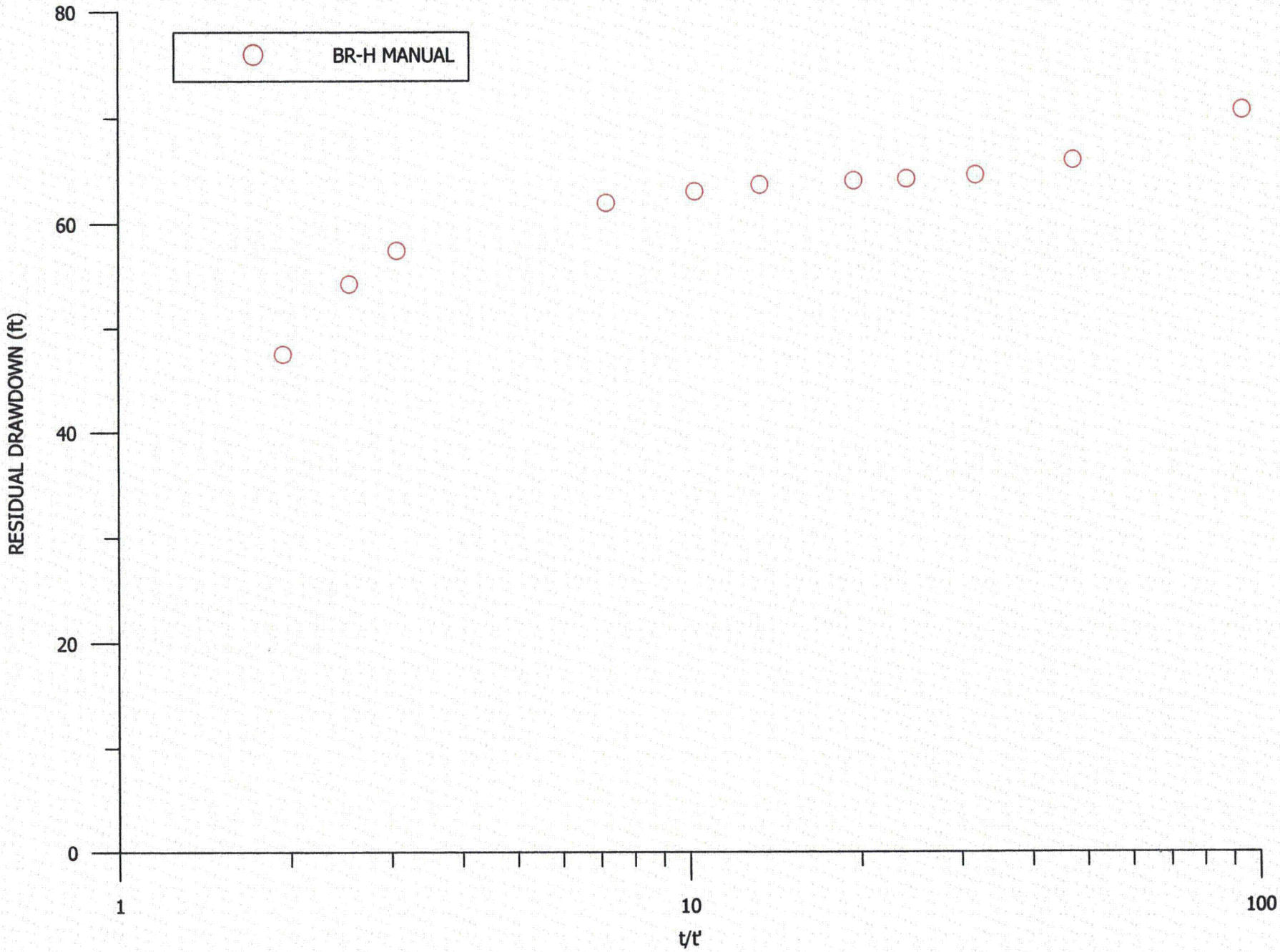

FIGURE D6C.1-16. RECOVERY IN PUMPING WELL BR-H

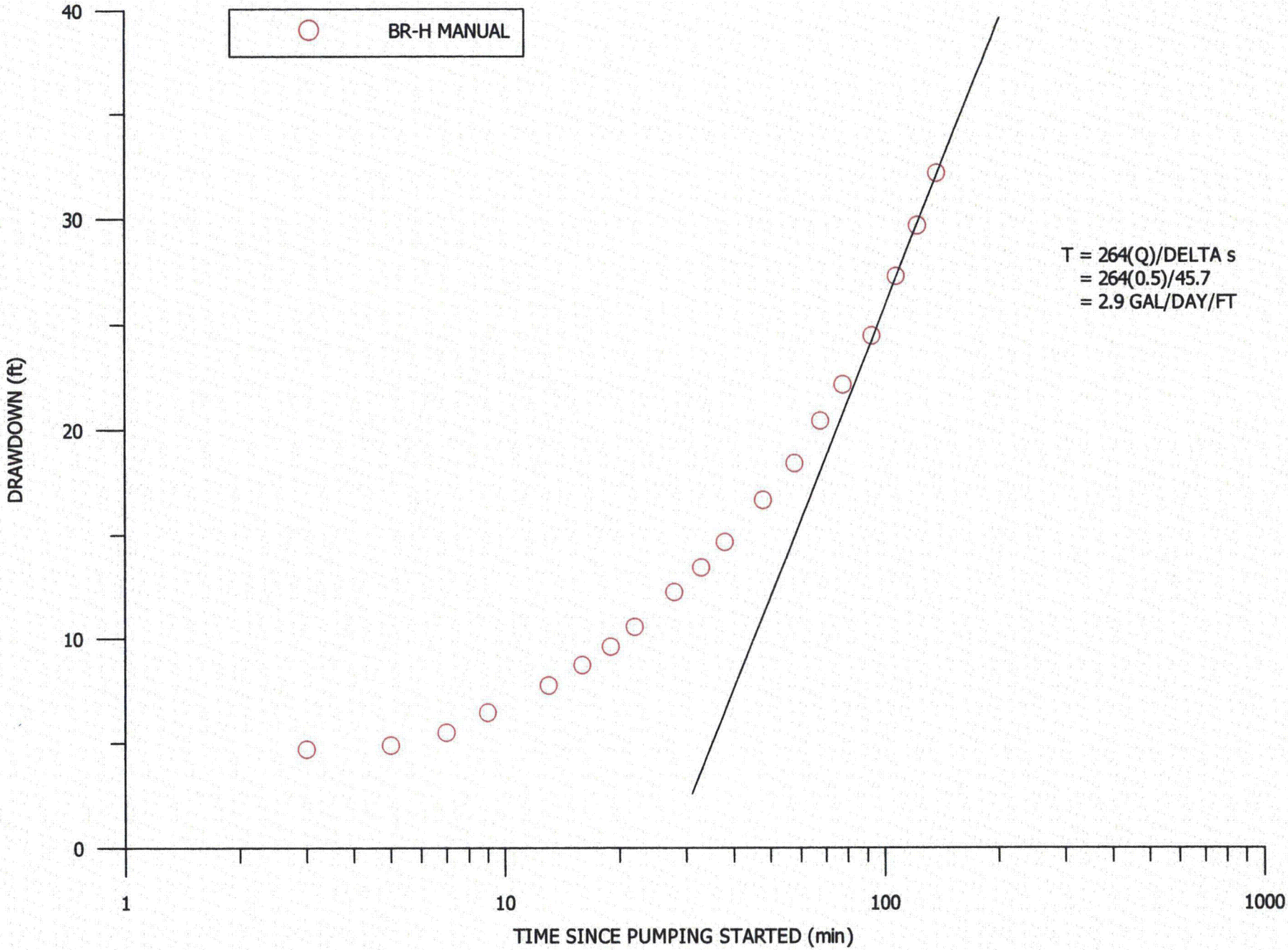

FIGURE D6C.1-17. DRAWDOWN IN PUMPING WELL BR-H, 2ND TEST

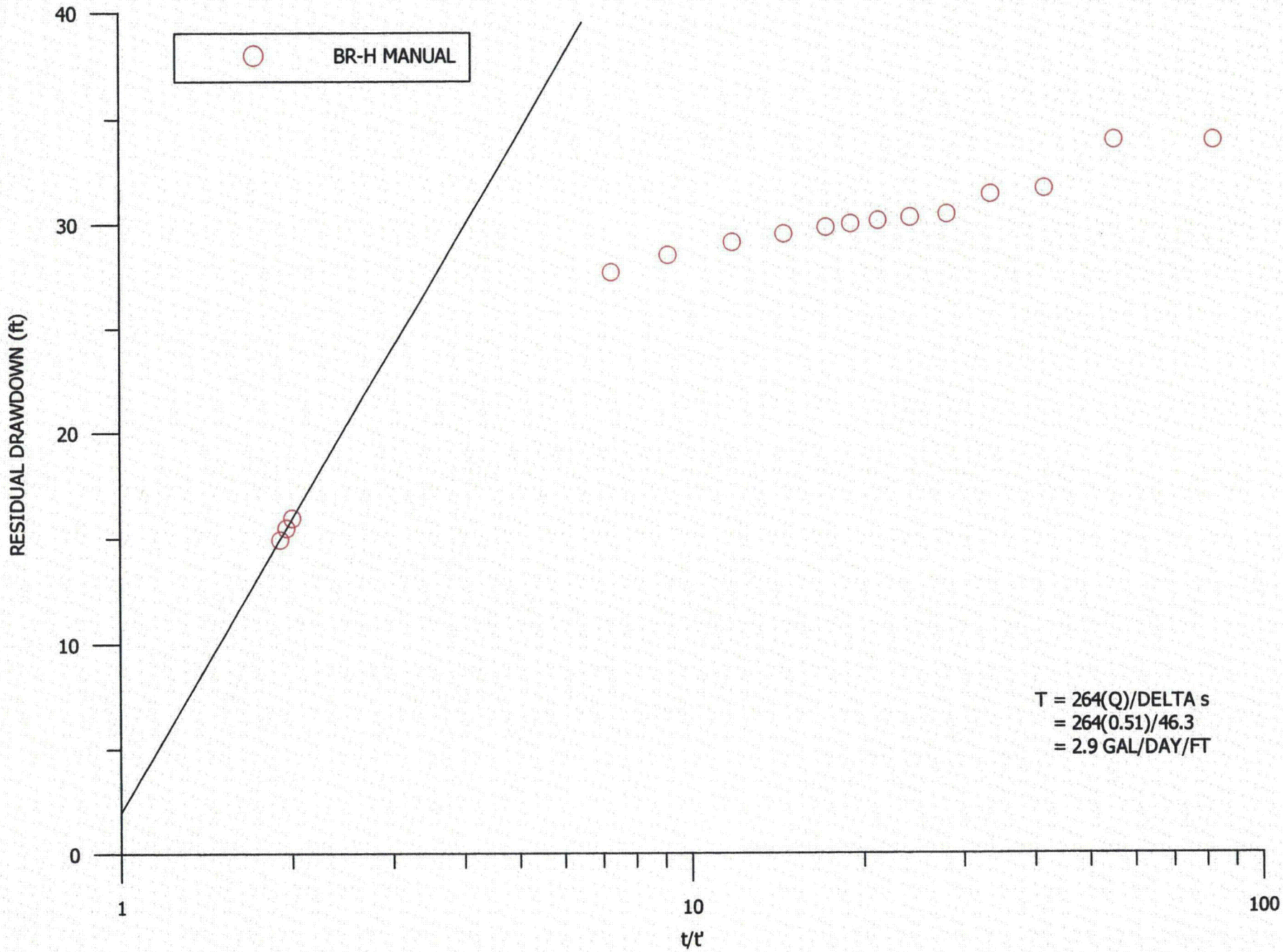

FIGURE D6C.1-18. RECOVERY IN PUMPING WELL BR-H, 2ND TEST

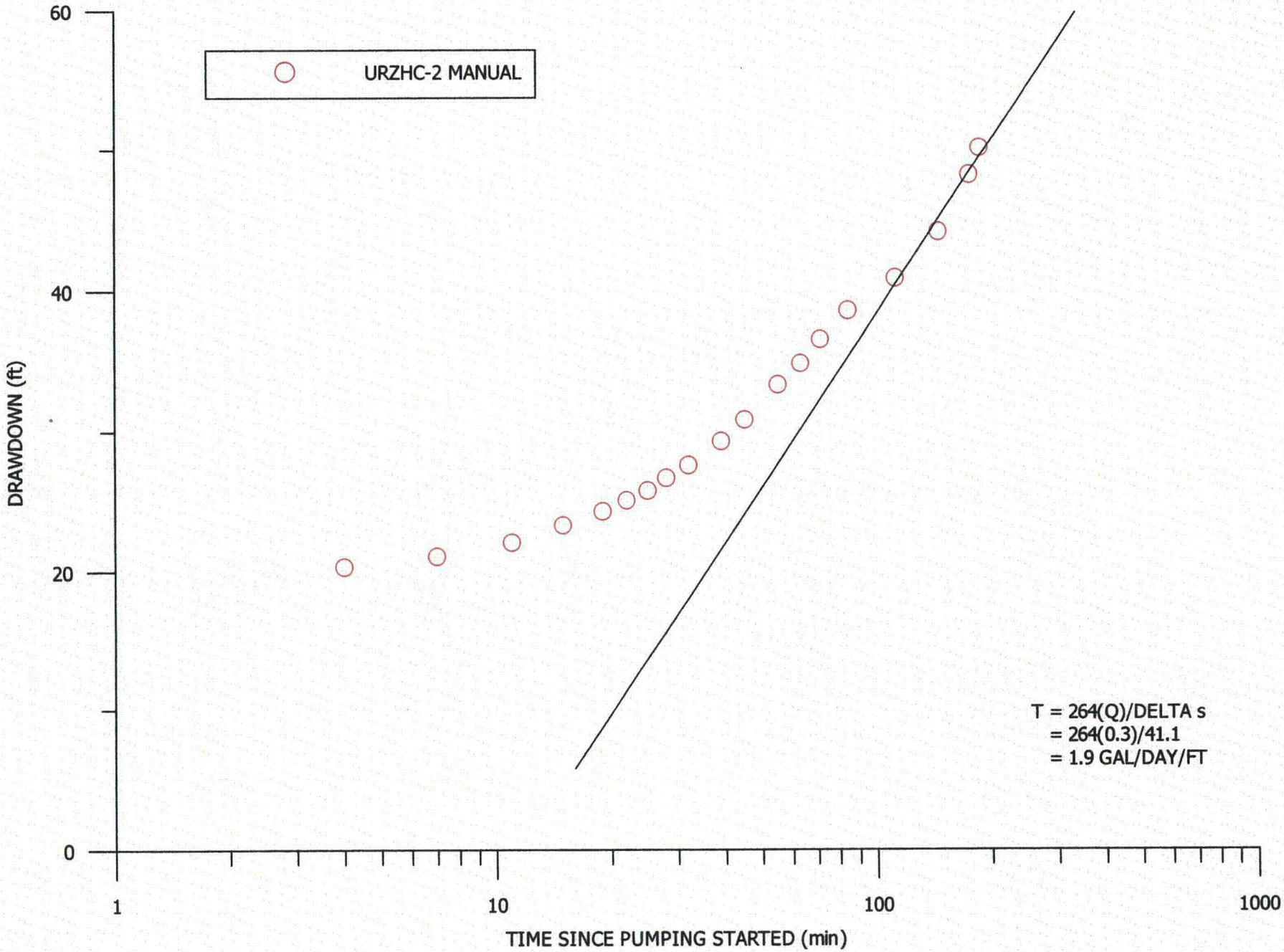

FIGURE D6B.1-19. DRAWDOWN IN PUMPING WELL URZHC-2

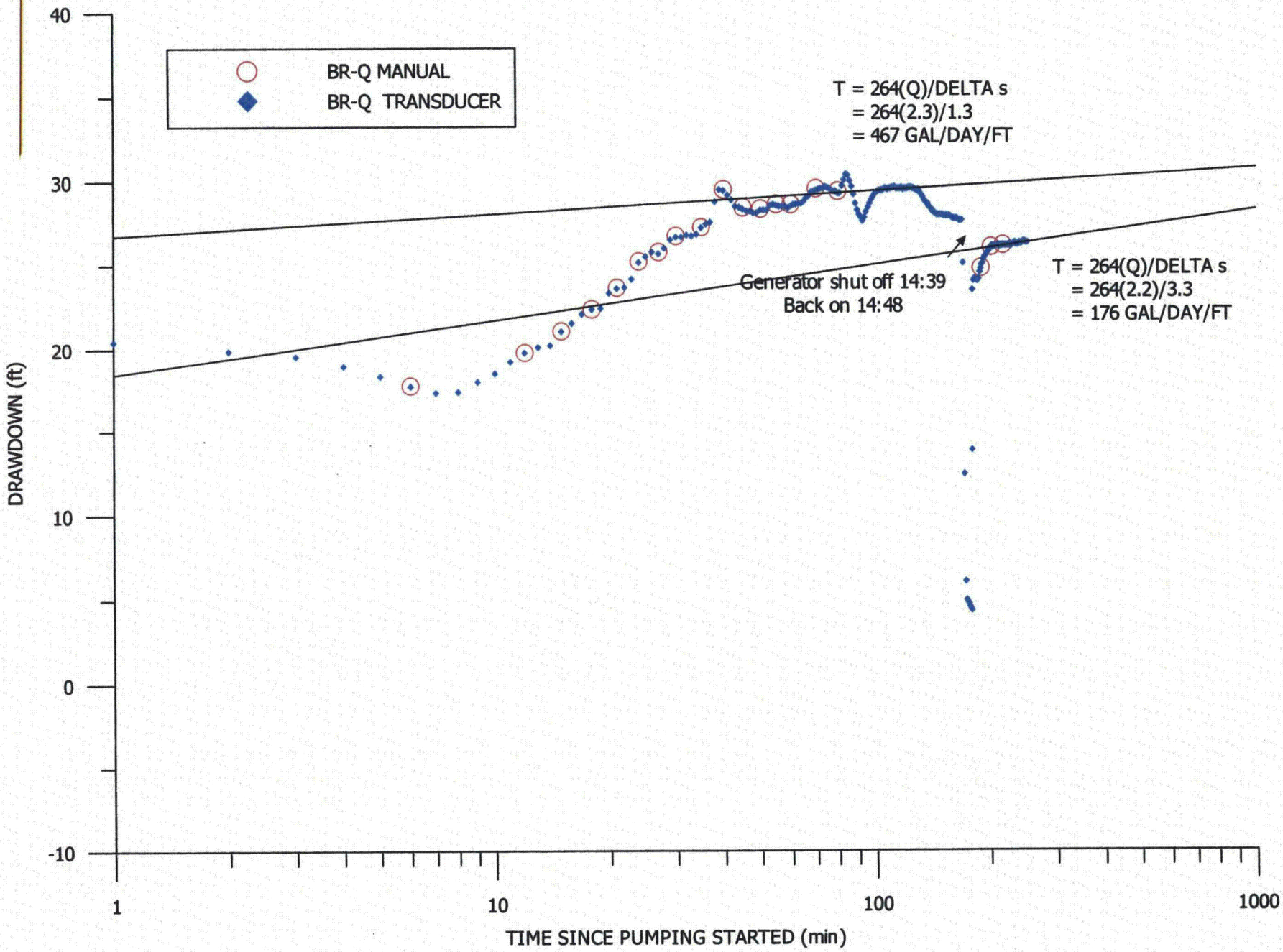

FIGURE D6C.1-20. DRAWDOWN IN PUMPING WELL BR-Q

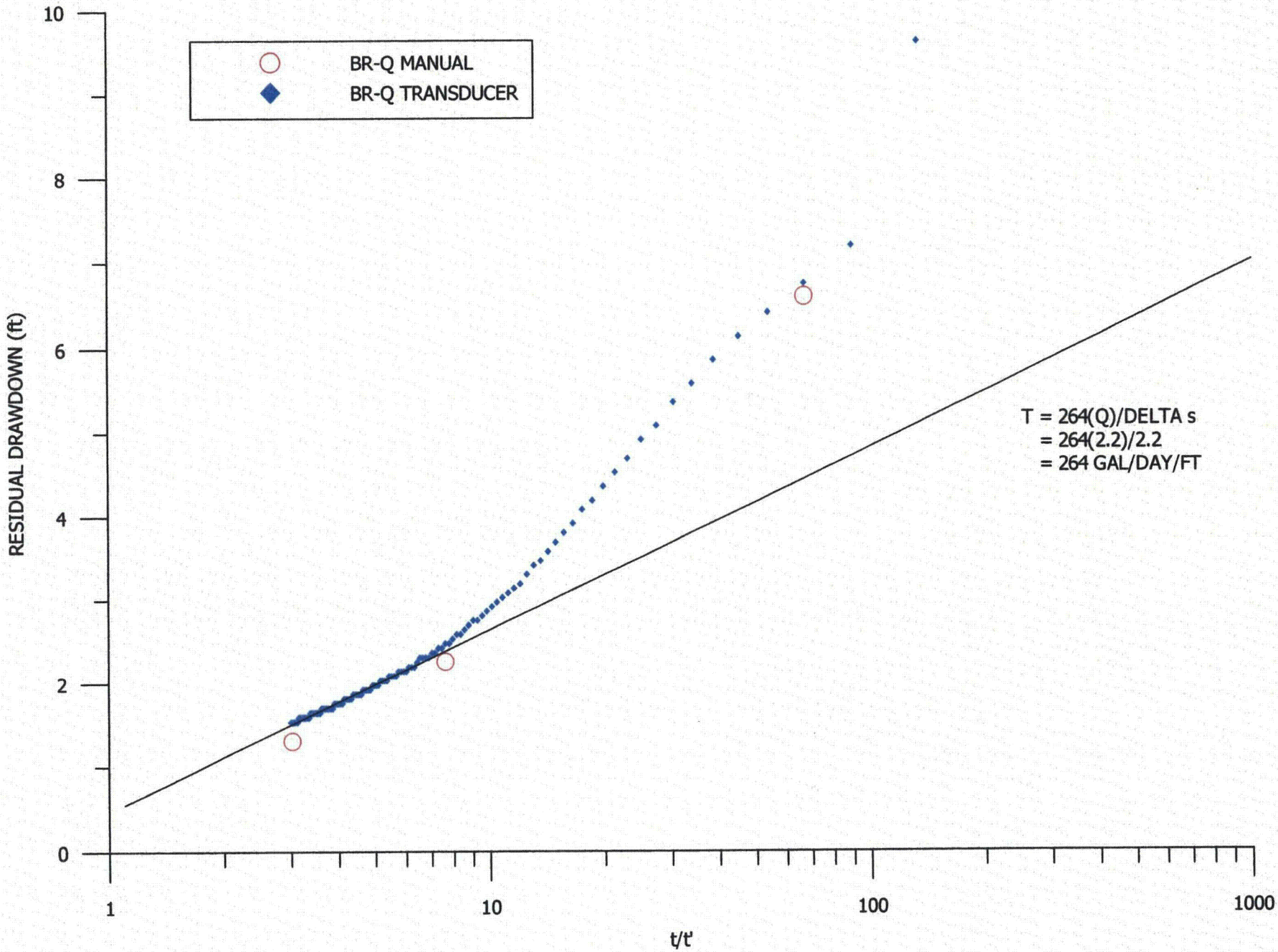

FIGURE D6C.1-21. RECOVERY IN PUMPING WELL BR-Q

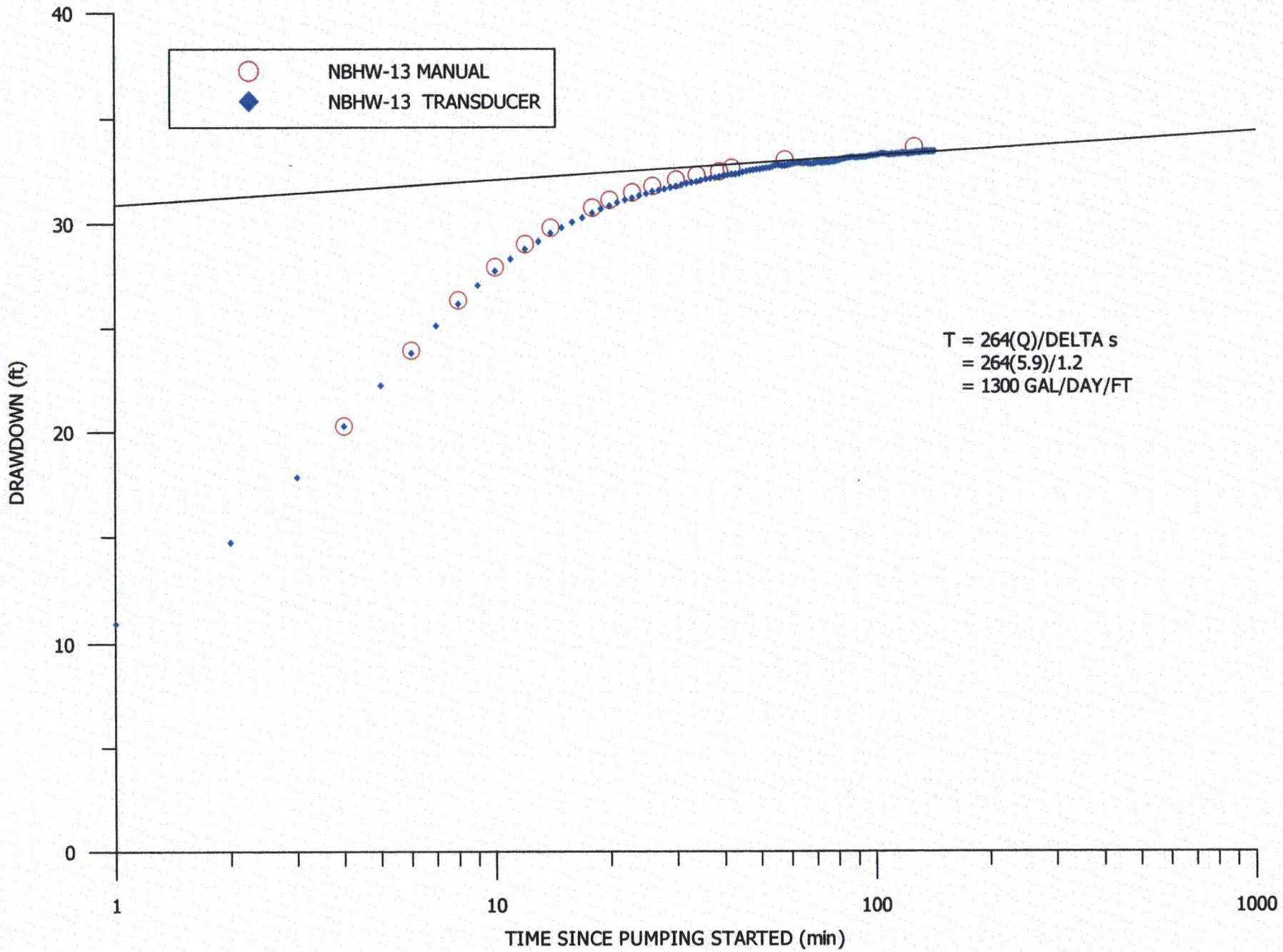

FIGURE D6C.1-22. DRAWDOWN IN PUMPING WELL NBHW-13

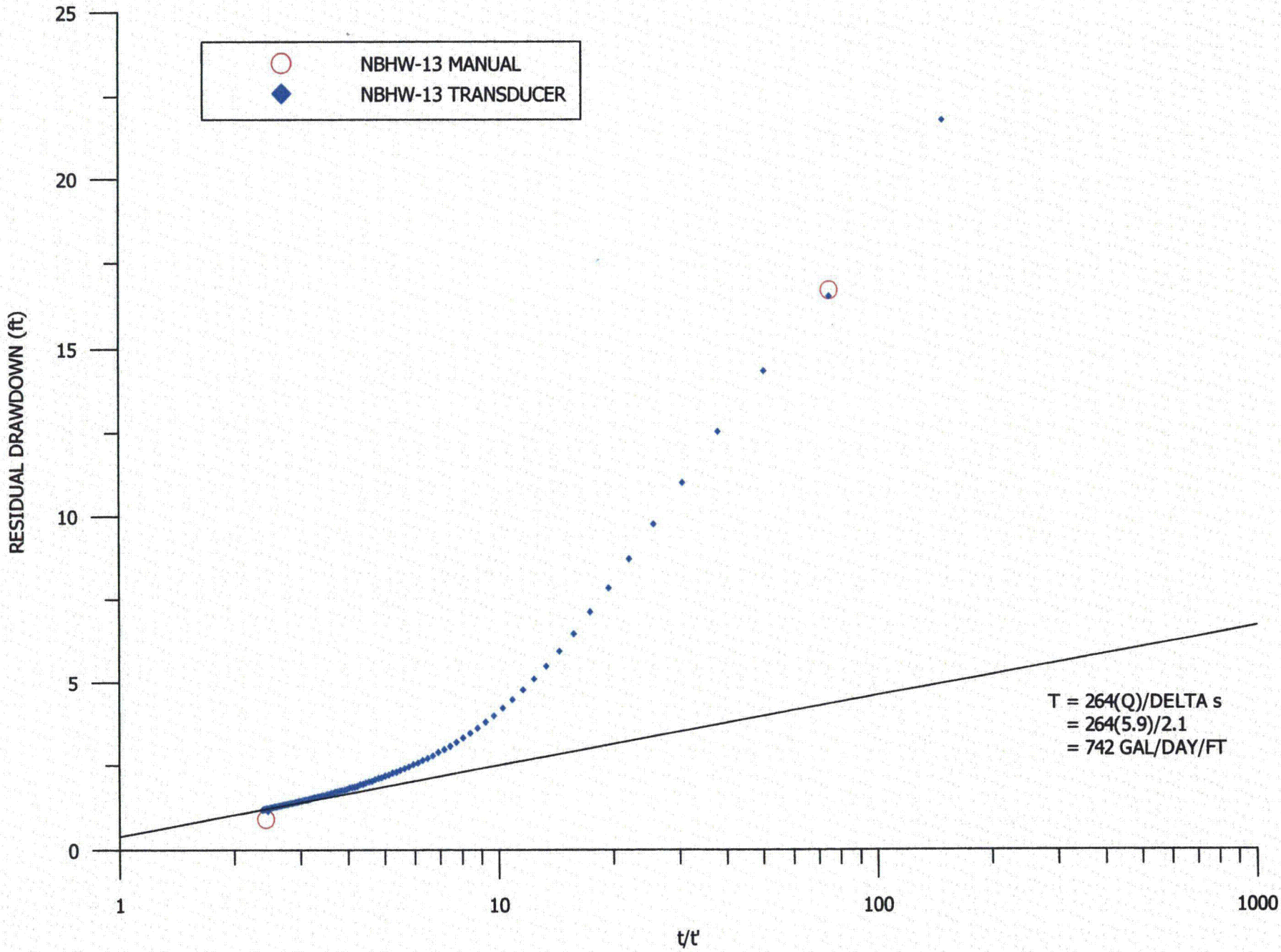

FIGURE D6C.1-23. RECOVERY IN PUMPING WELL NBHW-13

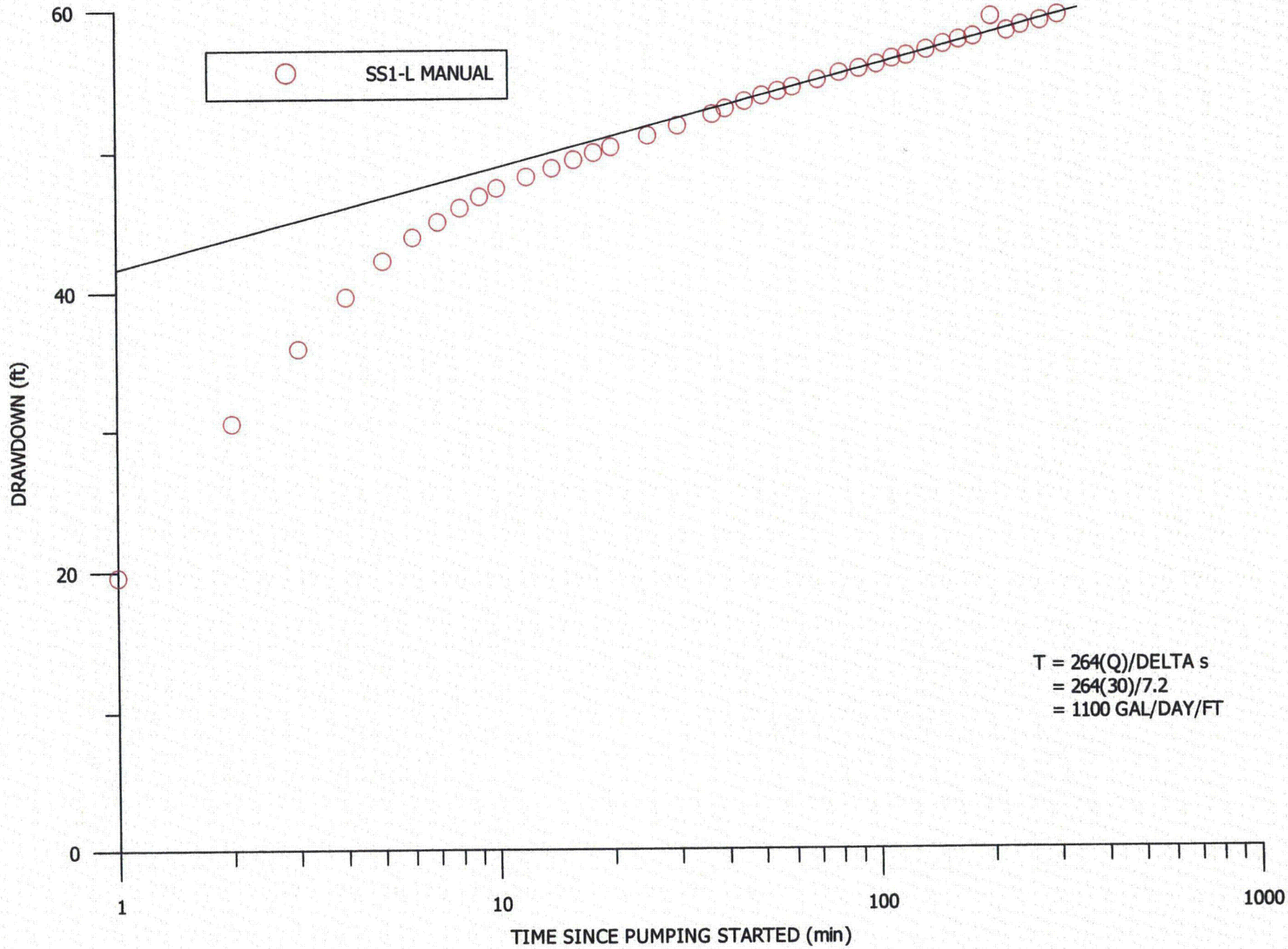

FIGURE D6C.1-24. DRAWDOWN IN PUMPING WELL SS1-L

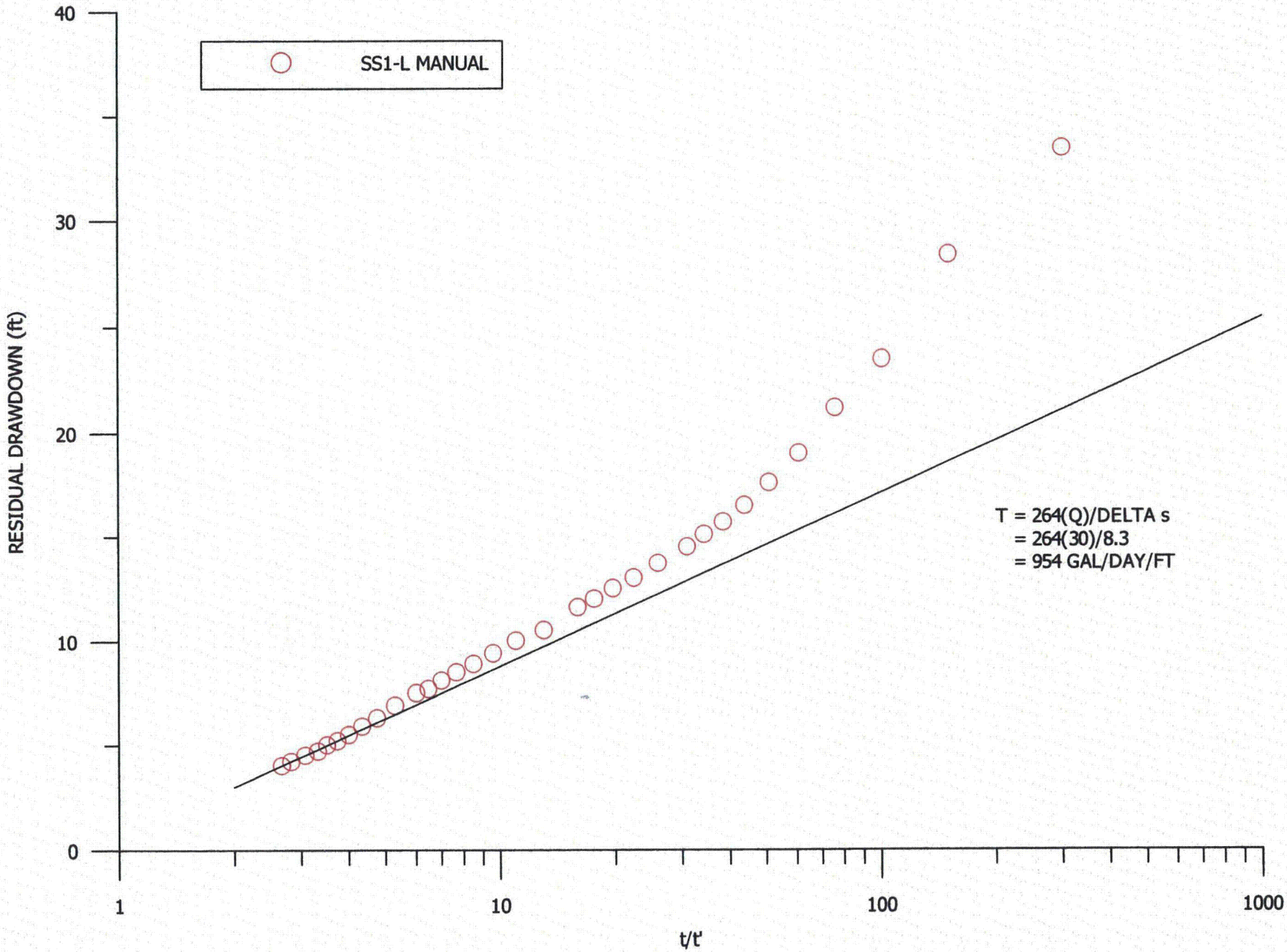

FIGURE D6C.1-25. RECOVERY IN PUMPING WELL SS1-L

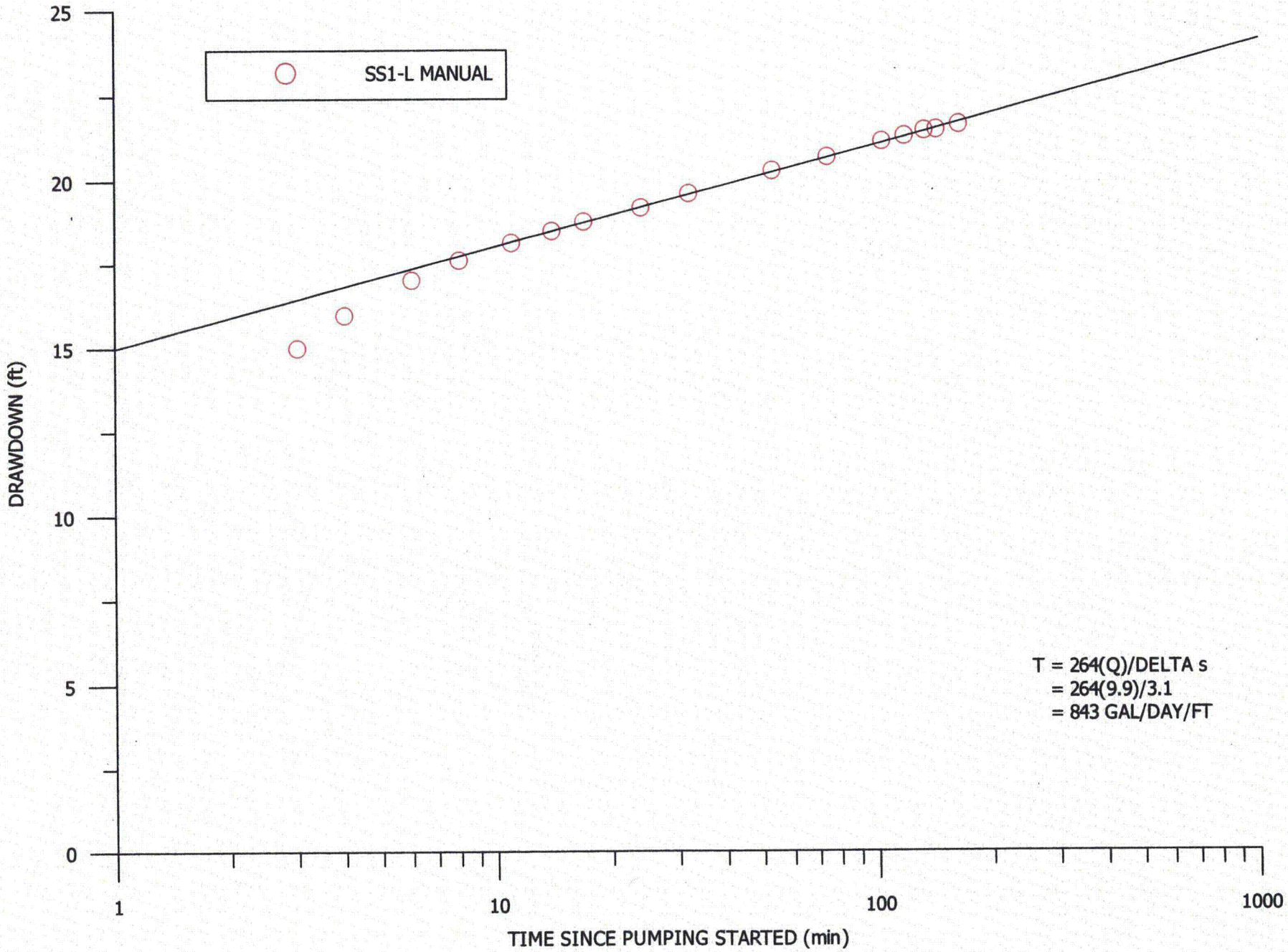

FIGURE D6C.1-26. DRAWDOWN IN PUMPING WELL SS1-L, 2ND TEST

TABLE D6C.1-1. AQUIFER-TEST DATA FOR PUMPING WELL HANK 1.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/11/07	11:35:00	-8	–	–	356.34	0.00	–	–	–	–
	11:43:00	PUMP ON								
	11:45:00	2	–	–	–	–	7.90	–	–	–
	11:47:00	4	–	–	367.43	11.09	–	–	–	–
	11:48:00	5	–	–	–	–	6.80	–	–	–
	11:49:00	6	–	–	365.56	9.22	–	–	–	–
	11:50:00	7	–	–	–	–	6.60	–	–	–
	11:53:00	10	–	–	–	–	9.30	–	–	–
	11:54:00	11	–	–	365.65	9.31	–	–	–	–
	11:56:00	13	–	–	366.12	9.78	8.60	–	–	–
	11:58:00	15	–	–	366.14	9.80	8.00	–	–	–
	12:01:00	18	–	–	366.01	9.67	7.90	–	–	–
	12:03:00	20	–	–	366.93	10.59	9.30	–	–	–
	12:04:00	21	–	–	367.32	10.98	9.10	–	–	–
	12:06:00	23	–	–	367.50	11.16	9.30	–	–	–
	12:08:00	25	–	–	367.64	11.30	–	–	–	–
	12:11:00	28	–	–	367.70	11.36	9.10	–	–	–
	12:15:00	32	–	–	367.75	11.41	9.00	–	–	–
	12:21:00	38	–	–	367.88	11.54	8.80	–	–	–
	12:23:00	40	–	–	–	–	9.20	–	–	–
	12:31:00	48	–	–	368.66	12.32	9.30	–	–	–
	12:43:00	60	–	–	368.78	12.44	9.20	–	–	–
	12:47:00	64	–	–	368.79	12.45	–	–	–	–
	12:48:00	PUMP OFF								
	12:49:00	66	1	66.0	362.35	6.01	–	–	–	–
	12:50:00	67	2	33.5	359.05	2.71	–	–	–	–
	12:51:00	68	3	22.7	356.95	0.61	–	–	–	–
	12:52:00	69	4	17.2	355.63	-0.71	–	–	–	–
	12:53:00	70	5	14.0	354.73	-1.61	–	–	–	–
	12:54:00	71	6	11.8	354.26	-2.08	–	–	–	–
	12:55:00	72	7	10.3	354.03	-2.31	–	–	–	–
	12:56:00	73	8	9.1	353.96	-2.38	–	–	–	–
	12:57:00	74	9	8.2	353.97	-2.37	–	–	–	–
	12:58:00	75	10	7.5	354.08	-2.26	–	–	–	–
	12:59:00	76	11	6.9	354.21	-2.13	–	–	–	–
	13:00:00	77	12	6.4	354.39	-1.95	–	–	–	–
	13:02:00	79	14	5.6	354.89	-1.45	–	–	–	–
	13:05:00	82	17	4.8	355.73	-0.61	–	–	–	–
	13:08:00	85	20	4.2	356.45	0.11	–	–	–	–
	13:11:00	88	23	3.8	356.67	0.33	–	–	–	–
	13:15:00	92	27	3.4	356.78	0.44	–	–	–	–
	13:20:00	97	32	3.0	356.80	0.46	–	–	–	–
	13:33:00	110	45	2.4	356.71	0.37	–	–	–	–
	13:49:00	126	61	2.1	356.60	0.26	–	–	–	–
	14:48:00	185	120	1.5	356.48	0.14	–	–	–	–

TABLE D6C.1-2. AQUIFER-TEST DATA FOR PUMPING WELL DRY WILLOW 1.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
05/02/07	8:52:00	-13	–	–	223.15	0.00	–	–	–	–
	9:05:00	PUMP ON								
	9:07:00	2	–	–	–	–	9.90	–	–	–
	9:09:00	4	–	–	226.55	3.40	–	–	–	–
	9:10:00	5	–	–	–	–	10.60	–	–	–
	9:12:00	7	–	–	226.64	3.49	–	–	–	–
	9:15:00	10	–	–	226.70	3.55	–	–	–	–
	9:20:00	15	–	–	226.78	3.63	–	–	–	–
	9:26:00	21	–	–	226.85	3.70	–	–	–	–
	9:30:00	25	–	–	–	–	10.20	–	–	–
	9:32:00	27	–	–	226.89	3.74	–	–	–	–
	9:42:00	37	–	–	226.93	3.78	–	–	–	–
	11:56:00	171	–	–	227.15	4.00	–	–	–	–
	12:04:00	179	–	–	–	–	–	–	1069	7.24
	12:11:00	186	–	–	–	–	–	–	1071	7.17
	12:20:00	195	–	–	–	–	–	–	1067	7.17
	12:32:00	207	–	–	–	–	9.90	–	–	–
	12:33:00	208	–	–	227.18	4.03	–	–	–	–
	12:34:00	PUMP OFF								
	12:43:00	218	9	24.2	223.62	0.47	–	–	–	–
	18:15:00	550	341	1.6	223.09	-0.06	–	–	–	–

TABLE D6C.1-3. TRANSDUCER DATA FOR PUMPING WELL DRY WILLOW 1.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
5/2/07	9:00	223.15	5/2/07	9:53	226.88	5/2/07	10:46	226.99	5/2/07	11:39	227.07	5/2/07	12:32	227.17
5/2/07	9:01	223.15	5/2/07	9:54	226.91	5/2/07	10:47	226.99	5/2/07	11:40	227.11	5/2/07	12:33	227.17
5/2/07	9:02	223.15	5/2/07	9:55	226.88	5/2/07	10:48	226.96	5/2/07	11:41	227.11	5/2/07	12:34	226.58
5/2/07	9:03	223.15	5/2/07	9:56	226.91	5/2/07	10:49	226.96	5/2/07	11:42	227.07	5/2/07	12:35	223.12
5/2/07	9:04	223.15	5/2/07	9:57	226.91	5/2/07	10:50	226.99	5/2/07	11:43	227.14	5/2/07	12:36	222.95
5/2/07	9:05	223.65	5/2/07	9:58	226.91	5/2/07	10:51	226.99	5/2/07	11:44	227.11	5/2/07	12:37	223.55
5/2/07	9:06	226.74	5/2/07	9:59	226.91	5/2/07	10:52	226.99	5/2/07	11:45	227.11	5/2/07	12:38	223.68
5/2/07	9:07	226.32	5/2/07	10:00	226.86	5/2/07	10:53	226.99	5/2/07	11:46	227.14	5/2/07	12:39	223.71
5/2/07	9:08	226.41	5/2/07	10:01	226.89	5/2/07	10:54	226.96	5/2/07	11:47	227.11	5/2/07	12:40	223.71
5/2/07	9:09	226.51	5/2/07	10:02	226.89	5/2/07	10:55	226.96	5/2/07	11:48	227.11	5/2/07	12:41	223.68
5/2/07	9:10	226.55	5/2/07	10:03	226.86	5/2/07	10:56	226.99	5/2/07	11:49	227.14	5/2/07	12:42	223.65
5/2/07	9:11	226.58	5/2/07	10:04	226.89	5/2/07	10:57	226.99	5/2/07	11:50	227.14	5/2/07	12:43	223.65
5/2/07	9:12	226.61	5/2/07	10:05	226.89	5/2/07	10:58	226.99	5/2/07	11:51	227.14	5/2/07	12:44	223.65
5/2/07	9:13	226.61	5/2/07	10:06	226.89	5/2/07	10:59	226.99	5/2/07	11:52	227.11	5/2/07	12:45	223.61
5/2/07	9:14	226.65	5/2/07	10:07	226.89	5/2/07	11:00	227.04	5/2/07	11:53	227.14	5/2/07	12:46	223.61
5/2/07	9:15	226.65	5/2/07	10:08	226.89	5/2/07	11:01	227.04	5/2/07	11:54	227.14	5/2/07	12:47	223.58
5/2/07	9:16	226.68	5/2/07	10:09	226.89	5/2/07	11:02	227.04	5/2/07	11:55	227.14	5/2/07	12:48	223.58
5/2/07	9:17	226.68	5/2/07	10:10	226.89	5/2/07	11:03	227.04	5/2/07	11:56	227.14	5/2/07	12:49	223.58
5/2/07	9:18	226.68	5/2/07	10:11	226.89	5/2/07	11:04	227.04	5/2/07	11:57	227.14	5/2/07	12:50	223.58
5/2/07	9:19	226.71	5/2/07	10:12	226.89	5/2/07	11:05	227.07	5/2/07	11:58	227.14	5/2/07	12:51	223.55
5/2/07	9:20	226.71	5/2/07	10:13	226.89	5/2/07	11:06	227.07	5/2/07	11:59	227.14	5/2/07	12:52	223.55
5/2/07	9:21	226.74	5/2/07	10:14	226.89	5/2/07	11:07	227.07	5/2/07	12:00	227.14	5/2/07	12:53	223.55
5/2/07	9:22	226.74	5/2/07	10:15	226.89	5/2/07	11:08	227.07	5/2/07	12:01	227.14	5/2/07	12:54	223.55
5/2/07	9:23	226.74	5/2/07	10:16	226.92	5/2/07	11:09	227.07	5/2/07	12:02	227.14	5/2/07	12:55	223.55
5/2/07	9:24	226.78	5/2/07	10:17	226.89	5/2/07	11:10	227.07	5/2/07	12:03	227.14	5/2/07	12:56	223.51
5/2/07	9:25	226.74	5/2/07	10:18	226.92	5/2/07	11:11	227.07	5/2/07	12:04	227.14	5/2/07	12:57	223.51
5/2/07	9:26	226.78	5/2/07	10:19	226.92	5/2/07	11:12	227.07	5/2/07	12:05	227.14	5/2/07	12:58	223.51
5/2/07	9:27	226.78	5/2/07	10:20	226.92	5/2/07	11:13	227.07	5/2/07	12:06	227.14	5/2/07	12:59	223.51
5/2/07	9:28	226.78	5/2/07	10:21	226.89	5/2/07	11:14	227.07	5/2/07	12:07	227.14	5/2/07	13:00	223.51
5/2/07	9:29	226.81	5/2/07	10:22	226.92	5/2/07	11:15	227.07	5/2/07	12:08	227.14	5/2/07	13:01	223.51
5/2/07	9:30	226.81	5/2/07	10:23	226.92	5/2/07	11:16	227.07	5/2/07	12:09	227.14	5/2/07	13:02	223.48
5/2/07	9:31	226.81	5/2/07	10:24	226.92	5/2/07	11:17	227.07	5/2/07	12:10	227.14	5/2/07	13:03	223.48
5/2/07	9:32	226.81	5/2/07	10:25	226.92	5/2/07	11:18	227.07	5/2/07	12:11	227.14	5/2/07	13:04	223.48
5/2/07	9:33	226.81	5/2/07	10:26	226.92	5/2/07	11:19	227.07	5/2/07	12:12	227.14	5/2/07	13:05	223.48
5/2/07	9:34	226.81	5/2/07	10:27	226.92	5/2/07	11:20	227.07	5/2/07	12:13	227.14	5/2/07	13:06	223.48
5/2/07	9:35	226.84	5/2/07	10:28	226.92	5/2/07	11:21	227.07	5/2/07	12:14	227.14	5/2/07	13:07	223.48
5/2/07	9:36	226.81	5/2/07	10:29	226.96	5/2/07	11:22	227.07	5/2/07	12:15	227.14	5/2/07	13:08	223.48
5/2/07	9:37	226.84	5/2/07	10:30	226.92	5/2/07	11:23	227.07	5/2/07	12:16	227.14	5/2/07	13:09	223.45
5/2/07	9:38	226.84	5/2/07	10:31	226.96	5/2/07	11:24	227.07	5/2/07	12:17	227.14	5/2/07	13:10	223.45
5/2/07	9:39	226.81	5/2/07	10:32	226.96	5/2/07	11:25	227.07	5/2/07	12:18	227.14	5/2/07	13:11	223.45
5/2/07	9:40	226.84	5/2/07	10:33	226.96	5/2/07	11:26	227.07	5/2/07	12:19	227.14	5/2/07	13:12	223.45
5/2/07	9:41	226.88	5/2/07	10:34	226.92	5/2/07	11:27	227.07	5/2/07	12:20	227.14	5/2/07	13:13	223.45
5/2/07	9:42	226.84	5/2/07	10:35	226.96	5/2/07	11:28	227.07	5/2/07	12:21	227.17	5/2/07	13:14	223.45
5/2/07	9:43	226.88	5/2/07	10:36	226.96	5/2/07	11:29	227.11	5/2/07	12:22	227.14	5/2/07	13:15	223.45
5/2/07	9:44	226.88	5/2/07	10:37	226.96	5/2/07	11:30	227.11	5/2/07	12:23	227.14	5/2/07	13:16	223.45
5/2/07	9:45	226.88	5/2/07	10:38	226.96	5/2/07	11:31	227.11	5/2/07	12:24	227.17	5/2/07	13:17	223.45
5/2/07	9:46	226.88	5/2/07	10:39	226.99	5/2/07	11:32	227.11	5/2/07	12:25	227.17	5/2/07	13:18	223.45
5/2/07	9:47	226.88	5/2/07	10:40	226.96	5/2/07	11:33	227.07	5/2/07	12:26	227.14	5/2/07	13:19	223.41
5/2/07	9:48	226.88	5/2/07	10:41	226.96	5/2/07	11:34	227.11	5/2/07	12:27	227.21	5/2/07	13:20	223.41
5/2/07	9:49	226.88	5/2/07	10:42	226.96	5/2/07	11:35	227.11	5/2/07	12:28	227.21	5/2/07	13:21	223.41
5/2/07	9:50	226.91	5/2/07	10:43	226.96	5/2/07	11:36	227.07	5/2/07	12:29	227.24	5/2/07	13:22	223.41
5/2/07	9:51	226.91	5/2/07	10:44	226.96	5/2/07	11:37	227.11	5/2/07	12:30	227.21	5/2/07	13:23	223.41
5/2/07	9:52	226.91	5/2/07	10:45	226.96	5/2/07	11:38	227.11	5/2/07	12:31	227.17	5/2/07	13:24	223.41

TABLE D6C.1-3. TRANSDUCER DATA FOR PUMPING WELL DRY WILLOW 1, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
5/2/07	13:25	223.41	5/2/07	14:18	223.35	5/2/07	15:11	223.28	5/2/07	16:04	223.25	5/2/07	16:57	223.25
5/2/07	13:26	223.41	5/2/07	14:19	223.32	5/2/07	15:12	223.28	5/2/07	16:05	223.25	5/2/07	16:58	223.25
5/2/07	13:27	223.41	5/2/07	14:20	223.32	5/2/07	15:13	223.28	5/2/07	16:06	223.25	5/2/07	16:59	223.25
5/2/07	13:28	223.41	5/2/07	14:21	223.32	5/2/07	15:14	223.28	5/2/07	16:07	223.25	5/2/07	17:00	223.25
5/2/07	13:29	223.41	5/2/07	14:22	223.32	5/2/07	15:15	223.28	5/2/07	16:08	223.25	5/2/07	17:01	223.25
5/2/07	13:30	223.38	5/2/07	14:23	223.32	5/2/07	15:16	223.28	5/2/07	16:09	223.25	5/2/07	17:02	223.25
5/2/07	13:31	223.38	5/2/07	14:24	223.32	5/2/07	15:17	223.28	5/2/07	16:10	223.25	5/2/07	17:03	223.22
5/2/07	13:32	223.38	5/2/07	14:25	223.32	5/2/07	15:18	223.28	5/2/07	16:11	223.25	5/2/07	17:04	223.25
5/2/07	13:33	223.38	5/2/07	14:26	223.32	5/2/07	15:19	223.28	5/2/07	16:12	223.25	5/2/07	17:05	223.25
5/2/07	13:34	223.38	5/2/07	14:27	223.32	5/2/07	15:20	223.28	5/2/07	16:13	223.25	5/2/07	17:06	223.25
5/2/07	13:35	223.38	5/2/07	14:28	223.32	5/2/07	15:21	223.28	5/2/07	16:14	223.25	5/2/07	17:07	223.25
5/2/07	13:36	223.38	5/2/07	14:29	223.32	5/2/07	15:22	223.28	5/2/07	16:15	223.25	5/2/07	17:08	223.25
5/2/07	13:37	223.38	5/2/07	14:30	223.32	5/2/07	15:23	223.28	5/2/07	16:16	223.25	5/2/07	17:09	223.22
5/2/07	13:38	223.38	5/2/07	14:31	223.32	5/2/07	15:24	223.28	5/2/07	16:17	223.25	5/2/07	17:10	223.25
5/2/07	13:39	223.38	5/2/07	14:32	223.32	5/2/07	15:25	223.28	5/2/07	16:18	223.25	5/2/07	17:11	223.25
5/2/07	13:40	223.38	5/2/07	14:33	223.32	5/2/07	15:26	223.28	5/2/07	16:19	223.25	5/2/07	17:12	223.25
5/2/07	13:41	223.38	5/2/07	14:34	223.32	5/2/07	15:27	223.28	5/2/07	16:20	223.25	5/2/07	17:13	223.22
5/2/07	13:42	223.38	5/2/07	14:35	223.32	5/2/07	15:28	223.25	5/2/07	16:21	223.25	5/2/07	17:14	223.25
5/2/07	13:43	223.38	5/2/07	14:36	223.32	5/2/07	15:29	223.28	5/2/07	16:22	223.25	5/2/07	17:15	223.25
5/2/07	13:44	223.38	5/2/07	14:37	223.32	5/2/07	15:30	223.28	5/2/07	16:23	223.25	5/2/07	17:16	223.25
5/2/07	13:45	223.38	5/2/07	14:38	223.32	5/2/07	15:31	223.28	5/2/07	16:24	223.25	5/2/07	17:17	223.25
5/2/07	13:46	223.38	5/2/07	14:39	223.32	5/2/07	15:32	223.28	5/2/07	16:25	223.25	5/2/07	17:18	223.22
5/2/07	13:47	223.38	5/2/07	14:40	223.32	5/2/07	15:33	223.28	5/2/07	16:26	223.25	5/2/07	17:19	223.25
5/2/07	13:48	223.38	5/2/07	14:41	223.32	5/2/07	15:34	223.28	5/2/07	16:27	223.25	5/2/07	17:20	223.22
5/2/07	13:49	223.38	5/2/07	14:42	223.32	5/2/07	15:35	223.28	5/2/07	16:28	223.25	5/2/07	17:21	223.22
5/2/07	13:50	223.35	5/2/07	14:43	223.32	5/2/07	15:36	223.28	5/2/07	16:29	223.25	5/2/07	17:22	223.22
5/2/07	13:51	223.35	5/2/07	14:44	223.32	5/2/07	15:37	223.28	5/2/07	16:30	223.25	5/2/07	17:23	223.25
5/2/07	13:52	223.38	5/2/07	14:45	223.32	5/2/07	15:38	223.28	5/2/07	16:31	223.25	5/2/07	17:24	223.22
5/2/07	13:53	223.35	5/2/07	14:46	223.32	5/2/07	15:39	223.28	5/2/07	16:32	223.25	5/2/07	17:25	223.22
5/2/07	13:54	223.38	5/2/07	14:47	223.32	5/2/07	15:40	223.25	5/2/07	16:33	223.25	5/2/07	17:26	223.25
5/2/07	13:55	223.35	5/2/07	14:48	223.32	5/2/07	15:41	223.28	5/2/07	16:34	223.25	5/2/07	17:27	223.25
5/2/07	13:56	223.35	5/2/07	14:49	223.32	5/2/07	15:42	223.25	5/2/07	16:35	223.25	5/2/07	17:28	223.22
5/2/07	13:57	223.35	5/2/07	14:50	223.32	5/2/07	15:43	223.28	5/2/07	16:36	223.25	5/2/07	17:29	223.22
5/2/07	13:58	223.35	5/2/07	14:51	223.32	5/2/07	15:44	223.25	5/2/07	16:37	223.25	5/2/07	17:30	223.25
5/2/07	13:59	223.35	5/2/07	14:52	223.32	5/2/07	15:45	223.25	5/2/07	16:38	223.25	5/2/07	17:31	223.22
5/2/07	14:00	223.35	5/2/07	14:53	223.32	5/2/07	15:46	223.28	5/2/07	16:39	223.25	5/2/07	17:32	223.22
5/2/07	14:01	223.35	5/2/07	14:54	223.32	5/2/07	15:47	223.25	5/2/07	16:40	223.25	5/2/07	17:33	223.22
5/2/07	14:02	223.35	5/2/07	14:55	223.32	5/2/07	15:48	223.25	5/2/07	16:41	223.25	5/2/07	17:34	223.22
5/2/07	14:03	223.35	5/2/07	14:56	223.32	5/2/07	15:49	223.28	5/2/07	16:42	223.25	5/2/07	17:35	223.22
5/2/07	14:04	223.35	5/2/07	14:57	223.28	5/2/07	15:50	223.25	5/2/07	16:43	223.25	5/2/07	17:36	223.22
5/2/07	14:05	223.35	5/2/07	14:58	223.28	5/2/07	15:51	223.25	5/2/07	16:44	223.25	5/2/07	17:37	223.22
5/2/07	14:06	223.35	5/2/07	14:59	223.28	5/2/07	15:52	223.25	5/2/07	16:45	223.25	5/2/07	17:38	223.22
5/2/07	14:07	223.35	5/2/07	15:00	223.28	5/2/07	15:53	223.25	5/2/07	16:46	223.25	5/2/07	17:39	223.22
5/2/07	14:08	223.35	5/2/07	15:01	223.28	5/2/07	15:54	223.25	5/2/07	16:47	223.25	5/2/07	17:40	223.22
5/2/07	14:09	223.35	5/2/07	15:02	223.28	5/2/07	15:55	223.25	5/2/07	16:48	223.25	5/2/07	17:41	223.22
5/2/07	14:10	223.32	5/2/07	15:03	223.28	5/2/07	15:56	223.25	5/2/07	16:49	223.25	5/2/07	17:42	223.22
5/2/07	14:11	223.35	5/2/07	15:04	223.28	5/2/07	15:57	223.25	5/2/07	16:50	223.25	5/2/07	17:43	223.22
5/2/07	14:12	223.35	5/2/07	15:05	223.28	5/2/07	15:58	223.25	5/2/07	16:51	223.25	5/2/07	17:44	223.22
5/2/07	14:13	223.32	5/2/07	15:06	223.28	5/2/07	15:59	223.25	5/2/07	16:52	223.25	5/2/07	17:45	223.22
5/2/07	14:14	223.35	5/2/07	15:07	223.28	5/2/07	16:00	223.25	5/2/07	16:53	223.25	5/2/07	17:46	223.22
5/2/07	14:15	223.32	5/2/07	15:08	223.28	5/2/07	16:01	223.25	5/2/07	16:54	223.25	5/2/07	17:47	223.22
5/2/07	14:16	223.35	5/2/07	15:09	223.28	5/2/07	16:02	223.25	5/2/07	16:55	223.25	5/2/07	17:48	223.22
5/2/07	14:17	223.32	5/2/07	15:10	223.28	5/2/07	16:03	223.28	5/2/07	16:56	223.25	5/2/07	17:49	223.22

TABLE D6C.1-3. TRANSDUCER DATA FOR PUMPING WELL DRY WILLOW 1, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
5/2/07	17:50	223.22												
5/2/07	17:51	223.22												
5/2/07	17:52	223.22												
5/2/07	17:53	223.22												
5/2/07	17:54	223.22												
5/2/07	17:55	223.22												
5/2/07	17:56	223.22												
5/2/07	17:57	223.22												
5/2/07	17:58	223.22												
5/2/07	17:59	223.22												
5/2/07	18:00	223.22												
5/2/07	18:01	223.22												
5/2/07	18:02	223.22												
5/2/07	18:03	223.22												
5/2/07	18:04	223.22												
5/2/07	18:05	223.22												
5/2/07	18:06	223.22												
5/2/07	18:07	223.22												
5/2/07	18:08	223.22												
5/2/07	18:09	223.22												
5/2/07	18:10	223.22												
5/2/07	18:11	223.22												
5/2/07	18:12	223.22												
5/2/07	18:13	223.22												
5/2/07	18:14	223.22												
5/2/07	18:15	223.22												
5/2/07	18:16	223.22												
5/2/07	18:16	223.22												
5/2/07	18:17	223.22												
5/2/07	18:18	223.22												
5/2/07	18:19	223.22												
5/2/07	18:20	223.22												
5/2/07	18:21	223.18												

TABLE D6C.1-4. AQUIFER-TEST DATA FOR PUMPING WELL BR-B.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
10/10/79	18:00:00	-8	--	--	142.80	0.00	--	--	--	--
	18:08:00	PUMP ON								
	18:13:00	5	--	--	154.39	11.59	--	--	--	--
	18:31:00	23	--	--	155.89	13.09	--	--	--	--
	18:47:00	39	--	--	156.20	13.40	--	--	--	--
	20:10:00	122	--	--	156.86	14.06	--	--	--	--
	22:00:00	232	--	--	157.22	14.42	--	--	--	--
10/11/79	0:40:00	392	--	--	157.41	14.61	--	--	--	--
	5:00:00	652	--	--	157.68	14.88	--	--	--	--
	7:10:00	782	--	--	157.84	15.04	--	--	--	--
	13:35:00	1167	--	--	157.97	15.17	--	--	--	--
	13:51:00	PUMP OFF								
	13:52:00	1184	1	1184.0	143.85	1.05	--	--	--	--
	13:54:00	1186	3	395.3	142.98	0.18	--	--	--	--
	13:55:00	1187	4	296.8	143.56	0.76	--	--	--	--
	13:56:00	1188	5	237.6	144.52	1.72	--	--	--	--
	13:57:00	1189	6	198.2	145.11	2.31	--	--	--	--
	13:58:00	1190	7	170.0	145.43	2.63	--	--	--	--
	13:59:00	1191	8	148.9	145.49	2.69	--	--	--	--
	14:00:00	1192	9	132.4	145.48	2.68	--	--	--	--
	14:01:00	1193	10	119.3	145.40	2.60	--	--	--	--
	14:06:00	1198	15	79.9	145.23	2.43	--	--	--	--
	14:11:00	1203	20	60.2	145.19	2.39	--	--	--	--
	14:20:00	1212	29	41.8	145.00	2.20	--	--	--	--
	14:31:00	1223	40	30.6	144.82	2.02	--	--	--	--
	14:51:00	1243	60	20.7	144.55	1.75	--	--	--	--
	15:14:00	1266	83	15.3	144.38	1.58	--	--	--	--
	15:29:00	1281	98	13.1	144.28	1.48	--	--	--	--
	16:58:00	1370	187	7.3	143.97	1.17	--	--	--	--
	19:30:00	1522	339	4.5	143.38	0.58	--	--	--	--
	21:49:00	1661	478	3.5	143.57	0.77	--	--	--	--
10/12/79	0:00:00	1792	609	2.9	143.46	0.66	--	--	--	--
	7:05:00	2217	1034	2.1	143.28	0.48	--	--	--	--
	9:44:00	2376	1193	2.0	143.24	0.44	--	--	--	--
	11:56:00	2508	1325	1.9	143.21	0.41	--	--	--	--
	14:17:00	2649	1466	1.8	143.17	0.37	--	--	--	--
	16:11:00	2763	1580	1.7	143.15	0.35	--	--	--	--

TABLE D6C.1-5. AQUIFER-TEST DATA FOR PUMPING WELL BR-B, 2ND TEST.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
04/25/07	10:45:00	-5	–	–	142.64	0.00	–	–	–	–
	10:50:00	PUMP ON								
	10:53:00	3	–	–	–	–	5.59	–	–	–
	10:55:00	5	–	–	148.03	5.39	–	–	–	–
	10:58:00	8	–	–	148.47	5.83	–	–	–	–
	11:00:00	10	–	–	148.97	6.33	12.55	–	–	–
	11:03:00	13	–	–	154.48	11.84	–	–	–	–
	11:05:00	15	–	–	155.08	12.44	–	–	–	–
	11:08:00	18	–	–	155.47	12.83	–	–	–	–
	11:11:00	21	–	–	155.67	13.03	12.95	–	–	–
	11:14:00	24	–	–	155.82	13.18	–	–	–	–
	11:18:00	28	–	–	155.91	13.27	–	–	–	–
	11:22:00	32	–	–	156.01	13.37	–	–	–	–
	11:25:00	35	–	–	156.09	13.45	–	–	–	–
	11:28:00	38	–	–	156.15	13.51	–	–	–	–
	11:31:00	41	–	–	156.17	13.53	–	–	–	–
	11:32:00	42	–	–	–	–	–	12.1	1422	6.96
	11:35:00	45	–	–	156.26	13.62	–	–	–	–
	11:36:00	46	–	–	–	–	–	11.6	1428	6.91
	11:39:00	49	–	–	156.33	13.69	–	–	–	–
	11:40:00	50	–	–	–	–	–	11.6	1422	6.87
	11:43:00	53	–	–	156.39	13.75	–	–	–	–
	11:45:00	SAMPLE TAKEN								
	11:49:00	59	–	–	156.51	13.87	–	–	–	–

TABLE D6C.1-6. AQUIFER-TEST DATA FOR PUMPING WELL BR-G.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
08/08/07	13:47:00	-5	–	–	148.86	0.00	–	–	–	–
	13:52:00	PUMP ON								
	13:57:00	5	–	–	162.31	13.45	1.90	–	–	–
	14:01:00	9	–	–	168.06	19.20	1.70	–	–	–
	14:06:00	14	–	–	175.15	26.29	2.20	–	–	–
	14:09:00	17	–	–	179.40	30.54	2.10	–	–	–
	14:12:00	20	–	–	182.77	33.91	2.00	–	–	–
	14:15:00	23	–	–	185.71	36.85	2.00	–	–	–
	14:18:00	26	–	–	188.37	39.51	1.90	–	–	–
	14:21:00	29	–	–	191.20	42.34	2.20	–	–	–
	14:25:00	33	–	–	–	–	2.00	–	–	–
	14:27:00	35	–	–	196.10	47.24	2.00	–	–	–
	14:32:00	40	–	–	199.49	50.63	2.00	–	–	–
	14:42:00	50	–	–	205.11	56.25	1.90	–	–	–
	15:40:00	108	–	–	–	–	1.80	–	–	–
	15:54:00	122	–	–	212.56	63.70	1.20	–	–	–
	16:21:00	PUMP OFF								
	16:22:00	150	1	150.0	199.06	50.20	–	–	–	–
	16:25:00	153	4	38.2	192.49	43.63	–	–	–	–
	16:30:00	158	9	17.6	187.16	38.30	–	–	–	–
	16:34:00	162	13	12.5	183.36	34.50	–	–	–	–
	18:18:00	266	117	2.3	151.34	2.48	–	–	–	–

TABLE D6C.1-7. TRANSDUCER DATA FOR PUMPING WELL BR-G.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/8/07	13:47	26.46	8/8/07	14:40	80.63	8/8/07	15:33	92.00	8/8/07	16:26	68.03	8/8/07	17:19	36.22
8/8/07	13:48	26.46	8/8/07	14:41	81.12	8/8/07	15:34	92.00	8/8/07	16:27	66.98	8/8/07	17:20	35.95
8/8/07	13:49	26.46	8/8/07	14:42	81.61	8/8/07	15:35	92.00	8/8/07	16:28	65.92	8/8/07	17:21	35.69
8/8/07	13:50	26.43	8/8/07	14:43	82.11	8/8/07	15:36	92.00	8/8/07	16:29	64.90	8/8/07	17:22	35.46
8/8/07	13:51	26.46	8/8/07	14:44	82.57	8/8/07	15:37	92.00	8/8/07	16:30	63.91	8/8/07	17:23	35.20
8/8/07	13:52	26.43	8/8/07	14:45	83.03	8/8/07	15:38	92.00	8/8/07	16:31	62.95	8/8/07	17:24	34.97
8/8/07	13:53	34.83	8/8/07	14:46	83.46	8/8/07	15:39	92.00	8/8/07	16:32	62.00	8/8/07	17:25	34.73
8/8/07	13:54	36.25	8/8/07	14:47	83.89	8/8/07	15:40	92.00	8/8/07	16:33	61.08	8/8/07	17:26	34.54
8/8/07	13:55	37.70	8/8/07	14:48	84.32	8/8/07	15:41	92.00	8/8/07	16:34	60.19	8/8/07	17:27	34.31
8/8/07	13:56	39.15	8/8/07	14:49	84.71	8/8/07	15:42	92.00	8/8/07	16:35	59.26	8/8/07	17:28	34.11
8/8/07	13:57	40.50	8/8/07	14:50	85.11	8/8/07	15:43	92.00	8/8/07	16:36	58.41	8/8/07	17:29	33.88
8/8/07	13:58	41.63	8/8/07	14:51	85.50	8/8/07	15:44	92.00	8/8/07	16:37	57.58	8/8/07	17:30	33.68
8/8/07	13:59	42.71	8/8/07	14:52	85.87	8/8/07	15:45	92.00	8/8/07	16:38	56.76	8/8/07	17:31	33.48
8/8/07	14:00	44.00	8/8/07	14:53	86.23	8/8/07	15:46	92.00	8/8/07	16:39	55.93	8/8/07	17:32	33.32
8/8/07	14:01	45.12	8/8/07	14:54	86.59	8/8/07	15:47	91.31	8/8/07	16:40	55.17	8/8/07	17:33	33.12
8/8/07	14:02	46.34	8/8/07	14:55	86.95	8/8/07	15:48	90.35	8/8/07	16:41	54.42	8/8/07	17:34	32.92
8/8/07	14:03	47.95	8/8/07	14:56	87.28	8/8/07	15:49	89.63	8/8/07	16:42	53.66	8/8/07	17:35	32.79
8/8/07	14:04	49.57	8/8/07	14:57	87.65	8/8/07	15:50	89.36	8/8/07	16:43	52.93	8/8/07	17:36	32.63
8/8/07	14:05	50.79	8/8/07	14:58	87.98	8/8/07	15:51	89.10	8/8/07	16:44	52.24	8/8/07	17:37	32.46
8/8/07	14:06	52.21	8/8/07	14:59	88.27	8/8/07	15:52	88.83	8/8/07	16:45	51.52	8/8/07	17:38	32.30
8/8/07	14:07	53.66	8/8/07	15:00	88.57	8/8/07	15:53	88.87	8/8/07	16:46	50.86	8/8/07	17:39	32.13
8/8/07	14:08	54.98	8/8/07	15:01	88.90	8/8/07	15:54	88.87	8/8/07	16:47	50.20	8/8/07	17:40	32.00
8/8/07	14:09	56.30	8/8/07	15:02	89.16	8/8/07	15:55	88.87	8/8/07	16:48	49.57	8/8/07	17:41	31.87
8/8/07	14:10	57.52	8/8/07	15:03	89.46	8/8/07	15:56	88.87	8/8/07	16:49	48.94	8/8/07	17:42	31.73
8/8/07	14:11	58.60	8/8/07	15:04	89.76	8/8/07	15:57	88.83	8/8/07	16:50	48.35	8/8/07	17:43	31.60
8/8/07	14:12	59.63	8/8/07	15:05	90.02	8/8/07	15:58	88.80	8/8/07	16:51	47.76	8/8/07	17:44	31.47
8/8/07	14:13	60.68	8/8/07	15:06	90.28	8/8/07	15:59	88.77	8/8/07	16:52	47.16	8/8/07	17:45	31.34
8/8/07	14:14	61.60	8/8/07	15:07	90.55	8/8/07	16:00	88.77	8/8/07	16:53	46.60	8/8/07	17:46	31.21
8/8/07	14:15	62.56	8/8/07	15:08	90.81	8/8/07	16:01	88.73	8/8/07	16:54	46.04	8/8/07	17:47	31.08
8/8/07	14:16	63.48	8/8/07	15:09	91.04	8/8/07	16:02	88.70	8/8/07	16:55	45.52	8/8/07	17:48	30.98
8/8/07	14:17	64.34	8/8/07	15:10	91.27	8/8/07	16:03	88.64	8/8/07	16:56	44.99	8/8/07	17:49	30.88
8/8/07	14:18	65.20	8/8/07	15:11	91.50	8/8/07	16:04	88.64	8/8/07	16:57	44.49	8/8/07	17:50	30.75
8/8/07	14:19	66.02	8/8/07	15:12	91.77	8/8/07	16:05	88.57	8/8/07	16:58	44.00	8/8/07	17:51	30.65
8/8/07	14:20	66.81	8/8/07	15:13	91.97	8/8/07	16:06	88.54	8/8/07	16:59	43.50	8/8/07	17:52	30.55
8/8/07	14:21	67.93	8/8/07	15:14	92.00	8/8/07	16:07	88.50	8/8/07	17:00	43.04	8/8/07	17:53	30.45
8/8/07	14:22	69.05	8/8/07	15:15	92.00	8/8/07	16:08	88.37	8/8/07	17:01	42.58	8/8/07	17:54	30.35
8/8/07	14:23	69.75	8/8/07	15:16	92.00	8/8/07	16:09	87.94	8/8/07	17:02	42.15	8/8/07	17:55	30.25
8/8/07	14:24	70.50	8/8/07	15:17	92.00	8/8/07	16:10	87.52	8/8/07	17:03	41.72	8/8/07	17:56	30.19
8/8/07	14:25	71.26	8/8/07	15:18	92.00	8/8/07	16:11	87.09	8/8/07	17:04	41.30	8/8/07	17:57	30.05
8/8/07	14:26	72.02	8/8/07	15:19	92.00	8/8/07	16:12	86.69	8/8/07	17:05	40.90	8/8/07	17:58	29.99
8/8/07	14:27	72.75	8/8/07	15:20	92.00	8/8/07	16:13	86.30	8/8/07	17:06	40.50	8/8/07	17:59	29.92
8/8/07	14:28	73.44	8/8/07	15:21	92.00	8/8/07	16:14	85.90	8/8/07	17:07	40.11	8/8/07	18:00	29.86
8/8/07	14:29	74.13	8/8/07	15:22	92.00	8/8/07	16:15	85.50	8/8/07	17:08	39.75	8/8/07	18:01	29.76
8/8/07	14:30	74.82	8/8/07	15:23	92.00	8/8/07	16:16	85.14	8/8/07	17:09	39.38	8/8/07	18:02	29.69
8/8/07	14:31	75.45	8/8/07	15:24	92.00	8/8/07	16:17	84.78	8/8/07	17:10	39.02	8/8/07	18:03	29.59
8/8/07	14:32	76.08	8/8/07	15:25	92.00	8/8/07	16:18	84.45	8/8/07	17:11	38.66	8/8/07	18:04	29.53
8/8/07	14:33	76.73	8/8/07	15:26	92.00	8/8/07	16:19	84.09	8/8/07	17:12	38.33	8/8/07	18:05	29.49
8/8/07	14:34	77.33	8/8/07	15:27	92.00	8/8/07	16:20	83.76	8/8/07	17:13	38.00	8/8/07	18:06	29.39
8/8/07	14:35	77.89	8/8/07	15:28	92.00	8/8/07	16:21	83.43	8/8/07	17:14	37.70	8/8/07	18:07	29.33
8/8/07	14:36	78.48	8/8/07	15:29	92.00	8/8/07	16:22	75.42	8/8/07	17:15	37.37	8/8/07	18:08	29.30
8/8/07	14:37	79.04	8/8/07	15:30	92.00	8/8/07	16:23	71.43	8/8/07	17:16	37.08	8/8/07	18:09	29.23
8/8/07	14:38	79.57	8/8/07	15:31	92.00	8/8/07	16:24	70.24	8/8/07	17:17	36.78	8/8/07	18:10	29.16
8/8/07	14:39	80.10	8/8/07	15:32	92.00	8/8/07	16:25	69.19	8/8/07	17:18	36.52	8/8/07	18:11	29.10

TABLE D6C.1-7. TRANSDUCER DATA FOR PUMPING WELL BR-G, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/8/07	18:12	29.03												
8/8/07	18:13	29.00												
8/8/07	18:14	28.93												
8/8/07	18:15	28.90												
8/8/07	18:16	28.83												
8/8/07	18:17	28.77												
8/8/07	18:18	28.77												
8/8/07	18:19	28.70												
8/8/07	18:20	28.67												

TABLE D6C.1-8. AQUIFER-TEST DATA FOR PUMPING WELL OW43756.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
06/21/07	13:03:00	-5	–	–	140.97	0.00	–	–	–	–
	13:08:00	PUMP ON								
	13:09:00	1	–	–	–	–	3.80	–	–	–
	13:12:00	4	–	–	165.83	24.86	–	–	–	–
	13:15:00	7	–	–	175.07	34.10	–	–	–	–
	13:17:00	9	–	–	–	–	3.60	–	–	–
	13:19:00	11	–	–	184.22	43.25	–	–	–	–
	13:24:00	16	–	–	192.77	51.80	–	–	–	–
	13:27:00	OFF TO LOWER PUMP								
	13:32:00	PUMP ON								
	13:45:00	37	–	–	198.19	57.22	–	–	–	–
	13:47:00	39	–	–	–	–	3.20	–	–	–
	13:49:00	41	–	–	201.58	60.61	–	–	–	–
	13:59:00	51	–	–	206.33	65.36	–	–	–	–
	14:05:00	57	–	–	207.64	66.67	–	–	–	–
	14:14:00	66	–	–	206.74	65.77	–	–	–	–
	14:15:00	67	–	–	–	–	3.12	–	–	–
	14:18:00	70	–	–	211.86	70.89	–	–	–	–
	14:26:00	78	–	–	213.78	72.81	–	–	–	–
	14:28:00	80	–	–	–	–	3.10	–	–	–
	14:35:00	87	–	–	215.75	74.78	–	–	–	–
	14:40:00	92	–	–	216.63	75.66	3.10	–	–	–
	14:47:00	99	–	–	217.94	76.97	–	–	–	–
	14:55:00	107	–	–	219.08	78.11	–	–	–	–
	15:01:00	113	–	–	220.40	79.43	–	–	–	–
	15:08:00	120	–	–	221.86	80.89	–	–	–	–
	15:10:00	122	–	–	–	–	3.10	15.1	1330	7.01
	15:16:00	128	–	–	–	–	–	15	1310	7.03
	15:18:00	130	–	–	223.59	82.62	–	–	–	–
	15:20:00	132	–	–	–	–	–	15	1310	7.08
	15:26:00	138	–	–	224.77	83.80	3.10	–	–	–
	15:33:00	145	–	–	225.34	84.37	–	–	–	–
	15:35:00	147	–	–	–	–	–	15	1310	7.08
	15:35:00	SAMPLE TAKEN								

TABLE D6C.1-9. AQUIFER-TEST DATA FOR PUMPING WELL BR-F.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
10/24/79	12:00:00	-10	–	–	68.67	0.00	–	–	–	–
	12:10:00	PUMP ON								
	12:13:00	3	–	–	75.65	6.98	–	–	–	–
	12:19:00	9	–	–	–	–	0.74	10.9	1500	–
	12:32:00	22	–	–	81.36	12.69	–	–	–	–
	12:37:00	27	–	–	–	–	0.47	10.5	11300	–
	12:40:00	30	–	–	83.31	14.64	–	–	–	–
	12:52:00	42	–	–	85.76	17.09	–	–	–	–
	12:59:00	49	–	–	–	–	0.36	11	7600	–
	13:04:00	54	–	–	87.71	19.04	–	–	–	–
	13:20:00	70	–	–	–	–	0.33	12	6220	–
	13:39:00	89	–	–	–	–	0.24	–	–	–
	13:42:00	92	–	–	92.23	23.56	–	–	–	–
	13:45:00	95	–	–	–	–	0.24	–	–	–
	13:58:00	108	–	–	–	–	0.77	13	1770	–
	14:00:00	110	–	–	98.86	30.19	–	–	–	–
	14:10:00	120	–	–	–	–	0.60	14	1260	–
	14:17:00	127	–	–	105.27	36.60	–	–	–	–
	14:26:00	136	–	–	–	–	0.53	15	1720	–
	14:32:00	142	–	–	113.80	45.13	–	–	–	–
	14:34:00	144	–	–	–	–	0.43	–	–	–
	14:53:00	163	–	–	–	–	0.41	–	–	–
	14:45:00	155	–	–	120.85	52.18	0.49	–	–	–
	14:53:00	163	–	–	125.32	56.65	–	–	–	–
	14:54:00	PUMP OFF								
	14:55:00	165	1	165.0	115.76	47.09	–	–	–	–
	14:56:00	166	2	83.0	109.00	40.33	–	–	–	–
	14:57:00	167	3	55.7	104.18	35.51	–	–	–	–
	14:58:00	168	4	42.0	101.90	33.23	–	–	–	–
	14:59:00	169	5	33.8	101.42	32.75	–	–	–	–
	15:00:00	170	6	28.3	101.34	32.67	–	–	–	–
	15:02:00	172	8	21.5	101.11	32.44	–	–	–	–
	15:05:00	175	11	15.9	100.88	32.21	–	–	–	–
	15:10:00	180	16	11.3	100.43	31.76	–	–	–	–
	15:16:00	186	22	8.5	99.89	31.22	–	–	–	–
	15:20:00	190	26	7.3	99.60	30.93	–	–	–	–
	15:38:00	208	44	4.7	101.08	32.41	–	–	–	–
	16:00:00	230	66	3.5	99.56	30.89	–	–	–	–
	16:16:00	246	82	3.0	98.89	30.22	–	–	–	–
	16:30:00	260	96	2.7	98.28	29.61	–	–	–	–
	16:47:00	277	113	2.5	97.61	28.94	–	–	–	–
	17:00:00	290	126	2.3	97.11	28.44	–	–	–	–
	17:10:00	300	136	2.2	96.76	28.09	–	–	–	–

TABLE D6C.1-10. AQUIFER-TEST DATA FOR PUMPING WELL BR-F, 2ND TEST.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
06/15/07	8:03:00	-8	--	--	69.50	0.00	--	--	--	--
	8:11:00	PUMP ON								
	8:17:00	6	--	--	--	--	0.11	--	--	--
	8:20:00	9	--	--	72.51	3.01	--	--	--	--
	8:22:00	11	--	--	--	--	0.10	--	--	--
	8:26:00	15	--	--	72.82	3.32	--	--	--	--
	8:29:00	18	--	--	--	--	0.10	--	--	--
	8:32:00	21	--	--	--	--	0.11	--	--	--
	8:33:00	22	--	--	73.14	3.64	--	--	--	--
	8:35:00	24	--	--	--	--	0.11	--	--	--
	8:38:00	27	--	--	--	--	0.11	--	--	--
	8:39:00	28	--	--	--	--	0.10	--	--	--
	8:41:00	30	--	--	73.47	3.97	--	--	--	--
	8:44:00	33	--	--	--	--	0.10	--	--	--
	8:45:00	34	--	--	73.67	4.17	--	--	--	--
	8:48:00	37	--	--	--	--	0.11	--	--	--
	8:50:00	39	--	--	73.92	4.42	--	--	--	--
	8:51:00	40	--	--	--	--	0.11	--	--	--
	8:53:00	42	--	--	74.05	4.55	--	--	--	--
	8:56:00	45	--	--	74.27	4.77	--	--	--	--
	9:00:00	49	--	--	74.49	4.99	--	--	--	--
	9:02:00	51	--	--	--	--	0.10	--	--	--
	9:06:00	55	--	--	74.81	5.31	--	--	--	--
	9:10:00	59	--	--	--	--	0.10	--	--	--
	9:12:00	61	--	--	75.07	5.57	--	--	--	--
	9:20:00	69	--	--	--	--	0.10	--	--	--
	9:33:00	82	--	--	--	--	0.10	--	--	--
	9:34:00	83	--	--	76.19	6.69	--	--	--	--
	10:00:00	109	--	--	--	--	0.10	--	--	--
	10:01:00	110	--	--	77.75	8.25	--	--	--	--
	10:16:00	125	--	--	--	--	0.10	--	--	--
	10:17:00	126	--	--	78.53	9.03	--	--	--	--
	10:20:00	PUMP OFF								
	10:21:00	130	1	130.0	76.68	7.18	--	--	--	--
	10:24:00	133	4	33.2	76.46	6.96	--	--	--	--
	10:27:00	136	7	19.4	76.44	6.94	--	--	--	--
	10:32:00	141	12	11.8	76.41	6.91	--	--	--	--

TABLE D6C.1-11. TRANSDUCER DATA FOR PUMPING WELL BR-F.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
6/15/07	8:09	69.61	6/15/07	9:02	74.39	6/15/07	9:55	77.26						
6/15/07	8:10	69.61	6/15/07	9:03	74.52	6/15/07	9:56	77.32						
6/15/07	8:11	70.04	6/15/07	9:04	74.59	6/15/07	9:57	77.39						
6/15/07	8:12	72.25	6/15/07	9:05	74.69	6/15/07	9:58	77.52						
6/15/07	8:13	72.38	6/15/07	9:06	74.69	6/15/07	9:59	77.59						
6/15/07	8:14	72.18	6/15/07	9:07	74.79	6/15/07	10:00	77.62						
6/15/07	8:15	72.28	6/15/07	9:08	74.82	6/15/07	10:01	77.52						
6/15/07	8:16	72.18	6/15/07	9:09	74.82	6/15/07	10:02	77.72						
6/15/07	8:17	72.54	6/15/07	9:10	74.85	6/15/07	10:03	77.75						
6/15/07	8:18	72.38	6/15/07	9:11	74.95	6/15/07	10:04	77.72						
6/15/07	8:19	72.51	6/15/07	9:12	74.95	6/15/07	10:05	77.82						
6/15/07	8:20	72.51	6/15/07	9:13	75.08	6/15/07	10:06	77.82						
6/15/07	8:21	72.48	6/15/07	9:14	75.08	6/15/07	10:07	77.85						
6/15/07	8:22	72.58	6/15/07	9:15	75.18	6/15/07	10:08	77.88						
6/15/07	8:23	72.77	6/15/07	9:16	75.18	6/15/07	10:09	78.02						
6/15/07	8:24	72.74	6/15/07	9:17	75.18	6/15/07	10:10	78.02						
6/15/07	8:25	72.81	6/15/07	9:18	75.21	6/15/07	10:11	78.08						
6/15/07	8:26	72.74	6/15/07	9:19	75.35	6/15/07	10:12	78.18						
6/15/07	8:27	72.87	6/15/07	9:20	75.41	6/15/07	10:13	78.15						
6/15/07	8:28	72.77	6/15/07	9:21	75.41	6/15/07	10:14	78.21						
6/15/07	8:29	72.94	6/15/07	9:22	75.48	6/15/07	10:15	78.21						
6/15/07	8:30	73.00	6/15/07	9:23	75.54	6/15/07	10:16	78.35						
6/15/07	8:31	73.04	6/15/07	9:24	75.54	6/15/07	10:17	78.41						
6/15/07	8:32	73.00	6/15/07	9:25	75.61	6/15/07	10:18	78.44						
6/15/07	8:33	73.07	6/15/07	9:26	75.64	6/15/07	10:19	78.44						
6/15/07	8:34	73.14	6/15/07	9:27	75.71	6/15/07	10:20	78.31						
6/15/07	8:35	73.14	6/15/07	9:28	75.77	6/15/07	10:21	76.53						
6/15/07	8:36	73.24	6/15/07	9:29	75.77	6/15/07	10:22	76.40						
6/15/07	8:37	73.27	6/15/07	9:30	75.77	6/15/07	10:23	76.37						
6/15/07	8:38	73.33	6/15/07	9:31	75.94	6/15/07	10:24	76.37						
6/15/07	8:39	73.47	6/15/07	9:32	76.00	6/15/07	10:25	76.37						
6/15/07	8:40	73.47	6/15/07	9:33	76.00	6/15/07	10:26	76.33						
6/15/07	8:41	73.40	6/15/07	9:34	76.00	6/15/07	10:27	76.33						
6/15/07	8:42	73.43	6/15/07	9:35	76.17	6/15/07	10:28	76.30						
6/15/07	8:43	73.50	6/15/07	9:36	76.17	6/15/07	10:29	76.30						
6/15/07	8:44	73.53	6/15/07	9:37	76.30	6/15/07	10:30	76.30						
6/15/07	8:45	73.63	6/15/07	9:38	76.30	6/15/07	10:31	76.30						
6/15/07	8:46	73.70	6/15/07	9:39	76.40									
6/15/07	8:47	73.66	6/15/07	9:40	76.37									
6/15/07	8:48	73.76	6/15/07	9:41	76.43									
6/15/07	8:49	73.73	6/15/07	9:42	76.50									
6/15/07	8:50	73.80	6/15/07	9:43	76.60									
6/15/07	8:51	73.86	6/15/07	9:44	76.60									
6/15/07	8:52	73.99	6/15/07	9:45	76.66									
6/15/07	8:53	74.09	6/15/07	9:46	76.73									
6/15/07	8:54	74.16	6/15/07	9:47	76.76									
6/15/07	8:55	74.22	6/15/07	9:48	76.83									
6/15/07	8:56	74.13	6/15/07	9:49	76.86									
6/15/07	8:57	74.22	6/15/07	9:50	76.96									
6/15/07	8:58	74.26	6/15/07	9:51	77.03									
6/15/07	8:59	74.36	6/15/07	9:52	76.99									
6/15/07	9:00	74.39	6/15/07	9:53	77.09									
6/15/07	9:01	74.42	6/15/07	9:54	77.19									

TABLE D6C.1-12. AQUIFER-TEST DATA FOR PUMPING WELL BR-H.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
10/12/79	9:20:00	-6	–	–	86.07	0.00	–	–	–	–
	9:26:00	PUMP ON								
	9:27:00	1	–	–	–	–	10.70	–	–	–
	9:30:00	4	–	–	113.37	27.30	–	–	–	–
	9:36:00	10	–	–	–	–	1.18	10.6	1140	–
	9:38:00	12	–	–	116.05	29.98	–	–	–	–
	9:44:00	18	–	–	–	–	1.11	–	–	–
	9:46:00	20	–	–	120.38	34.31	–	–	–	–
	9:56:00	30	–	–	124.40	38.33	1.00	11.1	910	–
	10:11:00	45	–	–	129.91	43.84	1.00	12.2	860	–
	10:26:00	60	–	–	134.61	48.54	1.00	12.8	790	–
	10:46:00	80	–	–	134.63	48.56	1.00	13	800	–
	11:06:00	100	–	–	139.45	53.38	0.95	13.2	840	–
	11:26:00	120	–	–	146.20	60.13	0.95	13.5	890	–
	11:36:00	130	–	–	148.40	62.33	1.00	13.4	920	–
	11:56:00	150	–	–	155.11	69.04	0.88	13.2	900	–
	12:26:00	180	–	–	164.45	78.38	0.77	13.4	910	–
	12:31:00	PUMP OFF								
	12:33:00	187	2	93.5	156.83	70.76	–	–	–	–
	12:35:00	189	4	47.3	152.09	66.02	–	–	–	–
	12:37:00	191	6	31.8	150.65	64.58	–	–	–	–
	12:39:00	193	8	24.1	150.28	64.21	–	–	–	–
	12:41:00	195	10	19.5	150.10	64.03	–	–	–	–
	12:46:00	200	15	13.3	149.71	63.64	–	–	–	–
	12:51:00	205	20	10.3	149.07	63.00	–	–	–	–
	13:01:00	215	30	7.2	147.98	61.91	–	–	–	–
	14:00:00	274	89	3.1	143.49	57.42	–	–	–	–
	14:31:00	305	120	2.5	140.29	54.22	–	–	–	–
	15:47:00	381	196	1.9	133.53	47.46	–	–	–	–

TABLE D6C.1-13. AQUIFER-TEST DATA FOR PUMPING WELL BR-H, 2ND TEST.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
05/24/07	12:35:00	-7	–	–	96.17	0.00	–	–	–	–
	12:42:00	PUMP ON								
	12:45:00	3	–	–	100.86	4.69	–	–	–	–
	12:47:00	5	–	–	101.05	4.88	–	–	–	–
	12:49:00	7	–	–	101.66	5.49	–	–	–	–
	12:51:00	9	–	–	102.61	6.44	–	–	–	–
	12:52:00	10	–	–	–	–	0.50	–	–	–
	12:55:00	13	–	–	103.90	7.73	–	–	–	–
	12:56:00	14	–	–	–	–	0.50	–	–	–
	12:58:00	16	–	–	104.88	8.71	–	–	–	–
	13:01:00	19	–	–	105.75	9.58	–	–	–	–
	13:04:00	22	–	–	106.72	10.55	0.50	–	–	–
	13:10:00	28	–	–	108.42	12.25	–	–	–	–
	13:15:00	33	–	–	109.59	13.42	0.50	–	–	–
	13:20:00	38	–	–	110.82	14.65	–	–	–	–
	13:30:00	48	–	–	112.82	16.65	0.50	–	–	–
	13:40:00	58	–	–	114.56	18.39	–	–	–	–
	13:50:00	68	–	–	116.60	20.43	0.40	–	–	–
	14:00:00	78	–	–	118.33	22.16	0.50	–	–	–
	14:15:00	93	–	–	120.65	24.48	0.40	–	–	–
	14:30:00	108	–	–	123.48	27.31	0.50	–	–	–
	14:45:00	123	–	–	125.88	29.71	0.50	–	–	–
	14:51:00	129	–	–	–	–	0.40	–	–	–
	14:54:00	132	–	–	–	–	0.50	–	–	–
	15:00:00	138	–	–	128.35	32.18	0.50	–	–	–
	15:15:00	153	–	–	–	–	0.50	–	–	–
	15:25:00	PUMP OFF								
	15:27:00	165	2	82.5	130.15	33.98	–	–	–	–
	15:28:00	166	3	55.3	130.17	34.00	–	–	–	–
	15:29:00	167	4	41.7	127.84	31.67	–	–	–	–
	15:30:00	168	5	33.6	127.56	31.39	–	–	–	–
	15:31:00	169	6	28.2	126.59	30.42	–	–	–	–
	15:32:00	170	7	24.3	126.44	30.27	–	–	–	–
	15:33:00	171	8	21.4	126.29	30.12	–	–	–	–
	15:34:00	172	9	19.1	126.14	29.97	–	–	–	–
	15:35:00	173	10	17.3	125.97	29.80	–	–	–	–
	15:37:00	175	12	14.6	125.66	29.49	–	–	–	–
	15:40:00	178	15	11.9	125.26	29.09	–	–	–	–
	15:45:00	183	20	9.1	124.65	28.48	–	–	–	–
	15:51:00	189	26	7.3	123.83	27.66	–	–	–	–
	18:07:00	325	162	2.0	112.13	15.96	–	–	–	–
	18:15:00	333	170	2.0	111.65	15.48	–	–	–	–
	18:24:00	342	179	1.9	111.10	14.93	–	–	–	–

TABLE D6C.1-14. AQUIFER-TEST DATA FOR PUMPING WELL URZHC-2.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
06/28/07	10:09:00	-236	--	--	343.12	0.00	--	--	--	--
	14:05:00	PUMP ON								
	14:08:00	3	--	--	--	--	0.30	--	--	--
	14:09:00	4	--	--	363.43	20.31	--	--	--	--
	14:11:00	6	--	--	--	--	0.30	--	--	--
	14:12:00	7	--	--	364.17	21.05	--	--	--	--
	14:13:00	8	--	--	--	--	0.30	--	--	--
	14:14:00	9	--	--	--	--	0.30	--	--	--
	14:16:00	11	--	--	365.17	22.05	--	--	--	--
	14:17:00	12	--	--	--	--	0.21	--	--	--
	14:19:00	14	--	--	--	--	0.30	--	--	--
	14:20:00	15	--	--	366.42	23.30	0.30	--	--	--
	14:24:00	19	--	--	367.43	24.31	0.30	--	--	--
	14:27:00	22	--	--	368.20	25.08	0.30	--	--	--
	14:30:00	25	--	--	368.90	25.78	0.30	--	--	--
	14:33:00	28	--	--	369.80	26.68	0.30	--	--	--
	14:37:00	32	--	--	370.71	27.59	0.30	--	--	--
	14:44:00	39	--	--	372.40	29.28	0.30	--	--	--
	14:50:00	45	--	--	373.96	30.84	0.30	--	--	--
	14:55:00	50	--	--	--	--	0.30	--	--	--
	15:00:00	55	--	--	376.46	33.34	--	--	--	--
	15:08:00	63	--	--	377.99	34.87	0.30	--	--	--
	15:16:00	71	--	--	379.70	36.58	0.30	--	--	--
	15:29:00	84	--	--	381.75	38.63	0.30	--	--	--
	15:57:00	112	--	--	384.01	40.89	0.30	--	--	--
	16:30:00	145	--	--	387.28	44.16	0.30	--	--	--
	17:00:00	175	--	--	391.31	48.19	0.30	--	--	--
	17:02:00	177	--	--	--	--	--	17.7	722	10.54
	17:07:00	182	--	--	--	--	--	18	730	10.55
	17:11:00	186	--	--	393.24	50.12	--	--	--	--
	17:13:00	PUMP OFF								
	17:17:00	192	4	48.0	374.23	31.11	--	--	--	--

TABLE D6C.1-15. AQUIFER-TEST DATA FOR PUMPING WELL BR-Q.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
08/08/07	11:46:00	-2	--	--	292.11	0.00	--	--	--	--
	11:48:00	PUMP ON								
	11:54:00	6	--	--	309.84	17.73	--	--	--	--
	12:00:00	12	--	--	311.86	19.75	1.90	--	--	--
	12:03:00	15	--	--	313.15	21.04	--	--	--	--
	12:06:00	18	--	--	314.48	22.37	--	--	--	--
	12:09:00	21	--	--	315.74	23.63	--	--	--	--
	12:12:00	24	--	--	317.31	25.20	2.30	--	--	--
	12:15:00	27	--	--	317.87	25.76	--	--	--	--
	12:18:00	30	--	--	318.83	26.72	2.20	--	--	--
	12:23:00	35	--	--	319.35	27.24	--	--	--	--
	12:28:00	40	--	--	321.59	29.48	--	--	--	--
	12:33:00	45	--	--	320.53	28.42	2.00	--	--	--
	12:38:00	50	--	--	320.44	28.33	2.20	--	--	--
	12:43:00	55	--	--	320.73	28.62	2.20	--	--	--
	12:48:00	60	--	--	320.71	28.60	2.20	--	--	--
	12:53:00	65	--	--	--	--	2.30	--	--	--
	12:58:00	70	--	--	321.64	29.53	2.20	--	--	--
	13:08:00	80	--	--	321.49	29.38	2.20	--	--	--
	13:10:00	82	--	--	--	--	2.50	--	--	--
	13:24:00	96	--	--	--	--	2.30	--	--	--
	14:39:00	GENERATOR OFF								
	14:49:00	GENERATOR ON								
	14:58:00	190	--	--	316.91	24.80	2.20	--	--	--
	15:10:00	202	--	--	318.15	26.04	2.20	--	--	--
	15:25:00	217	--	--	318.27	26.16	2.20	--	--	--
	15:30:00	222	--	--	--	--	--	17.8	1150	7.56
	16:02:00	254	--	--	--	--	--	18.2	1184	6.88
	16:04:00	256	--	--	--	--	--	17.7	1171	7.14
	16:08:00	SAMPLE TAKEN								
	16:13:00	PUMP OFF								
	16:17:00	269	4	67.2	298.71	6.60	--	--	--	--
	16:53:00	305	40	7.6	294.37	2.26	--	--	--	--
	18:24:00	396	131	3.0	293.41	1.30	--	--	--	--

TABLE D6C.1-16. TRANSDUCER DATA FOR PUMPING WELL BR-Q.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/8/07	11:37	290.47	8/8/07	12:30	320.97	8/8/07	13:23	320.25	8/8/07	14:16	320.08	8/8/07	15:09	318.03
8/8/07	11:38	290.42	8/8/07	12:31	320.58	8/8/07	13:24	320.53	8/8/07	14:17	320.08	8/8/07	15:10	318.14
8/8/07	11:39	292.36	8/8/07	12:32	320.53	8/8/07	13:25	320.75	8/8/07	14:18	320.08	8/8/07	15:11	318.19
8/8/07	11:40	292.36	8/8/07	12:33	320.42	8/8/07	13:26	320.97	8/8/07	14:19	320.08	8/8/07	15:12	318.19
8/8/07	11:41	292.42	8/8/07	12:34	320.30	8/8/07	13:27	321.14	8/8/07	14:20	320.03	8/8/07	15:13	318.14
8/8/07	11:42	292.42	8/8/07	12:35	320.30	8/8/07	13:28	321.30	8/8/07	14:21	320.03	8/8/07	15:14	318.19
8/8/07	11:43	292.42	8/8/07	12:36	320.19	8/8/07	13:29	321.42	8/8/07	14:22	320.03	8/8/07	15:15	318.19
8/8/07	11:44	292.42	8/8/07	12:37	320.19	8/8/07	13:30	321.47	8/8/07	14:23	320.03	8/8/07	15:16	318.19
8/8/07	11:45	292.42	8/8/07	12:38	320.36	8/8/07	13:31	321.53	8/8/07	14:24	320.03	8/8/07	15:17	318.25
8/8/07	11:46	292.42	8/8/07	12:39	320.36	8/8/07	13:32	321.53	8/8/07	14:25	320.03	8/8/07	15:18	318.19
8/8/07	11:47	292.42	8/8/07	12:40	320.36	8/8/07	13:33	321.53	8/8/07	14:26	320.03	8/8/07	15:19	318.19
8/8/07	11:48	299.69	8/8/07	12:41	320.64	8/8/07	13:34	321.64	8/8/07	14:27	319.97	8/8/07	15:20	318.25
8/8/07	11:49	312.53	8/8/07	12:42	320.69	8/8/07	13:35	321.64	8/8/07	14:28	319.92	8/8/07	15:21	318.19
8/8/07	11:50	311.97	8/8/07	12:43	320.64	8/8/07	13:36	321.58	8/8/07	14:29	319.86	8/8/07	15:22	318.25
8/8/07	11:51	311.64	8/8/07	12:44	320.58	8/8/07	13:37	321.64	8/8/07	14:30	319.86	8/8/07	15:23	318.19
8/8/07	11:52	311.03	8/8/07	12:45	320.58	8/8/07	13:38	321.64	8/8/07	14:31	319.86	8/8/07	15:24	318.25
8/8/07	11:53	310.42	8/8/07	12:46	320.58	8/8/07	13:39	321.69	8/8/07	14:32	319.86	8/8/07	15:25	318.25
8/8/07	11:54	309.80	8/8/07	12:47	320.47	8/8/07	13:40	321.69	8/8/07	14:33	319.86	8/8/07	15:26	318.25
8/8/07	11:55	309.42	8/8/07	12:48	320.58	8/8/07	13:41	321.75	8/8/07	14:34	319.80	8/8/07	15:27	318.25
8/8/07	11:56	309.47	8/8/07	12:49	320.69	8/8/07	13:42	321.64	8/8/07	14:35	319.75	8/8/07	15:28	318.25
8/8/07	11:57	310.08	8/8/07	12:50	320.69	8/8/07	13:43	321.64	8/8/07	14:36	319.75	8/8/07	15:29	318.25
8/8/07	11:58	310.58	8/8/07	12:51	320.75	8/8/07	13:44	321.64	8/8/07	14:37	319.75	8/8/07	15:30	318.25
8/8/07	11:59	311.30	8/8/07	12:52	320.75	8/8/07	13:45	321.64	8/8/07	14:38	319.75	8/8/07	15:31	318.25
8/8/07	12:00	311.86	8/8/07	12:53	320.86	8/8/07	13:46	321.69	8/8/07	14:39	317.19	8/8/07	15:32	318.25
8/8/07	12:01	312.19	8/8/07	12:54	321.08	8/8/07	13:47	321.58	8/8/07	14:40	304.47	8/8/07	15:33	318.25
8/8/07	12:02	312.30	8/8/07	12:55	321.19	8/8/07	13:48	321.64	8/8/07	14:41	298.19	8/8/07	15:34	318.30
8/8/07	12:03	313.14	8/8/07	12:56	321.42	8/8/07	13:49	321.64	8/8/07	14:42	297.08	8/8/07	15:35	318.30
8/8/07	12:04	313.64	8/8/07	12:57	321.47	8/8/07	13:50	321.64	8/8/07	14:43	296.97	8/8/07	15:36	318.19
8/8/07	12:05	314.19	8/8/07	12:58	321.53	8/8/07	13:51	321.69	8/8/07	14:44	296.86	8/8/07	15:37	318.25
8/8/07	12:06	314.47	8/8/07	12:59	321.58	8/8/07	13:52	321.69	8/8/07	14:45	296.69	8/8/07	15:38	318.25
8/8/07	12:07	314.53	8/8/07	13:00	321.64	8/8/07	13:53	321.69	8/8/07	14:46	296.58	8/8/07	15:39	318.30
8/8/07	12:08	315.42	8/8/07	13:01	321.64	8/8/07	13:54	321.64	8/8/07	14:47	296.47	8/8/07	15:40	318.36
8/8/07	12:09	315.69	8/8/07	13:02	321.75	8/8/07	13:55	321.64	8/8/07	14:48	305.92	8/8/07	15:41	318.36
8/8/07	12:10	315.75	8/8/07	13:03	321.69	8/8/07	13:56	321.58	8/8/07	14:49	315.58	8/8/07	15:42	318.42
8/8/07	12:11	316.25	8/8/07	13:04	321.64	8/8/07	13:57	321.53	8/8/07	14:50	316.14	8/8/07	15:43	318.30
8/8/07	12:12	317.25	8/8/07	13:05	321.53	8/8/07	13:58	321.58	8/8/07	14:51	316.25	8/8/07	15:44	318.36
8/8/07	12:13	317.58	8/8/07	13:06	321.47	8/8/07	13:59	321.53	8/8/07	14:52	316.25	8/8/07	15:45	318.30
8/8/07	12:14	317.86	8/8/07	13:07	321.47	8/8/07	14:00	321.36	8/8/07	14:53	316.19	8/8/07	15:46	318.30
8/8/07	12:15	317.75	8/8/07	13:08	321.36	8/8/07	14:01	321.25	8/8/07	14:54	316.14	8/8/07	15:47	318.30
8/8/07	12:16	318.08	8/8/07	13:09	321.36	8/8/07	14:02	321.14	8/8/07	14:55	316.14	8/8/07	15:48	318.36
8/8/07	12:17	318.58	8/8/07	13:10	321.80	8/8/07	14:03	320.97	8/8/07	14:56	316.25	8/8/07	15:49	318.42
8/8/07	12:18	318.75	8/8/07	13:11	322.14	8/8/07	14:04	320.86	8/8/07	14:57	316.64	8/8/07	15:50	318.36
8/8/07	12:19	318.75	8/8/07	13:12	322.47	8/8/07	14:05	320.80	8/8/07	14:58	316.86	8/8/07	15:51	318.36
8/8/07	12:20	318.86	8/8/07	13:13	322.42	8/8/07	14:06	320.75	8/8/07	14:59	317.08	8/8/07	15:52	318.36
8/8/07	12:21	318.80	8/8/07	13:14	322.08	8/8/07	14:07	320.58	8/8/07	15:00	317.19	8/8/07	15:53	318.42
8/8/07	12:22	318.92	8/8/07	13:15	321.75	8/8/07	14:08	320.53	8/8/07	15:01	317.42	8/8/07	15:54	318.47
8/8/07	12:23	319.30	8/8/07	13:16	321.30	8/8/07	14:09	320.42	8/8/07	15:02	317.47	8/8/07	15:55	318.47
8/8/07	12:24	319.53	8/8/07	13:17	320.75	8/8/07	14:10	320.30	8/8/07	15:03	317.58	8/8/07	15:56	318.47
8/8/07	12:25	319.64	8/8/07	13:18	320.36	8/8/07	14:11	320.30	8/8/07	15:04	317.64	8/8/07	15:57	318.47
8/8/07	12:26	320.86	8/8/07	13:19	320.08	8/8/07	14:12	320.19	8/8/07	15:05	317.75	8/8/07	15:58	318.42
8/8/07	12:27	321.58	8/8/07	13:20	319.92	8/8/07	14:13	320.14	8/8/07	15:06	317.80	8/8/07	15:59	318.42
8/8/07	12:28	321.53	8/8/07	13:21	319.69	8/8/07	14:14	320.08	8/8/07	15:07	317.86	8/8/07	16:00	318.42
8/8/07	12:29	321.25	8/8/07	13:22	319.92	8/8/07	14:15	320.08	8/8/07	15:08	317.97	8/8/07	16:01	318.42

TABLE D6C.1-16. TRANSDUCER DATA FOR PUMPING WELL BR-Q, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/8/07	16:02	318.75	8/8/07	16:55	294.53									
8/8/07	16:03	319.19	8/8/07	16:56	294.47									
8/8/07	16:04	319.58	8/8/07	16:57	294.47									
8/8/07	16:05	319.92	8/8/07	16:58	294.42									
8/8/07	16:06	320.19	8/8/07	16:59	294.42									
8/8/07	16:07	320.75	8/8/07	17:00	294.42									
8/8/07	16:08	321.47												
8/8/07	16:09	322.25												
8/8/07	16:10	322.47												
8/8/07	16:11	320.75												
8/8/07	16:12	320.97												
8/8/07	16:13	322.97												
8/8/07	16:14	310.25												
8/8/07	16:15	301.75												
8/8/07	16:16	299.30												
8/8/07	16:17	298.86												
8/8/07	16:18	298.53												
8/8/07	16:19	298.25												
8/8/07	16:20	297.97												
8/8/07	16:21	297.69												
8/8/07	16:22	297.47												
8/8/07	16:23	297.19												
8/8/07	16:24	297.03												
8/8/07	16:25	296.80												
8/8/07	16:26	296.64												
8/8/07	16:27	296.47												
8/8/07	16:28	296.30												
8/8/07	16:29	296.19												
8/8/07	16:30	296.03												
8/8/07	16:31	295.92												
8/8/07	16:32	295.80												
8/8/07	16:33	295.69												
8/8/07	16:34	295.58												
8/8/07	16:35	295.53												
8/8/07	16:36	295.42												
8/8/07	16:37	295.30												
8/8/07	16:38	295.25												
8/8/07	16:39	295.19												
8/8/07	16:40	295.14												
8/8/07	16:41	295.08												
8/8/07	16:42	295.03												
8/8/07	16:43	294.97												
8/8/07	16:44	294.92												
8/8/07	16:45	294.86												
8/8/07	16:46	294.86												
8/8/07	16:47	294.80												
8/8/07	16:48	294.75												
8/8/07	16:49	294.69												
8/8/07	16:50	294.69												
8/8/07	16:51	294.64												
8/8/07	16:52	294.58												
8/8/07	16:53	294.58												
8/8/07	16:54	294.53												

TABLE D6C.1-17. AQUIFER-TEST DATA FOR PUMPING WELL NBHW-13.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
05/16/07	10:46:00	-10	--	--	131.46	0.00	--	--	--	--
	10:56:00	PUMP ON								
	10:58:00	2	--	--	--	--	6.00	--	--	--
	11:00:00	4	--	--	151.73	20.27	--	--	--	--
	11:02:00	6	--	--	155.39	23.93	--	--	--	--
	11:04:00	8	--	--	157.80	26.34	--	--	--	--
	11:06:00	10	--	--	159.38	27.92	--	--	--	--
	11:08:00	12	--	--	160.47	29.01	--	--	--	--
	11:10:00	14	--	--	161.24	29.78	--	--	--	--
	11:14:00	18	--	--	162.19	30.73	--	--	--	--
	11:16:00	20	--	--	162.56	31.10	--	--	--	--
	11:19:00	23	--	--	162.91	31.45	--	--	--	--
	11:22:00	26	--	--	163.22	31.76	--	--	--	--
	11:24:00	28	--	--	--	--	6.00	--	--	--
	11:26:00	30	--	--	163.51	32.05	--	--	--	--
	11:30:00	34	--	--	163.74	32.28	--	--	--	--
	11:35:00	39	--	--	163.92	32.46	--	--	--	--
	11:38:00	42	--	--	164.08	32.62	--	--	--	--
	11:53:00	TRANSDUCER LOWERED 1.5'								
	11:54:00	58	--	--	164.50	33.04	--	--	--	--
	13:03:00	127	--	--	165.13	33.67	--	--	--	--
	13:05:00	129	--	--	--	--	5.80	--	--	--
	13:07:00	131	--	--	--	--	--	--	1157	7.29
	13:12:00	136	--	--	--	--	--	--	1162	7.56
	13:15:00	139	--	--	--	--	--	--	1167	7.54
	13:20:00	SAMPLE TAKEN								
	13:24:00	PUMP OFF								
	13:26:00	150	2	75.0	148.17	16.71	--	--	--	--
	15:08:00	252	104	2.4	132.36	0.90	--	--	--	--

TABLE D6C.1-18. TRANSDUCER DATA FOR PUMPING WELL NBHW-13.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
5/16/07	10:51	103.65	5/16/07	11:44	135.81	5/16/07	12:40	136.61	5/16/07	13:33	110.40	5/16/07	14:26	104.88
5/16/07	10:52	103.65	5/16/07	11:45	135.85	5/16/07	12:41	136.62	5/16/07	13:34	109.76	5/16/07	14:27	104.87
5/16/07	10:53	103.65	5/16/07	11:46	135.86	5/16/07	12:42	136.61	5/16/07	13:35	109.22	5/16/07	14:28	104.85
5/16/07	10:54	103.65	5/16/07	11:47	135.90	5/16/07	12:43	136.61	5/16/07	13:36	108.77	5/16/07	14:29	104.83
5/16/07	10:55	103.65	5/16/07	11:48	135.91	5/16/07	12:44	136.57	5/16/07	13:37	108.38	5/16/07	14:30	104.83
5/16/07	10:56	105.04	5/16/07	11:49	135.93	5/16/07	12:45	136.57	5/16/07	13:38	108.05	5/16/07	14:31	104.81
5/16/07	10:57	114.23	5/16/07	11:50	135.98	5/16/07	12:46	136.56	5/16/07	13:39	107.75	5/16/07	14:32	104.80
5/16/07	10:58	118.01	5/16/07	11:54	136.04	5/16/07	12:47	136.61	5/16/07	13:40	107.50	5/16/07	14:33	104.78
5/16/07	10:59	121.10	5/16/07	11:55	136.06	5/16/07	12:48	136.59	5/16/07	13:41	107.26	5/16/07	14:34	104.76
5/16/07	11:00	123.56	5/16/07	11:56	136.09	5/16/07	12:49	136.59	5/16/07	13:42	107.08	5/16/07	14:35	104.76
5/16/07	11:01	125.52	5/16/07	11:57	136.12	5/16/07	12:50	136.61	5/16/07	13:43	106.89	5/16/07	14:36	104.76
5/16/07	11:02	127.10	5/16/07	11:58	136.16	5/16/07	12:51	136.62	5/16/07	13:44	106.74	5/16/07	14:37	104.75
5/16/07	11:03	128.40	5/16/07	11:59	136.17	5/16/07	12:52	136.61	5/16/07	13:45	106.61	5/16/07	14:38	104.73
5/16/07	11:04	129.44	5/16/07	12:00	136.16	5/16/07	12:53	136.62	5/16/07	13:46	106.47	5/16/07	14:39	104.73
5/16/07	11:05	130.35	5/16/07	12:01	136.14	5/16/07	12:54	136.64	5/16/07	13:47	106.36	5/16/07	14:40	104.71
5/16/07	11:06	131.04	5/16/07	12:02	136.17	5/16/07	12:55	136.66	5/16/07	13:48	106.26	5/16/07	14:41	104.70
5/16/07	11:07	131.61	5/16/07	12:03	136.14	5/16/07	12:56	136.64	5/16/07	13:49	106.17	5/16/07	14:42	104.70
5/16/07	11:08	132.06	5/16/07	12:04	136.12	5/16/07	12:57	136.66	5/16/07	13:50	106.07	5/16/07	14:43	104.68
5/16/07	11:09	132.43	5/16/07	12:05	136.14	5/16/07	12:58	136.62	5/16/07	13:51	105.99	5/16/07	14:44	104.66
5/16/07	11:10	132.83	5/16/07	12:06	136.17	5/16/07	12:59	136.62	5/16/07	13:52	105.94	5/16/07	14:45	104.66
5/16/07	11:11	133.08	5/16/07	12:07	136.19	5/16/07	13:00	136.64	5/16/07	13:53	105.85	5/16/07	14:46	104.66
5/16/07	11:12	133.35	5/16/07	12:08	136.19	5/16/07	13:01	136.64	5/16/07	13:54	105.80	5/16/07	14:47	104.65
5/16/07	11:13	133.55	5/16/07	12:09	136.17	5/16/07	13:02	136.66	5/16/07	13:55	105.74	5/16/07	14:48	104.63
5/16/07	11:14	133.77	5/16/07	12:10	136.19	5/16/07	13:03	136.66	5/16/07	13:56	105.69	5/16/07	14:49	104.63
5/16/07	11:15	133.97	5/16/07	12:11	136.21	5/16/07	13:04	136.68	5/16/07	13:57	105.64	5/16/07	14:50	104.63
5/16/07	11:16	134.12	5/16/07	12:12	136.21	5/16/07	13:05	136.69	5/16/07	13:58	105.59	5/16/07	14:51	104.61
5/16/07	11:17	134.27	5/16/07	12:13	136.22	5/16/07	13:06	136.68	5/16/07	13:59	105.55	5/16/07	14:52	104.61
5/16/07	11:18	134.40	5/16/07	12:14	136.24	5/16/07	13:07	136.69	5/16/07	14:00	105.50	5/16/07	14:53	104.60
5/16/07	11:19	134.49	5/16/07	12:15	136.24	5/16/07	13:08	136.68	5/16/07	14:01	105.47	5/16/07	14:54	104.60
5/16/07	11:20	134.61	5/16/07	12:16	136.29	5/16/07	13:09	136.71	5/16/07	14:02	105.42	5/16/07	14:55	104.58
5/16/07	11:21	134.71	5/16/07	12:17	136.31	5/16/07	13:10	136.71	5/16/07	14:03	105.40	5/16/07	14:56	104.58
5/16/07	11:22	134.81	5/16/07	12:18	136.34	5/16/07	13:11	136.73	5/16/07	14:04	105.37	5/16/07	14:57	104.56
5/16/07	11:23	134.86	5/16/07	12:19	136.37	5/16/07	13:12	136.73	5/16/07	14:05	105.32	5/16/07	14:58	104.56
5/16/07	11:24	134.91	5/16/07	12:20	136.39	5/16/07	13:13	136.74	5/16/07	14:06	105.30	5/16/07	14:59	104.56
5/16/07	11:25	134.99	5/16/07	12:21	136.41	5/16/07	13:14	136.73	5/16/07	14:07	105.27	5/16/07	15:00	104.56
5/16/07	11:26	135.04	5/16/07	12:22	136.42	5/16/07	13:15	136.71	5/16/07	14:08	105.23	5/16/07	15:01	104.55
5/16/07	11:27	135.11	5/16/07	12:23	136.44	5/16/07	13:16	136.73	5/16/07	14:09	105.22	5/16/07	15:02	104.55
5/16/07	11:28	135.18	5/16/07	12:24	136.44	5/16/07	13:17	136.74	5/16/07	14:10	105.17	5/16/07	15:03	104.53
5/16/07	11:29	135.23	5/16/07	12:25	136.42	5/16/07	13:18	136.73	5/16/07	14:11	105.15	5/16/07	15:04	104.53
5/16/07	11:30	135.26	5/16/07	12:26	136.42	5/16/07	13:19	136.73	5/16/07	14:12	105.13	5/16/07	15:05	104.51
5/16/07	11:31	135.33	5/16/07	12:27	136.44	5/16/07	13:20	136.74	5/16/07	14:13	105.12	5/16/07	15:06	104.43
5/16/07	11:32	135.38	5/16/07	12:28	136.46	5/16/07	13:21	136.99	5/16/07	14:14	105.08	5/16/07	15:07	104.51
5/16/07	11:33	135.41	5/16/07	12:29	136.46	5/16/07	13:22	137.58	5/16/07	14:15	105.07	5/16/07	15:08	104.50
5/16/07	11:34	135.44	5/16/07	12:30	136.46	5/16/07	13:23	137.50	5/16/07	14:16	105.05	5/16/07	15:09	104.50
5/16/07	11:35	135.49	5/16/07	12:31	136.46	5/16/07	13:24	137.33	5/16/07	14:17	105.03	5/16/07	15:10	104.50
5/16/07	11:36	135.54	5/16/07	12:32	136.49	5/16/07	13:25	125.08	5/16/07	14:18	105.02	5/16/07	15:11	104.48
5/16/07	11:37	135.58	5/16/07	12:33	136.51	5/16/07	13:26	119.81	5/16/07	14:19	105.00	5/16/07	15:12	104.46
5/16/07	11:38	135.61	5/16/07	12:34	136.52	5/16/07	13:27	117.62	5/16/07	14:20	104.97	5/16/07	15:13	138.08
5/16/07	11:39	135.63	5/16/07	12:35	136.52	5/16/07	13:28	115.81	5/16/07	14:21	104.97	5/16/07	15:14	138.12
5/16/07	11:40	135.66	5/16/07	12:36	136.54	5/16/07	13:29	114.28	5/16/07	14:22	104.93			
5/16/07	11:41	135.71	5/16/07	12:37	136.54	5/16/07	13:30	113.04	5/16/07	14:23	104.93			
5/16/07	11:42	135.76	5/16/07	12:38	136.56	5/16/07	13:31	111.99	5/16/07	14:24	104.90			
5/16/07	11:43	135.80	5/16/07	12:39	136.57	5/16/07	13:32	111.12	5/16/07	14:25	104.90			

TABLE D6C.1-19. AQUIFER-TEST DATA FOR PUMPING WELL SS1-L.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
10/12/78	12:45:00	-10	--	--	139.30	0.00	--	--	--	--
	12:55:00	PUMP ON								
	12:56:00	1	--	--	158.90	19.60	--	--	--	--
	12:57:00	2	--	--	169.80	30.50	--	--	--	--
	12:58:00	3	--	--	175.20	35.90	--	--	--	--
	12:59:00	4	--	--	178.90	39.60	--	--	--	--
	13:00:00	5	--	--	181.50	42.20	--	--	--	--
	13:01:00	6	--	--	183.20	43.90	--	--	--	--
	13:02:00	7	--	--	184.30	45.00	--	--	--	--
	13:03:00	8	--	--	185.30	46.00	--	--	--	--
	13:04:00	9	--	--	186.10	46.80	--	--	--	--
	13:05:00	10	--	--	186.70	47.40	--	--	--	--
	13:07:00	12	--	--	187.50	48.20	--	--	--	--
	13:09:00	14	--	--	188.10	48.80	--	--	--	--
	13:11:00	16	--	--	188.70	49.40	--	--	--	--
	13:13:00	18	--	--	189.20	49.90	--	--	--	--
	13:15:00	20	--	--	189.60	50.30	--	--	--	--
	13:20:00	25	--	--	190.40	51.10	--	--	--	--
	13:25:00	30	--	--	191.10	51.80	--	--	--	--
	13:32:00	37	--	--	191.90	52.60	--	--	--	--
	13:35:00	40	--	--	192.30	53.00	--	--	--	--
	13:40:00	45	--	--	192.80	53.50	--	--	--	--
	13:45:00	50	--	--	193.20	53.90	--	--	--	--
	13:50:00	55	--	--	193.50	54.20	--	--	--	--
	13:55:00	60	--	--	193.80	54.50	--	--	--	--
	14:05:00	70	--	--	194.30	55.00	--	--	--	--
	14:15:00	80	--	--	194.80	55.50	--	--	--	--
	14:25:00	90	--	--	195.10	55.80	--	--	--	--
	14:35:00	100	--	--	195.40	56.10	--	--	--	--
	14:45:00	110	--	--	195.80	56.50	--	--	--	--
	14:55:00	120	--	--	196.00	56.70	--	--	--	--
	15:10:00	135	--	--	196.40	57.10	--	--	--	--
	15:25:00	150	--	--	196.80	57.50	--	--	--	--
	15:40:00	165	--	--	197.10	57.80	--	--	--	--
	15:55:00	180	--	--	197.30	58.00	--	--	--	--
	16:15:00	200	--	--	198.70	59.40	--	--	--	--
	16:35:00	220	--	--	197.70	58.40	--	--	--	--
	16:55:00	240	--	--	198.10	58.80	--	--	--	--
	17:25:00	270	--	--	198.40	59.10	--	--	--	--
	17:55:00	300	--	--	198.80	59.50	--	--	--	--
	17:55:00	PUMP OFF								
	17:56:00	301	1	301.0	172.80	33.50	--	--	--	--
	17:57:00	302	2	151.0	167.70	28.40	--	--	--	--
	17:58:00	303	3	101.0	162.80	23.50	--	--	--	--
	17:59:00	304	4	76.0	160.50	21.20	--	--	--	--

ABLE D6C.1-19. AQUIFER-TEST DATA FOR PUMPING WELL SS1-L, (CONTINUED).

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
10/12/78	18:00:00	305	5	61.0	158.30	19.00	--	--	--	--
	18:01:00	306	6	51.0	156.90	17.60	--	--	--	--
	18:02:00	307	7	43.9	155.80	16.50	--	--	--	--
	18:03:00	308	8	38.5	155.00	15.70	--	--	--	--
	18:04:00	309	9	34.3	154.40	15.10	--	--	--	--
	18:05:00	310	10	31.0	153.80	14.50	--	--	--	--
	18:07:00	312	12	26.0	153.00	13.70	--	--	--	--
	18:09:00	314	14	22.4	152.30	13.00	--	--	--	--
	18:11:00	316	16	19.8	151.80	12.50	--	--	--	--
	18:13:00	318	18	17.7	151.30	12.00	--	--	--	--
	18:15:00	320	20	16.0	150.90	11.60	--	--	--	--
	18:20:00	325	25	13.0	149.80	10.50	--	--	--	--
	18:25:00	330	30	11.0	149.30	10.00	--	--	--	--
	18:30:00	335	35	9.6	148.70	9.40	--	--	--	--
	18:35:00	340	40	8.5	148.20	8.90	--	--	--	--
	18:40:00	345	45	7.7	147.80	8.50	--	--	--	--
	18:45:00	350	50	7.0	147.40	8.10	--	--	--	--
	18:50:00	355	55	6.5	147.00	7.70	--	--	--	--
	18:55:00	360	60	6.0	146.80	7.50	--	--	--	--
	19:05:00	370	70	5.3	146.20	6.90	--	--	--	--
	19:15:00	380	80	4.8	145.60	6.30	--	--	--	--
	19:25:00	390	90	4.3	145.20	5.90	--	--	--	--
	19:35:00	400	100	4.0	144.80	5.50	--	--	--	--
	19:45:00	410	110	3.7	144.50	5.20	--	--	--	--
	19:55:00	420	120	3.5	144.30	5.00	--	--	--	--
	20:05:00	430	130	3.3	144.00	4.70	--	--	--	--
	20:20:00	445	145	3.1	143.80	4.50	--	--	--	--
	20:40:00	465	165	2.8	143.50	4.20	--	--	--	--
	20:55:00	480	180	2.7	143.30	4.00	--	--	--	--

TABLE D6C.1-20. AQUIFER-TEST DATA FOR PUMPING WELL SS1-L, 2ND TEST.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
04/27/07	12:30:00	-22	--	--	141.19	0.00	--	--	--	--
	12:52:00	0	--	--	--	--	12.60	--	--	--
	12:52:00	PUMP ON								
	12:55:00	3	--	--	156.16	14.97	10.00	--	--	--
	12:56:00	4	--	--	157.14	15.95	--	--	--	--
	12:58:00	6	--	--	158.20	17.01	--	--	--	--
	13:00:00	8	--	--	158.80	17.61	--	--	--	--
	13:03:00	11	--	--	159.32	18.13	--	--	--	--
	13:06:00	14	--	--	159.66	18.47	9.90	--	--	--
	13:09:00	17	--	--	159.94	18.75	--	--	--	--
	13:16:00	24	--	--	160.36	19.17	--	--	--	--
	13:24:00	32	--	--	160.78	19.59	--	--	--	--
	13:45:00	53	--	--	161.47	20.28	--	--	--	--
	14:06:00	74	--	--	161.88	20.69	--	--	--	--
	14:35:00	103	--	--	162.35	21.16	9.80	--	--	--
	14:50:00	118	--	--	162.51	21.32	--	--	--	--
	15:05:00	133	--	--	162.67	21.48	--	--	--	--
	15:15:00	143	--	--	162.70	21.51	--	--	--	--
	15:16:00	144	--	--	--	--	--	12.6	--	7.31
	15:19:00	147	--	--	--	--	--	12.1	--	7.3
	15:22:00	150	--	--	--	--	--	12.1	--	7.31
	15:26:00	SAMPLE TAKEN								
	15:36:00	164	--	--	162.85	21.66	--	--	--	--
	15:40:00	PUMP OFF								

D6C.2-1 URZHF-5 MULTI-WELL TEST

A multi-well test was conducted by pumping F Sand well URZHF-5 for five days while monitoring water levels in F Sand wells Hank 1 and BR-G. Adjacent aquifer monitoring wells URZHG-4 and URZHB-6 were also observed to define the confinement at this location.

D6C.2.1 PUMPING WELL URZHF-5

F Sand well URZHF-5 was pumped for five days at an average rate of 4 gallons per minute. Table D6C.2-1 presents the pumping and manual water-level data collected in this pumping well. Table D6C.2-2 presents the transducer data collected on the pumping well. Figure D6C.2-1 presents a semi-log plot of the drawdown data. Well URZHF-5 is a partially penetrating pumping well which is completed over 17 feet of the mineralized portion of the F Sand. The F Sand is 91 feet thick at this location. A semi-log plot of the drawdown data shows the effects of the partial penetration in the early portion of the drawdown test (see Figure D6C.2-1). It also shows that effects of the unconfined aquifer conditions of this location, therefore the early time drawdown data was not used to obtain a transmissivity. The late time drawdown data yields a transmissivity of 162 gal/day/ft. Which is thought to best represent the F Sand in this area. Some minor adjustment were being made on the pumping rate near 3000 minutes of pumping which caused the erratic nature of the water levels in this area of the drawdown curve.

Figure D6C.2-2 presents a plot of the recovery data for F Sand well URZHF-5. The recovery data is greatly affected by the unconfined aquifer and therefore a straight-line fit was not used to obtain a transmissivity from this data. A transmissivity from the late time drawdown data is thought to best represent the F Sand near well URZHF-5.

D6C.2.2 OBSERVATION WELL HANK 1

The F Sand well Hank 1 was monitored for water levels during this multi-well pump test. Table D6C.2-3 presents the manual data for the Hank 1 observation well. A transducer was added to this well on August 2, 2007 and this data is presented in Table D6C.2-4. A plot of the drawdown data is presented in Figure D6C.2-3 which shows that very little drawdown occurred in this well. A small amount of drawdown was likely to have resulted in this distance observation well from pumping well URZHF-5 due to the confined response and unconfined aquifer shown during the early portion of the test. This drawdown may have been .2 feet of water. This drawdown was not enough to analyze this data for aquifer properties of the Hank 1 well.

D6C.2.3 OBSERVATION WELL BR-G

F sand well BR-G was also observed during the pumping of URZHF-5. Table D6C.2-5 presents the manual water level data while table D6C.2-6 presents the transducer water levels. Figure D6C.2-4 shows that approximately .2 feet of drawdown was resulted from the pumping of this well. Water levels then became fairly steady due to the unconfined

nature of the F Sand in this area. No aquifer properties were obtained from this minor amount of drawdown. Table D6C.2-5 presents the recovery of F Sand well BR-G, which shows very little response to the URZHF-5 pumping well.

D6C.2.4 OVERLYING OBSERVATION WELL URZHG-4

Water levels in G Sand well URZHG-4 were monitored during the URZHF-5 pumping. Table D6C.2-7 presents the manual water levels collected during this test for well URZHG-4 while Table D6C.2-8 presents the transducer water levels. Water levels for overlying observation well URZHG-4 are presented in Figure D6C.2-6 which shows fairly steady water levels during the pumping of well URZHF-5. Water levels in well URZHG-4 decline some during the early portions of the test but were responding to an increase in the barometric pressure. This test does not indicate any connection between the G Sand and the F Sand near well URZHF-5.

D6C.2.5 UNDERLYING OBSERVATION WELL URZHB-6

Water levels were also observed in underlying aquifer URZHB-6. Table D6C.2-9 presents the manual water levels collected during this pump test. Figure D6C.2-6 also presents the water levels for B Sand well URZHB-6. This data does not indicate any connection between the F Sand and the B Sand in the area of URZHB-6.

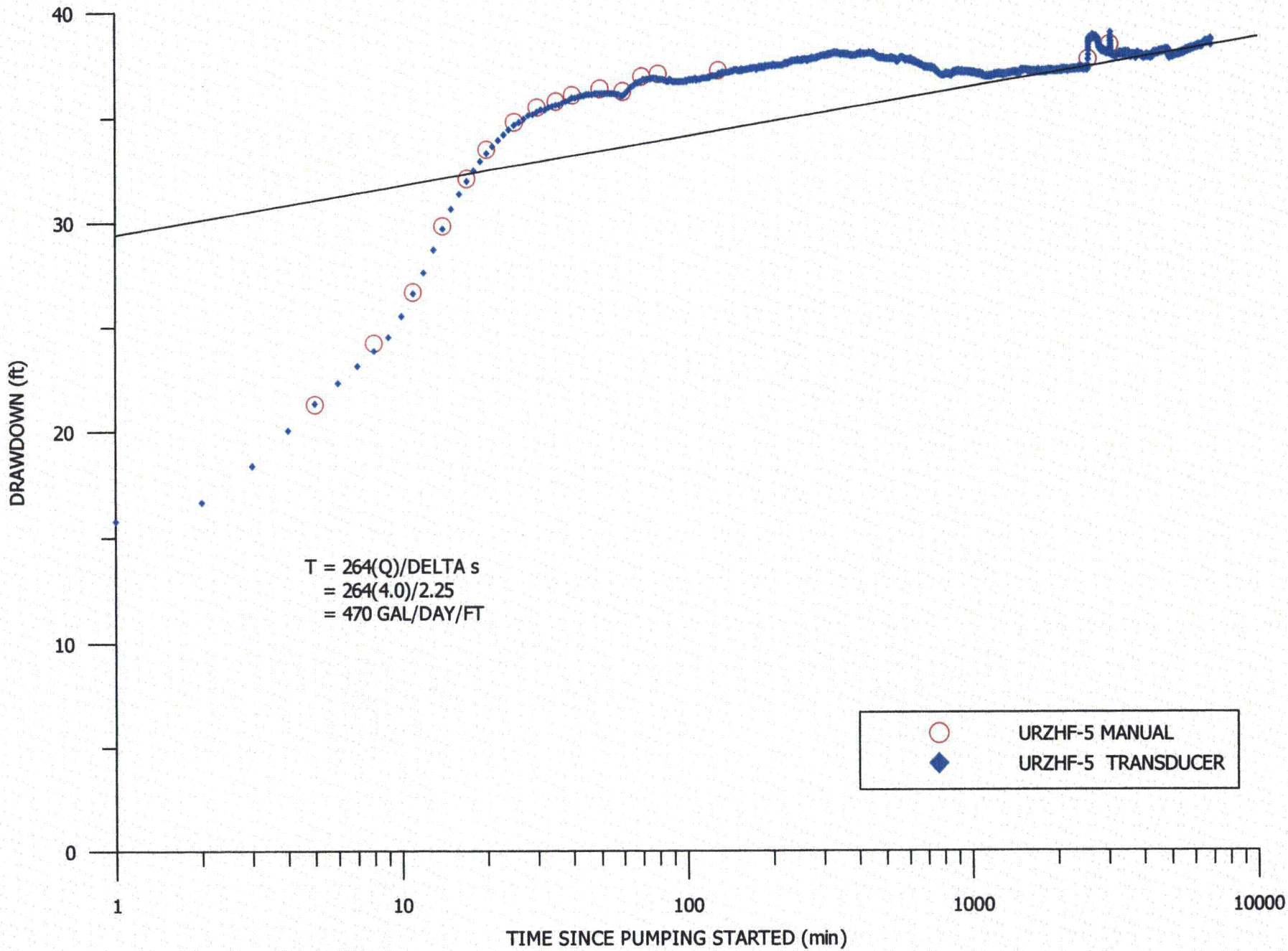

FIGURE D6C.2-1. DRAWDOWN IN PUMPING WELL URZHF-5

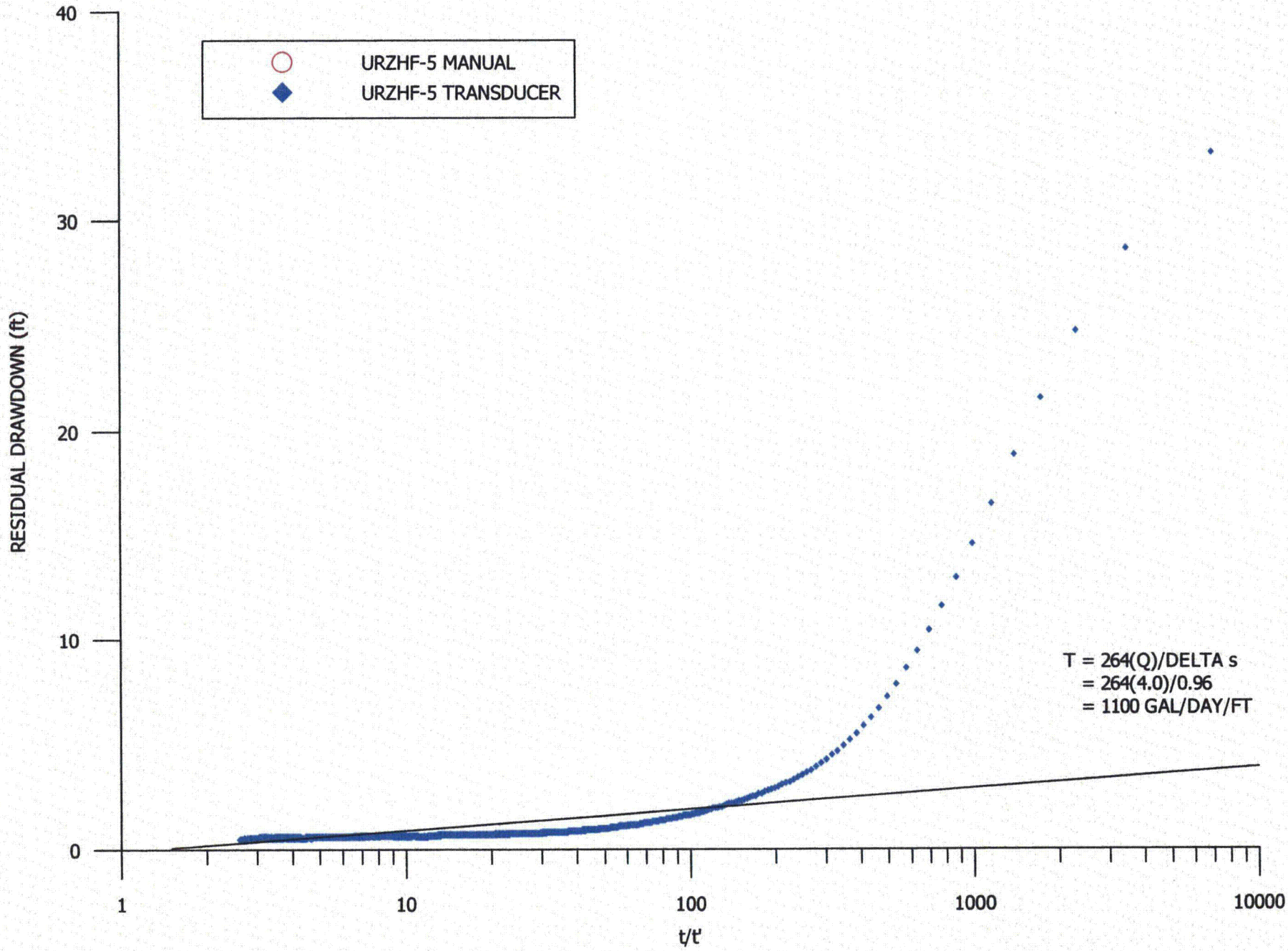

FIGURE D6C.2-2. RECOVERY IN PUMPING WELL URZHF-5

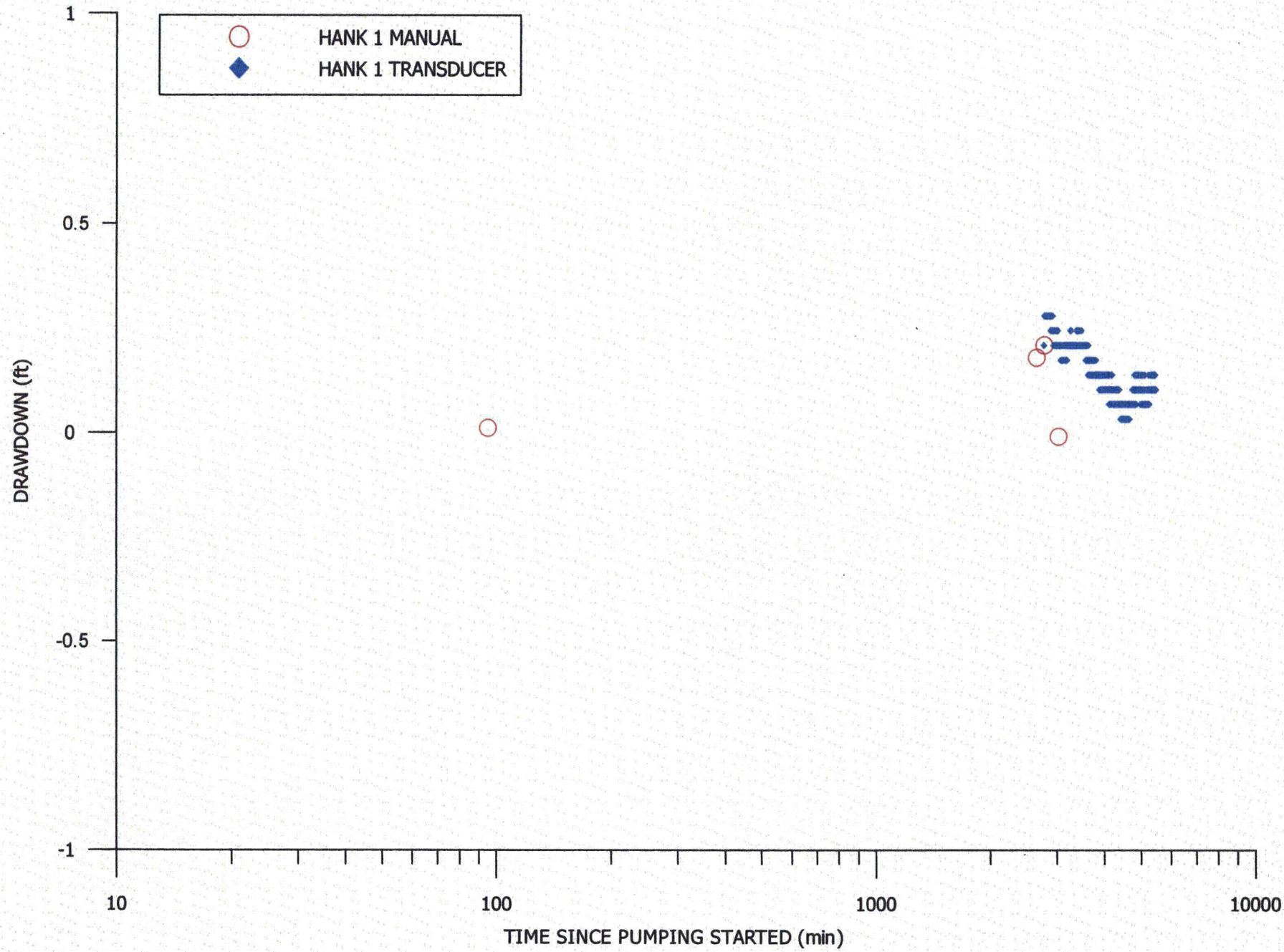

FIGURE D6C.2-3. DRAWDOWN IN OBSERVATION WELL HANK 1

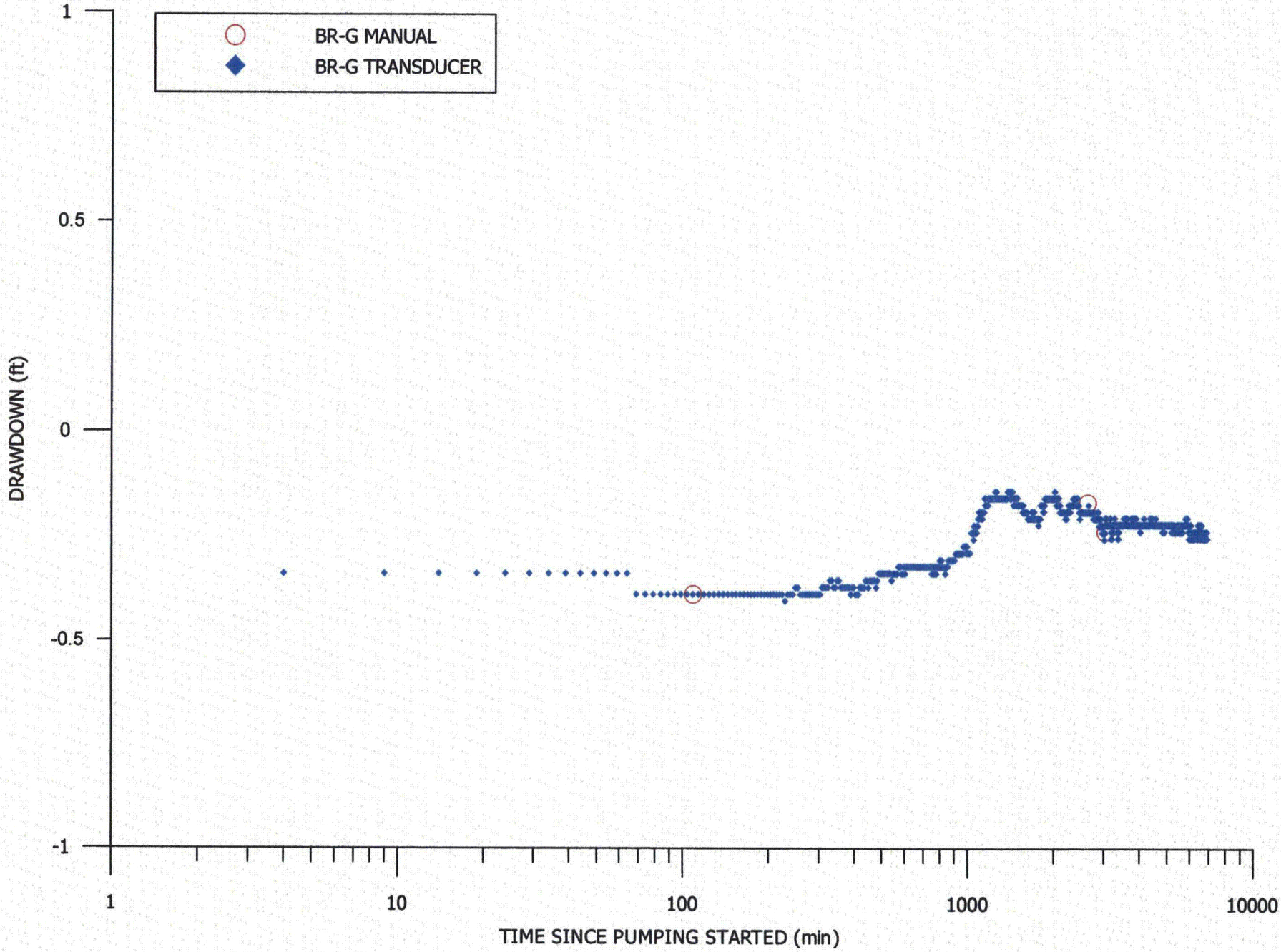

FIGURE D6C.2-4. DRAWDOWN IN OBSERVATION WELL BR-G

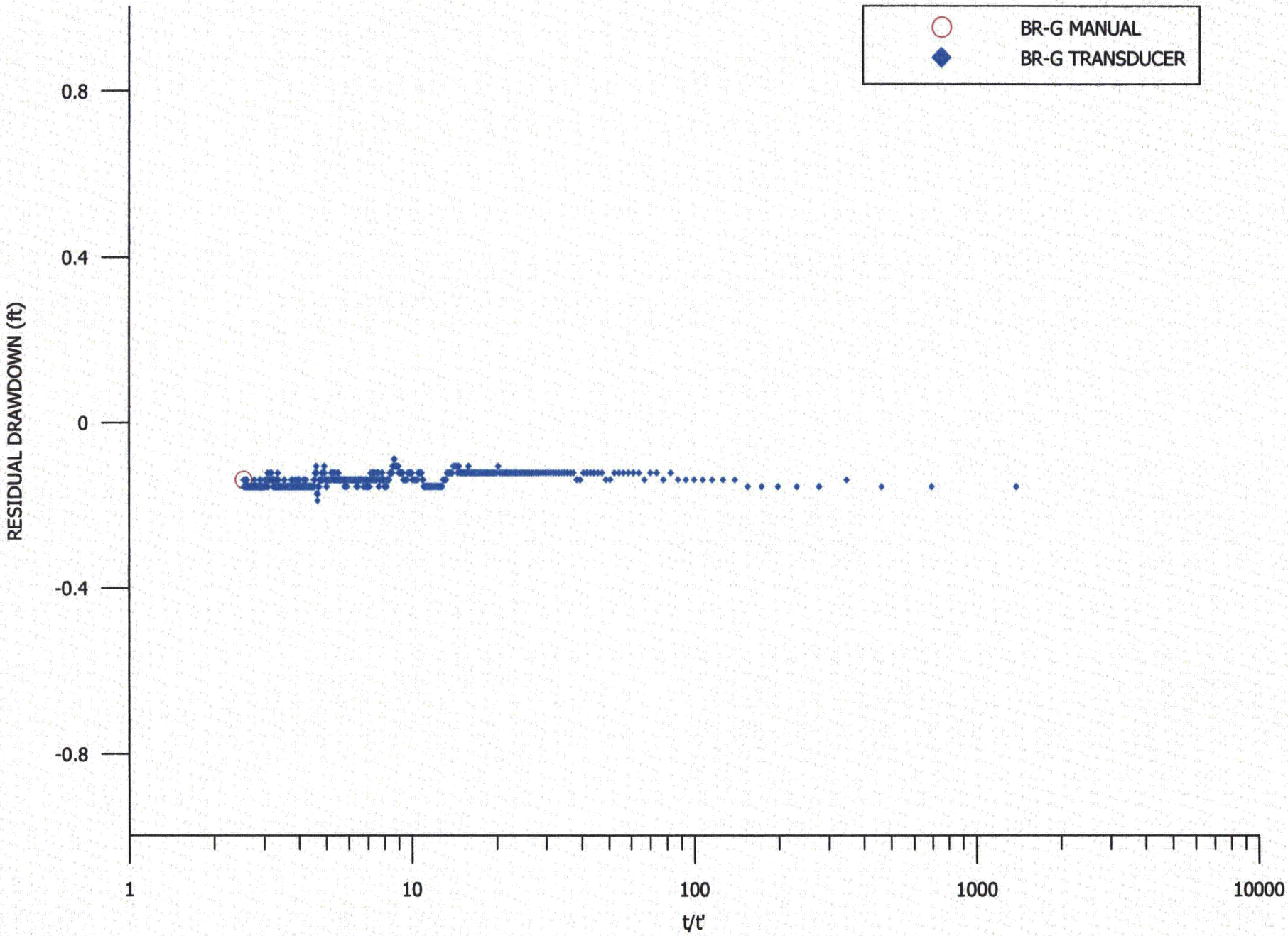

FIGURE D6C.2-5. RECOVERY IN OBSERVATION WELL BR-G

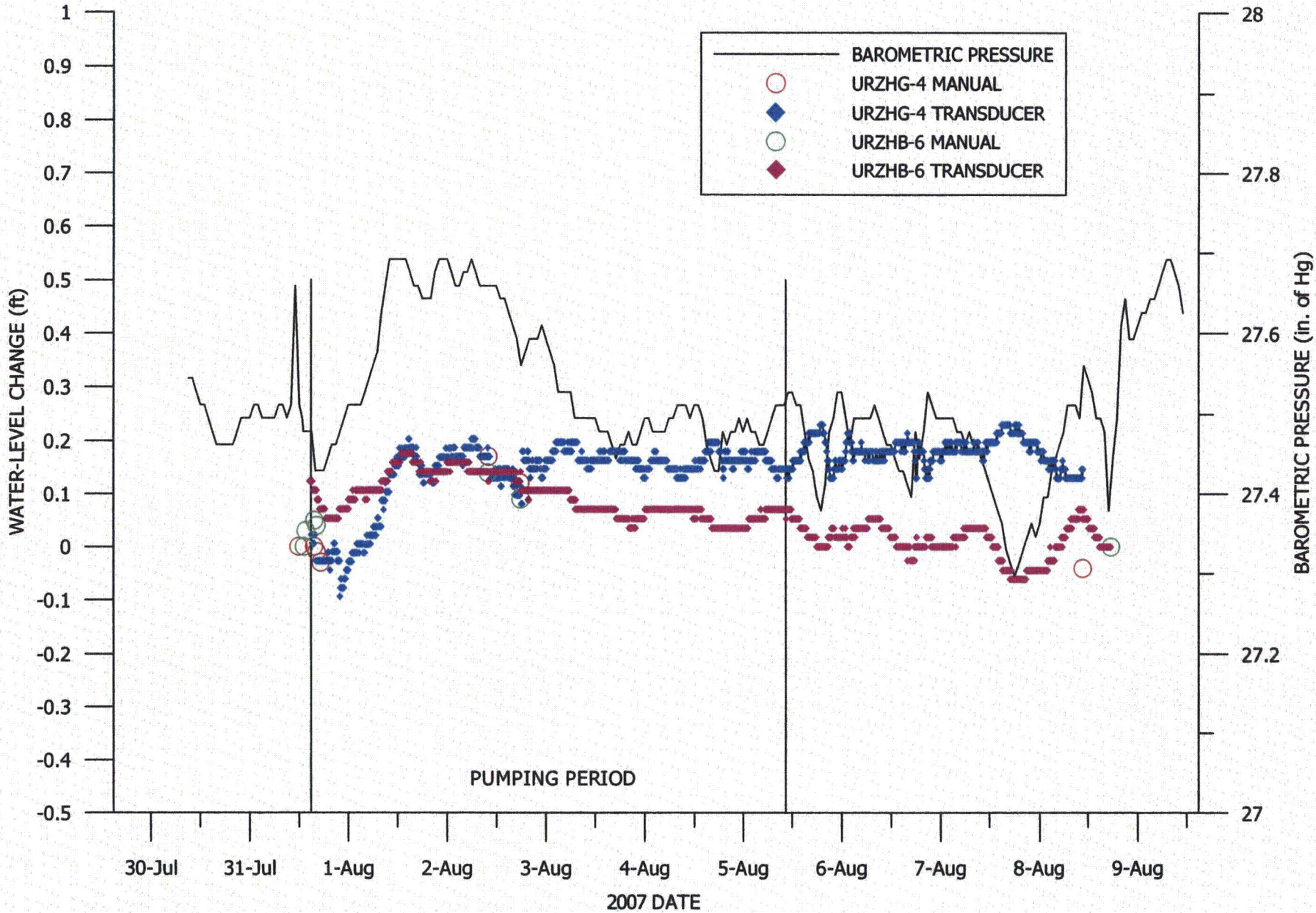

FIGURE D6C.2-6. BAROMETRIC PRESSURE AND WATER-LEVEL CHANGE IN OVERLYING OBSERVATION WELL URZHG-4 AND UNDERLYING OBSERVATION WELL URZHB-6

TABLE D6C.2-1. AQUIFER-TEST DATA FOR PUMPING WELL URZHF-5.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/31/07	12:22:00	-153	--	--	317.54	0.00	--	--	--	--
	14:55:00	PUMP ON								
	14:59:00	4	--	--	--	--	3.70	--	--	--
	15:00:00	5	--	--	338.80	21.26	--	--	--	--
	15:03:00	8	--	--	341.77	24.23	3.40	--	--	--
	15:06:00	11	--	--	344.19	26.65	3.90	--	--	--
	15:09:00	14	--	--	347.37	29.83	4.20	--	--	--
	15:12:00	17	--	--	349.63	32.09	4.10	--	--	--
	15:15:00	20	--	--	351.03	33.49	4.10	--	--	--
	15:20:00	25	--	--	352.32	34.78	4.00	--	--	--
	15:25:00	30	--	--	353.02	35.48	4.00	--	--	--
	15:30:00	35	--	--	353.29	35.75	4.00	--	--	--
	15:35:00	40	--	--	353.59	36.05	--	--	--	--
	15:45:00	50	--	--	353.89	36.35	--	--	--	--
	15:55:00	60	--	--	353.78	36.24	3.90	--	--	--
	15:57:00	62	--	--	--	--	4.30	--	--	--
	16:05:00	70	--	--	354.48	36.94	4.30	--	--	--
	16:07:00	72	--	--	--	--	--	16.9	--	10.85
	16:15:00	80	--	--	354.59	37.05	--	--	--	--
	17:05:00	130	--	--	354.77	37.23	4.30	--	--	--
08/02/07	9:50:00	2575	--	--	355.31	37.77	4.00	--	--	--
	10:02:00	2587	--	--	--	--	4.30	--	--	--
	17:46:00	3051	--	--	356.00	38.46	4.20	--	--	--
	18:00:00	3065	--	--	--	--	--	16	--	8.56
	18:03:00	3068	--	--	--	--	--	16.6	--	8.65
	18:10:00	3075	--	--	--	--	--	15.5	--	8.76
08/05/07	10:21:00	PUMP OFF								
08/08/07	10:23:00	11248	4322	2.6	317.86	0.32	--	--	--	--

TABLE D6C.2-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-5.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/31/07	14:52	317.79	7/31/07	15:45	353.68	7/31/07	16:38	354.35	7/31/07	17:31	354.74	7/31/07	18:24	355.01
7/31/07	14:53	317.79	7/31/07	15:46	353.68	7/31/07	16:39	354.29	7/31/07	17:32	354.85	7/31/07	18:25	355.01
7/31/07	14:54	317.79	7/31/07	15:47	353.68	7/31/07	16:40	354.35	7/31/07	17:33	354.74	7/31/07	18:26	355.01
7/31/07	14:55	318.29	7/31/07	15:48	353.68	7/31/07	16:41	354.29	7/31/07	17:34	354.79	7/31/07	18:27	355.01
7/31/07	14:56	333.29	7/31/07	15:49	353.68	7/31/07	16:42	354.35	7/31/07	17:35	354.79	7/31/07	18:28	355.01
7/31/07	14:57	334.18	7/31/07	15:50	353.68	7/31/07	16:43	354.40	7/31/07	17:36	354.79	7/31/07	18:29	355.01
7/31/07	14:58	335.90	7/31/07	15:51	353.68	7/31/07	16:44	354.29	7/31/07	17:37	354.79	7/31/07	18:30	355.01
7/31/07	14:59	337.57	7/31/07	15:52	353.62	7/31/07	16:45	354.35	7/31/07	17:38	354.79	7/31/07	18:31	355.01
7/31/07	15:00	338.85	7/31/07	15:53	353.62	7/31/07	16:46	354.35	7/31/07	17:39	354.85	7/31/07	18:32	355.01
7/31/07	15:01	339.85	7/31/07	15:54	353.57	7/31/07	16:47	354.35	7/31/07	17:40	354.79	7/31/07	18:33	355.01
7/31/07	15:02	340.68	7/31/07	15:55	353.57	7/31/07	16:48	354.35	7/31/07	17:41	354.85	7/31/07	18:34	355.01
7/31/07	15:03	341.40	7/31/07	15:56	353.62	7/31/07	16:49	354.40	7/31/07	17:42	354.85	7/31/07	18:35	355.07
7/31/07	15:04	342.07	7/31/07	15:57	353.74	7/31/07	16:50	354.40	7/31/07	17:43	354.85	7/31/07	18:36	355.07
7/31/07	15:05	343.07	7/31/07	15:58	353.85	7/31/07	16:51	354.40	7/31/07	17:44	354.90	7/31/07	18:37	355.07
7/31/07	15:06	344.12	7/31/07	15:59	353.96	7/31/07	16:52	354.40	7/31/07	17:45	354.85	7/31/07	18:38	355.12
7/31/07	15:07	345.12	7/31/07	16:00	354.01	7/31/07	16:53	354.40	7/31/07	17:46	354.85	7/31/07	18:39	355.12
7/31/07	15:08	346.24	7/31/07	16:01	354.07	7/31/07	16:54	354.40	7/31/07	17:47	354.90	7/31/07	18:40	355.12
7/31/07	15:09	347.24	7/31/07	16:02	354.18	7/31/07	16:55	354.46	7/31/07	17:48	354.90	7/31/07	18:41	355.12
7/31/07	15:10	348.18	7/31/07	16:03	354.18	7/31/07	16:56	354.40	7/31/07	17:49	354.90	7/31/07	18:42	355.07
7/31/07	15:11	348.90	7/31/07	16:04	354.24	7/31/07	16:57	354.46	7/31/07	17:50	354.90	7/31/07	18:43	355.12
7/31/07	15:12	349.51	7/31/07	16:05	354.24	7/31/07	16:58	354.51	7/31/07	17:51	354.90	7/31/07	18:44	355.12
7/31/07	15:13	350.01	7/31/07	16:06	354.35	7/31/07	16:59	354.51	7/31/07	17:52	354.79	7/31/07	18:45	355.12
7/31/07	15:14	350.46	7/31/07	16:07	354.29	7/31/07	17:00	354.51	7/31/07	17:53	354.90	7/31/07	18:46	355.18
7/31/07	15:15	350.85	7/31/07	16:08	354.35	7/31/07	17:01	354.51	7/31/07	17:54	354.90	7/31/07	18:47	355.18
7/31/07	15:16	351.18	7/31/07	16:09	354.35	7/31/07	17:02	354.51	7/31/07	17:55	354.90	7/31/07	18:48	355.18
7/31/07	15:17	351.46	7/31/07	16:10	354.35	7/31/07	17:03	354.51	7/31/07	17:56	354.96	7/31/07	18:49	355.24
7/31/07	15:18	351.74	7/31/07	16:11	354.40	7/31/07	17:04	354.51	7/31/07	17:57	354.90	7/31/07	18:50	355.18
7/31/07	15:19	351.96	7/31/07	16:12	354.40	7/31/07	17:05	354.57	7/31/07	17:58	354.90	7/31/07	18:51	355.18
7/31/07	15:20	352.18	7/31/07	16:13	354.40	7/31/07	17:06	354.62	7/31/07	17:59	354.96	7/31/07	18:52	355.24
7/31/07	15:21	352.29	7/31/07	16:14	354.40	7/31/07	17:07	354.57	7/31/07	18:00	354.90	7/31/07	18:53	355.24
7/31/07	15:22	352.46	7/31/07	16:15	354.35	7/31/07	17:08	354.57	7/31/07	18:01	354.96	7/31/07	18:54	355.24
7/31/07	15:23	352.62	7/31/07	16:16	354.35	7/31/07	17:09	354.68	7/31/07	18:02	354.90	7/31/07	18:55	355.24
7/31/07	15:24	352.68	7/31/07	16:17	354.35	7/31/07	17:10	354.68	7/31/07	18:03	354.90	7/31/07	18:56	355.24
7/31/07	15:25	352.79	7/31/07	16:18	354.35	7/31/07	17:11	354.62	7/31/07	18:04	354.90	7/31/07	18:57	355.24
7/31/07	15:26	352.90	7/31/07	16:19	354.29	7/31/07	17:12	354.68	7/31/07	18:05	355.01	7/31/07	18:58	355.24
7/31/07	15:27	352.90	7/31/07	16:20	354.29	7/31/07	17:13	354.68	7/31/07	18:06	354.96	7/31/07	18:59	355.24
7/31/07	15:28	353.01	7/31/07	16:21	354.24	7/31/07	17:14	354.68	7/31/07	18:07	354.96	7/31/07	19:00	355.24
7/31/07	15:29	353.07	7/31/07	16:22	354.24	7/31/07	17:15	354.68	7/31/07	18:08	354.96	7/31/07	19:01	355.24
7/31/07	15:30	353.12	7/31/07	16:23	354.35	7/31/07	17:16	354.68	7/31/07	18:09	354.96	7/31/07	19:02	355.29
7/31/07	15:31	353.12	7/31/07	16:24	354.29	7/31/07	17:17	354.68	7/31/07	18:10	355.01	7/31/07	19:03	355.24
7/31/07	15:32	353.24	7/31/07	16:25	354.24	7/31/07	17:18	354.68	7/31/07	18:11	354.96	7/31/07	19:04	355.24
7/31/07	15:33	353.29	7/31/07	16:26	354.24	7/31/07	17:19	354.74	7/31/07	18:12	355.01	7/31/07	19:05	355.24
7/31/07	15:34	353.35	7/31/07	16:27	354.24	7/31/07	17:20	354.74	7/31/07	18:13	355.01	7/31/07	19:06	355.24
7/31/07	15:35	353.46	7/31/07	16:28	354.24	7/31/07	17:21	354.74	7/31/07	18:14	355.01	7/31/07	19:07	355.24
7/31/07	15:36	353.46	7/31/07	16:29	354.24	7/31/07	17:22	354.74	7/31/07	18:15	354.96	7/31/07	19:08	355.24
7/31/07	15:37	353.51	7/31/07	16:30	354.24	7/31/07	17:23	354.79	7/31/07	18:16	354.96	7/31/07	19:09	355.24
7/31/07	15:38	353.57	7/31/07	16:31	354.24	7/31/07	17:24	354.79	7/31/07	18:17	355.01	7/31/07	19:10	355.24
7/31/07	15:39	353.57	7/31/07	16:32	354.24	7/31/07	17:25	354.79	7/31/07	18:18	355.07	7/31/07	19:11	355.29
7/31/07	15:40	353.62	7/31/07	16:33	354.24	7/31/07	17:26	354.79	7/31/07	18:19	355.01	7/31/07	19:12	355.24
7/31/07	15:41	353.62	7/31/07	16:34	354.24	7/31/07	17:27	354.79	7/31/07	18:20	355.01	7/31/07	19:13	355.24
7/31/07	15:42	353.62	7/31/07	16:35	354.29	7/31/07	17:28	354.74	7/31/07	18:21	354.96	7/31/07	19:14	355.29
7/31/07	15:43	353.68	7/31/07	16:36	354.24	7/31/07	17:29	354.74	7/31/07	18:22	355.01	7/31/07	19:15	355.29
7/31/07	15:44	353.68	7/31/07	16:37	354.29	7/31/07	17:30	354.74	7/31/07	18:23	355.01	7/31/07	19:16	355.29

TABLE D6C.2-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-5, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/31/07	19:17	355.29	7/31/07	20:10	355.57	7/31/07	21:03	355.57	7/31/07	21:56	355.57	7/31/07	22:49	355.35
7/31/07	19:18	355.29	7/31/07	20:11	355.46	7/31/07	21:04	355.51	7/31/07	21:57	355.51	7/31/07	22:50	355.35
7/31/07	19:19	355.29	7/31/07	20:12	355.51	7/31/07	21:05	355.51	7/31/07	21:58	355.57	7/31/07	22:51	355.40
7/31/07	19:20	355.29	7/31/07	20:13	355.57	7/31/07	21:06	355.57	7/31/07	21:59	355.57	7/31/07	22:52	355.40
7/31/07	19:21	355.24	7/31/07	20:14	355.51	7/31/07	21:07	355.51	7/31/07	22:00	355.57	7/31/07	22:53	355.35
7/31/07	19:22	355.29	7/31/07	20:15	355.51	7/31/07	21:08	355.51	7/31/07	22:01	355.57	7/31/07	22:54	355.35
7/31/07	19:23	355.24	7/31/07	20:16	355.51	7/31/07	21:09	355.51	7/31/07	22:02	355.57	7/31/07	22:55	355.40
7/31/07	19:24	355.29	7/31/07	20:17	355.57	7/31/07	21:10	355.51	7/31/07	22:03	355.57	7/31/07	22:56	355.35
7/31/07	19:25	355.29	7/31/07	20:18	355.57	7/31/07	21:11	355.46	7/31/07	22:04	355.57	7/31/07	22:57	355.40
7/31/07	19:26	355.29	7/31/07	20:19	355.51	7/31/07	21:12	355.51	7/31/07	22:05	355.57	7/31/07	22:58	355.35
7/31/07	19:27	355.29	7/31/07	20:20	355.57	7/31/07	21:13	355.51	7/31/07	22:06	355.57	7/31/07	22:59	355.35
7/31/07	19:28	355.35	7/31/07	20:21	355.57	7/31/07	21:14	355.51	7/31/07	22:07	355.57	7/31/07	23:00	355.40
7/31/07	19:29	355.29	7/31/07	20:22	355.57	7/31/07	21:15	355.46	7/31/07	22:08	355.57	7/31/07	23:01	355.35
7/31/07	19:30	355.35	7/31/07	20:23	355.57	7/31/07	21:16	355.51	7/31/07	22:09	355.57	7/31/07	23:02	355.40
7/31/07	19:31	355.29	7/31/07	20:24	355.62	7/31/07	21:17	355.46	7/31/07	22:10	355.57	7/31/07	23:03	355.40
7/31/07	19:32	355.40	7/31/07	20:25	355.57	7/31/07	21:18	355.51	7/31/07	22:11	355.57	7/31/07	23:04	355.40
7/31/07	19:33	355.35	7/31/07	20:26	355.57	7/31/07	21:19	355.46	7/31/07	22:12	355.57	7/31/07	23:05	355.40
7/31/07	19:34	355.35	7/31/07	20:27	355.62	7/31/07	21:20	355.46	7/31/07	22:13	355.57	7/31/07	23:06	355.35
7/31/07	19:35	355.35	7/31/07	20:28	355.57	7/31/07	21:21	355.46	7/31/07	22:14	355.62	7/31/07	23:07	355.35
7/31/07	19:36	355.35	7/31/07	20:29	355.62	7/31/07	21:22	355.46	7/31/07	22:15	355.62	7/31/07	23:08	355.40
7/31/07	19:37	355.35	7/31/07	20:30	355.62	7/31/07	21:23	355.51	7/31/07	22:16	355.57	7/31/07	23:09	355.40
7/31/07	19:38	355.35	7/31/07	20:31	355.57	7/31/07	21:24	355.46	7/31/07	22:17	355.57	7/31/07	23:10	355.35
7/31/07	19:39	355.35	7/31/07	20:32	355.57	7/31/07	21:25	355.51	7/31/07	22:18	355.57	7/31/07	23:11	355.40
7/31/07	19:40	355.35	7/31/07	20:33	355.57	7/31/07	21:26	355.46	7/31/07	22:19	355.57	7/31/07	23:12	355.35
7/31/07	19:41	355.35	7/31/07	20:34	355.57	7/31/07	21:27	355.51	7/31/07	22:20	355.57	7/31/07	23:13	355.35
7/31/07	19:42	355.35	7/31/07	20:35	355.57	7/31/07	21:28	355.51	7/31/07	22:21	355.57	7/31/07	23:14	355.35
7/31/07	19:43	355.40	7/31/07	20:36	355.62	7/31/07	21:29	355.46	7/31/07	22:22	355.57	7/31/07	23:15	355.35
7/31/07	19:44	355.35	7/31/07	20:37	355.57	7/31/07	21:30	355.51	7/31/07	22:23	355.57	7/31/07	23:16	355.35
7/31/07	19:45	355.40	7/31/07	20:38	355.57	7/31/07	21:31	355.46	7/31/07	22:24	355.57	7/31/07	23:17	355.29
7/31/07	19:46	355.40	7/31/07	20:39	355.57	7/31/07	21:32	355.51	7/31/07	22:25	355.57	7/31/07	23:18	355.35
7/31/07	19:47	355.40	7/31/07	20:40	355.57	7/31/07	21:33	355.51	7/31/07	22:26	355.57	7/31/07	23:19	355.35
7/31/07	19:48	355.40	7/31/07	20:41	355.57	7/31/07	21:34	355.57	7/31/07	22:27	355.51	7/31/07	23:20	355.35
7/31/07	19:49	355.40	7/31/07	20:42	355.57	7/31/07	21:35	355.57	7/31/07	22:28	355.51	7/31/07	23:21	355.35
7/31/07	19:50	355.40	7/31/07	20:43	355.51	7/31/07	21:36	355.51	7/31/07	22:29	355.57	7/31/07	23:22	355.35
7/31/07	19:51	355.46	7/31/07	20:44	355.57	7/31/07	21:37	355.51	7/31/07	22:30	355.62	7/31/07	23:23	355.35
7/31/07	19:52	355.46	7/31/07	20:45	355.51	7/31/07	21:38	355.57	7/31/07	22:31	355.57	7/31/07	23:24	355.35
7/31/07	19:53	355.46	7/31/07	20:46	355.51	7/31/07	21:39	355.57	7/31/07	22:32	355.57	7/31/07	23:25	355.35
7/31/07	19:54	355.46	7/31/07	20:47	355.57	7/31/07	21:40	355.57	7/31/07	22:33	355.57	7/31/07	23:26	355.35
7/31/07	19:55	355.46	7/31/07	20:48	355.57	7/31/07	21:41	355.57	7/31/07	22:34	355.57	7/31/07	23:27	355.29
7/31/07	19:56	355.46	7/31/07	20:49	355.57	7/31/07	21:42	355.51	7/31/07	22:35	355.57	7/31/07	23:28	355.35
7/31/07	19:57	355.46	7/31/07	20:50	355.57	7/31/07	21:43	355.51	7/31/07	22:36	355.51	7/31/07	23:29	355.35
7/31/07	19:58	355.46	7/31/07	20:51	355.57	7/31/07	21:44	355.57	7/31/07	22:37	355.46	7/31/07	23:30	355.35
7/31/07	19:59	355.51	7/31/07	20:52	355.57	7/31/07	21:45	355.62	7/31/07	22:38	355.51	7/31/07	23:31	355.35
7/31/07	20:00	355.46	7/31/07	20:53	355.51	7/31/07	21:46	355.57	7/31/07	22:39	355.46	7/31/07	23:32	355.35
7/31/07	20:01	355.46	7/31/07	20:54	355.57	7/31/07	21:47	355.57	7/31/07	22:40	355.46	7/31/07	23:33	355.35
7/31/07	20:02	355.46	7/31/07	20:55	355.57	7/31/07	21:48	355.51	7/31/07	22:41	355.46	7/31/07	23:34	355.29
7/31/07	20:03	355.46	7/31/07	20:56	355.57	7/31/07	21:49	355.57	7/31/07	22:42	355.40	7/31/07	23:35	355.35
7/31/07	20:04	355.51	7/31/07	20:57	355.57	7/31/07	21:50	355.57	7/31/07	22:43	355.40	7/31/07	23:36	355.35
7/31/07	20:05	355.51	7/31/07	20:58	355.57	7/31/07	21:51	355.57	7/31/07	22:44	355.40	7/31/07	23:37	355.35
7/31/07	20:06	355.46	7/31/07	20:59	355.57	7/31/07	21:52	355.57	7/31/07	22:45	355.46	7/31/07	23:38	355.35
7/31/07	20:07	355.51	7/31/07	21:00	355.51	7/31/07	21:53	355.57	7/31/07	22:46	355.40	7/31/07	23:39	355.35
7/31/07	20:08	355.46	7/31/07	21:01	355.51	7/31/07	21:54	355.57	7/31/07	22:47	355.46	7/31/07	23:40	355.40
7/31/07	20:09	355.51	7/31/07	21:02	355.51	7/31/07	21:55	355.57	7/31/07	22:48	355.40	7/31/07	23:41	355.35

TABLE D6C.2-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-5, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/31/07	23:42	355.35	8/1/07	0:35	355.35	8/1/07	1:28	355.24	8/1/07	2:21	354.90	8/1/07	3:14	354.90
7/31/07	23:43	355.35	8/1/07	0:36	355.35	8/1/07	1:29	355.12	8/1/07	2:22	354.96	8/1/07	3:15	354.90
7/31/07	23:44	355.29	8/1/07	0:37	355.35	8/1/07	1:30	355.24	8/1/07	2:23	354.96	8/1/07	3:16	354.90
7/31/07	23:45	355.35	8/1/07	0:38	355.35	8/1/07	1:31	355.18	8/1/07	2:24	354.90	8/1/07	3:17	354.90
7/31/07	23:46	355.40	8/1/07	0:39	355.35	8/1/07	1:32	355.18	8/1/07	2:25	354.90	8/1/07	3:18	354.90
7/31/07	23:47	355.29	8/1/07	0:40	355.35	8/1/07	1:33	355.12	8/1/07	2:26	354.96	8/1/07	3:19	354.90
7/31/07	23:48	355.35	8/1/07	0:41	355.29	8/1/07	1:34	355.12	8/1/07	2:27	354.96	8/1/07	3:20	354.90
7/31/07	23:49	355.35	8/1/07	0:42	355.35	8/1/07	1:35	355.18	8/1/07	2:28	354.96	8/1/07	3:21	354.90
7/31/07	23:50	355.35	8/1/07	0:43	355.29	8/1/07	1:36	355.18	8/1/07	2:29	354.96	8/1/07	3:22	354.85
7/31/07	23:51	355.35	8/1/07	0:44	355.29	8/1/07	1:37	355.18	8/1/07	2:30	354.96	8/1/07	3:23	354.90
7/31/07	23:52	355.35	8/1/07	0:45	355.24	8/1/07	1:38	355.18	8/1/07	2:31	354.96	8/1/07	3:24	354.85
7/31/07	23:53	355.35	8/1/07	0:46	355.29	8/1/07	1:39	355.12	8/1/07	2:32	354.90	8/1/07	3:25	354.85
7/31/07	23:54	355.35	8/1/07	0:47	355.29	8/1/07	1:40	355.18	8/1/07	2:33	354.90	8/1/07	3:26	354.85
7/31/07	23:55	355.35	8/1/07	0:48	355.29	8/1/07	1:41	355.12	8/1/07	2:34	354.96	8/1/07	3:27	354.85
7/31/07	23:56	355.29	8/1/07	0:49	355.29	8/1/07	1:42	355.12	8/1/07	2:35	354.90	8/1/07	3:28	354.74
7/31/07	23:57	355.29	8/1/07	0:50	355.29	8/1/07	1:43	355.12	8/1/07	2:36	354.90	8/1/07	3:29	354.85
7/31/07	23:58	355.29	8/1/07	0:51	355.29	8/1/07	1:44	355.12	8/1/07	2:37	354.96	8/1/07	3:30	354.79
7/31/07	23:59	355.29	8/1/07	0:52	355.29	8/1/07	1:45	355.12	8/1/07	2:38	354.90	8/1/07	3:31	354.79
8/1/07	0:00	355.29	8/1/07	0:53	355.29	8/1/07	1:46	355.12	8/1/07	2:39	354.90	8/1/07	3:32	354.79
8/1/07	0:01	355.35	8/1/07	0:54	355.29	8/1/07	1:47	355.12	8/1/07	2:40	354.90	8/1/07	3:33	354.79
8/1/07	0:02	355.29	8/1/07	0:55	355.29	8/1/07	1:48	355.07	8/1/07	2:41	354.90	8/1/07	3:34	354.79
8/1/07	0:03	355.29	8/1/07	0:56	355.29	8/1/07	1:49	355.12	8/1/07	2:42	354.90	8/1/07	3:35	354.79
8/1/07	0:04	355.24	8/1/07	0:57	355.29	8/1/07	1:50	355.07	8/1/07	2:43	354.90	8/1/07	3:36	354.74
8/1/07	0:05	355.29	8/1/07	0:58	355.29	8/1/07	1:51	355.12	8/1/07	2:44	354.90	8/1/07	3:37	354.68
8/1/07	0:06	355.29	8/1/07	0:59	355.29	8/1/07	1:52	355.12	8/1/07	2:45	354.90	8/1/07	3:38	354.74
8/1/07	0:07	355.18	8/1/07	1:00	355.29	8/1/07	1:53	355.07	8/1/07	2:46	354.96	8/1/07	3:39	354.74
8/1/07	0:08	355.24	8/1/07	1:01	355.24	8/1/07	1:54	355.07	8/1/07	2:47	354.90	8/1/07	3:40	354.68
8/1/07	0:09	355.24	8/1/07	1:02	355.24	8/1/07	1:55	355.07	8/1/07	2:48	354.90	8/1/07	3:41	354.68
8/1/07	0:10	355.18	8/1/07	1:03	355.29	8/1/07	1:56	355.07	8/1/07	2:49	354.90	8/1/07	3:42	354.62
8/1/07	0:11	355.24	8/1/07	1:04	355.29	8/1/07	1:57	355.07	8/1/07	2:50	354.90	8/1/07	3:43	354.68
8/1/07	0:12	355.24	8/1/07	1:05	355.24	8/1/07	1:58	355.07	8/1/07	2:51	354.90	8/1/07	3:44	354.62
8/1/07	0:13	355.24	8/1/07	1:06	355.29	8/1/07	1:59	355.01	8/1/07	2:52	354.90	8/1/07	3:45	354.62
8/1/07	0:14	355.29	8/1/07	1:07	355.24	8/1/07	2:00	355.07	8/1/07	2:53	354.90	8/1/07	3:46	354.68
8/1/07	0:15	355.29	8/1/07	1:08	355.24	8/1/07	2:01	355.07	8/1/07	2:54	354.90	8/1/07	3:47	354.62
8/1/07	0:16	355.29	8/1/07	1:09	355.29	8/1/07	2:02	355.07	8/1/07	2:55	354.90	8/1/07	3:48	354.62
8/1/07	0:17	355.29	8/1/07	1:10	355.24	8/1/07	2:03	355.07	8/1/07	2:56	354.90	8/1/07	3:49	354.68
8/1/07	0:18	355.35	8/1/07	1:11	355.24	8/1/07	2:04	355.01	8/1/07	2:57	354.96	8/1/07	3:50	354.62
8/1/07	0:19	355.29	8/1/07	1:12	355.35	8/1/07	2:05	355.01	8/1/07	2:58	354.90	8/1/07	3:51	354.62
8/1/07	0:20	355.35	8/1/07	1:13	355.24	8/1/07	2:06	355.01	8/1/07	2:59	354.90	8/1/07	3:52	354.57
8/1/07	0:21	355.35	8/1/07	1:14	355.24	8/1/07	2:07	355.07	8/1/07	3:00	354.90	8/1/07	3:53	354.62
8/1/07	0:22	355.35	8/1/07	1:15	355.29	8/1/07	2:08	355.07	8/1/07	3:01	354.90	8/1/07	3:54	354.62
8/1/07	0:23	355.35	8/1/07	1:16	355.24	8/1/07	2:09	355.01	8/1/07	3:02	354.85	8/1/07	3:55	354.57
8/1/07	0:24	355.40	8/1/07	1:17	355.24	8/1/07	2:10	355.01	8/1/07	3:03	354.90	8/1/07	3:56	354.57
8/1/07	0:25	355.40	8/1/07	1:18	355.18	8/1/07	2:11	355.01	8/1/07	3:04	354.90	8/1/07	3:57	354.57
8/1/07	0:26	355.40	8/1/07	1:19	355.24	8/1/07	2:12	355.01	8/1/07	3:05	354.96	8/1/07	3:58	354.57
8/1/07	0:27	355.40	8/1/07	1:20	355.24	8/1/07	2:13	355.01	8/1/07	3:06	354.90	8/1/07	3:59	354.57
8/1/07	0:28	355.40	8/1/07	1:21	355.24	8/1/07	2:14	355.01	8/1/07	3:07	354.90	8/1/07	4:00	354.57
8/1/07	0:29	355.40	8/1/07	1:22	355.18	8/1/07	2:15	355.01	8/1/07	3:08	354.90	8/1/07	4:01	354.57
8/1/07	0:30	355.40	8/1/07	1:23	355.18	8/1/07	2:16	354.96	8/1/07	3:09	354.90	8/1/07	4:02	354.57
8/1/07	0:31	355.40	8/1/07	1:24	355.18	8/1/07	2:17	354.96	8/1/07	3:10	354.90	8/1/07	4:03	354.57
8/1/07	0:32	355.40	8/1/07	1:25	355.24	8/1/07	2:18	354.96	8/1/07	3:11	354.90	8/1/07	4:04	354.57
8/1/07	0:33	355.40	8/1/07	1:26	355.18	8/1/07	2:19	354.96	8/1/07	3:12	354.90	8/1/07	4:05	354.57
8/1/07	0:34	355.35	8/1/07	1:27	355.18	8/1/07	2:20	354.96	8/1/07	3:13	354.90	8/1/07	4:06	354.51

TABLE D6C.2-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-5, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/1/07	4:07	354.57	8/1/07	5:00	354.57	8/1/07	5:53	354.74	8/1/07	6:46	354.74	8/1/07	7:39	354.74
8/1/07	4:08	354.57	8/1/07	5:01	354.57	8/1/07	5:54	354.74	8/1/07	6:47	354.74	8/1/07	7:40	354.68
8/1/07	4:09	354.57	8/1/07	5:02	354.57	8/1/07	5:55	354.74	8/1/07	6:48	354.74	8/1/07	7:41	354.62
8/1/07	4:10	354.57	8/1/07	5:03	354.57	8/1/07	5:56	354.74	8/1/07	6:49	354.74	8/1/07	7:42	354.68
8/1/07	4:11	354.57	8/1/07	5:04	354.57	8/1/07	5:57	354.74	8/1/07	6:50	354.74	8/1/07	7:43	354.62
8/1/07	4:12	354.51	8/1/07	5:05	354.57	8/1/07	5:58	354.74	8/1/07	6:51	354.74	8/1/07	7:44	354.68
8/1/07	4:13	354.57	8/1/07	5:06	354.57	8/1/07	5:59	354.74	8/1/07	6:52	354.74	8/1/07	7:45	354.74
8/1/07	4:14	354.51	8/1/07	5:07	354.51	8/1/07	6:00	354.74	8/1/07	6:53	354.74	8/1/07	7:46	354.68
8/1/07	4:15	354.57	8/1/07	5:08	354.51	8/1/07	6:01	354.68	8/1/07	6:54	354.68	8/1/07	7:47	354.74
8/1/07	4:16	354.51	8/1/07	5:09	354.51	8/1/07	6:02	354.74	8/1/07	6:55	354.74	8/1/07	7:48	354.68
8/1/07	4:17	354.57	8/1/07	5:10	354.57	8/1/07	6:03	354.74	8/1/07	6:56	354.68	8/1/07	7:49	354.68
8/1/07	4:18	354.57	8/1/07	5:11	354.51	8/1/07	6:04	354.79	8/1/07	6:57	354.74	8/1/07	7:50	354.68
8/1/07	4:19	354.51	8/1/07	5:12	354.57	8/1/07	6:05	354.74	8/1/07	6:58	354.68	8/1/07	7:51	354.62
8/1/07	4:20	354.57	8/1/07	5:13	354.57	8/1/07	6:06	354.79	8/1/07	6:59	354.74	8/1/07	7:52	354.68
8/1/07	4:21	354.51	8/1/07	5:14	354.62	8/1/07	6:07	354.74	8/1/07	7:00	354.74	8/1/07	7:53	354.68
8/1/07	4:22	354.51	8/1/07	5:15	354.57	8/1/07	6:08	354.74	8/1/07	7:01	354.74	8/1/07	7:54	354.62
8/1/07	4:23	354.57	8/1/07	5:16	354.62	8/1/07	6:09	354.74	8/1/07	7:02	354.74	8/1/07	7:55	354.62
8/1/07	4:24	354.57	8/1/07	5:17	354.57	8/1/07	6:10	354.74	8/1/07	7:03	354.74	8/1/07	7:56	354.68
8/1/07	4:25	354.57	8/1/07	5:18	354.68	8/1/07	6:11	354.74	8/1/07	7:04	354.74	8/1/07	7:57	354.68
8/1/07	4:26	354.57	8/1/07	5:19	354.62	8/1/07	6:12	354.74	8/1/07	7:05	354.74	8/1/07	7:58	354.62
8/1/07	4:27	354.57	8/1/07	5:20	354.62	8/1/07	6:13	354.74	8/1/07	7:06	354.74	8/1/07	7:59	354.62
8/1/07	4:28	354.57	8/1/07	5:21	354.68	8/1/07	6:14	354.74	8/1/07	7:07	354.74	8/1/07	8:00	354.68
8/1/07	4:29	354.57	8/1/07	5:22	354.62	8/1/07	6:15	354.74	8/1/07	7:08	354.74	8/1/07	8:01	354.62
8/1/07	4:30	354.62	8/1/07	5:23	354.68	8/1/07	6:16	354.74	8/1/07	7:09	354.74	8/1/07	8:02	354.68
8/1/07	4:31	354.57	8/1/07	5:24	354.68	8/1/07	6:17	354.68	8/1/07	7:10	354.68	8/1/07	8:03	354.62
8/1/07	4:32	354.57	8/1/07	5:25	354.74	8/1/07	6:18	354.74	8/1/07	7:11	354.74	8/1/07	8:04	354.62
8/1/07	4:33	354.62	8/1/07	5:26	354.62	8/1/07	6:19	354.74	8/1/07	7:12	354.68	8/1/07	8:05	354.74
8/1/07	4:34	354.57	8/1/07	5:27	354.68	8/1/07	6:20	354.74	8/1/07	7:13	354.74	8/1/07	8:06	354.62
8/1/07	4:35	354.68	8/1/07	5:28	354.68	8/1/07	6:21	354.74	8/1/07	7:14	354.68	8/1/07	8:07	354.62
8/1/07	4:36	354.62	8/1/07	5:29	354.68	8/1/07	6:22	354.74	8/1/07	7:15	354.74	8/1/07	8:08	354.62
8/1/07	4:37	354.57	8/1/07	5:30	354.68	8/1/07	6:23	354.74	8/1/07	7:16	354.68	8/1/07	8:09	354.62
8/1/07	4:38	354.57	8/1/07	5:31	354.74	8/1/07	6:24	354.74	8/1/07	7:17	354.74	8/1/07	8:10	354.62
8/1/07	4:39	354.57	8/1/07	5:32	354.68	8/1/07	6:25	354.74	8/1/07	7:18	354.68	8/1/07	8:11	354.62
8/1/07	4:40	354.62	8/1/07	5:33	354.74	8/1/07	6:26	354.68	8/1/07	7:19	354.68	8/1/07	8:12	354.62
8/1/07	4:41	354.57	8/1/07	5:34	354.68	8/1/07	6:27	354.74	8/1/07	7:20	354.68	8/1/07	8:13	354.62
8/1/07	4:42	354.57	8/1/07	5:35	354.62	8/1/07	6:28	354.74	8/1/07	7:21	354.74	8/1/07	8:14	354.62
8/1/07	4:43	354.57	8/1/07	5:36	354.68	8/1/07	6:29	354.74	8/1/07	7:22	354.68	8/1/07	8:15	354.68
8/1/07	4:44	354.57	8/1/07	5:37	354.68	8/1/07	6:30	354.74	8/1/07	7:23	354.68	8/1/07	8:16	354.62
8/1/07	4:45	354.62	8/1/07	5:38	354.74	8/1/07	6:31	354.79	8/1/07	7:24	354.74	8/1/07	8:17	354.68
8/1/07	4:46	354.62	8/1/07	5:39	354.68	8/1/07	6:32	354.74	8/1/07	7:25	354.68	8/1/07	8:18	354.62
8/1/07	4:47	354.62	8/1/07	5:40	354.74	8/1/07	6:33	354.74	8/1/07	7:26	354.74	8/1/07	8:19	354.62
8/1/07	4:48	354.57	8/1/07	5:41	354.74	8/1/07	6:34	354.68	8/1/07	7:27	354.74	8/1/07	8:20	354.68
8/1/07	4:49	354.57	8/1/07	5:42	354.74	8/1/07	6:35	354.74	8/1/07	7:28	354.68	8/1/07	8:21	354.68
8/1/07	4:50	354.57	8/1/07	5:43	354.74	8/1/07	6:36	354.74	8/1/07	7:29	354.68	8/1/07	8:22	354.62
8/1/07	4:51	354.57	8/1/07	5:44	354.68	8/1/07	6:37	354.74	8/1/07	7:30	354.68	8/1/07	8:23	354.68
8/1/07	4:52	354.62	8/1/07	5:45	354.74	8/1/07	6:38	354.68	8/1/07	7:31	354.68	8/1/07	8:24	354.62
8/1/07	4:53	354.62	8/1/07	5:46	354.68	8/1/07	6:39	354.68	8/1/07	7:32	354.68	8/1/07	8:25	354.62
8/1/07	4:54	354.57	8/1/07	5:47	354.74	8/1/07	6:40	354.74	8/1/07	7:33	354.68	8/1/07	8:26	354.62
8/1/07	4:55	354.62	8/1/07	5:48	354.74	8/1/07	6:41	354.68	8/1/07	7:34	354.68	8/1/07	8:27	354.57
8/1/07	4:56	354.62	8/1/07	5:49	354.74	8/1/07	6:42	354.74	8/1/07	7:35	354.68	8/1/07	8:28	354.68
8/1/07	4:57	354.62	8/1/07	5:50	354.74	8/1/07	6:43	354.74	8/1/07	7:36	354.68	8/1/07	8:29	354.62
8/1/07	4:58	354.62	8/1/07	5:51	354.68	8/1/07	6:44	354.68	8/1/07	7:37	354.74	8/1/07	8:30	354.57
8/1/07	4:59	354.57	8/1/07	5:52	354.79	8/1/07	6:45	354.68	8/1/07	7:38	354.68	8/1/07	8:31	354.62

TABLE D6C.2-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-5, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/1/07	8:32	354.62	8/1/07	9:25	354.51	8/1/07	10:18	354.51	8/1/07	11:11	354.57	8/1/07	16:01	354.94
8/1/07	8:33	354.62	8/1/07	9:26	354.51	8/1/07	10:19	354.51	8/1/07	11:12	354.62	8/1/07	17:01	354.94
8/1/07	8:34	354.62	8/1/07	9:27	354.51	8/1/07	10:20	354.51	8/1/07	11:13	354.57	8/1/07	18:01	354.72
8/1/07	8:35	354.62	8/1/07	9:28	354.51	8/1/07	10:21	354.51	8/1/07	11:14	354.57	8/1/07	19:01	354.94
8/1/07	8:36	354.62	8/1/07	9:29	354.51	8/1/07	10:22	354.51	8/1/07	11:15	354.57	8/1/07	20:01	354.83
8/1/07	8:37	354.62	8/1/07	9:30	354.51	8/1/07	10:23	354.51	8/1/07	11:16	354.57	8/1/07	21:01	354.83
8/1/07	8:38	354.62	8/1/07	9:31	354.51	8/1/07	10:24	354.46	8/1/07	11:17	354.57	8/1/07	22:01	354.94
8/1/07	8:39	354.62	8/1/07	9:32	354.51	8/1/07	10:25	354.46	8/1/07	11:18	354.57	8/1/07	23:01	354.94
8/1/07	8:40	354.62	8/1/07	9:33	354.51	8/1/07	10:26	354.51	8/1/07	11:19	354.57	8/2/07	0:01	354.94
8/1/07	8:41	354.62	8/1/07	9:34	354.51	8/1/07	10:27	354.46	8/1/07	11:20	354.57	8/2/07	1:01	354.94
8/1/07	8:42	354.62	8/1/07	9:35	354.46	8/1/07	10:28	354.51	8/1/07	11:21	354.57	8/2/07	2:01	355.05
8/1/07	8:43	354.62	8/1/07	9:36	354.46	8/1/07	10:29	354.51	8/1/07	11:22	354.57	8/2/07	3:01	355.05
8/1/07	8:44	354.62	8/1/07	9:37	354.51	8/1/07	10:30	354.51	8/1/07	11:23	354.57	8/2/07	4:01	355.05
8/1/07	8:45	354.62	8/1/07	9:38	354.46	8/1/07	10:31	354.46	8/1/07	11:24	354.62	8/2/07	5:01	355.05
8/1/07	8:46	354.57	8/1/07	9:39	354.46	8/1/07	10:32	354.51	8/1/07	11:25	354.57	8/2/07	6:01	355.05
8/1/07	8:47	354.62	8/1/07	9:40	354.46	8/1/07	10:33	354.51	8/1/07	11:26	354.57	8/2/07	7:01	355.05
8/1/07	8:48	354.62	8/1/07	9:41	354.46	8/1/07	10:34	354.51	8/1/07	11:27	354.57	8/2/07	8:01	355.16
8/1/07	8:49	354.68	8/1/07	9:42	354.51	8/1/07	10:35	354.57	8/1/07	11:28	354.57	8/2/07	9:01	355.16
8/1/07	8:50	354.68	8/1/07	9:43	354.51	8/1/07	10:36	354.51	8/1/07	11:29	354.62	8/2/07	10:01	355.05
8/1/07	8:51	354.68	8/1/07	9:44	354.51	8/1/07	10:37	354.51	8/1/07	11:30	354.62	8/2/07	11:01	357.94
8/1/07	8:52	354.68	8/1/07	9:45	354.46	8/1/07	10:38	354.51	8/1/07	11:31	354.57	8/2/07	12:01	358.05
8/1/07	8:53	354.68	8/1/07	9:46	354.46	8/1/07	10:39	354.51	8/1/07	11:32	354.62	8/2/07	13:01	357.94
8/1/07	8:54	354.62	8/1/07	9:47	354.46	8/1/07	10:40	354.51	8/1/07	11:33	354.62	8/2/07	14:01	357.16
8/1/07	8:55	354.68	8/1/07	9:48	354.51	8/1/07	10:41	354.51	8/1/07	11:34	354.62	8/2/07	15:01	356.83
8/1/07	8:56	354.68	8/1/07	9:49	354.46	8/1/07	10:42	354.51	8/1/07	11:35	354.62	8/2/07	16:01	356.72
8/1/07	8:57	354.68	8/1/07	9:50	354.46	8/1/07	10:43	354.46	8/1/07	11:36	354.62	8/2/07	17:01	356.72
8/1/07	8:58	354.62	8/1/07	9:51	354.46	8/1/07	10:44	354.51	8/1/07	11:37	354.57	8/2/07	18:01	356.61
8/1/07	8:59	354.62	8/1/07	9:52	354.46	8/1/07	10:45	354.51	8/1/07	11:38	354.57	8/2/07	19:01	356.38
8/1/07	9:00	354.62	8/1/07	9:53	354.51	8/1/07	10:46	354.51	8/1/07	11:39	354.62	8/2/07	20:01	356.38
8/1/07	9:01	354.62	8/1/07	9:54	354.46	8/1/07	10:47	354.57	8/1/07	11:40	354.62	8/2/07	21:01	356.38
8/1/07	9:02	354.57	8/1/07	9:55	354.57	8/1/07	10:48	354.51	8/1/07	11:41	354.62	8/2/07	22:01	356.50
8/1/07	9:03	354.57	8/1/07	9:56	354.46	8/1/07	10:49	354.57	8/1/07	11:42	354.57	8/2/07	23:01	356.50
8/1/07	9:04	354.57	8/1/07	9:57	354.51	8/1/07	10:50	354.57	8/1/07	11:43	354.57	8/3/07	0:01	356.50
8/1/07	9:05	354.57	8/1/07	9:58	354.46	8/1/07	10:51	354.57	8/1/07	11:44	354.62	8/3/07	1:01	356.50
8/1/07	9:06	354.57	8/1/07	9:59	354.46	8/1/07	10:52	354.51	8/1/07	11:45	354.57	8/3/07	2:01	356.61
8/1/07	9:07	354.57	8/1/07	10:00	354.51	8/1/07	10:53	354.57	8/1/07	11:46	354.57	8/3/07	3:01	356.27
8/1/07	9:08	354.57	8/1/07	10:01	354.51	8/1/07	10:54	354.57	8/1/07	11:47	354.62	8/3/07	4:01	356.50
8/1/07	9:09	354.57	8/1/07	10:02	354.46	8/1/07	10:55	354.57	8/1/07	11:48	354.62	8/3/07	5:01	356.50
8/1/07	9:10	354.57	8/1/07	10:03	354.51	8/1/07	10:56	354.57	8/1/07	11:49	354.62	8/3/07	6:01	356.05
8/1/07	9:11	354.57	8/1/07	10:04	354.46	8/1/07	10:57	354.57	8/1/07	11:50	354.62	8/3/07	7:01	356.50
8/1/07	9:12	354.57	8/1/07	10:05	354.51	8/1/07	10:58	354.57	8/1/07	11:51	354.62	8/3/07	8:01	356.50
8/1/07	9:13	354.51	8/1/07	10:06	354.46	8/1/07	10:59	354.57	8/1/07	11:52	354.68	8/3/07	9:01	356.27
8/1/07	9:14	354.51	8/1/07	10:07	354.51	8/1/07	11:00	354.57	8/1/07	11:53	354.57	8/3/07	10:01	356.16
8/1/07	9:15	354.57	8/1/07	10:08	354.46	8/1/07	11:01	354.57	8/1/07	11:54	354.62	8/3/07	11:01	356.27
8/1/07	9:16	354.51	8/1/07	10:09	354.51	8/1/07	11:02	354.57	8/1/07	11:55	354.62	8/3/07	12:01	356.27
8/1/07	9:17	354.57	8/1/07	10:10	354.51	8/1/07	11:03	354.51	8/1/07	11:56	354.57	8/3/07	13:01	356.38
8/1/07	9:18	354.51	8/1/07	10:11	354.46	8/1/07	11:04	354.57	8/1/07	11:57	354.62	8/3/07	14:01	356.38
8/1/07	9:19	354.62	8/1/07	10:12	354.46	8/1/07	11:05	354.57	8/1/07	11:58	354.62	8/3/07	15:01	356.27
8/1/07	9:20	354.51	8/1/07	10:13	354.46	8/1/07	11:06	354.62	8/1/07	11:59	354.62	8/3/07	16:01	356.61
8/1/07	9:21	354.51	8/1/07	10:14	354.46	8/1/07	11:07	354.57	8/1/07	12:00	354.57	8/3/07	17:01	356.50
8/1/07	9:22	354.51	8/1/07	10:15	354.51	8/1/07	11:08	354.57	8/1/07	13:01	354.61	8/3/07	18:01	356.61
8/1/07	9:23	354.51	8/1/07	10:16	354.51	8/1/07	11:09	354.57	8/1/07	14:01	354.72	8/3/07	19:01	356.61
8/1/07	9:24	354.51	8/1/07	10:17	354.57	8/1/07	11:10	354.57	8/1/07	15:01	354.72	8/3/07	20:01	356.72

TABLE D6C.2-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-5, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/3/07	21:01	356.72	8/6/07	2:01	318.82	8/8/07	7:01	318.48						
8/3/07	22:01	356.83	8/6/07	3:01	318.82	8/8/07	8:01	318.48						
8/3/07	23:01	356.83	8/6/07	4:01	318.82	8/8/07	9:01	318.48						
8/4/07	0:01	356.83	8/6/07	5:01	318.82	8/8/07	10:01	318.48						
8/4/07	1:01	356.38	8/6/07	6:01	318.82									
8/4/07	2:01	356.27	8/6/07	7:01	318.71									
8/4/07	3:01	356.27	8/6/07	8:01	318.71									
8/4/07	4:01	356.27	8/6/07	9:01	318.71									
8/4/07	5:01	356.38	8/6/07	10:01	318.71									
8/4/07	6:01	356.38	8/6/07	11:01	318.71									
8/4/07	7:01	356.38	8/6/07	12:01	318.71									
8/4/07	8:01	356.50	8/6/07	13:01	318.71									
8/4/07	9:01	356.61	8/6/07	14:01	318.71									
8/4/07	10:01	356.61	8/6/07	15:01	318.71									
8/4/07	11:01	356.61	8/6/07	16:01	318.71									
8/4/07	12:01	356.72	8/6/07	17:01	318.71									
8/4/07	13:01	356.72	8/6/07	18:01	318.60									
8/4/07	14:01	356.83	8/6/07	19:01	318.71									
8/4/07	15:01	356.94	8/6/07	20:01	318.60									
8/4/07	16:01	356.94	8/6/07	21:01	318.60									
8/4/07	17:01	356.94	8/6/07	22:01	318.60									
8/4/07	18:01	356.94	8/6/07	23:01	318.71									
8/4/07	19:01	357.05	8/7/07	0:01	318.60									
8/4/07	20:01	357.16	8/7/07	1:01	318.71									
8/4/07	21:01	357.16	8/7/07	2:01	318.71									
8/4/07	22:01	357.16	8/7/07	3:01	318.60									
8/4/07	23:01	357.27	8/7/07	4:01	318.71									
8/5/07	0:01	357.27	8/7/07	5:01	318.71									
8/5/07	1:01	357.27	8/7/07	6:01	318.60									
8/5/07	2:01	357.27	8/7/07	7:01	318.60									
8/5/07	3:01	357.38	8/7/07	8:01	318.71									
8/5/07	4:01	357.38	8/7/07	9:01	318.71									
8/5/07	5:01	357.61	8/7/07	10:01	318.60									
8/5/07	6:01	357.61	8/7/07	11:01	318.60									
8/5/07	7:01	357.61	8/7/07	12:01	318.60									
8/5/07	8:01	357.72	8/7/07	13:01	318.60									
8/5/07	9:01	357.72	8/7/07	14:01	318.71									
8/5/07	10:01	357.83	8/7/07	15:01	318.60									
8/5/07	11:01	322.71	8/7/07	16:01	318.71									
8/5/07	12:01	320.04	8/7/07	17:01	318.60									
8/5/07	13:01	319.37	8/7/07	18:01	318.60									
8/5/07	14:01	319.15	8/7/07	19:01	318.60									
8/5/07	15:01	319.04	8/7/07	20:01	318.60									
8/5/07	16:01	319.04	8/7/07	21:01	318.60									
8/5/07	17:01	318.93	8/7/07	22:01	318.60									
8/5/07	18:01	318.93	8/7/07	23:01	318.60									
8/5/07	19:01	318.93	8/8/07	0:01	318.60									
8/5/07	20:01	318.93	8/8/07	1:01	318.60									
8/5/07	21:01	318.71	8/8/07	2:01	318.48									
8/5/07	22:01	318.82	8/8/07	3:01	318.48									
8/5/07	23:01	318.71	8/8/07	4:01	318.48									
8/6/07	0:01	318.82	8/8/07	5:01	318.48									
8/6/07	1:01	318.82	8/8/07	6:01	318.48									

TABLE D6C.2-3. AQUIFER-TEST DATA FOR OBSERVATION WELL HANK 1.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/31/07	13:52:00	-63	--	--	355.89	0.00	--	--	--	--
	14:55:00	PUMP ON								
	16:30:00	95	--	--	355.90	0.01	--	--	--	--
08/02/07	11:00:00	2645	--	--	356.07	0.18	--	--	--	--
	13:05:00	2770	--	--	356.10	0.21	--	--	--	--
	17:14:00	3019	--	--	355.88	-0.01	--	--	--	--
08/05/07	10:21:00	PUMP OFF								
08/08/07	17:04:00	11649	4723	2.5	355.76	-0.13	--	--	--	--

TABLE D6C.2-4. TRANSDUCER DATA FOR OBSERVATION WELL HANK 1.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/2/07	12:55	355.66	8/2/07	17:20	356.10	8/2/07	21:45	356.10	8/3/07	2:10	356.10	8/3/07	6:35	356.03
8/2/07	13:00	355.96	8/2/07	17:25	356.10	8/2/07	21:50	356.10	8/3/07	2:15	356.10	8/3/07	6:40	356.03
8/2/07	13:05	356.10	8/2/07	17:30	356.10	8/2/07	21:55	356.10	8/3/07	2:20	356.10	8/3/07	6:45	356.03
8/2/07	13:10	356.17	8/2/07	17:35	356.10	8/2/07	22:00	356.10	8/3/07	2:25	356.10	8/3/07	6:50	356.03
8/2/07	13:15	356.17	8/2/07	17:40	356.10	8/2/07	22:05	356.10	8/3/07	2:30	356.06	8/3/07	6:55	356.03
8/2/07	13:20	356.17	8/2/07	17:45	356.10	8/2/07	22:10	356.10	8/3/07	2:35	356.10	8/3/07	7:00	356.03
8/2/07	13:25	356.17	8/2/07	17:50	356.10	8/2/07	22:15	356.10	8/3/07	2:40	356.10	8/3/07	7:05	356.03
8/2/07	13:30	356.17	8/2/07	17:55	356.10	8/2/07	22:20	356.10	8/3/07	2:45	356.06	8/3/07	7:10	356.03
8/2/07	13:35	356.17	8/2/07	18:00	356.10	8/2/07	22:25	356.10	8/3/07	2:50	356.06	8/3/07	7:15	356.03
8/2/07	13:40	356.17	8/2/07	18:05	356.06	8/2/07	22:30	356.10	8/3/07	2:55	356.06	8/3/07	7:20	356.03
8/2/07	13:45	356.17	8/2/07	18:10	356.10	8/2/07	22:35	356.10	8/3/07	3:00	356.10	8/3/07	7:25	356.03
8/2/07	13:50	356.17	8/2/07	18:15	356.06	8/2/07	22:40	356.10	8/3/07	3:05	356.10	8/3/07	7:30	356.03
8/2/07	13:55	356.17	8/2/07	18:20	356.06	8/2/07	22:45	356.10	8/3/07	3:10	356.06	8/3/07	7:35	356.03
8/2/07	14:00	356.17	8/2/07	18:25	356.10	8/2/07	22:50	356.10	8/3/07	3:15	356.06	8/3/07	7:40	355.99
8/2/07	14:05	356.17	8/2/07	18:30	356.06	8/2/07	22:55	356.10	8/3/07	3:20	356.06	8/3/07	7:45	356.03
8/2/07	14:10	356.17	8/2/07	18:35	356.10	8/2/07	23:00	356.10	8/3/07	3:25	356.10	8/3/07	7:50	356.03
8/2/07	14:15	356.17	8/2/07	18:40	356.06	8/2/07	23:05	356.10	8/3/07	3:30	356.03	8/3/07	7:55	356.03
8/2/07	14:20	356.17	8/2/07	18:45	356.06	8/2/07	23:10	356.10	8/3/07	3:35	356.06	8/3/07	8:00	356.03
8/2/07	14:25	356.17	8/2/07	18:50	356.10	8/2/07	23:15	356.10	8/3/07	3:40	356.06	8/3/07	8:05	355.99
8/2/07	14:30	356.17	8/2/07	18:55	356.10	8/2/07	23:20	356.14	8/3/07	3:45	356.03	8/3/07	8:10	356.03
8/2/07	14:35	356.17	8/2/07	19:00	356.06	8/2/07	23:25	356.10	8/3/07	3:50	356.06	8/3/07	8:15	356.03
8/2/07	14:40	356.17	8/2/07	19:05	356.10	8/2/07	23:30	356.14	8/3/07	3:55	356.06	8/3/07	8:20	355.99
8/2/07	14:45	356.17	8/2/07	19:10	356.10	8/2/07	23:35	356.14	8/3/07	4:00	356.06	8/3/07	8:25	356.03
8/2/07	14:50	356.17	8/2/07	19:15	356.10	8/2/07	23:40	356.14	8/3/07	4:05	356.06	8/3/07	8:30	355.99
8/2/07	14:55	356.17	8/2/07	19:20	356.06	8/2/07	23:45	356.10	8/3/07	4:10	356.03	8/3/07	8:35	355.99
8/2/07	15:00	356.14	8/2/07	19:25	356.10	8/2/07	23:50	356.10	8/3/07	4:15	356.06	8/3/07	8:40	356.03
8/2/07	15:05	356.17	8/2/07	19:30	356.10	8/2/07	23:55	356.10	8/3/07	4:20	356.06	8/3/07	8:45	356.03
8/2/07	15:10	356.17	8/2/07	19:35	356.10	8/3/07	0:00	356.10	8/3/07	4:25	356.03	8/3/07	8:50	355.99
8/2/07	15:15	356.14	8/2/07	19:40	356.06	8/3/07	0:05	356.14	8/3/07	4:30	356.03	8/3/07	8:55	356.03
8/2/07	15:20	356.17	8/2/07	19:45	356.10	8/3/07	0:10	356.14	8/3/07	4:35	356.06	8/3/07	9:00	356.03
8/2/07	15:25	356.14	8/2/07	19:50	356.06	8/3/07	0:15	356.14	8/3/07	4:40	356.06	8/3/07	9:05	355.99
8/2/07	15:30	356.14	8/2/07	19:55	356.10	8/3/07	0:20	356.10	8/3/07	4:45	356.03	8/3/07	9:10	356.03
8/2/07	15:35	356.17	8/2/07	20:00	356.06	8/3/07	0:25	356.10	8/3/07	4:50	356.06	8/3/07	9:15	356.03
8/2/07	15:40	356.14	8/2/07	20:05	356.06	8/3/07	0:30	356.10	8/3/07	4:55	356.03	8/3/07	9:20	355.99
8/2/07	15:45	356.14	8/2/07	20:10	356.10	8/3/07	0:35	356.10	8/3/07	5:00	356.03	8/3/07	9:25	355.99
8/2/07	15:50	356.14	8/2/07	20:15	356.10	8/3/07	0:40	356.10	8/3/07	5:05	356.03	8/3/07	9:30	356.03
8/2/07	15:55	356.10	8/2/07	20:20	356.10	8/3/07	0:45	356.10	8/3/07	5:10	356.06	8/3/07	9:35	356.03
8/2/07	16:00	356.10	8/2/07	20:25	356.10	8/3/07	0:50	356.10	8/3/07	5:15	356.03	8/3/07	9:40	356.03
8/2/07	16:05	356.10	8/2/07	20:30	356.10	8/3/07	0:55	356.10	8/3/07	5:20	356.06	8/3/07	9:45	355.99
8/2/07	16:10	356.14	8/2/07	20:35	356.10	8/3/07	1:00	356.10	8/3/07	5:25	356.03	8/3/07	9:50	355.99
8/2/07	16:15	356.14	8/2/07	20:40	356.10	8/3/07	1:05	356.14	8/3/07	5:30	356.03	8/3/07	9:55	355.99
8/2/07	16:20	356.14	8/2/07	20:45	356.10	8/3/07	1:10	356.10	8/3/07	5:35	356.06	8/3/07	10:00	355.99
8/2/07	16:25	356.10	8/2/07	20:50	356.10	8/3/07	1:15	356.10	8/3/07	5:40	356.06	8/3/07	10:05	356.03
8/2/07	16:30	356.10	8/2/07	20:55	356.10	8/3/07	1:20	356.10	8/3/07	5:45	356.06	8/3/07	10:10	355.99
8/2/07	16:35	356.10	8/2/07	21:00	356.10	8/3/07	1:25	356.10	8/3/07	5:50	356.06	8/3/07	10:15	355.99
8/2/07	16:40	356.10	8/2/07	21:05	356.10	8/3/07	1:30	356.10	8/3/07	5:55	356.03	8/3/07	10:20	356.03
8/2/07	16:45	356.14	8/2/07	21:10	356.10	8/3/07	1:35	356.10	8/3/07	6:00	356.03	8/3/07	10:25	355.99
8/2/07	16:50	356.10	8/2/07	21:15	356.14	8/3/07	1:40	356.10	8/3/07	6:05	356.03	8/3/07	10:30	355.99
8/2/07	16:55	356.10	8/2/07	21:20	356.10	8/3/07	1:45	356.10	8/3/07	6:10	356.03	8/3/07	10:35	355.99
8/2/07	17:00	356.14	8/2/07	21:25	356.14	8/3/07	1:50	356.10	8/3/07	6:15	356.03	8/3/07	10:40	356.03
8/2/07	17:05	356.14	8/2/07	21:30	356.10	8/3/07	1:55	356.10	8/3/07	6:20	356.06	8/3/07	10:45	356.03
8/2/07	17:10	356.14	8/2/07	21:35	356.10	8/3/07	2:00	356.10	8/3/07	6:25	356.03	8/3/07	10:50	355.99
8/2/07	17:15	356.10	8/2/07	21:40	356.10	8/3/07	2:05	356.10	8/3/07	6:30	356.03	8/3/07	10:55	356.03

TABLE D6C.2-4. TRANSDUCER DATA FOR OBSERVATION WELL HANK 1, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/3/07	11:00	356.03	8/3/07	15:25	355.96	8/3/07	19:50	355.96	8/4/07	0:15	355.99	8/4/07	4:40	355.96
8/3/07	11:05	356.03	8/3/07	15:30	355.96	8/3/07	19:55	355.92	8/4/07	0:20	355.99	8/4/07	4:45	355.96
8/3/07	11:10	355.99	8/3/07	15:35	355.99	8/3/07	20:00	355.96	8/4/07	0:25	356.03	8/4/07	4:50	355.96
8/3/07	11:15	355.99	8/3/07	15:40	355.99	8/3/07	20:05	355.92	8/4/07	0:30	356.03	8/4/07	4:55	355.96
8/3/07	11:20	355.99	8/3/07	15:45	355.96	8/3/07	20:10	355.96	8/4/07	0:35	356.03	8/4/07	5:00	355.99
8/3/07	11:25	356.03	8/3/07	15:50	355.96	8/3/07	20:15	355.96	8/4/07	0:40	355.99	8/4/07	5:05	355.99
8/3/07	11:30	356.03	8/3/07	15:55	355.96	8/3/07	20:20	355.96	8/4/07	0:45	356.03	8/4/07	5:10	355.96
8/3/07	11:35	355.96	8/3/07	16:00	355.96	8/3/07	20:25	355.92	8/4/07	0:50	355.99	8/4/07	5:15	355.96
8/3/07	11:40	355.99	8/3/07	16:05	355.96	8/3/07	20:30	355.96	8/4/07	0:55	355.99	8/4/07	5:20	355.99
8/3/07	11:45	355.99	8/3/07	16:10	355.96	8/3/07	20:35	355.96	8/4/07	1:00	356.03	8/4/07	5:25	355.96
8/3/07	11:50	355.99	8/3/07	16:15	355.96	8/3/07	20:40	355.96	8/4/07	1:05	355.99	8/4/07	5:30	355.96
8/3/07	11:55	355.99	8/3/07	16:20	355.96	8/3/07	20:45	355.96	8/4/07	1:10	356.03	8/4/07	5:35	355.96
8/3/07	12:00	355.99	8/3/07	16:25	355.92	8/3/07	20:50	355.96	8/4/07	1:15	355.99	8/4/07	5:40	355.99
8/3/07	12:05	355.96	8/3/07	16:30	355.96	8/3/07	20:55	355.96	8/4/07	1:20	356.03	8/4/07	5:45	355.96
8/3/07	12:10	355.99	8/3/07	16:35	355.92	8/3/07	21:00	355.96	8/4/07	1:25	356.03	8/4/07	5:50	355.96
8/3/07	12:15	355.96	8/3/07	16:40	355.96	8/3/07	21:05	355.96	8/4/07	1:30	355.99	8/4/07	5:55	355.96
8/3/07	12:20	355.99	8/3/07	16:45	355.96	8/3/07	21:10	355.96	8/4/07	1:35	355.99	8/4/07	6:00	356.03
8/3/07	12:25	356.03	8/3/07	16:50	355.92	8/3/07	21:15	355.96	8/4/07	1:40	355.99	8/4/07	6:05	355.99
8/3/07	12:30	355.99	8/3/07	16:55	355.92	8/3/07	21:20	355.96	8/4/07	1:45	355.96	8/4/07	6:10	355.96
8/3/07	12:35	355.96	8/3/07	17:00	355.96	8/3/07	21:25	355.96	8/4/07	1:50	355.99	8/4/07	6:15	355.96
8/3/07	12:40	355.99	8/3/07	17:05	355.92	8/3/07	21:30	355.96	8/4/07	1:55	356.03	8/4/07	6:20	355.99
8/3/07	12:45	356.03	8/3/07	17:10	355.96	8/3/07	21:35	355.96	8/4/07	2:00	355.99	8/4/07	6:25	355.99
8/3/07	12:50	355.99	8/3/07	17:15	355.96	8/3/07	21:40	355.96	8/4/07	2:05	355.99	8/4/07	6:30	355.99
8/3/07	12:55	355.99	8/3/07	17:20	355.96	8/3/07	21:45	355.96	8/4/07	2:10	355.99	8/4/07	6:35	355.99
8/3/07	13:00	355.99	8/3/07	17:25	355.92	8/3/07	21:50	355.96	8/4/07	2:15	355.99	8/4/07	6:40	355.99
8/3/07	13:05	355.96	8/3/07	17:30	355.96	8/3/07	21:55	355.99	8/4/07	2:20	356.03	8/4/07	6:45	355.99
8/3/07	13:10	355.99	8/3/07	17:35	355.92	8/3/07	22:00	355.99	8/4/07	2:25	356.03	8/4/07	6:50	355.99
8/3/07	13:15	355.96	8/3/07	17:40	355.96	8/3/07	22:05	355.96	8/4/07	2:30	355.99	8/4/07	6:55	356.03
8/3/07	13:20	355.96	8/3/07	17:45	355.96	8/3/07	22:10	355.99	8/4/07	2:35	355.96	8/4/07	7:00	356.03
8/3/07	13:25	355.96	8/3/07	17:50	355.92	8/3/07	22:15	355.96	8/4/07	2:40	355.96	8/4/07	7:05	355.99
8/3/07	13:30	355.99	8/3/07	17:55	355.92	8/3/07	22:20	355.99	8/4/07	2:45	355.96	8/4/07	7:10	355.99
8/3/07	13:35	355.96	8/3/07	18:00	355.92	8/3/07	22:25	355.96	8/4/07	2:50	355.96	8/4/07	7:15	355.99
8/3/07	13:40	355.96	8/3/07	18:05	355.92	8/3/07	22:30	355.99	8/4/07	2:55	355.99	8/4/07	7:20	355.99
8/3/07	13:45	355.96	8/3/07	18:10	355.92	8/3/07	22:35	355.99	8/4/07	3:00	355.96	8/4/07	7:25	355.99
8/3/07	13:50	355.96	8/3/07	18:15	355.96	8/3/07	22:40	355.96	8/4/07	3:05	356.03	8/4/07	7:30	355.99
8/3/07	13:55	355.96	8/3/07	18:20	355.96	8/3/07	22:45	355.99	8/4/07	3:10	355.99	8/4/07	7:35	356.03
8/3/07	14:00	355.96	8/3/07	18:25	355.92	8/3/07	22:50	355.96	8/4/07	3:15	355.99	8/4/07	7:40	355.99
8/3/07	14:05	355.96	8/3/07	18:30	355.92	8/3/07	22:55	356.03	8/4/07	3:20	355.99	8/4/07	7:45	355.99
8/3/07	14:10	355.99	8/3/07	18:35	355.92	8/3/07	23:00	355.99	8/4/07	3:25	355.96	8/4/07	7:50	355.99
8/3/07	14:15	355.99	8/3/07	18:40	355.96	8/3/07	23:05	355.96	8/4/07	3:30	355.96	8/4/07	7:55	355.99
8/3/07	14:20	355.96	8/3/07	18:45	355.96	8/3/07	23:10	355.96	8/4/07	3:35	355.96	8/4/07	8:00	355.99
8/3/07	14:25	355.96	8/3/07	18:50	355.92	8/3/07	23:15	355.99	8/4/07	3:40	355.99	8/4/07	8:05	356.03
8/3/07	14:30	355.99	8/3/07	18:55	355.92	8/3/07	23:20	355.99	8/4/07	3:45	355.96	8/4/07	8:10	355.99
8/3/07	14:35	355.99	8/3/07	19:00	355.92	8/3/07	23:25	355.99	8/4/07	3:50	355.99	8/4/07	8:15	356.03
8/3/07	14:40	355.99	8/3/07	19:05	355.96	8/3/07	23:30	356.03	8/4/07	3:55	355.96	8/4/07	8:20	355.99
8/3/07	14:45	355.96	8/3/07	19:10	355.92	8/3/07	23:35	355.96	8/4/07	4:00	355.96	8/4/07	8:25	355.99
8/3/07	14:50	355.96	8/3/07	19:15	355.96	8/3/07	23:40	356.03	8/4/07	4:05	356.03	8/4/07	8:30	355.99
8/3/07	14:55	355.99	8/3/07	19:20	355.92	8/3/07	23:45	355.96	8/4/07	4:10	355.96	8/4/07	8:35	355.99
8/3/07	15:00	355.96	8/3/07	19:25	355.96	8/3/07	23:50	355.99	8/4/07	4:15	355.96	8/4/07	8:40	356.03
8/3/07	15:05	355.99	8/3/07	19:30	355.96	8/3/07	23:55	355.99	8/4/07	4:20	355.96	8/4/07	8:45	355.99
8/3/07	15:10	355.96	8/3/07	19:35	355.96	8/4/07	0:00	355.99	8/4/07	4:25	355.96	8/4/07	8:50	355.99
8/3/07	15:15	355.99	8/3/07	19:40	355.96	8/4/07	0:05	355.99	8/4/07	4:30	355.96	8/4/07	8:55	355.99
8/3/07	15:20	355.99	8/3/07	19:45	355.92	8/4/07	0:10	356.03	8/4/07	4:35	355.99	8/4/07	9:00	355.99

TABLE D6C.2-4. TRANSDUCER DATA FOR OBSERVATION WELL HANK 1, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/4/07	9:05	356.03												
8/4/07	9:10	355.99												
8/4/07	9:15	355.99												
8/4/07	9:20	355.99												
8/4/07	9:25	356.03												
8/4/07	9:30	356.03												
8/4/07	9:35	356.03												
8/4/07	9:40	355.99												
8/4/07	9:45	355.99												
8/4/07	9:50	355.99												
8/4/07	9:55	355.99												
8/4/07	10:00	355.99												
~~8/4/07~~	~~10:05~~	~~372.90~~												

TABLE D6C.2-5. AQUIFER-TEST DATA FOR OBSERVATION WELL BR-G.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/31/07	14:26:00	-29	--	--	149.25	0.43	--	--	--	--
	14:39:00	-16	--	--	148.82	0.00	--	--	--	--
	14:55:00	PUMP ON								
	16:44:00	109	--	--	148.86	0.04	--	--	--	--
08/02/07	10:51:00	2636	--	--	149.08	0.26	--	--	--	--
	17:28:00	3033	--	--	149.01	0.19	--	--	--	--
08/05/07	10:21:00	PUMP OFF								
08/08/07	13:35:00	11440	4514	2.5	149.11	0.29	--	--	--	--

TABLE D6C.2-6. TRANSDUCER DATA FOR OBSERVATION WELL BR-G.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/31/07	14:49	148.91	7/31/07	19:14	148.86	7/31/07	23:39	148.91	8/1/07	4:04	148.93	8/1/07	8:29	149.02
7/31/07	14:54	148.91	7/31/07	19:19	148.86	7/31/07	23:44	148.91	8/1/07	4:09	148.93	8/1/07	8:34	149.01
7/31/07	14:59	148.91	7/31/07	19:24	148.86	7/31/07	23:49	148.91	8/1/07	4:14	148.94	8/1/07	8:39	149.01
7/31/07	15:04	148.91	7/31/07	19:29	148.86	7/31/07	23:54	148.91	8/1/07	4:19	148.94	8/1/07	8:44	149.01
7/31/07	15:09	148.91	7/31/07	19:34	148.86	7/31/07	23:59	148.89	8/1/07	4:24	148.93	8/1/07	8:49	149.01
7/31/07	15:14	148.91	7/31/07	19:39	148.86	8/1/07	0:04	148.91	8/1/07	4:29	148.94	8/1/07	8:54	149.02
7/31/07	15:19	148.91	7/31/07	19:44	148.86	8/1/07	0:09	148.91	8/1/07	4:34	148.93	8/1/07	8:59	149.02
7/31/07	15:24	148.91	7/31/07	19:49	148.86	8/1/07	0:14	148.91	8/1/07	4:39	148.93	8/1/07	9:04	149.04
7/31/07	15:29	148.91	7/31/07	19:54	148.86	8/1/07	0:19	148.91	8/1/07	4:44	148.93	8/1/07	9:09	149.04
7/31/07	15:34	148.91	7/31/07	19:59	148.86	8/1/07	0:24	148.91	8/1/07	4:49	148.93	8/1/07	9:14	149.06
7/31/07	15:39	148.91	7/31/07	20:04	148.88	8/1/07	0:29	148.93	8/1/07	4:54	148.91	8/1/07	9:19	149.06
7/31/07	15:44	148.91	7/31/07	20:09	148.88	8/1/07	0:34	148.93	8/1/07	4:59	148.93	8/1/07	9:24	149.06
7/31/07	15:49	148.91	7/31/07	20:14	148.88	8/1/07	0:39	148.93	8/1/07	5:04	148.93	8/1/07	9:29	149.04
7/31/07	15:54	148.91	7/31/07	20:19	148.88	8/1/07	0:44	148.91	8/1/07	5:09	148.93	8/1/07	9:34	149.06
7/31/07	15:59	148.91	7/31/07	20:24	148.89	8/1/07	0:49	148.91	8/1/07	5:14	148.94	8/1/07	9:39	149.06
7/31/07	16:04	148.86	7/31/07	20:29	148.89	8/1/07	0:54	148.93	8/1/07	5:19	148.94	8/1/07	9:44	149.04
7/31/07	16:09	148.86	7/31/07	20:34	148.88	8/1/07	0:59	148.91	8/1/07	5:24	148.94	8/1/07	9:49	149.06
7/31/07	16:14	148.86	7/31/07	20:39	148.88	8/1/07	1:04	148.93	8/1/07	5:29	148.94	8/1/07	9:54	149.06
7/31/07	16:19	148.86	7/31/07	20:44	148.89	8/1/07	1:09	148.93	8/1/07	5:34	148.94	8/1/07	9:59	149.06
7/31/07	16:24	148.86	7/31/07	20:49	148.89	8/1/07	1:14	148.93	8/1/07	5:39	148.94	8/1/07	10:04	149.09
7/31/07	16:29	148.86	7/31/07	20:54	148.88	8/1/07	1:19	148.93	8/1/07	5:44	148.94	8/1/07	10:09	149.07
7/31/07	16:34	148.86	7/31/07	20:59	148.88	8/1/07	1:24	148.93	8/1/07	5:49	148.94	8/1/07	10:14	149.09
7/31/07	16:39	148.86	7/31/07	21:04	148.88	8/1/07	1:29	148.93	8/1/07	5:54	148.94	8/1/07	10:19	149.07
7/31/07	16:44	148.86	7/31/07	21:09	148.88	8/1/07	1:34	148.93	8/1/07	5:59	148.94	8/1/07	10:24	149.07
7/31/07	16:49	148.86	7/31/07	21:14	148.88	8/1/07	1:39	148.93	8/1/07	6:04	148.96	8/1/07	10:29	149.07
7/31/07	16:54	148.86	7/31/07	21:19	148.88	8/1/07	1:44	148.93	8/1/07	6:09	148.96	8/1/07	10:34	149.07
7/31/07	16:59	148.86	7/31/07	21:24	148.86	8/1/07	1:49	148.93	8/1/07	6:14	148.96	8/1/07	10:39	149.09
7/31/07	17:04	148.86	7/31/07	21:29	148.88	8/1/07	1:54	148.93	8/1/07	6:19	148.96	8/1/07	10:44	149.09
7/31/07	17:09	148.86	7/31/07	21:34	148.88	8/1/07	1:59	148.93	8/1/07	6:24	148.96	8/1/07	10:49	149.09
7/31/07	17:14	148.86	7/31/07	21:39	148.86	8/1/07	2:04	148.93	8/1/07	6:29	148.96	8/1/07	10:54	149.09
7/31/07	17:19	148.86	7/31/07	21:44	148.86	8/1/07	2:09	148.93	8/1/07	6:34	148.96	8/1/07	10:59	149.09
7/31/07	17:24	148.86	7/31/07	21:49	148.86	8/1/07	2:14	148.93	8/1/07	6:39	148.96	8/1/07	11:04	149.09
7/31/07	17:29	148.86	7/31/07	21:54	148.88	8/1/07	2:19	148.93	8/1/07	6:44	148.96	8/1/07	11:09	149.09
7/31/07	17:34	148.86	7/31/07	21:59	148.88	8/1/07	2:24	148.93	8/1/07	6:49	148.96	8/1/07	11:14	149.09
7/31/07	17:39	148.86	7/31/07	22:04	148.88	8/1/07	2:29	148.93	8/1/07	6:54	148.96	8/1/07	11:19	149.09
7/31/07	17:44	148.86	7/31/07	22:09	148.88	8/1/07	2:34	148.93	8/1/07	6:59	148.96	8/1/07	11:24	149.09
7/31/07	17:49	148.86	7/31/07	22:14	148.89	8/1/07	2:39	148.93	8/1/07	7:04	148.98	8/1/07	11:29	149.09
7/31/07	17:54	148.86	7/31/07	22:19	148.89	8/1/07	2:44	148.93	8/1/07	7:09	148.98	8/1/07	11:34	149.09
7/31/07	17:59	148.86	7/31/07	22:24	148.88	8/1/07	2:49	148.93	8/1/07	7:14	148.98	8/1/07	11:39	149.09
7/31/07	18:04	148.86	7/31/07	22:29	148.89	8/1/07	2:54	148.93	8/1/07	7:19	148.98	8/1/07	11:44	149.11
7/31/07	18:09	148.86	7/31/07	22:34	148.89	8/1/07	2:59	148.93	8/1/07	7:24	148.96	8/1/07	11:49	149.09
7/31/07	18:14	148.86	7/31/07	22:39	148.89	8/1/07	3:04	148.93	8/1/07	7:29	148.98	8/1/07	11:54	149.09
7/31/07	18:19	148.86	7/31/07	22:44	148.89	8/1/07	3:09	148.93	8/1/07	7:34	148.96	8/1/07	11:59	149.11
7/31/07	18:24	148.86	7/31/07	22:49	148.89	8/1/07	3:14	148.93	8/1/07	7:39	148.96	8/1/07	12:04	149.09
7/31/07	18:29	148.86	7/31/07	22:54	148.88	8/1/07	3:19	148.93	8/1/07	7:44	148.96	8/1/07	12:09	149.09
7/31/07	18:34	148.86	7/31/07	22:59	148.89	8/1/07	3:24	148.91	8/1/07	7:49	148.96	8/1/07	12:14	149.09
7/31/07	18:39	148.86	7/31/07	23:04	148.91	8/1/07	3:29	148.93	8/1/07	7:54	148.96	8/1/07	12:19	149.09
7/31/07	18:44	148.84	7/31/07	23:09	148.91	8/1/07	3:34	148.91	8/1/07	7:59	148.96	8/1/07	12:24	149.09
7/31/07	18:49	148.86	7/31/07	23:14	148.91	8/1/07	3:39	148.93	8/1/07	8:04	149.01	8/1/07	12:29	149.09
7/31/07	18:54	148.86	7/31/07	23:19	148.91	8/1/07	3:44	148.91	8/1/07	8:09	149.01	8/1/07	12:34	149.09
7/31/07	18:59	148.86	7/31/07	23:24	148.91	8/1/07	3:49	148.93	8/1/07	8:14	149.01	8/1/07	12:39	149.09
7/31/07	19:04	148.88	7/31/07	23:29	148.91	8/1/07	3:54	148.91	8/1/07	8:19	149.01	8/1/07	12:44	149.09
7/31/07	19:09	148.88	7/31/07	23:34	148.91	8/1/07	3:59	148.93	8/1/07	8:24	148.99	8/1/07	12:49	149.09

TABLE D6C.2-6. TRANSDUCER DATA FOR OBSERVATION WELL BR-G, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/1/07	12:54	149.09	8/1/07	17:19	149.06	8/1/07	21:44	149.06	8/2/07	2:09	149.07	8/2/07	6:34	149.09
8/1/07	12:59	149.09	8/1/07	17:24	149.06	8/1/07	21:49	149.06	8/2/07	2:14	149.06	8/2/07	6:39	149.09
8/1/07	13:04	149.09	8/1/07	17:29	149.06	8/1/07	21:54	149.07	8/2/07	2:19	149.06	8/2/07	6:44	149.09
8/1/07	13:09	149.09	8/1/07	17:34	149.06	8/1/07	21:59	149.07	8/2/07	2:24	149.06	8/2/07	6:49	149.09
8/1/07	13:14	149.09	8/1/07	17:39	149.06	8/1/07	22:04	149.09	8/2/07	2:29	149.06	8/2/07	6:54	149.09
8/1/07	13:19	149.09	8/1/07	17:44	149.06	8/1/07	22:09	149.09	8/2/07	2:34	149.06	8/2/07	6:59	149.09
8/1/07	13:24	149.09	8/1/07	17:49	149.06	8/1/07	22:14	149.09	8/2/07	2:39	149.06	8/2/07	7:04	149.07
8/1/07	13:29	149.09	8/1/07	17:54	149.06	8/1/07	22:19	149.09	8/2/07	2:44	149.06	8/2/07	7:09	149.07
8/1/07	13:34	149.09	8/1/07	17:59	149.06	8/1/07	22:24	149.09	8/2/07	2:49	149.06	8/2/07	7:14	149.07
8/1/07	13:39	149.09	8/1/07	18:04	149.04	8/1/07	22:29	149.09	8/2/07	2:54	149.06	8/2/07	7:19	149.07
8/1/07	13:44	149.09	8/1/07	18:09	149.04	8/1/07	22:34	149.09	8/2/07	2:59	149.06	8/2/07	7:24	149.07
8/1/07	13:49	149.09	8/1/07	18:14	149.04	8/1/07	22:39	149.09	8/2/07	3:04	149.06	8/2/07	7:29	149.09
8/1/07	13:54	149.09	8/1/07	18:19	149.04	8/1/07	22:44	149.09	8/2/07	3:09	149.06	8/2/07	7:34	149.09
8/1/07	13:59	149.11	8/1/07	18:24	149.04	8/1/07	22:49	149.09	8/2/07	3:14	149.06	8/2/07	7:39	149.07
8/1/07	14:04	149.11	8/1/07	18:29	149.04	8/1/07	22:54	149.09	8/2/07	3:19	149.06	8/2/07	7:44	149.07
8/1/07	14:09	149.11	8/1/07	18:34	149.04	8/1/07	22:59	149.09	8/2/07	3:24	149.06	8/2/07	7:49	149.07
8/1/07	14:14	149.11	8/1/07	18:39	149.04	8/1/07	23:04	149.09	8/2/07	3:29	149.06	8/2/07	7:54	149.07
8/1/07	14:19	149.11	8/1/07	18:44	149.04	8/1/07	23:09	149.09	8/2/07	3:34	149.06	8/2/07	7:59	149.07
8/1/07	14:24	149.11	8/1/07	18:49	149.04	8/1/07	23:14	149.09	8/2/07	3:39	149.04	8/2/07	8:04	149.06
8/1/07	14:29	149.09	8/1/07	18:54	149.04	8/1/07	23:19	149.09	8/2/07	3:44	149.04	8/2/07	8:09	149.06
8/1/07	14:34	149.11	8/1/07	18:59	149.06	8/1/07	23:24	149.09	8/2/07	3:49	149.04	8/2/07	8:14	149.04
8/1/07	14:39	149.09	8/1/07	19:04	149.04	8/1/07	23:29	149.09	8/2/07	3:54	149.04	8/2/07	8:19	149.06
8/1/07	14:44	149.11	8/1/07	19:09	149.04	8/1/07	23:34	149.09	8/2/07	3:59	149.04	8/2/07	8:24	149.06
8/1/07	14:49	149.11	8/1/07	19:14	149.04	8/1/07	23:39	149.09	8/2/07	4:04	149.06	8/2/07	8:29	149.06
8/1/07	14:54	149.11	8/1/07	19:19	149.04	8/1/07	23:44	149.09	8/2/07	4:09	149.06	8/2/07	8:34	149.06
8/1/07	14:59	149.11	8/1/07	19:24	149.04	8/1/07	23:49	149.09	8/2/07	4:14	149.06	8/2/07	8:39	149.06
8/1/07	15:04	149.07	8/1/07	19:29	149.06	8/1/07	23:54	149.09	8/2/07	4:19	149.06	8/2/07	8:44	149.06
8/1/07	15:09	149.07	8/1/07	19:34	149.04	8/1/07	23:59	149.09	8/2/07	4:24	149.06	8/2/07	8:49	149.06
8/1/07	15:14	149.09	8/1/07	19:39	149.04	8/2/07	0:04	149.09	8/2/07	4:29	149.06	8/2/07	8:54	149.06
8/1/07	15:19	149.07	8/1/07	19:44	149.04	8/2/07	0:09	149.09	8/2/07	4:34	149.06	8/2/07	8:59	149.06
8/1/07	15:24	149.07	8/1/07	19:49	149.04	8/2/07	0:14	149.09	8/2/07	4:39	149.07	8/2/07	9:04	149.06
8/1/07	15:29	149.09	8/1/07	19:54	149.04	8/2/07	0:19	149.09	8/2/07	4:44	149.07	8/2/07	9:09	149.06
8/1/07	15:34	149.09	8/1/07	19:59	149.04	8/2/07	0:24	149.09	8/2/07	4:49	149.06	8/2/07	9:14	149.06
8/1/07	15:39	149.09	8/1/07	20:04	149.04	8/2/07	0:29	149.09	8/2/07	4:54	149.06	8/2/07	9:19	149.06
8/1/07	15:44	149.07	8/1/07	20:09	149.04	8/2/07	0:34	149.09	8/2/07	4:59	149.07	8/2/07	9:24	149.06
8/1/07	15:49	149.09	8/1/07	20:14	149.04	8/2/07	0:39	149.11	8/2/07	5:04	149.07	8/2/07	9:29	149.06
8/1/07	15:54	149.09	8/1/07	20:19	149.04	8/2/07	0:44	149.09	8/2/07	5:09	149.06	8/2/07	9:34	149.06
8/1/07	15:59	149.07	8/1/07	20:24	149.04	8/2/07	0:49	149.09	8/2/07	5:14	149.07	8/2/07	9:39	149.06
8/1/07	16:04	149.07	8/1/07	20:29	149.04	8/2/07	0:54	149.09	8/2/07	5:19	149.07	8/2/07	9:44	149.06
8/1/07	16:09	149.07	8/1/07	20:34	149.03	8/2/07	0:59	149.09	8/2/07	5:24	149.07	8/2/07	9:49	149.06
8/1/07	16:14	149.07	8/1/07	20:39	149.04	8/2/07	1:04	149.07	8/2/07	5:29	149.07	8/2/07	9:54	149.06
8/1/07	16:19	149.07	8/1/07	20:44	149.04	8/2/07	1:09	149.07	8/2/07	5:34	149.07	8/2/07	9:59	149.06
8/1/07	16:24	149.07	8/1/07	20:49	149.04	8/2/07	1:14	149.09	8/2/07	5:39	149.07	8/2/07	10:04	149.06
8/1/07	16:29	149.07	8/1/07	20:54	149.04	8/2/07	1:19	149.07	8/2/07	5:44	149.07	8/2/07	10:09	149.06
8/1/07	16:34	149.07	8/1/07	20:59	149.04	8/2/07	1:24	149.09	8/2/07	5:49	149.07	8/2/07	10:14	149.06
8/1/07	16:39	149.07	8/1/07	21:04	149.07	8/2/07	1:29	149.09	8/2/07	5:54	149.07	8/2/07	10:19	149.06
8/1/07	16:44	149.07	8/1/07	21:09	149.07	8/2/07	1:34	149.07	8/2/07	5:59	149.07	8/2/07	10:24	149.06
8/1/07	16:49	149.07	8/1/07	21:14	149.07	8/2/07	1:39	149.07	8/2/07	6:04	149.09	8/2/07	10:29	149.06
8/1/07	16:54	149.07	8/1/07	21:19	149.07	8/2/07	1:44	149.09	8/2/07	6:09	149.09	8/2/07	10:34	149.06
8/1/07	16:59	149.06	8/1/07	21:24	149.07	8/2/07	1:49	149.07	8/2/07	6:14	149.07	8/2/07	10:39	149.06
8/1/07	17:04	149.06	8/1/07	21:29	149.07	8/2/07	1:54	149.07	8/2/07	6:19	149.09	8/2/07	10:44	149.06
8/1/07	17:09	149.07	8/1/07	21:34	149.07	8/2/07	1:59	149.07	8/2/07	6:24	149.09	8/2/07	10:49	149.06
8/1/07	17:14	149.06	8/1/07	21:39	149.07	8/2/07	2:04	149.06	8/2/07	6:29	149.09	8/2/07	10:54	149.06

TABLE D6C.2-6. TRANSDUCER DATA FOR OBSERVATION WELL BR-G, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/2/07	10:59	149.06	8/2/07	15:24	149.04	8/2/07	19:46	148.88	8/3/07	0:11	148.88	8/3/07	4:36	148.88
8/2/07	11:04	149.06	8/2/07	15:29	149.02	8/2/07	19:51	148.88	8/3/07	0:16	148.88	8/3/07	4:41	148.88
8/2/07	11:09	149.06	8/2/07	15:34	149.02	8/2/07	19:56	148.88	8/3/07	0:21	148.88	8/3/07	4:46	148.88
8/2/07	11:14	149.06	8/2/07	15:39	149.02	8/2/07	20:01	148.84	8/3/07	0:26	148.88	8/3/07	4:51	148.88
8/2/07	11:19	149.07	8/2/07	15:44	149.02	8/2/07	20:06	148.86	8/3/07	0:31	148.88	8/3/07	4:56	148.88
8/2/07	11:24	149.06	8/2/07	15:49	149.04	8/2/07	20:11	148.84	8/3/07	0:36	148.88	8/3/07	5:01	148.88
8/2/07	11:29	149.06	8/2/07	15:54	149.04	8/2/07	20:16	148.84	8/3/07	0:41	148.88	8/3/07	5:06	148.88
8/2/07	11:34	149.06	8/2/07	15:59	149.04	8/2/07	20:21	148.84	8/3/07	0:46	148.88	8/3/07	5:11	148.88
8/2/07	11:39	149.06	8/2/07	16:04	149.03	8/2/07	20:26	148.86	8/3/07	0:51	148.88	8/3/07	5:16	148.88
8/2/07	11:44	149.06	8/2/07	16:09	149.03	8/2/07	20:31	148.88	8/3/07	0:56	148.88	8/3/07	5:21	148.88
8/2/07	11:49	149.06	8/2/07	16:14	149.03	8/2/07	20:36	148.88	8/3/07	1:01	148.88	8/3/07	5:26	148.89
8/2/07	11:54	149.06	8/2/07	16:19	149.01	8/2/07	20:41	148.88	8/3/07	1:06	148.88	8/3/07	5:31	148.88
8/2/07	11:59	149.06	8/2/07	16:24	149.03	8/2/07	20:46	148.88	8/3/07	1:11	148.88	8/3/07	5:36	148.88
8/2/07	12:04	149.06	8/2/07	16:29	149.03	8/2/07	20:51	148.88	8/3/07	1:16	148.88	8/3/07	5:41	148.88
8/2/07	12:09	149.06	8/2/07	16:34	149.03	8/2/07	20:56	148.88	8/3/07	1:21	148.88	8/3/07	5:46	148.88
8/2/07	12:14	149.06	8/2/07	16:39	149.01	8/2/07	21:01	148.88	8/3/07	1:26	148.88	8/3/07	5:51	148.89
8/2/07	12:19	149.06	8/2/07	16:44	149.01	8/2/07	21:06	148.88	8/3/07	1:31	148.88	8/3/07	5:56	148.88
8/2/07	12:24	149.06	8/2/07	16:49	149.01	8/2/07	21:11	148.86	8/3/07	1:36	148.88	8/3/07	6:01	148.89
8/2/07	12:29	149.06	8/2/07	16:54	149.03	8/2/07	21:16	148.86	8/3/07	1:41	148.88	8/3/07	6:06	148.89
8/2/07	12:34	149.06	8/2/07	16:59	149.01	8/2/07	21:21	148.88	8/3/07	1:46	148.89	8/3/07	6:11	148.89
8/2/07	12:39	149.06	8/2/07	17:04	148.99	8/2/07	21:26	148.88	8/3/07	1:51	148.89	8/3/07	6:16	148.88
8/2/07	12:44	149.06	8/2/07	17:09	149.01	8/2/07	21:31	148.88	8/3/07	1:56	148.89	8/3/07	6:21	148.88
8/2/07	12:49	149.06	8/2/07	17:14	148.99	8/2/07	21:36	148.89	8/3/07	2:01	148.89	8/3/07	6:26	148.89
8/2/07	12:54	149.06	8/2/07	17:19	149.01	8/2/07	21:41	148.88	8/3/07	2:06	148.89	8/3/07	6:31	148.89
8/2/07	12:59	149.06	8/2/07	17:24	149.01	8/2/07	21:46	148.88	8/3/07	2:11	148.89	8/3/07	6:36	148.88
8/2/07	13:04	149.04	8/2/07	17:29	149.01	8/2/07	21:51	148.88	8/3/07	2:16	148.88	8/3/07	6:41	148.89
8/2/07	13:09	149.04	8/2/07	17:31	148.88	8/2/07	21:56	148.88	8/3/07	2:21	148.89	8/3/07	6:46	148.89
8/2/07	13:14	149.04	8/2/07	17:36	148.89	8/2/07	22:01	148.88	8/3/07	2:26	148.88	8/3/07	6:51	148.89
8/2/07	13:19	149.04	8/2/07	17:41	148.89	8/2/07	22:06	148.88	8/3/07	2:31	148.89	8/3/07	6:56	148.89
8/2/07	13:24	149.04	8/2/07	17:46	148.89	8/2/07	22:11	148.88	8/3/07	2:36	148.89	8/3/07	7:01	148.88
8/2/07	13:29	149.04	8/2/07	17:51	148.89	8/2/07	22:16	148.88	8/3/07	2:41	148.89	8/3/07	7:06	148.89
8/2/07	13:34	149.06	8/2/07	17:56	148.89	8/2/07	22:21	148.88	8/3/07	2:46	148.89	8/3/07	7:11	148.89
8/2/07	13:39	149.04	8/2/07	18:01	148.88	8/2/07	22:26	148.88	8/3/07	2:51	148.89	8/3/07	7:16	148.89
8/2/07	13:44	149.04	8/2/07	18:06	148.89	8/2/07	22:31	148.88	8/3/07	2:56	148.89	8/3/07	7:21	148.88
8/2/07	13:49	149.04	8/2/07	18:11	148.88	8/2/07	22:36	148.88	8/3/07	3:01	148.88	8/3/07	7:26	148.88
8/2/07	13:54	149.04	8/2/07	18:16	148.88	8/2/07	22:41	148.88	8/3/07	3:06	148.88	8/3/07	7:31	148.88
8/2/07	13:59	149.04	8/2/07	18:21	148.88	8/2/07	22:46	148.86	8/3/07	3:11	148.88	8/3/07	7:36	148.89
8/2/07	14:04	149.04	8/2/07	18:26	148.88	8/2/07	22:51	148.86	8/3/07	3:16	148.89	8/3/07	7:41	148.88
8/2/07	14:09	149.04	8/2/07	18:31	148.88	8/2/07	22:56	148.84	8/3/07	3:21	148.88	8/3/07	7:46	148.89
8/2/07	14:14	149.04	8/2/07	18:36	148.88	8/2/07	23:01	148.84	8/3/07	3:26	148.88	8/3/07	7:51	148.88
8/2/07	14:19	149.04	8/2/07	18:41	148.88	8/2/07	23:06	148.84	8/3/07	3:31	148.88	8/3/07	7:56	148.89
8/2/07	14:24	149.04	8/2/07	18:46	148.88	8/2/07	23:11	148.84	8/3/07	3:36	148.88	8/3/07	8:01	148.89
8/2/07	14:29	149.04	8/2/07	18:51	148.88	8/2/07	23:16	148.86	8/3/07	3:41	148.88	8/3/07	8:06	148.88
8/2/07	14:34	149.04	8/2/07	18:56	148.88	8/2/07	23:21	148.86	8/3/07	3:46	148.88	8/3/07	8:11	148.88
8/2/07	14:39	149.04	8/2/07	19:01	148.88	8/2/07	23:26	148.88	8/3/07	3:51	148.88	8/3/07	8:16	148.88
8/2/07	14:44	149.04	8/2/07	19:06	148.88	8/2/07	23:31	148.88	8/3/07	3:56	148.88	8/3/07	8:21	148.88
8/2/07	14:49	149.06	8/2/07	19:11	148.88	8/2/07	23:36	148.88	8/3/07	4:01	148.88	8/3/07	8:26	148.88
8/2/07	14:54	149.06	8/2/07	19:16	148.88	8/2/07	23:41	148.88	8/3/07	4:06	148.88	8/3/07	8:31	148.88
8/2/07	14:59	149.04	8/2/07	19:21	148.88	8/2/07	23:46	148.88	8/3/07	4:11	148.88	8/3/07	8:36	148.88
8/2/07	15:04	149.04	8/2/07	19:26	148.88	8/2/07	23:51	148.88	8/3/07	4:16	148.88	8/3/07	8:41	148.88
8/2/07	15:09	149.02	8/2/07	19:31	148.88	8/2/07	23:56	148.88	8/3/07	4:21	148.88	8/3/07	8:46	148.88
8/2/07	15:14	149.04	8/2/07	19:36	148.89	8/3/07	0:01	148.88	8/3/07	4:26	148.88	8/3/07	8:51	148.88
8/2/07	15:19	149.04	8/2/07	19:41	148.89	8/3/07	0:06	148.88	8/3/07	4:31	148.88	8/3/07	8:56	148.88

TABLE D6C.2-6. TRANSDUCER DATA FOR OBSERVATION WELL BR-G, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/3/07	9:01	148.88	8/3/07	19:01	148.93	8/6/07	0:01	148.90	8/8/07	5:01	148.87			
8/3/07	9:06	148.88	8/3/07	20:01	148.93	8/6/07	1:01	148.96	8/8/07	6:01	148.87			
8/3/07	9:11	148.88	8/3/07	21:01	148.93	8/6/07	2:01	148.93	8/8/07	7:01	148.87			
8/3/07	9:16	148.88	8/3/07	22:01	148.93	8/6/07	3:01	148.90	8/8/07	8:01	148.87			
8/3/07	9:21	148.88	8/3/07	23:01	148.93	8/6/07	4:01	148.93	8/8/07	9:01	148.87			
8/3/07	9:26	148.88	8/4/07	0:01	148.90	8/6/07	5:01	148.90	8/8/07	10:01	148.87			
8/3/07	9:31	148.88	8/4/07	1:01	148.93	8/6/07	6:01	148.90	8/8/07	11:01	148.87			
8/3/07	9:36	148.88	8/4/07	2:01	148.93	8/6/07	7:01	148.90	8/8/07	12:01	148.90			
8/3/07	9:41	148.88	8/4/07	3:01	148.93	8/6/07	8:01	148.90	8/8/07	13:01	148.87			
8/3/07	9:46	148.88	8/4/07	4:01	148.93	8/6/07	9:01	148.90	8/8/07	14:01	209.13			
8/3/07	9:51	148.88	8/4/07	5:01	148.93	8/6/07	10:01	148.90	8/8/07	14:31	209.10			
8/3/07	9:56	148.88	8/4/07	6:01	148.93	8/6/07	11:01	148.90						
8/3/07	10:01	148.86	8/4/07	7:01	148.90	8/6/07	12:01	148.90						
8/3/07	10:06	148.88	8/4/07	8:01	148.90	8/6/07	13:01	148.90						
8/3/07	10:11	148.88	8/4/07	9:01	148.90	8/6/07	14:01	148.90						
8/3/07	10:16	148.88	8/4/07	10:01	148.90	8/6/07	15:01	148.90						
8/3/07	10:21	148.88	8/4/07	11:01	148.93	8/6/07	16:01	148.93						
8/3/07	10:26	148.88	8/4/07	12:01	148.90	8/6/07	17:01	148.90						
8/3/07	10:31	148.88	8/4/07	13:01	148.90	8/6/07	18:01	148.80						
8/3/07	10:36	148.88	8/4/07	14:01	148.93	8/6/07	19:01	148.90						
8/3/07	10:41	148.88	8/4/07	15:01	148.93	8/6/07	20:01	148.87						
8/3/07	10:46	148.88	8/4/07	16:01	148.93	8/6/07	21:01	148.87						
8/3/07	10:51	148.88	8/4/07	17:01	148.93	8/6/07	22:01	148.87						
8/3/07	10:56	148.88	8/4/07	18:01	148.90	8/6/07	23:01	148.87						
8/3/07	11:01	148.88	8/4/07	19:01	148.87	8/7/07	0:01	148.87						
8/3/07	11:06	148.88	8/4/07	20:01	148.90	8/7/07	1:01	148.90						
8/3/07	11:11	148.88	8/4/07	21:01	148.87	8/7/07	2:01	148.87						
8/3/07	11:16	148.88	8/4/07	22:01	148.90	8/7/07	3:01	148.87						
8/3/07	11:21	148.88	8/4/07	23:01	148.90	8/7/07	4:01	148.87						
8/3/07	11:26	148.88	8/5/07	0:01	148.90	8/7/07	5:01	148.87						
8/3/07	11:31	148.88	8/5/07	1:01	148.87	8/7/07	6:01	148.87						
8/3/07	11:36	148.88	8/5/07	2:01	148.93	8/7/07	7:01	148.87						
8/3/07	11:41	148.88	8/5/07	3:01	148.90	8/7/07	8:01	148.87						
8/3/07	11:46	148.88	8/5/07	4:01	148.93	8/7/07	9:01	148.87						
8/3/07	11:51	148.88	8/5/07	5:01	148.90	8/7/07	10:01	148.87						
8/3/07	11:56	148.88	8/5/07	6:01	148.87	8/7/07	11:01	148.90						
8/3/07	12:01	148.88	8/5/07	7:01	148.90	8/7/07	12:01	148.90						
8/3/07	12:06	148.88	8/5/07	8:01	148.87	8/7/07	13:01	148.87						
8/3/07	12:11	148.89	8/5/07	9:01	148.90	8/7/07	14:01	148.90						
8/3/07	12:16	148.88	8/5/07	10:01	148.87	8/7/07	15:01	148.90						
8/3/07	12:21	148.88	8/5/07	11:01	148.87	8/7/07	16:01	148.90						
8/3/07	12:26	148.88	8/5/07	12:01	148.93	8/7/07	17:01	148.90						
8/3/07	12:31	148.88	8/5/07	13:01	148.93	8/7/07	18:01	148.90						
8/3/07	12:36	148.88	8/5/07	14:01	148.93	8/7/07	19:01	148.90						
8/3/07	12:41	148.88	8/5/07	15:01	148.93	8/7/07	20:01	148.87						
8/3/07	12:46	148.88	8/5/07	16:01	148.93	8/7/07	21:01	148.87						
8/3/07	12:51	148.88	8/5/07	17:01	148.93	8/7/07	22:01	148.87						
8/3/07	12:56	148.88	8/5/07	18:01	148.93	8/7/07	23:01	148.87						
8/3/07	14:01	148.93	8/5/07	19:01	148.96	8/8/07	0:01	148.87						
8/3/07	15:01	148.93	8/5/07	20:01	148.90	8/8/07	1:01	148.87						
8/3/07	16:01	148.96	8/5/07	21:01	148.87	8/8/07	2:01	148.87						
8/3/07	17:01	148.93	8/5/07	22:01	148.90	8/8/07	3:01	148.87						
8/3/07	18:01	148.93	8/5/07	23:01	148.90	8/8/07	4:01	148.87						

TABLE D6C.2-7. AQUIFER-TEST DATA FOR OBSERVATION WELL URZHG-4.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/31/07	11:50:00	-185	--	--	280.67	0.00	--	--	--	--
	14:55:00	PUMP ON								
	15:37:00	42	--	--	280.67	0.00	--	--	--	--
	16:14:00	79	--	--	280.66	-0.01	--	--	--	--
	17:15:00	140	--	--	280.64	-0.03	--	--	--	--
08/02/07	10:06:00	2591	--	--	280.84	0.17	--	--	--	--
	17:50:00	3055	--	--	280.79	0.12	--	--	--	--
08/05/07	10:21:00	PUMP OFF								
08/08/07	10:41:00	11266	4340	2.6	280.63	-0.04	--	--	--	--

TABLE D6C.2-8. TRANSDUCER DATA FOR OBSERVATION WELL URZHG-4.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/31/07	14:52	280.69	7/31/07	19:17	280.64	7/31/07	23:42	280.63	8/1/07	4:07	280.67	8/1/07	8:32	280.74
7/31/07	14:57	280.69	7/31/07	19:22	280.64	7/31/07	23:47	280.63	8/1/07	4:12	280.67	8/1/07	8:37	280.76
7/31/07	15:02	280.69	7/31/07	19:27	280.64	7/31/07	23:52	280.63	8/1/07	4:17	280.67	8/1/07	8:42	280.76
7/31/07	15:07	280.68	7/31/07	19:32	280.63	7/31/07	23:57	280.63	8/1/07	4:22	280.67	8/1/07	8:47	280.76
7/31/07	15:12	280.69	7/31/07	19:37	280.64	8/1/07	0:02	280.64	8/1/07	4:27	280.69	8/1/07	8:52	280.76
7/31/07	15:17	280.68	7/31/07	19:42	280.64	8/1/07	0:07	280.64	8/1/07	4:32	280.67	8/1/07	8:57	280.76
7/31/07	15:22	280.69	7/31/07	19:47	280.64	8/1/07	0:12	280.64	8/1/07	4:37	280.67	8/1/07	9:02	280.79
7/31/07	15:27	280.68	7/31/07	19:52	280.64	8/1/07	0:17	280.64	8/1/07	4:42	280.67	8/1/07	9:07	280.77
7/31/07	15:32	280.69	7/31/07	19:57	280.64	8/1/07	0:22	280.64	8/1/07	4:47	280.67	8/1/07	9:12	280.77
7/31/07	15:37	280.68	7/31/07	20:02	280.66	8/1/07	0:27	280.64	8/1/07	4:52	280.67	8/1/07	9:17	280.77
7/31/07	15:42	280.69	7/31/07	20:07	280.66	8/1/07	0:32	280.64	8/1/07	4:57	280.67	8/1/07	9:22	280.77
7/31/07	15:47	280.69	7/31/07	20:12	280.66	8/1/07	0:37	280.64	8/1/07	5:02	280.69	8/1/07	9:27	280.77
7/31/07	15:52	280.69	7/31/07	20:17	280.66	8/1/07	0:42	280.64	8/1/07	5:07	280.68	8/1/07	9:32	280.77
7/31/07	15:57	280.69	7/31/07	20:22	280.66	8/1/07	0:47	280.64	8/1/07	5:12	280.69	8/1/07	9:37	280.77
7/31/07	16:02	280.64	7/31/07	20:27	280.68	8/1/07	0:52	280.66	8/1/07	5:17	280.68	8/1/07	9:42	280.77
7/31/07	16:07	280.64	7/31/07	20:32	280.68	8/1/07	0:57	280.66	8/1/07	5:22	280.68	8/1/07	9:47	280.77
7/31/07	16:12	280.64	7/31/07	20:37	280.66	8/1/07	1:02	280.66	8/1/07	5:27	280.69	8/1/07	9:52	280.77
7/31/07	16:17	280.64	7/31/07	20:42	280.68	8/1/07	1:07	280.66	8/1/07	5:32	280.69	8/1/07	9:57	280.77
7/31/07	16:22	280.64	7/31/07	20:47	280.66	8/1/07	1:12	280.66	8/1/07	5:37	280.69	8/1/07	10:02	280.81
7/31/07	16:27	280.64	7/31/07	20:52	280.66	8/1/07	1:17	280.66	8/1/07	5:42	280.69	8/1/07	10:07	280.81
7/31/07	16:32	280.64	7/31/07	20:57	280.66	8/1/07	1:22	280.66	8/1/07	5:47	280.69	8/1/07	10:12	280.81
7/31/07	16:37	280.64	7/31/07	21:02	280.66	8/1/07	1:27	280.66	8/1/07	5:52	280.69	8/1/07	10:17	280.81
7/31/07	16:42	280.64	7/31/07	21:07	280.66	8/1/07	1:32	280.66	8/1/07	5:57	280.69	8/1/07	10:22	280.81
7/31/07	16:47	280.64	7/31/07	21:12	280.66	8/1/07	1:37	280.66	8/1/07	6:02	280.71	8/1/07	10:27	280.81
7/31/07	16:52	280.64	7/31/07	21:17	280.64	8/1/07	1:42	280.66	8/1/07	6:07	280.71	8/1/07	10:32	280.81
7/31/07	16:57	280.64	7/31/07	21:22	280.66	8/1/07	1:47	280.66	8/1/07	6:12	280.71	8/1/07	10:37	280.81
7/31/07	17:02	280.64	7/31/07	21:27	280.64	8/1/07	1:52	280.66	8/1/07	6:17	280.71	8/1/07	10:42	280.81
7/31/07	17:07	280.64	7/31/07	21:32	280.64	8/1/07	1:57	280.66	8/1/07	6:22	280.71	8/1/07	10:47	280.81
7/31/07	17:12	280.64	7/31/07	21:37	280.64	8/1/07	2:02	280.68	8/1/07	6:27	280.69	8/1/07	10:52	280.81
7/31/07	17:17	280.64	7/31/07	21:42	280.64	8/1/07	2:07	280.66	8/1/07	6:32	280.71	8/1/07	10:57	280.81
7/31/07	17:22	280.64	7/31/07	21:47	280.64	8/1/07	2:12	280.68	8/1/07	6:37	280.69	8/1/07	11:02	280.81
7/31/07	17:27	280.64	7/31/07	21:52	280.64	8/1/07	2:17	280.66	8/1/07	6:42	280.69	8/1/07	11:07	280.81
7/31/07	17:32	280.64	7/31/07	21:57	280.58	8/1/07	2:22	280.68	8/1/07	6:47	280.71	8/1/07	11:12	280.81
7/31/07	17:37	280.64	7/31/07	22:02	280.59	8/1/07	2:27	280.68	8/1/07	6:52	280.71	8/1/07	11:17	280.82
7/31/07	17:42	280.64	7/31/07	22:07	280.59	8/1/07	2:32	280.68	8/1/07	6:57	280.71	8/1/07	11:22	280.82
7/31/07	17:47	280.64	7/31/07	22:12	280.61	8/1/07	2:37	280.66	8/1/07	7:02	280.72	8/1/07	11:27	280.82
7/31/07	17:52	280.64	7/31/07	22:17	280.61	8/1/07	2:42	280.68	8/1/07	7:07	280.72	8/1/07	11:32	280.82
7/31/07	17:57	280.64	7/31/07	22:22	280.59	8/1/07	2:47	280.68	8/1/07	7:12	280.72	8/1/07	11:37	280.82
7/31/07	18:02	280.64	7/31/07	22:27	280.59	8/1/07	2:52	280.68	8/1/07	7:17	280.72	8/1/07	11:42	280.82
7/31/07	18:07	280.64	7/31/07	22:32	280.59	8/1/07	2:57	280.68	8/1/07	7:22	280.71	8/1/07	11:47	280.84
7/31/07	18:12	280.64	7/31/07	22:37	280.59	8/1/07	3:02	280.68	8/1/07	7:27	280.71	8/1/07	11:52	280.84
7/31/07	18:17	280.64	7/31/07	22:42	280.59	8/1/07	3:07	280.68	8/1/07	7:32	280.71	8/1/07	11:57	280.82
7/31/07	18:22	280.64	7/31/07	22:47	280.59	8/1/07	3:12	280.68	8/1/07	7:37	280.71	8/1/07	13:02	281.04
7/31/07	18:27	280.64	7/31/07	22:52	280.59	8/1/07	3:17	280.68	8/1/07	7:42	280.71	8/1/07	14:02	281.04
7/31/07	18:32	280.64	7/31/07	22:57	280.59	8/1/07	3:22	280.68	8/1/07	7:47	280.71	8/1/07	15:02	281.04
7/31/07	18:37	280.64	7/31/07	23:02	280.61	8/1/07	3:27	280.68	8/1/07	7:52	280.71	8/1/07	16:02	281.01
7/31/07	18:42	280.64	7/31/07	23:07	280.61	8/1/07	3:32	280.68	8/1/07	7:57	280.71	8/1/07	17:02	293.34
7/31/07	18:47	280.64	7/31/07	23:12	280.61	8/1/07	3:37	280.66	8/1/07	8:02	280.76	8/1/07	18:02	280.94
7/31/07	18:52	280.64	7/31/07	23:17	280.61	8/1/07	3:42	280.66	8/1/07	8:07	280.76	8/1/07	19:02	280.94
7/31/07	18:57	280.64	7/31/07	23:22	280.61	8/1/07	3:47	280.66	8/1/07	8:12	280.76	8/1/07	20:02	280.94
7/31/07	19:02	280.66	7/31/07	23:27	280.63	8/1/07	3:52	280.66	8/1/07	8:17	280.76	8/1/07	21:02	280.98
7/31/07	19:07	280.66	7/31/07	23:32	280.63	8/1/07	3:57	280.66	8/1/07	8:22	280.76	8/1/07	22:02	281.01
7/31/07	19:12	280.64	7/31/07	23:37	280.63	8/1/07	4:02	280.67	8/1/07	8:27	280.76	8/1/07	23:02	281.01

TABLE D6C.2-8. TRANSDUCER DATA FOR OBSERVATION WELL URZHG-4, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/2/07	0:02	281.01	8/4/07	5:06	280.96	8/6/07	10:06	280.99						
8/2/07	1:02	281.01	8/4/07	6:06	280.93	8/6/07	11:06	280.99						
8/2/07	2:02	281.01	8/4/07	7:06	280.93	8/6/07	12:06	280.99						
8/2/07	3:02	281.01	8/4/07	8:06	280.89	8/6/07	13:06	281.03						
8/2/07	4:02	281.01	8/4/07	9:06	280.89	8/6/07	14:06	281.03						
8/2/07	5:02	281.04	8/4/07	10:06	280.93	8/6/07	15:06	281.03						
8/2/07	6:02	281.08	8/4/07	11:06	280.93	8/6/07	16:06	281.03						
8/2/07	7:02	281.04	8/4/07	12:06	280.93	8/6/07	17:06	281.03						
8/2/07	8:02	281.01	8/4/07	13:06	280.96	8/6/07	18:06	280.89						
8/2/07	9:02	281.01	8/4/07	14:06	280.96	8/6/07	19:06	280.99						
8/2/07	10:02	281.01	8/4/07	15:06	280.99	8/6/07	20:06	280.93						
8/2/07	11:04	280.89	8/4/07	16:06	280.99	8/6/07	21:06	280.89						
8/2/07	12:04	280.89	8/4/07	17:06	281.03	8/6/07	22:06	280.96						
8/2/07	13:04	280.86	8/4/07	18:06	280.99	8/6/07	23:06	280.99						
8/2/07	14:04	280.89	8/4/07	19:06	280.93	8/7/07	0:06	280.96						
8/2/07	15:04	280.89	8/4/07	20:06	280.96	8/7/07	1:06	281.03						
8/2/07	16:04	280.89	8/4/07	21:06	280.96	8/7/07	2:06	280.99						
8/2/07	17:04	280.83	8/4/07	22:06	280.96	8/7/07	3:06	280.99						
8/2/07	18:04	280.79	8/4/07	23:06	280.96	8/7/07	4:06	281.03						
8/2/07	19:06	280.96	8/5/07	0:06	280.99	8/7/07	5:06	280.99						
8/2/07	20:06	280.93	8/5/07	1:06	280.93	8/7/07	6:06	280.99						
8/2/07	21:06	280.93	8/5/07	2:06	280.99	8/7/07	7:06	280.99						
8/2/07	22:06	280.96	8/5/07	3:06	280.96	8/7/07	8:06	281.03						
8/2/07	23:06	280.89	8/5/07	4:06	280.99	8/7/07	9:06	280.99						
8/3/07	0:06	280.93	8/5/07	5:06	280.99	8/7/07	10:06	280.99						
8/3/07	1:06	280.96	8/5/07	6:06	280.96	8/7/07	11:06	281.03						
8/3/07	2:06	280.99	8/5/07	7:06	280.93	8/7/07	12:06	281.03						
8/3/07	3:06	281.03	8/5/07	8:06	280.93	8/7/07	13:06	281.03						
8/3/07	4:06	281.03	8/5/07	9:06	280.93	8/7/07	14:06	281.06						
8/3/07	5:06	280.99	8/5/07	10:06	280.93	8/7/07	15:06	281.09						
8/3/07	6:06	280.99	8/5/07	11:06	280.89	8/7/07	16:06	281.09						
8/3/07	7:06	281.03	8/5/07	12:06	280.93	8/7/07	17:06	281.06						
8/3/07	8:06	280.96	8/5/07	13:06	280.96	8/7/07	18:06	281.09						
8/3/07	9:06	280.96	8/5/07	14:06	280.99	8/7/07	19:06	281.06						
8/3/07	10:06	280.96	8/5/07	15:06	281.03	8/7/07	20:06	281.03						
8/3/07	11:06	280.93	8/5/07	16:06	281.03	8/7/07	21:06	281.03						
8/3/07	12:06	280.96	8/5/07	17:06	281.06	8/7/07	22:06	281.03						
8/3/07	13:06	280.99	8/5/07	18:06	281.06	8/7/07	23:06	281.03						
8/3/07	14:06	280.96	8/5/07	19:06	281.09	8/8/07	0:06	280.99						
8/3/07	15:06	280.96	8/5/07	20:06	281.03	8/8/07	1:06	280.96						
8/3/07	16:06	280.99	8/5/07	21:06	280.89	8/8/07	2:06	280.93						
8/3/07	17:06	280.99	8/5/07	22:06	280.93	8/8/07	3:06	280.96						
8/3/07	18:06	280.96	8/5/07	23:06	280.93	8/8/07	4:06	280.93						
8/3/07	19:06	280.99	8/6/07	0:06	280.93	8/8/07	5:06	280.89						
8/3/07	20:06	280.96	8/6/07	1:06	281.03	8/8/07	6:06	280.93						
8/3/07	21:06	280.96	8/6/07	2:06	281.03	8/8/07	7:06	280.89						
8/3/07	22:06	280.93	8/6/07	3:06	280.99	8/8/07	8:06	280.89						
8/3/07	23:06	280.93	8/6/07	4:06	280.99	8/8/07	9:06	280.89						
8/4/07	0:06	280.89	8/6/07	5:06	280.99	8/8/07	10:06	280.89						
8/4/07	1:06	280.93	8/6/07	6:06	280.99									
8/4/07	2:06	280.96	8/6/07	7:06	280.99									
8/4/07	3:06	280.96	8/6/07	8:06	280.96									
8/4/07	4:06	280.96	8/6/07	9:06	280.99									

TABLE D6C.2-9. AQUIFER-TEST DATA FOR OBSERVATION WELL URZHB-6.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/31/07	13:09:00	-106	--	--	352.03	0.00	--	--	--	--
	13:33:00	-82	--	--	352.06	0.03	--	--	--	--
	14:55:00	PUMP ON								
	15:39:00	44	--	--	352.08	0.05	--	--	--	--
	16:17:00	82	--	--	352.07	0.04	--	--	--	--
08/02/07	9:57:00	2582	--	--	352.17	0.14	--	--	--	--
	17:56:00	3061	--	--	352.12	0.09	--	--	--	--
08/05/07	10:21:00	PUMP OFF								
08/08/07	17:34:00	11679	4753	2.5	352.03	0.00	--	--	--	--

TABLE D6C.2-10. TRANSDUCER DATA FOR OBSERVATION WELL URZHB-6.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/31/07	14:30	352.15	7/31/07	18:55	352.08	7/31/07	23:20	352.10	8/1/07	3:45	352.14	8/1/07	8:10	352.14
7/31/07	14:35	352.15	7/31/07	19:00	352.08	7/31/07	23:25	352.10	8/1/07	3:50	352.14	8/1/07	8:15	352.15
7/31/07	14:40	352.15	7/31/07	19:05	352.08	7/31/07	23:30	352.10	8/1/07	3:55	352.14	8/1/07	8:20	352.15
7/31/07	14:45	352.15	7/31/07	19:10	352.08	7/31/07	23:35	352.10	8/1/07	4:00	352.12	8/1/07	8:25	352.15
7/31/07	14:50	352.15	7/31/07	19:15	352.08	7/31/07	23:40	352.10	8/1/07	4:05	352.14	8/1/07	8:30	352.15
7/31/07	14:55	352.15	7/31/07	19:20	352.08	7/31/07	23:45	352.10	8/1/07	4:10	352.14	8/1/07	8:35	352.15
7/31/07	15:00	352.15	7/31/07	19:25	352.08	7/31/07	23:50	352.10	8/1/07	4:15	352.14	8/1/07	8:40	352.15
7/31/07	15:05	352.15	7/31/07	19:30	352.08	7/31/07	23:55	352.10	8/1/07	4:20	352.14	8/1/07	8:45	352.15
7/31/07	15:10	352.15	7/31/07	19:35	352.08	8/1/07	0:00	352.12	8/1/07	4:25	352.14	8/1/07	8:50	352.15
7/31/07	15:15	352.15	7/31/07	19:40	352.08	8/1/07	0:05	352.10	8/1/07	4:30	352.12	8/1/07	8:55	352.15
7/31/07	15:20	352.14	7/31/07	19:45	352.08	8/1/07	0:10	352.12	8/1/07	4:35	352.14	8/1/07	9:00	352.15
7/31/07	15:25	352.14	7/31/07	19:50	352.08	8/1/07	0:15	352.12	8/1/07	4:40	352.14	8/1/07	9:05	352.15
7/31/07	15:30	352.14	7/31/07	19:55	352.08	8/1/07	0:20	352.12	8/1/07	4:45	352.14	8/1/07	9:10	352.15
7/31/07	15:35	352.14	7/31/07	20:00	352.08	8/1/07	0:25	352.12	8/1/07	4:50	352.14	8/1/07	9:15	352.15
7/31/07	15:40	352.14	7/31/07	20:05	352.08	8/1/07	0:30	352.12	8/1/07	4:55	352.14	8/1/07	9:20	352.15
7/31/07	15:45	352.14	7/31/07	20:10	352.08	8/1/07	0:35	352.12	8/1/07	5:00	352.14	8/1/07	9:25	352.17
7/31/07	15:50	352.14	7/31/07	20:15	352.08	8/1/07	0:40	352.12	8/1/07	5:05	352.14	8/1/07	9:30	352.17
7/31/07	15:55	352.14	7/31/07	20:20	352.08	8/1/07	0:45	352.12	8/1/07	5:10	352.14	8/1/07	9:35	352.15
7/31/07	16:00	352.14	7/31/07	20:25	352.08	8/1/07	0:50	352.12	8/1/07	5:15	352.14	8/1/07	9:40	352.15
7/31/07	16:05	352.14	7/31/07	20:30	352.08	8/1/07	0:55	352.12	8/1/07	5:20	352.14	8/1/07	9:45	352.17
7/31/07	16:10	352.14	7/31/07	20:35	352.08	8/1/07	1:00	352.12	8/1/07	5:25	352.14	8/1/07	9:50	352.17
7/31/07	16:15	352.14	7/31/07	20:40	352.08	8/1/07	1:05	352.14	8/1/07	5:30	352.14	8/1/07	9:55	352.17
7/31/07	16:20	352.12	7/31/07	20:45	352.08	8/1/07	1:10	352.12	8/1/07	5:35	352.14	8/1/07	10:00	352.17
7/31/07	16:25	352.12	7/31/07	20:50	352.08	8/1/07	1:15	352.12	8/1/07	5:40	352.14	8/1/07	10:05	352.17
7/31/07	16:30	352.12	7/31/07	20:55	352.08	8/1/07	1:20	352.12	8/1/07	5:45	352.14	8/1/07	10:10	352.17
7/31/07	16:35	352.12	7/31/07	21:00	352.08	8/1/07	1:25	352.12	8/1/07	5:50	352.14	8/1/07	10:15	352.17
7/31/07	16:40	352.12	7/31/07	21:05	352.08	8/1/07	1:30	352.12	8/1/07	5:55	352.14	8/1/07	10:20	352.17
7/31/07	16:45	352.12	7/31/07	21:10	352.08	8/1/07	1:35	352.12	8/1/07	6:00	352.14	8/1/07	10:25	352.17
7/31/07	16:50	352.12	7/31/07	21:15	352.08	8/1/07	1:40	352.12	8/1/07	6:05	352.14	8/1/07	10:30	352.17
7/31/07	16:55	352.10	7/31/07	21:20	352.08	8/1/07	1:45	352.14	8/1/07	6:10	352.14	8/1/07	10:35	352.17
7/31/07	17:00	352.10	7/31/07	21:25	352.08	8/1/07	1:50	352.14	8/1/07	6:15	352.14	8/1/07	10:40	352.19
7/31/07	17:05	352.10	7/31/07	21:30	352.08	8/1/07	1:55	352.14	8/1/07	6:20	352.14	8/1/07	10:45	352.19
7/31/07	17:10	352.10	7/31/07	21:35	352.08	8/1/07	2:00	352.14	8/1/07	6:25	352.14	8/1/07	10:50	352.19
7/31/07	17:15	352.10	7/31/07	21:40	352.08	8/1/07	2:05	352.14	8/1/07	6:30	352.14	8/1/07	10:55	352.19
7/31/07	17:20	352.10	7/31/07	21:45	352.10	8/1/07	2:10	352.14	8/1/07	6:35	352.14	8/1/07	11:00	352.19
7/31/07	17:25	352.10	7/31/07	21:50	352.10	8/1/07	2:15	352.14	8/1/07	6:40	352.14	8/1/07	11:05	352.19
7/31/07	17:30	352.10	7/31/07	21:55	352.10	8/1/07	2:20	352.14	8/1/07	6:45	352.14	8/1/07	11:10	352.19
7/31/07	17:35	352.10	7/31/07	22:00	352.10	8/1/07	2:25	352.14	8/1/07	6:50	352.14	8/1/07	11:15	352.19
7/31/07	17:40	352.10	7/31/07	22:05	352.10	8/1/07	2:30	352.14	8/1/07	6:55	352.14	8/1/07	11:20	352.19
7/31/07	17:45	352.10	7/31/07	22:10	352.10	8/1/07	2:35	352.14	8/1/07	7:00	352.14	8/1/07	11:25	352.19
7/31/07	17:50	352.10	7/31/07	22:15	352.10	8/1/07	2:40	352.14	8/1/07	7:05	352.14	8/1/07	11:30	352.19
7/31/07	17:55	352.10	7/31/07	22:20	352.10	8/1/07	2:45	352.14	8/1/07	7:10	352.14	8/1/07	11:35	352.19
7/31/07	18:00	352.10	7/31/07	22:25	352.10	8/1/07	2:50	352.14	8/1/07	7:15	352.14	8/1/07	11:40	352.19
7/31/07	18:05	352.10	7/31/07	22:30	352.10	8/1/07	2:55	352.14	8/1/07	7:20	352.14	8/1/07	11:45	352.19
7/31/07	18:10	352.10	7/31/07	22:35	352.10	8/1/07	3:00	352.14	8/1/07	7:25	352.14	8/1/07	11:50	352.19
7/31/07	18:15	352.10	7/31/07	22:40	352.10	8/1/07	3:05	352.14	8/1/07	7:30	352.14	8/1/07	11:55	352.19
7/31/07	18:20	352.10	7/31/07	22:45	352.10	8/1/07	3:10	352.14	8/1/07	7:35	352.14	8/1/07	12:00	352.19
7/31/07	18:25	352.08	7/31/07	22:50	352.10	8/1/07	3:15	352.14	8/1/07	7:40	352.14	8/1/07	12:05	352.19
7/31/07	18:30	352.08	7/31/07	22:55	352.10	8/1/07	3:20	352.14	8/1/07	7:45	352.14	8/1/07	12:10	352.19
7/31/07	18:35	352.08	7/31/07	23:00	352.10	8/1/07	3:25	352.14	8/1/07	7:50	352.14	8/1/07	12:15	352.19
7/31/07	18:40	352.08	7/31/07	23:05	352.10	8/1/07	3:30	352.14	8/1/07	7:55	352.15	8/1/07	12:20	352.19
7/31/07	18:45	352.08	7/31/07	23:10	352.10	8/1/07	3:35	352.14	8/1/07	8:00	352.15	8/1/07	12:25	352.19
7/31/07	18:50	352.08	7/31/07	23:15	352.10	8/1/07	3:40	352.14	8/1/07	8:05	352.14	8/1/07	12:30	352.19

TABLE D6C.2-10. TRANSDUCER DATA FOR OBSERVATION WELL URZHB-6, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/1/07	12:35	352.19	8/1/07	17:00	352.19	8/1/07	21:25	352.17	8/2/07	1:50	352.19	8/2/07	6:15	352.17
8/1/07	12:40	352.19	8/1/07	17:05	352.19	8/1/07	21:30	352.17	8/2/07	1:55	352.19	8/2/07	6:20	352.17
8/1/07	12:45	352.21	8/1/07	17:10	352.17	8/1/07	21:35	352.17	8/2/07	2:00	352.19	8/2/07	6:25	352.17
8/1/07	12:50	352.21	8/1/07	17:15	352.17	8/1/07	21:40	352.17	8/2/07	2:05	352.19	8/2/07	6:30	352.17
8/1/07	12:55	352.21	8/1/07	17:20	352.17	8/1/07	21:45	352.17	8/2/07	2:10	352.19	8/2/07	6:35	352.17
8/1/07	13:00	352.21	8/1/07	17:25	352.17	8/1/07	21:50	352.17	8/2/07	2:15	352.19	8/2/07	6:40	352.17
8/1/07	13:05	352.21	8/1/07	17:30	352.17	8/1/07	21:55	352.17	8/2/07	2:20	352.19	8/2/07	6:45	352.17
8/1/07	13:10	352.21	8/1/07	17:35	352.19	8/1/07	22:00	352.17	8/2/07	2:25	352.19	8/2/07	6:50	352.17
8/1/07	13:15	352.21	8/1/07	17:40	352.19	8/1/07	22:05	352.17	8/2/07	2:30	352.19	8/2/07	6:55	352.17
8/1/07	13:20	352.21	8/1/07	17:45	352.17	8/1/07	22:10	352.17	8/2/07	2:35	352.19	8/2/07	7:00	352.17
8/1/07	13:25	352.21	8/1/07	17:50	352.17	8/1/07	22:15	352.17	8/2/07	2:40	352.19	8/2/07	7:05	352.17
8/1/07	13:30	352.21	8/1/07	17:55	352.17	8/1/07	22:20	352.17	8/2/07	2:45	352.19	8/2/07	7:10	352.17
8/1/07	13:35	352.21	8/1/07	18:00	352.17	8/1/07	22:25	352.17	8/2/07	2:50	352.19	8/2/07	7:15	352.17
8/1/07	13:40	352.21	8/1/07	18:05	352.17	8/1/07	22:30	352.17	8/2/07	2:55	352.19	8/2/07	7:20	352.17
8/1/07	13:45	352.21	8/1/07	18:10	352.17	8/1/07	22:35	352.17	8/2/07	3:00	352.19	8/2/07	7:25	352.17
8/1/07	13:50	352.21	8/1/07	18:15	352.17	8/1/07	22:40	352.17	8/2/07	3:05	352.19	8/2/07	7:30	352.17
8/1/07	13:55	352.21	8/1/07	18:20	352.17	8/1/07	22:45	352.17	8/2/07	3:10	352.19	8/2/07	7:35	352.17
8/1/07	14:00	352.21	8/1/07	18:25	352.17	8/1/07	22:50	352.17	8/2/07	3:15	352.19	8/2/07	7:40	352.17
8/1/07	14:05	352.21	8/1/07	18:30	352.17	8/1/07	22:55	352.17	8/2/07	3:20	352.19	8/2/07	7:45	352.17
8/1/07	14:10	352.21	8/1/07	18:35	352.17	8/1/07	23:00	352.17	8/2/07	3:25	352.19	8/2/07	7:50	352.17
8/1/07	14:15	352.21	8/1/07	18:40	352.17	8/1/07	23:05	352.17	8/2/07	3:30	352.19	8/2/07	7:55	352.17
8/1/07	14:20	352.21	8/1/07	18:45	352.17	8/1/07	23:10	352.17	8/2/07	3:35	352.19	8/2/07	8:00	352.17
8/1/07	14:25	352.21	8/1/07	18:50	352.17	8/1/07	23:15	352.17	8/2/07	3:40	352.19	8/2/07	8:05	352.17
8/1/07	14:30	352.21	8/1/07	18:55	352.17	8/1/07	23:20	352.17	8/2/07	3:45	352.19	8/2/07	8:10	352.17
8/1/07	14:35	352.21	8/1/07	19:00	352.17	8/1/07	23:25	352.17	8/2/07	3:50	352.19	8/2/07	8:15	352.17
8/1/07	14:40	352.21	8/1/07	19:05	352.17	8/1/07	23:30	352.17	8/2/07	3:55	352.19	8/2/07	8:20	352.17
8/1/07	14:45	352.21	8/1/07	19:10	352.17	8/1/07	23:35	352.17	8/2/07	4:00	352.19	8/2/07	8:25	352.17
8/1/07	14:50	352.21	8/1/07	19:15	352.17	8/1/07	23:40	352.17	8/2/07	4:05	352.19	8/2/07	8:30	352.17
8/1/07	14:55	352.21	8/1/07	19:20	352.17	8/1/07	23:45	352.17	8/2/07	4:10	352.19	8/2/07	8:35	352.17
8/1/07	15:00	352.21	8/1/07	19:25	352.17	8/1/07	23:50	352.17	8/2/07	4:15	352.19	8/2/07	8:40	352.17
8/1/07	15:05	352.21	8/1/07	19:30	352.17	8/1/07	23:55	352.19	8/2/07	4:20	352.19	8/2/07	8:45	352.17
8/1/07	15:10	352.21	8/1/07	19:35	352.17	8/2/07	0:00	352.19	8/2/07	4:25	352.19	8/2/07	8:50	352.17
8/1/07	15:15	352.21	8/1/07	19:40	352.17	8/2/07	0:05	352.19	8/2/07	4:30	352.19	8/2/07	8:55	352.17
8/1/07	15:20	352.21	8/1/07	19:45	352.15	8/2/07	0:10	352.17	8/2/07	4:35	352.19	8/2/07	9:00	352.17
8/1/07	15:25	352.21	8/1/07	19:50	352.17	8/2/07	0:15	352.19	8/2/07	4:40	352.19	8/2/07	9:05	352.17
8/1/07	15:30	352.21	8/1/07	19:55	352.15	8/2/07	0:20	352.19	8/2/07	4:45	352.19	8/2/07	9:10	352.17
8/1/07	15:35	352.19	8/1/07	20:00	352.17	8/2/07	0:25	352.19	8/2/07	4:50	352.19	8/2/07	9:15	352.17
8/1/07	15:40	352.19	8/1/07	20:05	352.17	8/2/07	0:30	352.19	8/2/07	4:55	352.19	8/2/07	9:20	352.17
8/1/07	15:45	352.21	8/1/07	20:10	352.15	8/2/07	0:35	352.19	8/2/07	5:00	352.17	8/2/07	9:25	352.17
8/1/07	15:50	352.19	8/1/07	20:15	352.17	8/2/07	0:40	352.19	8/2/07	5:05	352.19	8/2/07	9:30	352.17
8/1/07	15:55	352.19	8/1/07	20:20	352.15	8/2/07	0:45	352.17	8/2/07	5:10	352.19	8/2/07	9:35	352.17
8/1/07	16:00	352.19	8/1/07	20:25	352.17	8/2/07	0:50	352.19	8/2/07	5:15	352.17	8/2/07	9:40	352.17
8/1/07	16:05	352.19	8/1/07	20:30	352.15	8/2/07	0:55	352.19	8/2/07	5:20	352.19	8/2/07	9:45	352.17
8/1/07	16:10	352.19	8/1/07	20:35	352.15	8/2/07	1:00	352.19	8/2/07	5:25	352.19	8/2/07	9:50	352.17
8/1/07	16:15	352.19	8/1/07	20:40	352.17	8/2/07	1:05	352.19	8/2/07	5:30	352.17	8/2/07	9:55	352.17
8/1/07	16:20	352.19	8/1/07	20:45	352.17	8/2/07	1:10	352.19	8/2/07	5:35	352.17	8/2/07	10:00	352.15
8/1/07	16:25	352.19	8/1/07	20:50	352.17	8/2/07	1:15	352.19	8/2/07	5:40	352.17	8/2/07	10:05	352.17
8/1/07	16:30	352.19	8/1/07	20:55	352.17	8/2/07	1:20	352.19	8/2/07	5:45	352.17	8/2/07	10:10	352.15
8/1/07	16:35	352.19	8/1/07	21:00	352.17	8/2/07	1:25	352.19	8/2/07	5:50	352.17	8/2/07	10:15	352.15
8/1/07	16:40	352.19	8/1/07	21:05	352.17	8/2/07	1:30	352.19	8/2/07	5:55	352.17	8/2/07	10:20	352.17
8/1/07	16:45	352.19	8/1/07	21:10	352.17	8/2/07	1:35	352.19	8/2/07	6:00	352.17	8/2/07	10:25	352.17
8/1/07	16:50	352.19	8/1/07	21:15	352.17	8/2/07	1:40	352.19	8/2/07	6:05	352.17	8/2/07	10:30	352.17
8/1/07	16:55	352.19	8/1/07	21:20	352.15	8/2/07	1:45	352.19	8/2/07	6:10	352.17	8/2/07	10:35	352.17

TABLE D6C.2-10. TRANSDUCER DATA FOR OBSERVATION WELL URZHB-6, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/2/07	10:40	352.17	8/2/07	15:05	352.17	8/2/07	19:30	352.14	8/2/07	23:55	352.14	8/3/07	4:20	352.14
8/2/07	10:45	352.17	8/2/07	15:10	352.17	8/2/07	19:35	352.14	8/3/07	0:00	352.14	8/3/07	4:25	352.14
8/2/07	10:50	352.17	8/2/07	15:15	352.17	8/2/07	19:40	352.12	8/3/07	0:05	352.14	8/3/07	4:30	352.14
8/2/07	10:55	352.17	8/2/07	15:20	352.17	8/2/07	19:45	352.14	8/3/07	0:10	352.14	8/3/07	4:35	352.14
8/2/07	11:00	352.17	8/2/07	15:25	352.17	8/2/07	19:50	352.14	8/3/07	0:15	352.14	8/3/07	4:40	352.14
8/2/07	11:05	352.17	8/2/07	15:30	352.17	8/2/07	19:55	352.12	8/3/07	0:20	352.14	8/3/07	4:45	352.14
8/2/07	11:10	352.17	8/2/07	15:35	352.17	8/2/07	20:00	352.14	8/3/07	0:25	352.14	8/3/07	4:50	352.14
8/2/07	11:15	352.17	8/2/07	15:40	352.17	8/2/07	20:05	352.14	8/3/07	0:30	352.14	8/3/07	4:55	352.14
8/2/07	11:20	352.17	8/2/07	15:45	352.17	8/2/07	20:10	352.14	8/3/07	0:35	352.14	8/3/07	5:00	352.14
8/2/07	11:25	352.17	8/2/07	15:50	352.17	8/2/07	20:15	352.14	8/3/07	0:40	352.14	8/3/07	5:05	352.14
8/2/07	11:30	352.17	8/2/07	15:55	352.17	8/2/07	20:20	352.14	8/3/07	0:45	352.14	8/3/07	5:10	352.14
8/2/07	11:35	352.17	8/2/07	16:00	352.17	8/2/07	20:25	352.14	8/3/07	0:50	352.14	8/3/07	5:15	352.14
8/2/07	11:40	352.17	8/2/07	16:05	352.17	8/2/07	20:30	352.14	8/3/07	0:55	352.14	8/3/07	5:20	352.14
8/2/07	11:45	352.17	8/2/07	16:10	352.17	8/2/07	20:35	352.14	8/3/07	1:00	352.14	8/3/07	5:25	352.14
8/2/07	11:50	352.17	8/2/07	16:15	352.17	8/2/07	20:40	352.14	8/3/07	1:05	352.14	8/3/07	5:30	352.14
8/2/07	11:55	352.17	8/2/07	16:20	352.17	8/2/07	20:45	352.14	8/3/07	1:10	352.14	8/3/07	5:35	352.14
8/2/07	12:00	352.17	8/2/07	16:25	352.17	8/2/07	20:50	352.14	8/3/07	1:15	352.14	8/3/07	5:40	352.14
8/2/07	12:05	352.17	8/2/07	16:30	352.17	8/2/07	20:55	352.14	8/3/07	1:20	352.14	8/3/07	5:45	352.14
8/2/07	12:10	352.17	8/2/07	16:35	352.17	8/2/07	21:00	352.14	8/3/07	1:25	352.14	8/3/07	5:50	352.12
8/2/07	12:15	352.17	8/2/07	16:40	352.15	8/2/07	21:05	352.14	8/3/07	1:30	352.14	8/3/07	5:55	352.12
8/2/07	12:20	352.17	8/2/07	16:45	352.17	8/2/07	21:10	352.14	8/3/07	1:35	352.14	8/3/07	6:00	352.12
8/2/07	12:25	352.17	8/2/07	16:50	352.15	8/2/07	21:15	352.14	8/3/07	1:40	352.14	8/3/07	6:05	352.12
8/2/07	12:30	352.17	8/2/07	16:55	352.15	8/2/07	21:20	352.14	8/3/07	1:45	352.14	8/3/07	6:10	352.12
8/2/07	12:35	352.17	8/2/07	17:00	352.15	8/2/07	21:25	352.14	8/3/07	1:50	352.14	8/3/07	6:15	352.12
8/2/07	12:40	352.17	8/2/07	17:05	352.15	8/2/07	21:30	352.14	8/3/07	1:55	352.14	8/3/07	6:20	352.12
8/2/07	12:45	352.17	8/2/07	17:10	352.15	8/2/07	21:35	352.14	8/3/07	2:00	352.14	8/3/07	6:25	352.12
8/2/07	12:50	352.17	8/2/07	17:15	352.15	8/2/07	21:40	352.14	8/3/07	2:05	352.14	8/3/07	6:30	352.12
8/2/07	12:55	352.17	8/2/07	17:20	352.15	8/2/07	21:45	352.14	8/3/07	2:10	352.14	8/3/07	6:35	352.12
8/2/07	13:00	352.17	8/2/07	17:25	352.15	8/2/07	21:50	352.14	8/3/07	2:15	352.14	8/3/07	6:40	352.12
8/2/07	13:05	352.17	8/2/07	17:30	352.15	8/2/07	21:55	352.14	8/3/07	2:20	352.14	8/3/07	6:45	352.12
8/2/07	13:10	352.17	8/2/07	17:35	352.15	8/2/07	22:00	352.14	8/3/07	2:25	352.14	8/3/07	6:50	352.12
8/2/07	13:15	352.17	8/2/07	17:40	352.15	8/2/07	22:05	352.14	8/3/07	2:30	352.14	8/3/07	6:55	352.12
8/2/07	13:20	352.17	8/2/07	17:45	352.15	8/2/07	22:10	352.14	8/3/07	2:35	352.14	8/3/07	7:00	352.10
8/2/07	13:25	352.17	8/2/07	17:50	352.15	8/2/07	22:15	352.14	8/3/07	2:40	352.14	8/3/07	7:05	352.12
8/2/07	13:30	352.17	8/2/07	17:55	352.17	8/2/07	22:20	352.14	8/3/07	2:45	352.14	8/3/07	7:10	352.10
8/2/07	13:35	352.17	8/2/07	18:00	352.14	8/2/07	22:25	352.14	8/3/07	2:50	352.14	8/3/07	7:15	352.12
8/2/07	13:40	352.17	8/2/07	18:05	352.14	8/2/07	22:30	352.14	8/3/07	2:55	352.14	8/3/07	7:20	352.10
8/2/07	13:45	352.17	8/2/07	18:10	352.14	8/2/07	22:35	352.14	8/3/07	3:00	352.14	8/3/07	7:25	352.10
8/2/07	13:50	352.17	8/2/07	18:15	352.14	8/2/07	22:40	352.14	8/3/07	3:05	352.14	8/3/07	7:30	352.10
8/2/07	13:55	352.17	8/2/07	18:20	352.14	8/2/07	22:45	352.14	8/3/07	3:10	352.14	8/3/07	7:35	352.10
8/2/07	14:00	352.17	8/2/07	18:25	352.14	8/2/07	22:50	352.14	8/3/07	3:15	352.14	8/3/07	7:40	352.10
8/2/07	14:05	352.17	8/2/07	18:30	352.14	8/2/07	22:55	352.14	8/3/07	3:20	352.14	8/3/07	7:45	352.10
8/2/07	14:10	352.17	8/2/07	18:35	352.14	8/2/07	23:00	352.14	8/3/07	3:25	352.14	8/3/07	7:50	352.10
8/2/07	14:15	352.17	8/2/07	18:40	352.14	8/2/07	23:05	352.14	8/3/07	3:30	352.14	8/3/07	7:55	352.10
8/2/07	14:20	352.17	8/2/07	18:45	352.14	8/2/07	23:10	352.14	8/3/07	3:35	352.14	8/3/07	8:00	352.10
8/2/07	14:25	352.17	8/2/07	18:50	352.14	8/2/07	23:15	352.14	8/3/07	3:40	352.14	8/3/07	8:05	352.10
8/2/07	14:30	352.17	8/2/07	18:55	352.14	8/2/07	23:20	352.14	8/3/07	3:45	352.14	8/3/07	8:10	352.10
8/2/07	14:35	352.17	8/2/07	19:00	352.14	8/2/07	23:25	352.14	8/3/07	3:50	352.14	8/3/07	8:15	352.10
8/2/07	14:40	352.17	8/2/07	19:05	352.14	8/2/07	23:30	352.14	8/3/07	3:55	352.14	8/3/07	8:20	352.10
8/2/07	14:45	352.17	8/2/07	19:10	352.14	8/2/07	23:35	352.14	8/3/07	4:00	352.14	8/3/07	8:25	352.10
8/2/07	14:50	352.17	8/2/07	19:15	352.14	8/2/07	23:40	352.14	8/3/07	4:05	352.14	8/3/07	8:30	352.10
8/2/07	14:55	352.17	8/2/07	19:20	352.14	8/2/07	23:45	352.14	8/3/07	4:10	352.14	8/3/07	8:35	352.10
8/2/07	15:00	352.17	8/2/07	19:25	352.14	8/2/07	23:50	352.14	8/3/07	4:15	352.14	8/3/07	8:40	352.10

TABLE D6C.2-10. TRANSDUCER DATA FOR OBSERVATION WELL URZHB-6, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/3/07	8:45	352.10	8/3/07	13:10	352.10	8/3/07	17:35	352.08	8/3/07	22:00	352.08	8/4/07	2:25	352.10
8/3/07	8:50	352.10	8/3/07	13:15	352.10	8/3/07	17:40	352.08	8/3/07	22:05	352.08	8/4/07	2:30	352.10
8/3/07	8:55	352.10	8/3/07	13:20	352.10	8/3/07	17:45	352.08	8/3/07	22:10	352.08	8/4/07	2:35	352.10
8/3/07	9:00	352.10	8/3/07	13:25	352.10	8/3/07	17:50	352.08	8/3/07	22:15	352.08	8/4/07	2:40	352.10
8/3/07	9:05	352.10	8/3/07	13:30	352.10	8/3/07	17:55	352.08	8/3/07	22:20	352.08	8/4/07	2:45	352.10
8/3/07	9:10	352.10	8/3/07	13:35	352.10	8/3/07	18:00	352.08	8/3/07	22:25	352.08	8/4/07	2:50	352.10
8/3/07	9:15	352.10	8/3/07	13:40	352.10	8/3/07	18:05	352.08	8/3/07	22:30	352.08	8/4/07	2:55	352.10
8/3/07	9:20	352.10	8/3/07	13:45	352.10	8/3/07	18:10	352.08	8/3/07	22:35	352.08	8/4/07	3:00	352.10
8/3/07	9:25	352.10	8/3/07	13:50	352.10	8/3/07	18:15	352.08	8/3/07	22:40	352.08	8/4/07	3:05	352.10
8/3/07	9:30	352.10	8/3/07	13:55	352.10	8/3/07	18:20	352.08	8/3/07	22:45	352.08	8/4/07	3:10	352.10
8/3/07	9:35	352.10	8/3/07	14:00	352.10	8/3/07	18:25	352.08	8/3/07	22:50	352.08	8/4/07	3:15	352.10
8/3/07	9:40	352.10	8/3/07	14:05	352.10	8/3/07	18:30	352.08	8/3/07	22:55	352.08	8/4/07	3:20	352.10
8/3/07	9:45	352.10	8/3/07	14:10	352.10	8/3/07	18:35	352.08	8/3/07	23:00	352.08	8/4/07	3:25	352.10
8/3/07	9:50	352.10	8/3/07	14:15	352.10	8/3/07	18:40	352.08	8/3/07	23:05	352.08	8/4/07	3:30	352.10
8/3/07	9:55	352.10	8/3/07	14:20	352.10	8/3/07	18:45	352.08	8/3/07	23:10	352.08	8/4/07	3:35	352.10
8/3/07	10:00	352.10	8/3/07	14:25	352.10	8/3/07	18:50	352.08	8/3/07	23:15	352.08	8/4/07	3:40	352.10
8/3/07	10:05	352.10	8/3/07	14:30	352.10	8/3/07	18:55	352.08	8/3/07	23:20	352.08	8/4/07	3:45	352.10
8/3/07	10:10	352.10	8/3/07	14:35	352.10	8/3/07	19:00	352.08	8/3/07	23:25	352.08	8/4/07	3:50	352.10
8/3/07	10:15	352.10	8/3/07	14:40	352.10	8/3/07	19:05	352.08	8/3/07	23:30	352.08	8/4/07	3:55	352.10
8/3/07	10:20	352.10	8/3/07	14:45	352.10	8/3/07	19:10	352.08	8/3/07	23:35	352.08	8/4/07	4:00	352.10
8/3/07	10:25	352.10	8/3/07	14:50	352.10	8/3/07	19:15	352.08	8/3/07	23:40	352.08	8/4/07	4:05	352.10
8/3/07	10:30	352.10	8/3/07	14:55	352.10	8/3/07	19:20	352.08	8/3/07	23:45	352.08	8/4/07	4:10	352.10
8/3/07	10:35	352.10	8/3/07	15:00	352.10	8/3/07	19:25	352.08	8/3/07	23:50	352.08	8/4/07	4:15	352.10
8/3/07	10:40	352.10	8/3/07	15:05	352.10	8/3/07	19:30	352.08	8/3/07	23:55	352.08	8/4/07	4:20	352.10
8/3/07	10:45	352.10	8/3/07	15:10	352.10	8/3/07	19:35	352.08	8/4/07	0:00	352.10	8/4/07	4:25	352.10
8/3/07	10:50	352.10	8/3/07	15:15	352.10	8/3/07	19:40	352.08	8/4/07	0:05	352.10	8/4/07	4:30	352.10
8/3/07	10:55	352.10	8/3/07	15:20	352.10	8/3/07	19:45	352.08	8/4/07	0:10	352.10	8/4/07	4:35	352.10
8/3/07	11:00	352.10	8/3/07	15:25	352.10	8/3/07	19:50	352.08	8/4/07	0:15	352.10	8/4/07	4:40	352.10
8/3/07	11:05	352.10	8/3/07	15:30	352.10	8/3/07	19:55	352.08	8/4/07	0:20	352.10	8/4/07	4:45	352.10
8/3/07	11:10	352.10	8/3/07	15:35	352.10	8/3/07	20:00	352.08	8/4/07	0:25	352.10	8/4/07	4:50	352.10
8/3/07	11:15	352.10	8/3/07	15:40	352.10	8/3/07	20:05	352.07	8/4/07	0:30	352.10	8/4/07	4:55	352.10
8/3/07	11:20	352.10	8/3/07	15:45	352.10	8/3/07	20:10	352.08	8/4/07	0:35	352.10	8/4/07	5:00	352.10
8/3/07	11:25	352.10	8/3/07	15:50	352.10	8/3/07	20:15	352.07	8/4/07	0:40	352.10	8/4/07	5:05	352.10
8/3/07	11:30	352.10	8/3/07	15:55	352.10	8/3/07	20:20	352.07	8/4/07	0:45	352.10	8/4/07	5:10	352.10
8/3/07	11:35	352.10	8/3/07	16:00	352.10	8/3/07	20:25	352.07	8/4/07	0:50	352.10	8/4/07	5:15	352.10
8/3/07	11:40	352.10	8/3/07	16:05	352.10	8/3/07	20:30	352.07	8/4/07	0:55	352.10	8/4/07	5:20	352.10
8/3/07	11:45	352.10	8/3/07	16:10	352.10	8/3/07	20:35	352.07	8/4/07	1:00	352.10	8/4/07	5:25	352.10
8/3/07	11:50	352.10	8/3/07	16:15	352.10	8/3/07	20:40	352.07	8/4/07	1:05	352.10	8/4/07	5:30	352.10
8/3/07	11:55	352.10	8/3/07	16:20	352.10	8/3/07	20:45	352.07	8/4/07	1:10	352.10	8/4/07	5:35	352.10
8/3/07	12:00	352.10	8/3/07	16:25	352.10	8/3/07	20:50	352.08	8/4/07	1:15	352.10	8/4/07	5:40	352.10
8/3/07	12:05	352.10	8/3/07	16:30	352.10	8/3/07	20:55	352.07	8/4/07	1:20	352.10	8/4/07	5:45	352.10
8/3/07	12:10	352.10	8/3/07	16:35	352.10	8/3/07	21:00	352.08	8/4/07	1:25	352.10	8/4/07	5:50	352.10
8/3/07	12:15	352.10	8/3/07	16:40	352.10	8/3/07	21:05	352.07	8/4/07	1:30	352.10	8/4/07	5:55	352.10
8/3/07	12:20	352.10	8/3/07	16:45	352.10	8/3/07	21:10	352.08	8/4/07	1:35	352.10	8/4/07	6:00	352.10
8/3/07	12:25	352.10	8/3/07	16:50	352.10	8/3/07	21:15	352.08	8/4/07	1:40	352.10	8/4/07	6:05	352.10
8/3/07	12:30	352.10	8/3/07	16:55	352.10	8/3/07	21:20	352.07	8/4/07	1:45	352.10	8/4/07	6:10	352.10
8/3/07	12:35	352.10	8/3/07	17:00	352.08	8/3/07	21:25	352.07	8/4/07	1:50	352.10	8/4/07	6:15	352.10
8/3/07	12:40	352.10	8/3/07	17:05	352.08	8/3/07	21:30	352.07	8/4/07	1:55	352.10	8/4/07	6:20	352.10
8/3/07	12:45	352.10	8/3/07	17:10	352.08	8/3/07	21:35	352.07	8/4/07	2:00	352.10	8/4/07	6:25	352.10
8/3/07	12:50	352.10	8/3/07	17:15	352.08	8/3/07	21:40	352.08	8/4/07	2:05	352.10	8/4/07	6:30	352.10
8/3/07	12:55	352.10	8/3/07	17:20	352.08	8/3/07	21:45	352.07	8/4/07	2:10	352.10	8/4/07	6:35	352.10
8/3/07	13:00	352.10	8/3/07	17:25	352.08	8/3/07	21:50	352.08	8/4/07	2:15	352.10	8/4/07	6:40	352.10
8/3/07	13:05	352.10	8/3/07	17:30	352.08	8/3/07	21:55	352.08	8/4/07	2:20	352.10	8/4/07	6:45	352.10

TABLE D6C.2-10. TRANSDUCER DATA FOR OBSERVATION WELL URZHB-6, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/4/07	6:50	352.10	8/4/07	11:15	352.10	8/4/07	15:40	352.08	8/4/07	20:05	352.07	8/5/07	0:30	352.07
8/4/07	6:55	352.10	8/4/07	11:20	352.10	8/4/07	15:45	352.08	8/4/07	20:10	352.07	8/5/07	0:35	352.07
8/4/07	7:00	352.10	8/4/07	11:25	352.10	8/4/07	15:50	352.08	8/4/07	20:15	352.07	8/5/07	0:40	352.07
8/4/07	7:05	352.10	8/4/07	11:30	352.10	8/4/07	15:55	352.08	8/4/07	20:20	352.07	8/5/07	0:45	352.07
8/4/07	7:10	352.10	8/4/07	11:35	352.10	8/4/07	16:00	352.08	8/4/07	20:25	352.07	8/5/07	0:50	352.07
8/4/07	7:15	352.10	8/4/07	11:40	352.08	8/4/07	16:05	352.08	8/4/07	20:30	352.07	8/5/07	0:55	352.07
8/4/07	7:20	352.10	8/4/07	11:45	352.08	8/4/07	16:10	352.08	8/4/07	20:35	352.07	8/5/07	1:00	352.07
8/4/07	7:25	352.10	8/4/07	11:50	352.10	8/4/07	16:15	352.07	8/4/07	20:40	352.07	8/5/07	1:05	352.07
8/4/07	7:30	352.10	8/4/07	11:55	352.08	8/4/07	16:20	352.07	8/4/07	20:45	352.07	8/5/07	1:10	352.07
8/4/07	7:35	352.10	8/4/07	12:00	352.08	8/4/07	16:25	352.07	8/4/07	20:50	352.07	8/5/07	1:15	352.07
8/4/07	7:40	352.10	8/4/07	12:05	352.10	8/4/07	16:30	352.07	8/4/07	20:55	352.07	8/5/07	1:20	352.08
8/4/07	7:45	352.10	8/4/07	12:10	352.08	8/4/07	16:35	352.07	8/4/07	21:00	352.07	8/5/07	1:25	352.08
8/4/07	7:50	352.10	8/4/07	12:15	352.08	8/4/07	16:40	352.07	8/4/07	21:05	352.07	8/5/07	1:30	352.08
8/4/07	7:55	352.10	8/4/07	12:20	352.10	8/4/07	16:45	352.07	8/4/07	21:10	352.07	8/5/07	1:35	352.08
8/4/07	8:00	352.10	8/4/07	12:25	352.10	8/4/07	16:50	352.07	8/4/07	21:15	352.07	8/5/07	1:40	352.08
8/4/07	8:05	352.10	8/4/07	12:30	352.10	8/4/07	16:55	352.07	8/4/07	21:20	352.07	8/5/07	1:45	352.08
8/4/07	8:10	352.10	8/4/07	12:35	352.08	8/4/07	17:00	352.07	8/4/07	21:25	352.07	8/5/07	1:50	352.08
8/4/07	8:15	352.10	8/4/07	12:40	352.10	8/4/07	17:05	352.07	8/4/07	21:30	352.07	8/5/07	1:55	352.08
8/4/07	8:20	352.10	8/4/07	12:45	352.10	8/4/07	17:10	352.07	8/4/07	21:35	352.07	8/5/07	2:00	352.08
8/4/07	8:25	352.10	8/4/07	12:50	352.10	8/4/07	17:15	352.07	8/4/07	21:40	352.07	8/5/07	2:05	352.08
8/4/07	8:30	352.10	8/4/07	12:55	352.10	8/4/07	17:20	352.07	8/4/07	21:45	352.07	8/5/07	2:10	352.08
8/4/07	8:35	352.10	8/4/07	13:00	352.10	8/4/07	17:25	352.07	8/4/07	21:50	352.07	8/5/07	2:15	352.08
8/4/07	8:40	352.10	8/4/07	13:05	352.10	8/4/07	17:30	352.07	8/4/07	21:55	352.07	8/5/07	2:20	352.08
8/4/07	8:45	352.10	8/4/07	13:10	352.10	8/4/07	17:35	352.07	8/4/07	22:00	352.07	8/5/07	2:25	352.08
8/4/07	8:50	352.10	8/4/07	13:15	352.10	8/4/07	17:40	352.07	8/4/07	22:05	352.07	8/5/07	2:30	352.08
8/4/07	8:55	352.10	8/4/07	13:20	352.10	8/4/07	17:45	352.07	8/4/07	22:10	352.07	8/5/07	2:35	352.08
8/4/07	9:00	352.10	8/4/07	13:25	352.10	8/4/07	17:50	352.07	8/4/07	22:15	352.07	8/5/07	2:40	352.08
8/4/07	9:05	352.10	8/4/07	13:30	352.10	8/4/07	17:55	352.07	8/4/07	22:20	352.07	8/5/07	2:45	352.08
8/4/07	9:10	352.10	8/4/07	13:35	352.08	8/4/07	18:00	352.07	8/4/07	22:25	352.07	8/5/07	2:50	352.08
8/4/07	9:15	352.10	8/4/07	13:40	352.08	8/4/07	18:05	352.07	8/4/07	22:30	352.07	8/5/07	2:55	352.08
8/4/07	9:20	352.10	8/4/07	13:45	352.10	8/4/07	18:10	352.07	8/4/07	22:35	352.07	8/5/07	3:00	352.08
8/4/07	9:25	352.10	8/4/07	13:50	352.10	8/4/07	18:15	352.07	8/4/07	22:40	352.07	8/5/07	3:05	352.08
8/4/07	9:30	352.10	8/4/07	13:55	352.08	8/4/07	18:20	352.07	8/4/07	22:45	352.07	8/5/07	3:10	352.08
8/4/07	9:35	352.10	8/4/07	14:00	352.08	8/4/07	18:25	352.07	8/4/07	22:50	352.07	8/5/07	3:15	352.08
8/4/07	9:40	352.10	8/4/07	14:05	352.08	8/4/07	18:30	352.07	8/4/07	22:55	352.07	8/5/07	3:20	352.08
8/4/07	9:45	352.10	8/4/07	14:10	352.08	8/4/07	18:35	352.07	8/4/07	23:00	352.07	8/5/07	3:25	352.08
8/4/07	9:50	352.10	8/4/07	14:15	352.08	8/4/07	18:40	352.07	8/4/07	23:05	352.07	8/5/07	3:30	352.08
8/4/07	9:55	352.10	8/4/07	14:20	352.08	8/4/07	18:45	352.07	8/4/07	23:10	352.07	8/5/07	3:35	352.08
8/4/07	10:00	352.10	8/4/07	14:25	352.08	8/4/07	18:50	352.07	8/4/07	23:15	352.07	8/5/07	3:40	352.08
8/4/07	10:05	352.10	8/4/07	14:30	352.08	8/4/07	18:55	352.07	8/4/07	23:20	352.07	8/5/07	3:45	352.08
8/4/07	10:10	352.10	8/4/07	14:35	352.08	8/4/07	19:00	352.07	8/4/07	23:25	352.07	8/5/07	3:50	352.08
8/4/07	10:15	352.10	8/4/07	14:40	352.08	8/4/07	19:05	352.07	8/4/07	23:30	352.07	8/5/07	3:55	352.08
8/4/07	10:20	352.10	8/4/07	14:45	352.08	8/4/07	19:10	352.07	8/4/07	23:35	352.07	8/5/07	4:00	352.08
8/4/07	10:25	352.10	8/4/07	14:50	352.08	8/4/07	19:15	352.07	8/4/07	23:40	352.07	8/5/07	4:05	352.08
8/4/07	10:30	352.10	8/4/07	14:55	352.08	8/4/07	19:20	352.07	8/4/07	23:45	352.07	8/5/07	4:10	352.08
8/4/07	10:35	352.10	8/4/07	15:00	352.08	8/4/07	19:25	352.07	8/4/07	23:50	352.07	8/5/07	4:15	352.10
8/4/07	10:40	352.10	8/4/07	15:05	352.08	8/4/07	19:30	352.07	8/4/07	23:55	352.07	8/5/07	4:20	352.10
8/4/07	10:45	352.10	8/4/07	15:10	352.08	8/4/07	19:35	352.07	8/5/07	0:00	352.07	8/5/07	4:25	352.08
8/4/07	10:50	352.10	8/4/07	15:15	352.08	8/4/07	19:40	352.07	8/5/07	0:05	352.07	8/5/07	4:30	352.08
8/4/07	10:55	352.10	8/4/07	15:20	352.08	8/4/07	19:45	352.07	8/5/07	0:10	352.07	8/5/07	4:35	352.08
8/4/07	11:00	352.10	8/4/07	15:25	352.08	8/4/07	19:50	352.07	8/5/07	0:15	352.07	8/5/07	4:40	352.08
8/4/07	11:05	352.10	8/4/07	15:30	352.08	8/4/07	19:55	352.07	8/5/07	0:20	352.07	8/5/07	4:45	352.08
8/4/07	11:10	352.10	8/4/07	15:35	352.08	8/4/07	20:00	352.07	8/5/07	0:25	352.07	8/5/07	4:50	352.08

TABLE D6C.2-10. TRANSDUCER DATA FOR OBSERVATION WELL URZHB-6, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
8/5/07	4:55	352.08	8/5/07	9:20	352.10	8/6/07	9:05	352.14	8/8/07	14:05	352.07			
8/5/07	5:00	352.08	8/5/07	9:25	352.10	8/6/07	10:05	352.10	8/8/07	15:05	352.03			
8/5/07	5:05	352.08	8/5/07	9:30	352.10	8/6/07	11:05	352.10	8/8/07	16:05	352.03			
8/5/07	5:10	352.08	8/5/07	9:35	352.10	8/6/07	12:05	352.07	8/8/07	17:05	352.03			
8/5/07	5:15	352.08	8/5/07	9:40	352.10	8/6/07	13:05	352.07	8/8/07	17:30	352.03			
8/5/07	5:20	352.10	8/5/07	9:45	352.10	8/6/07	14:05	352.03						
8/5/07	5:25	352.08	8/5/07	9:50	352.10	8/6/07	15:05	352.03						
8/5/07	5:30	352.08	8/5/07	9:55	352.10	8/6/07	16:05	352.03						
8/5/07	5:35	352.10	8/5/07	10:00	352.10	8/6/07	17:05	351.98						
8/5/07	5:40	352.10	8/5/07	10:05	352.10	8/6/07	18:05	352.03						
8/5/07	5:45	352.10	8/5/07	10:10	352.10	8/6/07	19:05	352.03						
8/5/07	5:50	352.10	8/5/07	10:15	352.10	8/6/07	20:05	352.03						
8/5/07	5:55	352.10	8/5/07	10:20	352.10	8/6/07	21:05	352.07						
8/5/07	6:00	352.10	8/5/07	10:25	352.10	8/6/07	22:05	352.03						
8/5/07	6:05	352.10	8/5/07	10:30	352.08	8/6/07	23:05	352.03						
8/5/07	6:10	352.10	8/5/07	10:35	352.10	8/7/07	0:05	352.03						
8/5/07	6:15	352.10	8/5/07	10:40	352.10	8/7/07	1:05	352.03						
8/5/07	6:20	352.10	8/5/07	10:45	352.10	8/7/07	2:05	352.03						
8/5/07	6:25	352.10	8/5/07	10:50	352.10	8/7/07	3:05	352.07						
8/5/07	6:30	352.10	8/5/07	10:55	352.10	8/7/07	4:05	352.07						
8/5/07	6:35	352.10	8/5/07	11:00	352.10	8/7/07	5:05	352.07						
8/5/07	6:40	352.10	8/5/07	11:05	352.10	8/7/07	6:05	352.10						
8/5/07	6:45	352.10	8/5/07	11:10	352.10	8/7/07	7:05	352.10						
8/5/07	6:50	352.10	8/5/07	11:15	352.10	8/7/07	8:05	352.10						
8/5/07	6:55	352.10	8/5/07	11:20	352.10	8/7/07	9:05	352.10						
8/5/07	7:00	352.10	8/5/07	11:25	352.10	8/7/07	10:05	352.10						
8/5/07	7:05	352.10	8/5/07	11:30	352.10	8/7/07	11:05	352.10						
8/5/07	7:10	352.10	8/5/07	11:35	352.10	8/7/07	12:05	352.07						
8/5/07	7:15	352.10	8/5/07	11:40	352.10	8/7/07	13:05	352.03						
8/5/07	7:20	352.10	8/5/07	11:45	352.08	8/7/07	14:05	351.98						
8/5/07	7:25	352.10	8/5/07	11:50	352.10	8/7/07	15:05	351.94						
8/5/07	7:30	352.10	8/5/07	11:55	352.08	8/7/07	16:05	351.94						
8/5/07	7:35	352.10	8/5/07	12:00	352.08	8/7/07	17:05	351.94						
8/5/07	7:40	352.10	8/5/07	13:05	352.14	8/7/07	18:05	351.91						
8/5/07	7:45	352.10	8/5/07	14:05	352.10	8/7/07	19:05	351.91						
8/5/07	7:50	352.10	8/5/07	15:05	352.10	8/7/07	20:05	351.91						
8/5/07	7:55	352.10	8/5/07	16:05	352.07	8/7/07	21:05	351.94						
8/5/07	8:00	352.10	8/5/07	17:05	352.07	8/7/07	22:05	351.94						
8/5/07	8:05	352.10	8/5/07	18:05	352.03	8/7/07	23:05	351.94						
8/5/07	8:10	352.10	8/5/07	19:05	352.03	8/8/07	0:05	351.94						
8/5/07	8:15	352.10	8/5/07	20:05	352.03	8/8/07	1:05	351.94						
8/5/07	8:20	352.10	8/5/07	21:05	352.07	8/8/07	2:05	351.98						
8/5/07	8:25	352.10	8/5/07	22:05	352.10	8/8/07	3:05	351.98						
8/5/07	8:30	352.10	8/5/07	23:05	352.07	8/8/07	4:05	352.03						
8/5/07	8:35	352.10	8/6/07	0:05	352.07	8/8/07	5:05	352.03						
8/5/07	8:40	352.10	8/6/07	1:05	352.07	8/8/07	6:05	352.07						
8/5/07	8:45	352.10	8/6/07	2:05	352.07	8/8/07	7:05	352.10						
8/5/07	8:50	352.10	8/6/07	3:05	352.10	8/8/07	8:05	352.10						
8/5/07	8:55	352.10	8/6/07	4:05	352.10	8/8/07	9:05	352.14						
8/5/07	9:00	352.10	8/6/07	5:05	352.10	8/8/07	10:05	352.17						
8/5/07	9:05	352.10	8/6/07	6:05	352.10	8/8/07	11:05	352.14						
8/5/07	9:10	352.10	8/6/07	7:05	352.14	8/8/07	12:05	352.14						
8/5/07	9:15	352.10	8/6/07	8:05	352.14	8/8/07	13:05	352.10						

D6C.3 URZHF-1 MULTI-WELL TEST

A multi-well pump test was conducted on F Sand well URZHF-1 by pumping this well for three days at an average rate of 1.3 gallons per minute. Water levels were also observed in the overlying and underlying wells during this multi-well pump test.

D6C.3.1 PUMPING WELL URZHF-1

The pumping data and water-level data are presented in Table D6C.3-1 and D6C.3-2 for well URZHF-1. The plot of the drawdown data is presented in Figure D6C.3-1 which shows considerable variations in water levels during this pump test. Variations in the small pumping rate resulted in the water levels fluctuating in pumping well URZHF-1, making it unusable in determining aquifer properties. Figure D6C.3-2 presents a recovery plot of the pumping well URZHF-1. A straight-line fit of the late time data from this pumping well produced a transmissivity of 149 gal/day/ft. This is the best transmissivity value for the F Sand at well URZHF-1 but could be an error due to the unconfined conditions of the F Sand in this area.

D6C.3.2 OVERLYING OBSERVATION WELL URZHG-3

Water level data was collected during the URZHF-1 pump test in overlying G Sand well URZHG-3. Table D6C.3-3 presents the manual water level data while table D6C.3-4 presents the transducer water level data. The plot of the water level changes in well URZHG-3 are presented in Figure D6C.3-3. The barometric pressure data is also presented in this figure and has changes that correspond very well with the water-level changes that occur in well URZHG-3. This data indicates no connection in this area between the F Sand and the G Sand.

D6C.3.3 UNDERLYING OBSERVATION WELL URZHC-2

C Sand well URZHC-2 was also observed for water levels during the URZHF-1 pumping to determine if the C Sand shows any connection with the F Sand in this area. Table D6C.3-3 presents the manual water levels collected during this pump test. These water level changes for this well were also plotted on Figure D6C.3-3 which shows a similar pattern to water level changes to that observed in well URZHG-3. No indication exists that a connection exists between the C Sand and the F Sand in the area of URZHC-2.

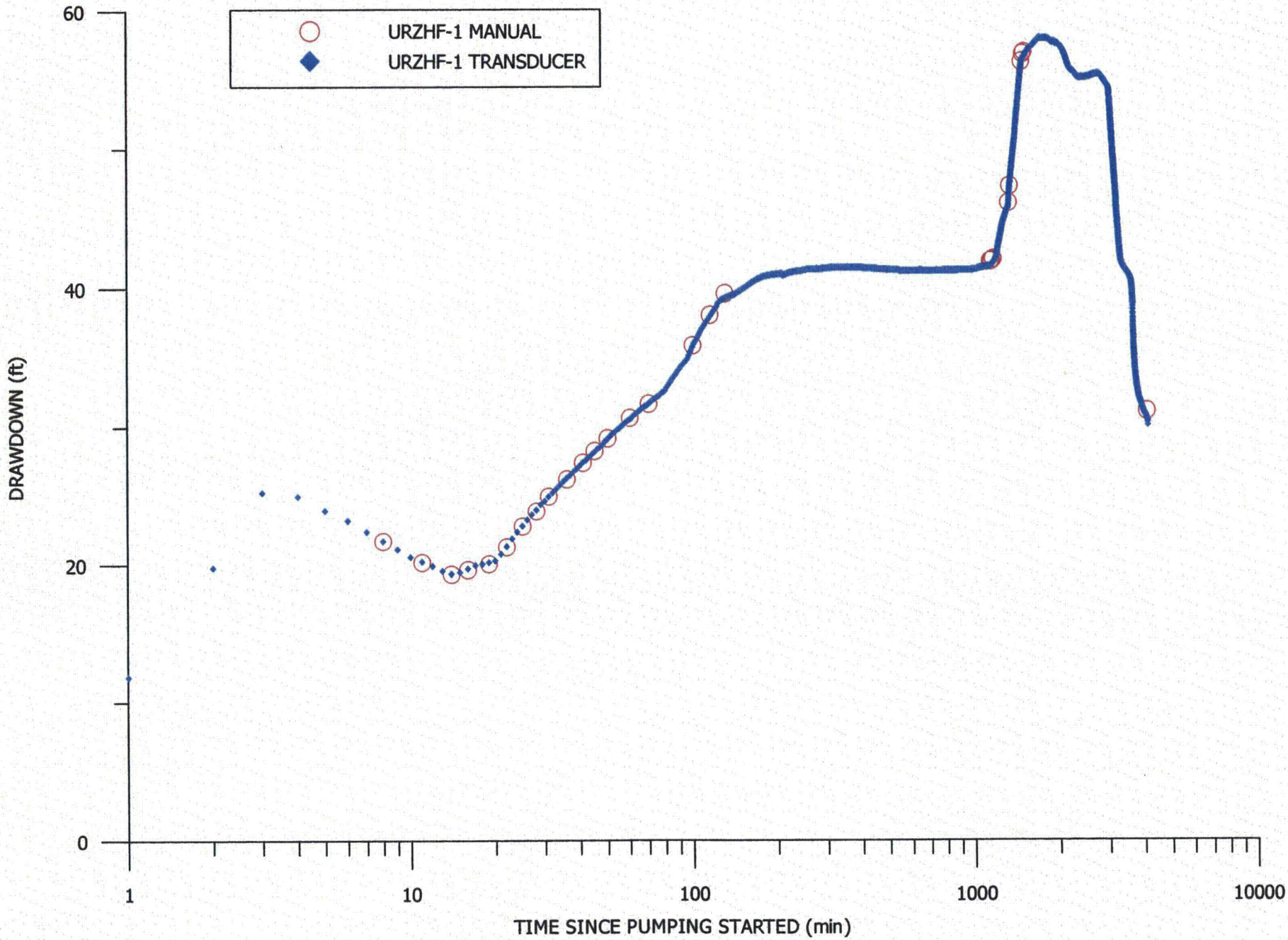

FIGURE D6C.3-1. DRAWDOWN IN PUMPING WELL URZHF-1

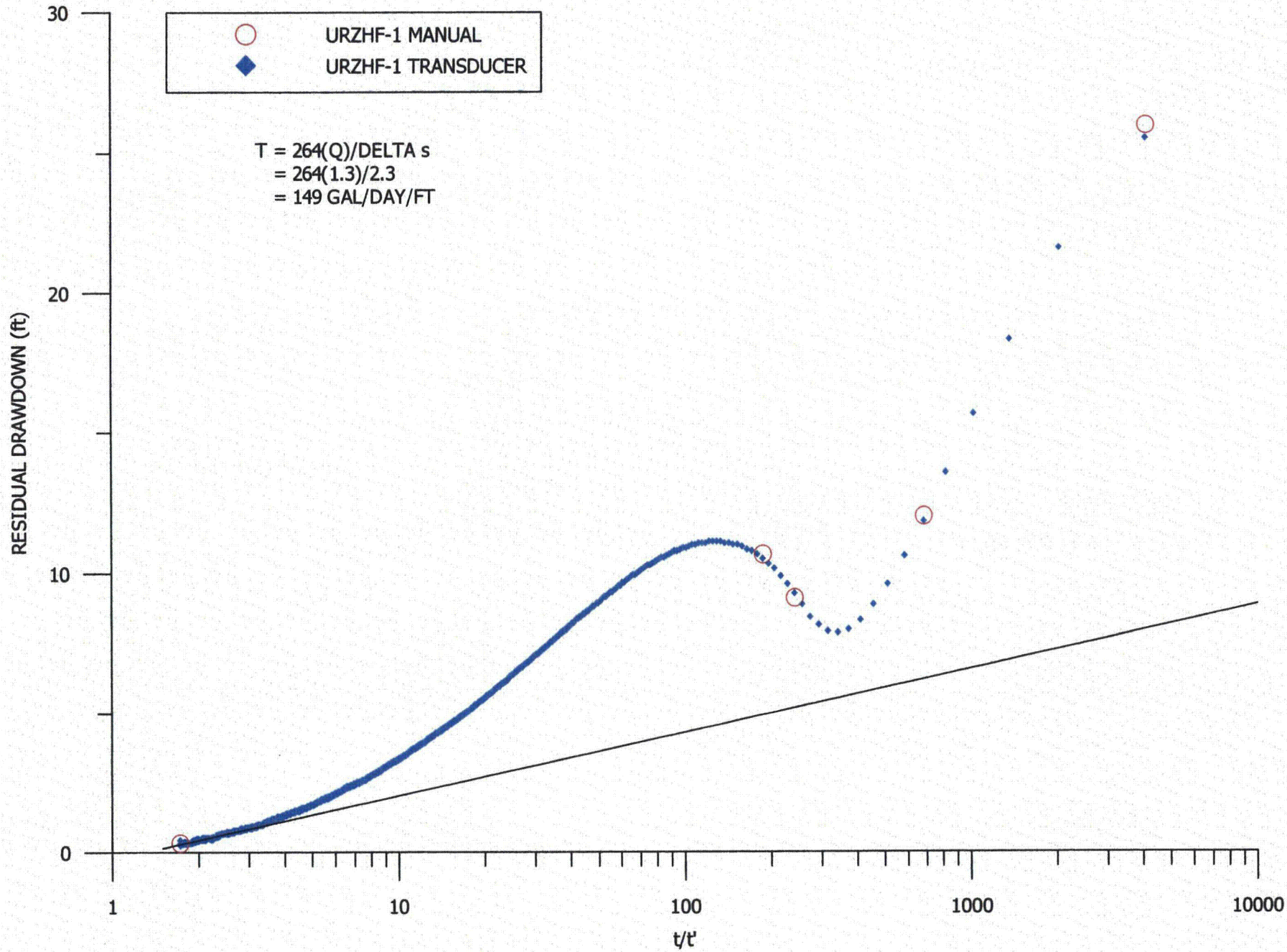

FIGURE D6C.3-2. RECOVERY IN PUMPING WELL URZHF-1

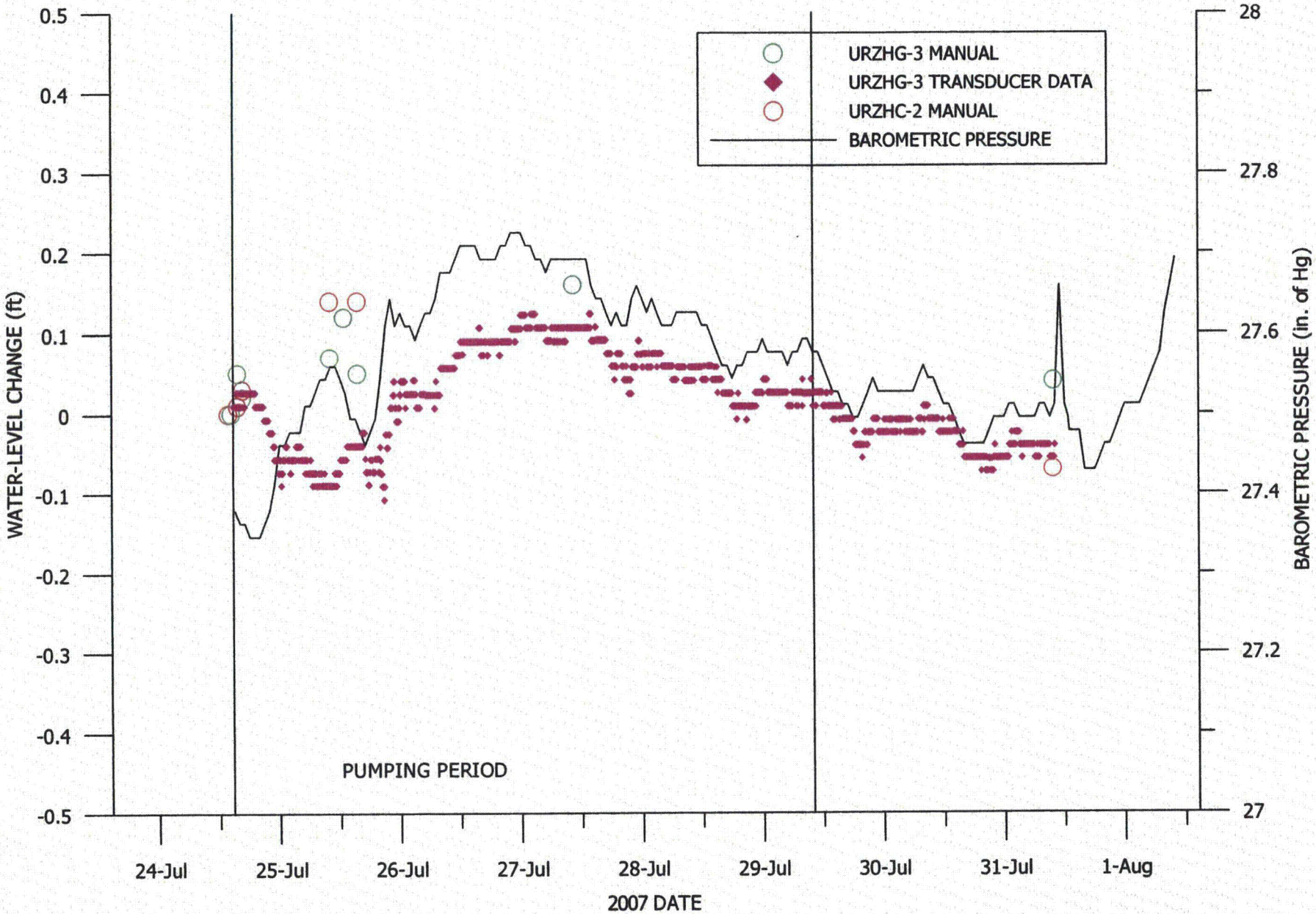

FIGURE D6C.3-3. BAROMETRIC PRESSURE AND WATER-LEVEL CHANGE IN OVERLYING OBSERVATION WELL URZHG-3 AND UNDERLYING OBSERVATION WELL URZHC-2

ABLE D6C.3-1. AQUIFER-TEST DATA FOR PUMPING WELL URZHF-1.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/24/07	13:58:00	-42	--	--	329.34	0.00	--	--	--	--
	14:40:00	PUMP ON								
	14:45:00	5	--	--	--	--	1.30	--	--	--
	14:47:00	7	--	--	--	--	0.89	--	--	--
	14:48:00	8	--	--	351.05	21.71	--	--	--	--
	14:50:00	10	--	--	--	--	0.82	--	--	--
	14:51:00	11	--	--	349.49	20.15	0.75	--	--	--
	14:54:00	14	--	--	348.65	19.31	--	--	--	--
	14:56:00	16	--	--	348.97	19.63	1.20	--	--	--
	14:59:00	19	--	--	349.40	20.06	1.00	--	--	--
	15:01:00	21	--	--	--	--	1.30	--	--	--
	15:02:00	22	--	--	350.62	21.28	--	--	--	--
	15:05:00	25	--	--	352.15	22.81	1.30	--	--	--
	15:08:00	28	--	--	353.25	23.91	1.30	--	--	--
	15:11:00	31	--	--	354.35	25.01	1.30	--	--	--
	15:16:00	36	--	--	355.60	26.26	1.30	--	--	--
	15:21:00	41	--	--	356.78	27.44	--	--	--	--
	15:25:00	45	--	--	357.62	28.28	1.30	--	--	--
	15:30:00	50	--	--	358.53	29.19	--	--	--	--
	15:40:00	60	--	--	359.99	30.65	1.30	--	--	--
	15:50:00	70	--	--	361.01	31.67	1.30	--	--	--
	16:15:00	95	--	--	--	--	1.30	--	--	--
	16:19:00	99	--	--	--	--	1.40	--	--	--
	16:20:00	100	--	--	365.25	35.91	--	--	--	--
	16:35:00	115	--	--	367.42	38.08	1.40	--	--	--
	16:50:00	130	--	--	368.94	39.60	1.40	--	--	--
07/25/07	9:30:00	1130	--	--	371.24	41.90	1.10	--	--	--
	9:42:00	1142	--	--	--	--	1.40	--	--	--
	9:43:00	1143	--	--	371.30	41.96	--	--	--	--
	9:58:00	1158	--	--	371.40	42.06	1.30	--	--	--
	12:32:00	1312	--	--	375.45	46.11	1.80	--	--	--
	12:35:00	1315	--	--	--	--	1.40	--	--	--
	12:44:00	1324	--	--	376.66	47.32	1.40	--	--	--
	15:02:00	1462	--	--	385.68	56.34	1.30	--	--	--
	15:15:00	1475	--	--	--	--	1.10	--	--	--
	15:16:00	1476	--	--	386.25	56.91	--	--	--	--
	15:30:00	1490	--	--	386.38	57.04	1.10	--	--	--
07/27/07	10:13:00	4053	--	--	360.47	31.13	--	--	--	--
	10:45:00	4085	--	--	--	--	--	17.2	--	8.86
	10:48:00	4088	--	--	--	--	--	16.9	--	9.23
	10:50:00	4090	--	--	--	--	--	17.1	--	9.21
	10:53:00	SAMPLE TAKEN								
	11:03:00	PUMP OFF								
	11:04:00	4104	1	4104.0	355.31	25.97	--	--	--	--
	11:09:00	4109	6	684.8	341.34	12.00	--	--	--	--

TABLE D6C.3-1. AQUIFER-TEST DATA FOR PUMPING WELL URZHF-1, (CONTINUED).

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/27/07	11:20:00	4120	17	242.4	338.45	9.11	--	--	--	--
	11:25:00	4125	22	187.5	339.98	10.64	--	--	--	--
07/31/07	9:51:00	9791	5688	1.7	329.65	0.31	--	--	--	--

TABLE D6C.3-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-1.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/24/07	14:37	329.66	7/24/07	15:30	358.44	7/24/07	16:23	365.61	7/24/07	17:16	369.44	7/25/07	3:01	370.11
7/24/07	14:38	329.66	7/24/07	15:31	358.61	7/24/07	16:24	365.77	7/24/07	17:17	369.50	7/25/07	4:01	370.22
7/24/07	14:39	329.66	7/24/07	15:32	358.83	7/24/07	16:25	365.94	7/24/07	17:18	369.50	7/25/07	5:01	370.11
7/24/07	14:40	330.16	7/24/07	15:33	358.94	7/24/07	16:26	366.11	7/24/07	17:19	369.55	7/25/07	6:01	370.22
7/24/07	14:41	341.16	7/24/07	15:34	359.11	7/24/07	16:27	366.27	7/24/07	17:20	369.61	7/25/07	7:01	370.33
7/24/07	14:42	349.11	7/24/07	15:35	359.22	7/24/07	16:28	366.44	7/24/07	17:21	369.61	7/25/07	8:01	370.44
7/24/07	14:43	354.61	7/24/07	15:36	359.38	7/24/07	16:29	366.55	7/24/07	17:22	369.66	7/25/07	9:01	370.66
7/24/07	14:44	354.33	7/24/07	15:37	359.50	7/24/07	16:30	366.66	7/24/07	17:23	369.72	7/25/07	10:01	371.22
7/24/07	14:45	353.27	7/24/07	15:38	359.66	7/24/07	16:31	366.83	7/24/07	17:24	369.72	7/25/07	11:01	374.44
7/24/07	14:46	352.55	7/24/07	15:39	359.77	7/24/07	16:32	366.94	7/24/07	17:25	369.77	7/25/07	12:01	378.11
7/24/07	14:47	351.72	7/24/07	15:40	359.88	7/24/07	16:33	367.05	7/24/07	17:26	369.83	7/25/07	13:01	384.11
7/24/07	14:48	351.05	7/24/07	15:41	360.00	7/24/07	16:34	367.11	7/24/07	17:27	369.83	7/25/07	14:01	391.77
7/24/07	14:49	350.44	7/24/07	15:42	360.16	7/24/07	16:35	367.27	7/24/07	17:28	369.88	7/25/07	15:01	399.44
7/24/07	14:50	349.88	7/24/07	15:43	360.27	7/24/07	16:36	367.38	7/24/07	17:29	369.94	7/25/07	16:01	401.44
7/24/07	14:51	349.55	7/24/07	15:44	360.38	7/24/07	16:37	367.50	7/24/07	17:30	369.94	7/25/07	17:01	402.33
7/24/07	14:52	349.22	7/24/07	15:45	360.50	7/24/07	16:38	367.61	7/24/07	17:31	370.00	7/25/07	18:01	403.00
7/24/07	14:53	348.88	7/24/07	15:46	360.61	7/24/07	16:39	367.72	7/24/07	17:32	370.00	7/25/07	19:01	403.66
7/24/07	14:54	348.66	7/24/07	15:47	360.72	7/24/07	16:40	367.83	7/24/07	17:33	370.00	7/25/07	20:01	403.66
7/24/07	14:55	348.77	7/24/07	15:48	360.83	7/24/07	16:41	367.94	7/24/07	17:34	370.05	7/25/07	21:01	403.66
7/24/07	14:56	349.05	7/24/07	15:49	360.88	7/24/07	16:42	368.05	7/24/07	17:35	370.05	7/25/07	22:01	403.22
7/24/07	14:57	349.27	7/24/07	15:50	361.00	7/24/07	16:43	368.22	7/24/07	17:36	370.11	7/25/07	23:01	403.00
7/24/07	14:58	349.38	7/24/07	15:51	361.11	7/24/07	16:44	368.33	7/24/07	17:37	370.11	7/26/07	0:01	402.66
7/24/07	14:59	349.50	7/24/07	15:52	361.22	7/24/07	16:45	368.38	7/24/07	17:38	370.11	7/26/07	1:01	402.00
7/24/07	15:00	349.61	7/24/07	15:53	361.33	7/24/07	16:46	368.50	7/24/07	17:39	370.16	7/26/07	2:01	400.55
7/24/07	15:01	350.11	7/24/07	15:54	361.38	7/24/07	16:47	368.50	7/24/07	17:40	370.16	7/26/07	3:01	399.33
7/24/07	15:02	350.66	7/24/07	15:55	361.50	7/24/07	16:48	368.55	7/24/07	17:41	370.16	7/26/07	4:01	398.88
7/24/07	15:03	351.22	7/24/07	15:56	361.55	7/24/07	16:49	368.55	7/24/07	17:42	370.16	7/26/07	5:01	398.33
7/24/07	15:04	351.72	7/24/07	15:57	361.66	7/24/07	16:50	368.61	7/24/07	17:43	370.16	7/26/07	6:01	398.00
7/24/07	15:05	352.16	7/24/07	15:58	361.77	7/24/07	16:51	368.61	7/24/07	17:44	370.22	7/26/07	7:01	398.00
7/24/07	15:06	352.61	7/24/07	15:59	361.83	7/24/07	16:52	368.66	7/24/07	17:45	370.22	7/26/07	8:01	398.00
7/24/07	15:07	353.00	7/24/07	16:00	361.94	7/24/07	16:53	368.66	7/24/07	17:46	370.22	7/26/07	9:01	398.11
7/24/07	15:08	353.33	7/24/07	16:01	362.16	7/24/07	16:54	368.72	7/24/07	17:47	370.22	7/26/07	10:01	398.33
7/24/07	15:09	353.72	7/24/07	16:02	362.33	7/24/07	16:55	368.72	7/24/07	17:48	370.22	7/26/07	11:01	398.44
7/24/07	15:10	354.00	7/24/07	16:03	362.50	7/24/07	16:56	368.77	7/24/07	17:49	370.22	7/26/07	12:01	398.55
7/24/07	15:11	354.33	7/24/07	16:04	362.66	7/24/07	16:57	368.77	7/24/07	17:50	370.27	7/26/07	13:01	398.44
7/24/07	15:12	354.61	7/24/07	16:05	362.83	7/24/07	16:58	368.83	7/24/07	17:51	370.27	7/26/07	14:01	398.00
7/24/07	15:13	354.88	7/24/07	16:06	363.00	7/24/07	16:59	368.83	7/24/07	17:52	370.27	7/26/07	15:01	397.33
7/24/07	15:14	355.16	7/24/07	16:07	363.11	7/24/07	17:00	368.83	7/24/07	17:53	370.27	7/26/07	16:01	396.77
7/24/07	15:15	355.44	7/24/07	16:08	363.27	7/24/07	17:01	368.88	7/24/07	17:54	370.27	7/26/07	17:01	394.00
7/24/07	15:16	355.66	7/24/07	16:09	363.44	7/24/07	17:02	368.88	7/24/07	17:55	370.27	7/26/07	18:01	388.00
7/24/07	15:17	355.88	7/24/07	16:10	363.55	7/24/07	17:03	368.94	7/24/07	17:56	370.27	7/26/07	19:01	382.77
7/24/07	15:18	356.11	7/24/07	16:11	363.72	7/24/07	17:04	369.00	7/24/07	17:57	370.27	7/26/07	20:01	377.44
7/24/07	15:19	356.33	7/24/07	16:12	363.83	7/24/07	17:05	369.05	7/24/07	17:58	370.33	7/26/07	21:01	373.22
7/24/07	15:20	356.55	7/24/07	16:13	363.94	7/24/07	17:06	369.11	7/24/07	17:59	370.33	7/26/07	22:01	371.11
7/24/07	15:21	356.77	7/24/07	16:14	364.05	7/24/07	17:07	369.11	7/24/07	18:00	370.33	7/26/07	23:01	370.55
7/24/07	15:22	356.94	7/24/07	16:15	364.16	7/24/07	17:08	369.11	7/24/07	19:01	370.33	7/27/07	0:01	370.11
7/24/07	15:23	357.16	7/24/07	16:16	364.27	7/24/07	17:09	369.16	7/24/07	20:01	370.55	7/27/07	1:01	369.55
7/24/07	15:24	357.33	7/24/07	16:17	364.50	7/24/07	17:10	369.22	7/24/07	21:01	370.55	7/27/07	2:01	369.00
7/24/07	15:25	357.55	7/24/07	16:18	364.72	7/24/07	17:11	369.22	7/24/07	22:01	370.44	7/27/07	3:01	366.00
7/24/07	15:26	357.72	7/24/07	16:19	364.88	7/24/07	17:12	369.27	7/24/07	23:01	370.22	7/27/07	4:01	357.00
7/24/07	15:27	357.88	7/24/07	16:20	365.11	7/24/07	17:13	369.33	7/25/07	0:01	370.11	7/27/07	5:01	354.00
7/24/07	15:28	358.05	7/24/07	16:21	365.33	7/24/07	17:14	369.33	7/25/07	1:01	370.11	7/27/07	6:01	352.33
7/24/07	15:29	358.27	7/24/07	16:22	365.50	7/24/07	17:15	369.38	7/25/07	2:01	370.11	7/27/07	7:01	351.33

TABLE D6C.3-2. TRANSDUCER DATA FOR PUMPING WELL URZHF-1, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/27/07	8:01	350.44	7/29/07	13:01	330.57									
7/27/07	9:01	349.77	7/29/07	14:01	330.43									
7/27/07	10:01	349.22	7/29/07	15:01	330.43									
7/27/07	11:01	348.44	7/29/07	16:01	330.40									
7/27/07	12:01	349.65	7/29/07	17:01	330.40									
7/27/07	13:01	344.76	7/29/07	18:01	330.25									
7/27/07	14:01	341.69	7/29/07	19:01	330.25									
7/27/07	15:01	339.77	7/29/07	20:01	330.29									
7/27/07	16:01	338.33	7/29/07	21:01	330.32									
7/27/07	17:01	337.29	7/29/07	22:01	330.35									
7/27/07	18:01	336.48	7/29/07	23:01	330.32									
7/27/07	19:01	335.85	7/30/07	0:01	330.32									
7/27/07	20:01	335.15	7/30/07	1:01	330.21									
7/27/07	21:01	334.71	7/30/07	2:01	330.21									
7/27/07	22:01	334.33	7/30/07	3:01	330.21									
7/27/07	23:01	334.03	7/30/07	4:01	330.21									
7/28/07	0:01	333.77	7/30/07	5:01	330.21									
7/28/07	1:01	333.41	7/30/07	6:01	330.21									
7/28/07	2:01	333.22	7/30/07	7:01	330.24									
7/28/07	3:01	332.96	7/30/07	8:01	330.27									
7/28/07	4:01	332.71	7/30/07	9:01	330.13									
7/28/07	5:01	332.60	7/30/07	10:01	330.24									
7/28/07	6:01	332.48	7/30/07	11:01	330.10									
7/28/07	7:01	332.29	7/30/07	12:01	330.18									
7/28/07	8:01	332.18	7/30/07	13:01	330.18									
7/28/07	9:01	332.07	7/30/07	14:01	330.14									
7/28/07	10:01	331.96	7/30/07	15:01	330.00									
7/28/07	11:01	331.85	7/30/07	16:01	329.97									
7/28/07	12:01	331.71	7/30/07	17:01	329.97									
7/28/07	13:01	331.60	7/30/07	18:01	329.97									
7/28/07	14:01	331.56	7/30/07	19:01	329.97									
7/28/07	15:01	331.42	7/30/07	20:01	329.97									
7/28/07	16:01	331.27	7/30/07	21:01	330.00									
7/28/07	17:01	331.27	7/30/07	22:01	330.03									
7/28/07	18:01	331.24	7/30/07	23:01	330.03									
7/28/07	19:01	331.16	7/31/07	0:01	330.03									
7/28/07	20:01	331.16	7/31/07	1:01	329.95									
7/28/07	21:01	331.08	7/31/07	2:01	329.95									
7/28/07	22:01	331.08	7/31/07	3:01	329.92									
7/28/07	23:01	330.97	7/31/07	4:01	329.92									
7/29/07	0:01	331.01	7/31/07	5:01	329.92									
7/29/07	1:01	330.86	7/31/07	6:01	329.92									
7/29/07	2:01	330.86	7/31/07	7:01	329.95									
7/29/07	3:01	330.86	7/31/07	8:01	329.95									
7/29/07	4:01	330.75	7/31/07	9:01	329.92									
7/29/07	5:01	330.72	7/31/07	10:01	329.84									
7/29/07	6:01	330.75												
7/29/07	7:01	330.75												
7/29/07	8:01	330.67												
7/29/07	9:01	330.67												
7/29/07	10:01	330.64												
7/29/07	11:01	330.64												
7/29/07	12:01	330.61												

TABLE D6C.3-3. AQUIFER-TEST DATA FOR OBSERVATION WELL URZHG-3.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/24/07	14:15:00	-25	--	--	274.22	0.00	--	--	--	--
	14:40:00	PUMP ON								
	15:29:00	49	--	--	274.27	0.05	--	--	--	--
	16:30:00	110	--	--	274.24	0.02	--	--	--	--
07/25/07	9:54:00	1154	--	--	274.29	0.07	--	--	--	--
	12:40:00	1320	--	--	274.34	0.12	--	--	--	--
	15:25:00	1485	--	--	274.27	0.05	--	--	--	--
07/27/07	10:20:00	4060	--	--	274.38	0.16	--	--	--	--
	11:03:00	PUMP OFF								
07/31/07	9:47:00	9787	5684	1.7	274.26	0.04	--	--	--	--

TABLE D6C.3-4. TRANSDUCER DATA FOR OBSERVATION WELL URZHG-3.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/24/07	14:35	274.27	7/24/07	19:00	274.29	7/24/07	23:25	274.20	7/25/07	3:50	274.22	7/25/07	8:15	274.19
7/24/07	14:40	274.27	7/24/07	19:05	274.27	7/24/07	23:30	274.20	7/25/07	3:55	274.22	7/25/07	8:20	274.17
7/24/07	14:45	274.27	7/24/07	19:10	274.29	7/24/07	23:35	274.20	7/25/07	4:00	274.20	7/25/07	8:25	274.17
7/24/07	14:50	274.27	7/24/07	19:15	274.27	7/24/07	23:40	274.20	7/25/07	4:05	274.22	7/25/07	8:30	274.17
7/24/07	14:55	274.27	7/24/07	19:20	274.27	7/24/07	23:45	274.20	7/25/07	4:10	274.22	7/25/07	8:35	274.17
7/24/07	15:00	274.27	7/24/07	19:25	274.27	7/24/07	23:50	274.19	7/25/07	4:15	274.20	7/25/07	8:40	274.17
7/24/07	15:05	274.27	7/24/07	19:30	274.27	7/24/07	23:55	274.19	7/25/07	4:20	274.20	7/25/07	8:45	274.17
7/24/07	15:10	274.29	7/24/07	19:35	274.27	7/25/07	0:00	274.19	7/25/07	4:25	274.20	7/25/07	8:50	274.19
7/24/07	15:15	274.29	7/24/07	19:40	274.27	7/25/07	0:05	274.20	7/25/07	4:30	274.20	7/25/07	8:55	274.17
7/24/07	15:20	274.29	7/24/07	19:45	274.27	7/25/07	0:10	274.20	7/25/07	4:35	274.20	7/25/07	9:00	274.17
7/24/07	15:25	274.27	7/24/07	19:50	274.27	7/25/07	0:15	274.20	7/25/07	4:40	274.20	7/25/07	9:05	274.17
7/24/07	15:30	274.27	7/24/07	19:55	274.27	7/25/07	0:20	274.19	7/25/07	4:45	274.20	7/25/07	9:10	274.17
7/24/07	15:35	274.29	7/24/07	20:00	274.27	7/25/07	0:25	274.17	7/25/07	4:50	274.20	7/25/07	9:15	274.17
7/24/07	15:40	274.27	7/24/07	20:05	274.27	7/25/07	0:30	274.19	7/25/07	4:55	274.20	7/25/07	9:20	274.17
7/24/07	15:45	274.27	7/24/07	20:10	274.27	7/25/07	0:35	274.19	7/25/07	5:00	274.19	7/25/07	9:25	274.17
7/24/07	15:50	274.27	7/24/07	20:15	274.27	7/25/07	0:40	274.20	7/25/07	5:05	274.20	7/25/07	9:30	274.17
7/24/07	15:55	274.27	7/24/07	20:20	274.27	7/25/07	0:45	274.20	7/25/07	5:10	274.20	7/25/07	9:35	274.17
7/24/07	16:00	274.29	7/24/07	20:25	274.27	7/25/07	0:50	274.20	7/25/07	5:15	274.19	7/25/07	9:40	274.17
7/24/07	16:05	274.27	7/24/07	20:30	274.27	7/25/07	0:55	274.20	7/25/07	5:20	274.20	7/25/07	9:45	274.17
7/24/07	16:10	274.27	7/24/07	20:35	274.27	7/25/07	1:00	274.20	7/25/07	5:25	274.20	7/25/07	9:50	274.17
7/24/07	16:15	274.29	7/24/07	20:40	274.27	7/25/07	1:05	274.20	7/25/07	5:30	274.19	7/25/07	9:55	274.17
7/24/07	16:20	274.29	7/24/07	20:45	274.27	7/25/07	1:10	274.22	7/25/07	5:35	274.19	7/25/07	10:00	274.17
7/24/07	16:25	274.27	7/24/07	20:50	274.27	7/25/07	1:15	274.22	7/25/07	5:40	274.19	7/25/07	10:05	274.17
7/24/07	16:30	274.29	7/24/07	20:55	274.25	7/25/07	1:20	274.22	7/25/07	5:45	274.19	7/25/07	10:10	274.17
7/24/07	16:35	274.29	7/24/07	21:00	274.25	7/25/07	1:25	274.22	7/25/07	5:50	274.19	7/25/07	10:15	274.17
7/24/07	16:40	274.29	7/24/07	21:05	274.25	7/25/07	1:30	274.22	7/25/07	5:55	274.19	7/25/07	10:20	274.17
7/24/07	16:45	274.27	7/24/07	21:10	274.25	7/25/07	1:35	274.20	7/25/07	6:00	274.19	7/25/07	10:25	274.17
7/24/07	16:50	274.29	7/24/07	21:15	274.25	7/25/07	1:40	274.20	7/25/07	6:05	274.20	7/25/07	10:30	274.17
7/24/07	16:55	274.29	7/24/07	21:20	274.25	7/25/07	1:45	274.20	7/25/07	6:10	274.20	7/25/07	10:35	274.17
7/24/07	17:00	274.27	7/24/07	21:25	274.25	7/25/07	1:50	274.20	7/25/07	6:15	274.19	7/25/07	10:40	274.17
7/24/07	17:05	274.29	7/24/07	21:30	274.25	7/25/07	1:55	274.20	7/25/07	6:20	274.19	7/25/07	10:45	274.17
7/24/07	17:10	274.29	7/24/07	21:35	274.25	7/25/07	2:00	274.20	7/25/07	6:25	274.19	7/25/07	10:50	274.19
7/24/07	17:15	274.29	7/24/07	21:40	274.25	7/25/07	2:05	274.19	7/25/07	6:30	274.17	7/25/07	10:55	274.19
7/24/07	17:20	274.29	7/24/07	21:45	274.25	7/25/07	2:10	274.19	7/25/07	6:35	274.19	7/25/07	11:00	274.17
7/24/07	17:25	274.29	7/24/07	21:50	274.25	7/25/07	2:15	274.20	7/25/07	6:40	274.19	7/25/07	11:05	274.19
7/24/07	17:30	274.29	7/24/07	21:55	274.24	7/25/07	2:20	274.20	7/25/07	6:45	274.19	7/25/07	11:10	274.19
7/24/07	17:35	274.29	7/24/07	22:00	274.24	7/25/07	2:25	274.20	7/25/07	6:50	274.17	7/25/07	11:15	274.17
7/24/07	17:40	274.29	7/24/07	22:05	274.24	7/25/07	2:30	274.20	7/25/07	6:55	274.19	7/25/07	11:20	274.17
7/24/07	17:45	274.29	7/24/07	22:10	274.24	7/25/07	2:35	274.20	7/25/07	7:00	274.19	7/25/07	11:25	274.19
7/24/07	17:50	274.29	7/24/07	22:15	274.24	7/25/07	2:40	274.20	7/25/07	7:05	274.19	7/25/07	11:30	274.19
7/24/07	17:55	274.29	7/24/07	22:20	274.24	7/25/07	2:45	274.20	7/25/07	7:10	274.19	7/25/07	11:35	274.19
7/24/07	18:00	274.29	7/24/07	22:25	274.24	7/25/07	2:50	274.20	7/25/07	7:15	274.17	7/25/07	11:40	274.19
7/24/07	18:05	274.29	7/24/07	22:30	274.24	7/25/07	2:55	274.20	7/25/07	7:20	274.17	7/25/07	11:45	274.19
7/24/07	18:10	274.29	7/24/07	22:35	274.24	7/25/07	3:00	274.20	7/25/07	7:25	274.17	7/25/07	11:50	274.19
7/24/07	18:15	274.29	7/24/07	22:40	274.24	7/25/07	3:05	274.20	7/25/07	7:30	274.17	7/25/07	11:55	274.19
7/24/07	18:20	274.29	7/24/07	22:45	274.22	7/25/07	3:10	274.20	7/25/07	7:35	274.17	7/25/07	12:00	274.20
7/24/07	18:25	274.29	7/24/07	22:50	274.22	7/25/07	3:15	274.22	7/25/07	7:40	274.19	7/25/07	13:05	274.19
7/24/07	18:30	274.29	7/24/07	22:55	274.20	7/25/07	3:20	274.22	7/25/07	7:45	274.19	7/25/07	14:05	274.22
7/24/07	18:35	274.29	7/24/07	23:00	274.22	7/25/07	3:25	274.22	7/25/07	7:50	274.17	7/25/07	15:05	274.22
7/24/07	18:40	274.29	7/24/07	23:05	274.22	7/25/07	3:30	274.22	7/25/07	7:55	274.17	7/25/07	16:05	274.22
7/24/07	18:45	274.29	7/24/07	23:10	274.20	7/25/07	3:35	274.22	7/25/07	8:00	274.19	7/25/07	17:05	274.15
7/24/07	18:50	274.29	7/24/07	23:15	274.20	7/25/07	3:40	274.20	7/25/07	8:05	274.19	7/25/07	18:05	274.19
7/24/07	18:55	274.29	7/24/07	23:20	274.20	7/25/07	3:45	274.22	7/25/07	8:10	274.19	7/25/07	19:05	274.19

TABLE D6C.3-4. TRANSDUCER DATA FOR OBSERVATION WELL URZHG-3, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
7/25/07	20:05	274.18	7/28/07	1:05	274.42	7/30/07	6:05	274.25						
7/25/07	21:05	274.25	7/28/07	2:05	274.45	7/30/07	7:05	274.29						
7/25/07	22:05	274.32	7/28/07	3:05	274.42	7/30/07	8:05	274.32						
7/25/07	23:05	274.32	7/28/07	4:05	274.42	7/30/07	9:05	274.29						
7/26/07	0:05	274.38	7/28/07	5:05	274.42	7/30/07	10:05	274.29						
7/26/07	1:05	274.32	7/28/07	6:05	274.38	7/30/07	11:05	274.25						
7/26/07	2:05	274.35	7/28/07	7:05	274.42	7/30/07	12:05	274.25						
7/26/07	3:05	274.35	7/28/07	8:05	274.42	7/30/07	13:05	274.29						
7/26/07	4:05	274.35	7/28/07	9:05	274.38	7/30/07	14:05	274.25						
7/26/07	5:05	274.35	7/28/07	10:05	274.42	7/30/07	15:05	274.22						
7/26/07	6:05	274.35	7/28/07	11:05	274.42	7/30/07	16:05	274.19						
7/26/07	7:05	274.38	7/28/07	12:05	274.38	7/30/07	17:05	274.19						
7/26/07	8:05	274.41	7/28/07	13:05	274.42	7/30/07	18:05	274.19						
7/26/07	9:05	274.41	7/28/07	14:05	274.38	7/30/07	19:05	274.19						
7/26/07	10:05	274.41	7/28/07	15:05	274.35	7/30/07	20:05	274.19						
7/26/07	11:05	274.45	7/28/07	16:05	274.35	7/30/07	21:05	274.19						
7/26/07	12:05	274.48	7/28/07	17:05	274.35	7/30/07	22:05	274.19						
7/26/07	13:05	274.48	7/28/07	18:05	274.32	7/30/07	23:05	274.19						
7/26/07	14:05	274.48	7/28/07	19:05	274.32	7/31/07	0:05	274.19						
7/26/07	15:05	274.48	7/28/07	20:05	274.32	7/31/07	1:05	274.22						
7/26/07	16:05	274.45	7/28/07	21:05	274.32	7/31/07	2:05	274.25						
7/26/07	17:05	274.48	7/28/07	22:05	274.32	7/31/07	3:05	274.22						
7/26/07	18:05	274.48	7/28/07	23:05	274.35	7/31/07	4:05	274.22						
7/26/07	19:05	274.48	7/29/07	0:05	274.38	7/31/07	5:05	274.22						
7/26/07	20:05	274.48	7/29/07	1:05	274.35	7/31/07	6:05	274.19						
7/26/07	21:05	274.48	7/29/07	2:05	274.35	7/31/07	7:05	274.22						
7/26/07	22:05	274.51	7/29/07	3:05	274.35	7/31/07	8:05	274.22						
7/26/07	23:05	274.51	7/29/07	4:05	274.35	7/31/07	9:05	274.19						
7/27/07	0:05	274.51	7/29/07	5:05	274.32	7/31/07	10:05	274.22						
7/27/07	1:05	274.51	7/29/07	6:05	274.35									
7/27/07	2:05	274.51	7/29/07	7:05	274.35									
7/27/07	3:05	274.51	7/29/07	8:05	274.35									
7/27/07	4:05	274.51	7/29/07	9:05	274.35									
7/27/07	5:05	274.48	7/29/07	10:05	274.35									
7/27/07	6:05	274.51	7/29/07	11:05	274.35									
7/27/07	7:05	274.48	7/29/07	12:05	274.32									
7/27/07	8:05	274.51	7/29/07	13:05	274.32									
7/27/07	9:05	274.51	7/29/07	14:05	274.28									
7/27/07	10:05	274.51	7/29/07	15:05	274.32									
7/27/07	11:05	274.51	7/29/07	16:05	274.29									
7/27/07	12:05	274.51	7/29/07	17:05	274.29									
7/27/07	13:05	274.51	7/29/07	18:05	274.25									
7/27/07	14:05	274.48	7/29/07	19:05	274.22									
7/27/07	15:05	274.48	7/29/07	20:05	274.22									
7/27/07	16:05	274.48	7/29/07	21:05	274.25									
7/27/07	17:05	274.45	7/29/07	22:05	274.29									
7/27/07	18:05	274.42	7/29/07	23:05	274.25									
7/27/07	19:05	274.45	7/30/07	0:05	274.25									
7/27/07	20:05	274.42	7/30/07	1:05	274.25									
7/27/07	21:05	274.38	7/30/07	2:05	274.25									
7/27/07	22:05	274.42	7/30/07	3:05	274.28									
7/27/07	23:05	274.45	7/30/07	4:05	274.28									
7/28/07	0:05	274.42	7/30/07	5:05	274.25									

TABLE D6C.3-3. AQUIFER-TEST DATA FOR OBSERVATION WELL URZHC-2.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
07/24/07	13:40:00	-60	--	--	342.26	0.00	--	--	--	--
	14:40:00	PUMP ON								
	15:27:00	47	--	--	342.27	0.01	--	--	--	--
	16:25:00	105	--	--	342.29	0.03	--	--	--	--
07/25/07	9:50:00	1150	--	--	342.40	0.14	--	--	--	--
	12:38:00	1318	--	--	342.38	0.12	--	--	--	--
	15:21:00	1481	--	--	342.40	0.14	--	--	--	--
07/27/07	10:15:00	4055	--	--	342.42	0.16	--	--	--	--
	11:03:00	PUMP OFF								
07/31/07	9:36:00	9776	5673	1.7	342.19	-0.07	--	--	--	--

D6C.4 SS1-F MULTI-WELL TEST

A multi-well pump test was conducted by pumping F Sand well SS1-F for 1 ½ hours at an average rate of 11 gpm. F Sand monitoring well SS1-FPU was monitored during this test for drawdown.

D6C.4.1 PUMPING WELL SS1-F

Table D6C.4-1 presents the pumping and water-level data collected for this pumping well during the multi-well test. Figure D6C.4-1 presents the semi-log plot of the drawdown data from pumping well SS1-F. The straight-line fit of the drawdown data yields a transmissivity of 1530 gal/day/ft for the F Sand at well SS1-F.

D6C.4.2 OBSERVATION WELL SS1-FPU

Water-levels were observed in observation well SS1-FPU during the SS1-F multi-well test. This well is located 150 feet from the pumping well. Table D6C.4-2 presents the manual water levels collected from this observation well while Table D6C.4-3 presents the water levels collected with a pressure transducer. Figure D6C.4-2 shows a plot of the drawdown data during this pump test which produces a transmissivity of 1530 gal/day/ft and a storage coefficient of 6.8E-5. The recovery of this well was also observed with the pressure transducer and the plot of this data is presented in Figure D6C.4-3. The straight-line fit of this recovery data yields a transmissivity of 1380 gal/day/ft. A transmissivity of 1530 gal/day/ft is thought to best represent the F Sand in the area of well SS1-F.

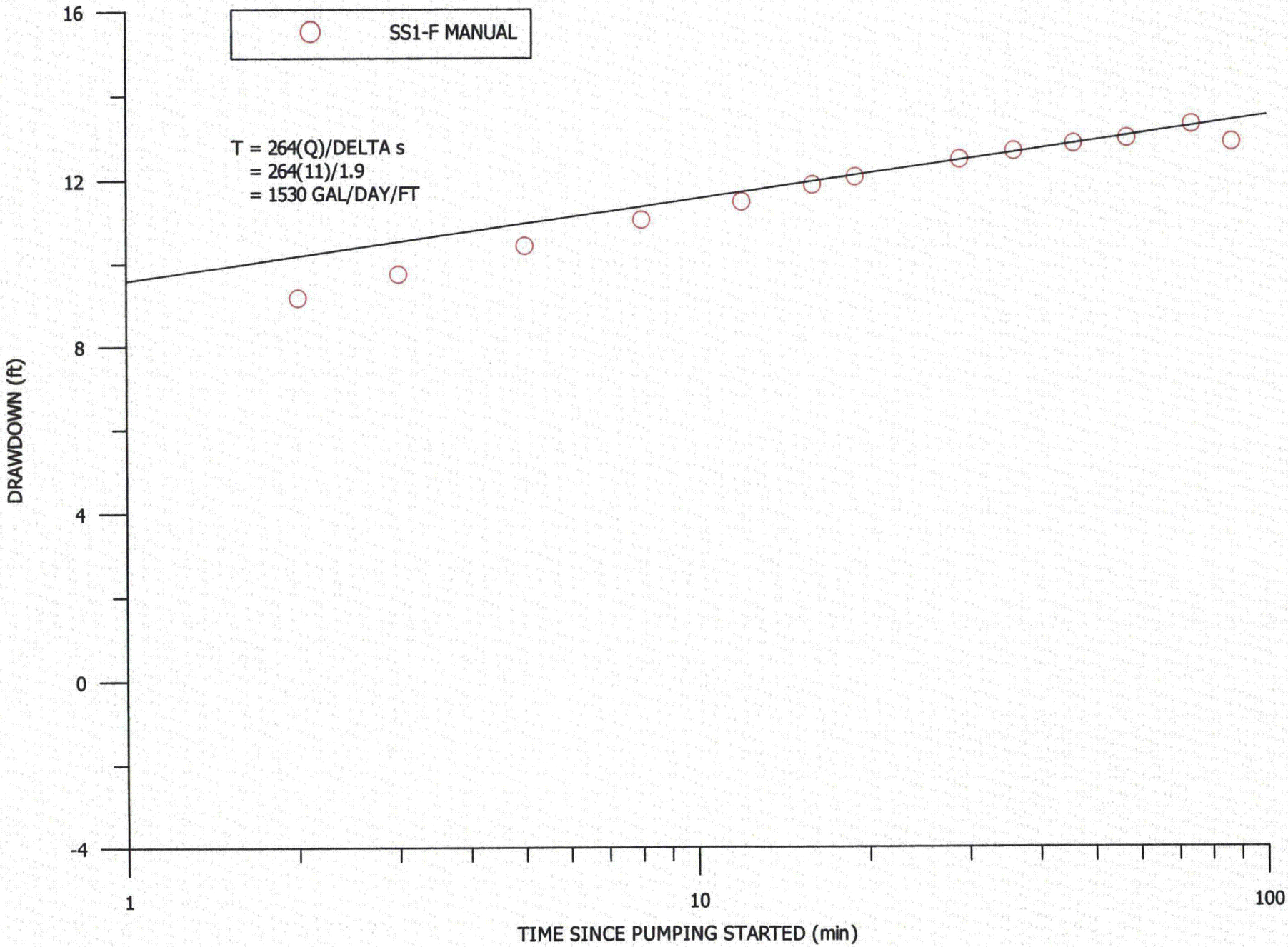

FIGURE D6C.4-1. DRAWDOWN IN PUMPING WELL SS1-F

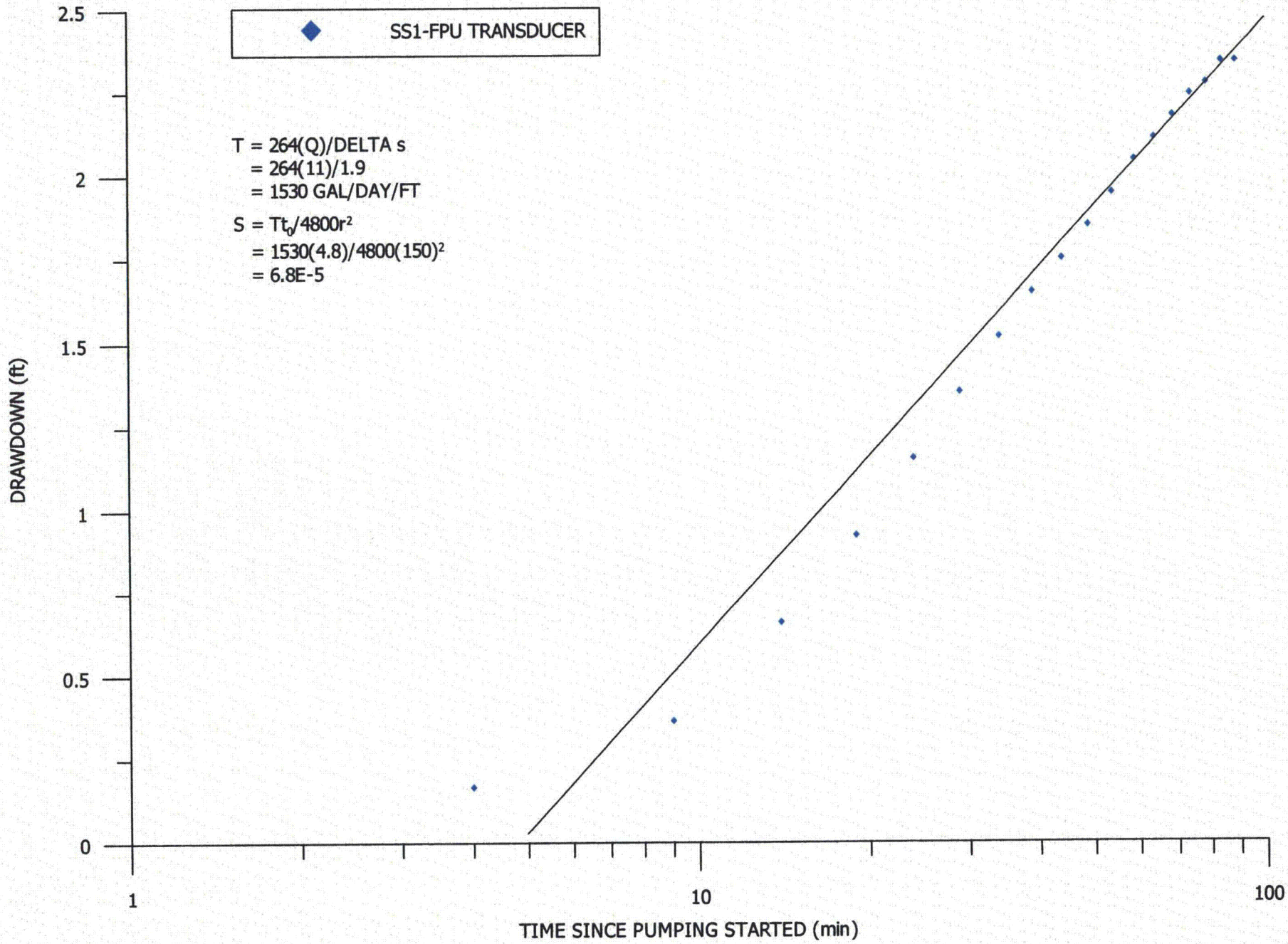

FIGURE D6C.4-2. DRAWDOWN IN OBSERVATION WELL SS1-FPU

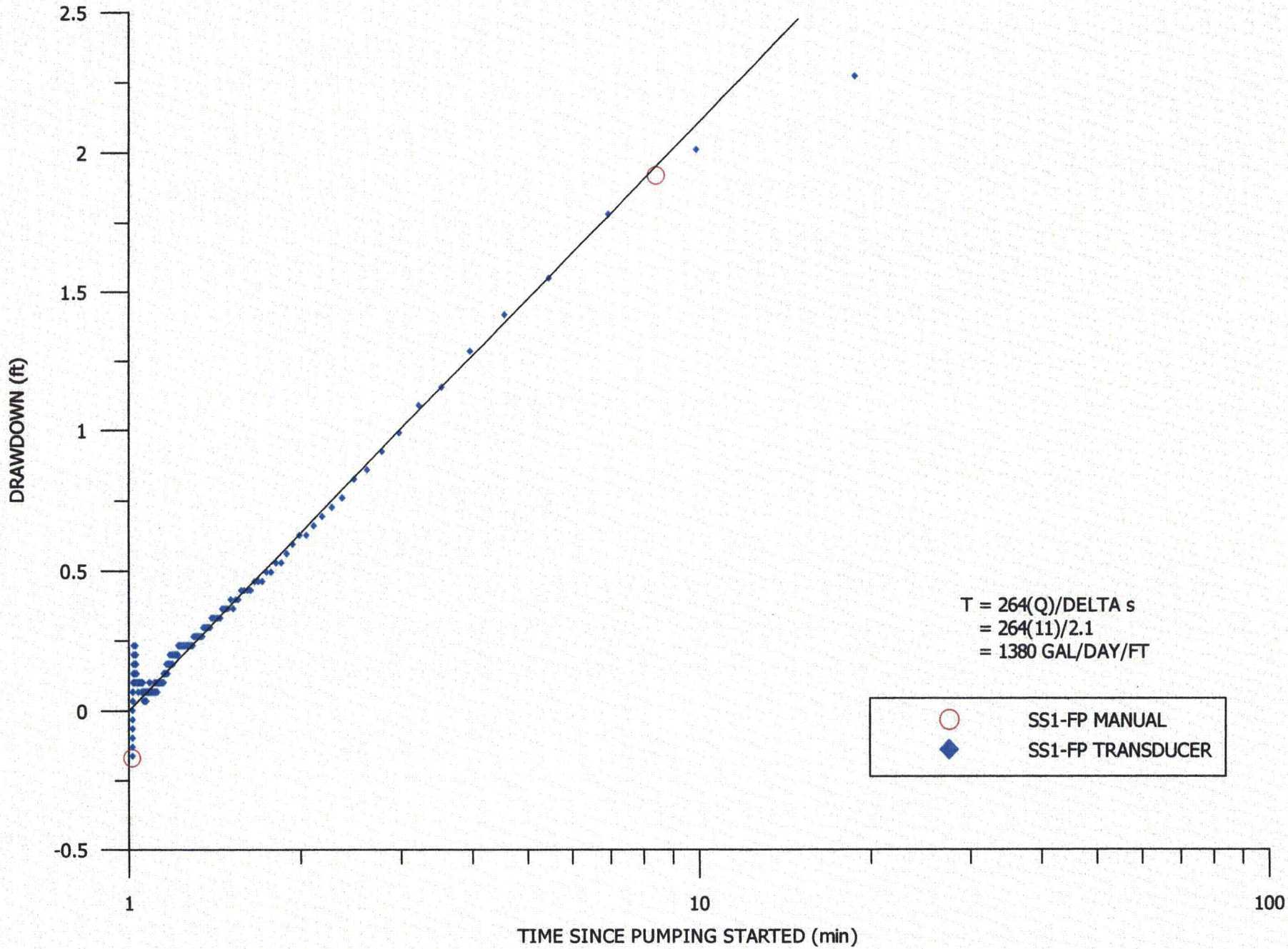

FIGURE D6C.4-3. RECOVERY IN OBSERVATION WELL SS1-FPU

TABLE D6C.4-1. AQUIFER-TEST DATA FOR PUMPING WELL SS1-F.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
06/21/07	7:33:00	-147	--	--	116.19	0.03	--	--	--	--
	9:43:00	-17	--	--	116.20	0.04	--	--	--	--
	9:55:00	-5	--	--	116.09	-0.07	--	--	--	--
	9:58:00	-2	--	--	116.16	0.00	--	--	--	--
	10:00:00	PUMP ON								
	10:02:00	2	--	--	125.33	9.17	--	--	--	--
	10:03:00	3	--	--	125.90	9.74	--	--	--	--
	10:05:00	5	--	--	126.58	10.42	--	--	--	--
	10:06:00	6	--	--	--	--	10.90	--	--	--
	10:08:00	8	--	--	127.20	11.04	--	--	--	--
	10:12:00	12	--	--	127.63	11.47	--	--	--	--
	10:13:00	13	--	--	--	--	11.00	--	--	--
	10:16:00	16	--	--	128.02	11.86	--	--	--	--
	10:19:00	19	--	--	128.21	12.05	--	--	--	--
	10:29:00	29	--	--	128.63	12.47	--	--	--	--
	10:36:00	36	--	--	128.82	12.66	--	--	--	--
	10:46:00	46	--	--	129.00	12.84	--	12.8	--	7.1
	10:57:00	57	--	--	129.12	12.96	--	--	--	--
	11:05:00	65	--	--	--	--	--	12.2	--	7.33
	11:14:00	74	--	--	129.45	13.29	--	--	--	--
	11:20:00	80	--	--	--	--	--	12.2	--	3.36
	11:27:00	87	--	--	129.03	12.87	--	--	--	--
	11:29:00	PUMP OFF								
06/26/07	7:49:00	7069	6980	1.0	116.02	-0.14	--	--	--	--

TABLE D6C.4-2. AQUIFER-TEST DATA FOR OBSERVATION WELL SS1-FPU.

DATE	TIME	TIME SINCE PUMPING STARTED (t, min)	TIME SINCE PUMPING STOPPED (t', min)	t/t'	WATER LEVEL (ft below MP)	DRAWDOWN (ft)	DISCHARGE (gpm)	WATER TEMP. (deg C)	CONDUCTIVITY (umhos/cm @ 25 deg C)	pH (units)
06/21/07	7:30:00	-150	--	--	117.43	0.00	--	--	--	--
	10:00:00	PUMP ON								
	11:29:00	PUMP OFF								
	11:41:00	101	12	8.4	119.35	1.92	--	--	--	--
06/26/07	8:42:00	7122	7033	1.0	117.26	-0.17	--	--	--	--

TABLE D6C.4-3. TRANSDUCER DATA FOR OBSERVATION WELL SS1-FPU.

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
6/21/07	9:14	117.53	6/21/07	13:39	117.89	6/21/07	18:04	117.66	6/21/07	22:29	117.53	6/22/07	2:54	117.50
6/21/07	9:19	117.56	6/21/07	13:44	117.89	6/21/07	18:09	117.66	6/21/07	22:34	117.53	6/22/07	2:59	117.50
6/21/07	9:24	117.53	6/21/07	13:49	117.86	6/21/07	18:14	117.66	6/21/07	22:39	117.53	6/22/07	3:04	117.50
6/21/07	9:29	117.53	6/21/07	13:54	117.86	6/21/07	18:19	117.63	6/21/07	22:44	117.53	6/22/07	3:09	117.50
6/21/07	9:34	117.53	6/21/07	13:59	117.86	6/21/07	18:24	117.63	6/21/07	22:49	117.53	6/22/07	3:14	117.50
6/21/07	9:39	117.53	6/21/07	14:04	117.86	6/21/07	18:29	117.63	6/21/07	22:54	117.53	6/22/07	3:19	117.50
6/21/07	9:44	117.56	6/21/07	14:09	117.83	6/21/07	18:34	117.63	6/21/07	22:59	117.53	6/22/07	3:24	117.50
6/21/07	9:49	117.53	6/21/07	14:14	117.83	6/21/07	18:39	117.63	6/21/07	23:04	117.53	6/22/07	3:29	117.50
6/21/07	9:54	117.53	6/21/07	14:19	117.79	6/21/07	18:44	117.63	6/21/07	23:09	117.53	6/22/07	3:34	117.50
6/21/07	9:59	117.53	6/21/07	14:24	117.83	6/21/07	18:49	117.63	6/21/07	23:14	117.53	6/22/07	3:39	117.50
6/21/07	10:04	117.60	6/21/07	14:29	117.79	6/21/07	18:54	117.63	6/21/07	23:19	117.53	6/22/07	3:44	117.50
6/21/07	10:09	117.79	6/21/07	14:34	117.79	6/21/07	18:59	117.63	6/21/07	23:24	117.53	6/22/07	3:49	117.50
6/21/07	10:14	118.09	6/21/07	14:39	117.79	6/21/07	19:04	117.63	6/21/07	23:29	117.53	6/22/07	3:54	117.50
6/21/07	10:19	118.35	6/21/07	14:44	117.79	6/21/07	19:09	117.60	6/21/07	23:34	117.53	6/22/07	3:59	117.50
6/21/07	10:24	118.59	6/21/07	14:49	117.76	6/21/07	19:14	117.63	6/21/07	23:39	117.53	6/22/07	4:04	117.50
6/21/07	10:29	118.78	6/21/07	14:54	117.76	6/21/07	19:19	117.63	6/21/07	23:44	117.53	6/22/07	4:09	117.50
6/21/07	10:34	118.95	6/21/07	14:59	117.76	6/21/07	19:24	117.60	6/21/07	23:49	117.50	6/22/07	4:14	117.50
6/21/07	10:39	119.08	6/21/07	15:04	117.76	6/21/07	19:29	117.63	6/21/07	23:54	117.50	6/22/07	4:19	117.53
6/21/07	10:44	119.18	6/21/07	15:09	117.76	6/21/07	19:34	117.60	6/21/07	23:59	117.53	6/22/07	4:24	117.50
6/21/07	10:49	119.28	6/21/07	15:14	117.76	6/21/07	19:39	117.60	6/22/07	0:04	117.53	6/22/07	4:29	117.50
6/21/07	10:54	119.38	6/21/07	15:19	117.73	6/21/07	19:44	117.63	6/22/07	0:09	117.50	6/22/07	4:34	117.50
6/21/07	10:59	119.48	6/21/07	15:24	117.73	6/21/07	19:49	117.63	6/22/07	0:14	117.50	6/22/07	4:39	117.50
6/21/07	11:04	119.54	6/21/07	15:29	117.73	6/21/07	19:54	117.60	6/22/07	0:19	117.50	6/22/07	4:44	117.50
6/21/07	11:09	119.61	6/21/07	15:34	117.73	6/21/07	19:59	117.60	6/22/07	0:24	117.53	6/22/07	4:49	117.53
6/21/07	11:14	119.67	6/21/07	15:39	117.73	6/21/07	20:04	117.60	6/22/07	0:29	117.50	6/22/07	4:54	117.50
6/21/07	11:19	119.71	6/21/07	15:44	117.73	6/21/07	20:09	117.60	6/22/07	0:34	117.53	6/22/07	4:59	117.50
6/21/07	11:24	119.77	6/21/07	15:49	117.70	6/21/07	20:14	117.60	6/22/07	0:39	117.50	6/22/07	5:04	117.50
6/21/07	11:29	119.77	6/21/07	15:54	117.70	6/21/07	20:19	117.60	6/22/07	0:44	117.50	6/22/07	5:09	117.50
6/21/07	11:34	119.71	6/21/07	15:59	117.70	6/21/07	20:24	117.56	6/22/07	0:49	117.50	6/22/07	5:14	117.50
6/21/07	11:39	119.44	6/21/07	16:04	117.70	6/21/07	20:29	117.56	6/22/07	0:54	117.50	6/22/07	5:19	117.50
6/21/07	11:44	119.21	6/21/07	16:09	117.70	6/21/07	20:34	117.60	6/22/07	0:59	117.50	6/22/07	5:24	117.50
6/21/07	11:49	118.98	6/21/07	16:14	117.70	6/21/07	20:39	117.56	6/22/07	1:04	117.50	6/22/07	5:29	117.50
6/21/07	11:54	118.85	6/21/07	16:19	117.70	6/21/07	20:44	117.56	6/22/07	1:09	117.53	6/22/07	5:34	117.50
6/21/07	11:59	118.72	6/21/07	16:24	117.70	6/21/07	20:49	117.56	6/22/07	1:14	117.50	6/22/07	5:39	117.50
6/21/07	12:04	118.59	6/21/07	16:29	117.70	6/21/07	20:54	117.56	6/22/07	1:19	117.50	6/22/07	5:44	117.50
6/21/07	12:09	118.52	6/21/07	16:34	117.66	6/21/07	20:59	117.56	6/22/07	1:24	117.50	6/22/07	5:49	117.50
6/21/07	12:14	118.42	6/21/07	16:39	117.66	6/21/07	21:04	117.56	6/22/07	1:29	117.50	6/22/07	5:54	117.50
6/21/07	12:19	118.35	6/21/07	16:44	117.66	6/21/07	21:09	117.56	6/22/07	1:34	117.50	6/22/07	5:59	117.50
6/21/07	12:24	118.29	6/21/07	16:49	117.66	6/21/07	21:14	117.56	6/22/07	1:39	117.50	6/22/07	6:04	117.50
6/21/07	12:29	118.26	6/21/07	16:54	117.66	6/21/07	21:19	117.56	6/22/07	1:44	117.50	6/22/07	6:09	117.50
6/21/07	12:34	118.19	6/21/07	16:59	117.66	6/21/07	21:24	117.56	6/22/07	1:49	117.50	6/22/07	6:14	117.50
6/21/07	12:39	118.16	6/21/07	17:04	117.66	6/21/07	21:29	117.53	6/22/07	1:54	117.50	6/22/07	6:19	117.50
6/21/07	12:44	118.12	6/21/07	17:09	117.66	6/21/07	21:34	117.53	6/22/07	1:59	117.50	6/22/07	6:24	117.50
6/21/07	12:49	118.09	6/21/07	17:14	117.66	6/21/07	21:39	117.53	6/22/07	2:04	117.50	6/22/07	6:29	117.50
6/21/07	12:54	118.06	6/21/07	17:19	117.66	6/21/07	21:44	117.53	6/22/07	2:09	117.50	6/22/07	6:34	117.50
6/21/07	12:59	118.06	6/21/07	17:24	117.66	6/21/07	21:49	117.53	6/22/07	2:14	117.50	6/22/07	6:39	117.50
6/21/07	13:04	118.03	6/21/07	17:29	117.66	6/21/07	21:54	117.53	6/22/07	2:19	117.50	6/22/07	6:44	117.50
6/21/07	13:09	117.99	6/21/07	17:34	117.66	6/21/07	21:59	117.53	6/22/07	2:24	117.50	6/22/07	6:49	117.50
6/21/07	13:14	117.96	6/21/07	17:39	117.66	6/21/07	22:04	117.53	6/22/07	2:29	117.50	6/22/07	6:54	117.50
6/21/07	13:19	117.96	6/21/07	17:44	117.66	6/21/07	22:09	117.53	6/22/07	2:34	117.50	6/22/07	6:59	117.50
6/21/07	13:24	117.93	6/21/07	17:49	117.66	6/21/07	22:14	117.53	6/22/07	2:39	117.50	6/22/07	7:04	117.50
6/21/07	13:29	117.93	6/21/07	17:54	117.66	6/21/07	22:19	117.53	6/22/07	2:44	117.50	6/22/07	7:09	117.50
6/21/07	13:34	117.89	6/21/07	17:59	117.66	6/21/07	22:24	117.53	6/22/07	2:49	117.50	6/22/07	7:14	117.50

TABLE D6C.4-3. TRANSDUCER DATA FOR OBSERVATION WELL SS1-FPU, (CONTINUED).

DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)	DATE	TIME	DTW (ft; TOC)
6/22/07	7:19	117.50	6/22/07	11:44	117.50	6/24/07	14:04	117.76						
6/22/07	7:24	117.50	6/22/07	11:49	117.50	6/24/07	15:04	117.83						
6/22/07	7:29	117.50	6/22/07	11:54	117.50	6/24/07	16:04	117.83						
6/22/07	7:34	117.50	6/22/07	11:59	117.50	6/24/07	17:04	117.83						
6/22/07	7:39	117.50	6/22/07	13:04	117.56	6/24/07	18:04	117.89						
6/22/07	7:44	117.50	6/22/07	14:04	117.56	6/24/07	19:04	117.83						
6/22/07	7:49	117.50	6/22/07	15:04	117.56	6/24/07	20:04	117.83						
6/22/07	7:54	117.46	6/22/07	16:04	117.63	6/24/07	21:04	117.83						
6/22/07	7:59	117.50	6/22/07	17:04	117.63	6/24/07	22:04	117.76						
6/22/07	8:04	117.46	6/22/07	18:04	117.63	6/24/07	23:04	117.76						
6/22/07	8:09	117.46	6/22/07	19:04	117.63	6/25/07	0:04	117.76						
6/22/07	8:14	117.46	6/22/07	20:04	117.63	6/25/07	1:04	117.70						
6/22/07	8:19	117.46	6/22/07	21:04	117.63	6/25/07	2:04	117.63						
6/22/07	8:24	117.50	6/22/07	22:04	117.63	6/25/07	3:04	117.70						
6/22/07	8:29	117.46	6/22/07	23:04	117.63	6/25/07	4:04	117.70						
6/22/07	8:34	117.46	6/23/07	0:04	117.63	6/25/07	5:04	117.63						
6/22/07	8:39	117.46	6/23/07	1:04	117.63	6/25/07	6:04	117.63						
6/22/07	8:44	117.46	6/23/07	2:04	117.63	6/25/07	7:04	117.56						
6/22/07	8:49	117.50	6/23/07	3:04	117.63	6/25/07	8:04	117.56						
6/22/07	8:54	117.46	6/23/07	4:04	117.63	6/25/07	9:04	117.56						
6/22/07	8:59	117.46	6/23/07	5:04	117.63	6/25/07	10:04	117.56						
6/22/07	9:04	117.46	6/23/07	6:04	117.63	6/25/07	11:04	117.50						
6/22/07	9:09	117.46	6/23/07	7:04	117.63	6/25/07	12:04	117.50						
6/22/07	9:14	117.46	6/23/07	8:04	117.63	6/25/07	13:04	117.50						
6/22/07	9:19	117.46	6/23/07	9:04	117.63	6/25/07	14:04	117.50						
6/22/07	9:24	117.46	6/23/07	10:04	117.63	6/25/07	15:04	117.50						
6/22/07	9:29	117.46	6/23/07	11:04	117.70	6/25/07	16:04	117.50						
6/22/07	9:34	117.46	6/23/07	12:04	117.70	6/25/07	17:04	117.50						
6/22/07	9:39	117.50	6/23/07	13:04	117.70	6/25/07	18:04	117.50						
6/22/07	9:44	117.50	6/23/07	14:04	117.76	6/25/07	19:04	117.50						
6/22/07	9:49	117.46	6/23/07	15:04	117.76	6/25/07	20:04	117.43						
6/22/07	9:54	117.50	6/23/07	16:04	117.76	6/25/07	21:04	117.37						
6/22/07	9:59	117.46	6/23/07	17:04	117.83	6/25/07	22:04	117.30						
6/22/07	10:04	117.50	6/23/07	18:04	117.83	6/25/07	23:04	117.17						
6/22/07	10:09	117.50	6/23/07	19:04	117.83	6/26/07	0:04	117.10						
6/22/07	10:14	117.50	6/23/07	20:04	117.83	6/26/07	1:04	117.04						
6/22/07	10:19	117.50	6/23/07	21:04	117.76	6/26/07	2:04	116.97						
6/22/07	10:24	117.46	6/23/07	22:04	117.76	6/26/07	3:04	116.97						
6/22/07	10:29	117.50	6/23/07	23:04	117.70	6/26/07	4:04	116.97						
6/22/07	10:34	117.46	6/24/07	0:04	117.70	6/26/07	5:04	116.97						
6/22/07	10:39	117.46	6/24/07	1:04	117.63	6/26/07	6:04	116.97						
6/22/07	10:44	117.50	6/24/07	2:04	117.63	6/26/07	7:04	116.91						
6/22/07	10:49	117.50	6/24/07	3:04	117.63	6/26/07	8:04	116.97						
6/22/07	10:54	117.50	6/24/07	4:04	117.70	6/26/07	8:44	116.58						
6/22/07	10:59	117.46	6/24/07	5:04	117.63									
6/22/07	11:04	117.46	6/24/07	6:04	117.63									
6/22/07	11:09	117.46	6/24/07	7:04	117.63									
6/22/07	11:14	117.50	6/24/07	8:04	117.63									
6/22/07	11:19	117.50	6/24/07	9:04	117.63									
6/22/07	11:24	117.50	6/24/07	10:04	117.63									
6/22/07	11:29	117.50	6/24/07	11:04	117.70									
6/22/07	11:34	117.46	6/24/07	12:04	117.70									
6/22/07	11:39	117.50	6/24/07	13:04	117.76									

ADDENDUM D6D:

GROUNDWATER LEVELS

November 2007

GROUND-WATER LEVELS ADDENDUM D6D

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D6D.1 NICHOLS RANCH UNIT GROUND-WATER LEVELS

The ground-water levels for the Nichols Ranch Unit are presented in this section of Addendum D6D. Figure D6D.1-1 presents the water levels for A Sand wells MN-1, MN-2 and MN-3. It also presents the water level elevations for overlying aquifer B Sand well URZNB-1 and underlying aquifer 1 Sand well URZN1-2. The water level elevation in the A Sand at MN-1 is slightly higher than the overlying B Sand and the underlying 1 Sand which are adjacent to well MN-1. This figure also shows one old water level elevation for A Sand well MN-1. Water levels in the A, B and 1 Sands have been fairly steady during late 2006 and the first half of 2007.

Figure D6D.1-2 presents additional A Sand wells at the Nichols Ranch Unit. This figure shows water level elevations for the Nichols #1, MN-4, MN-5 and MN-6 wells. No 1979 data was measured for any of these four A Sand wells. The initial water level measurement on well MN-5 was an error due to blockage in the well. These four wells show fairly steady water levels with a slight decline in elevation with time.

An additional cluster of wells is located to the northeast of the Nichols Ranch Unit and these wells are DW-4U, DW-4M and DW-4L. The A Sand well DW-4L has no measurements in 2006 and 2007 due to this well being used for drilling water supply. The B Sand water-level elevation is slightly higher in 2006 and 2007 than it was in 1978 and 1979. The F Sand well DW-4U also has slightly higher water level elevations in 2006 and 2007 than it did in 1978 and 1979. The water level elevation from F Sand well DW-4U is approximately 55 feet higher than the B and A Sand water level elevation.

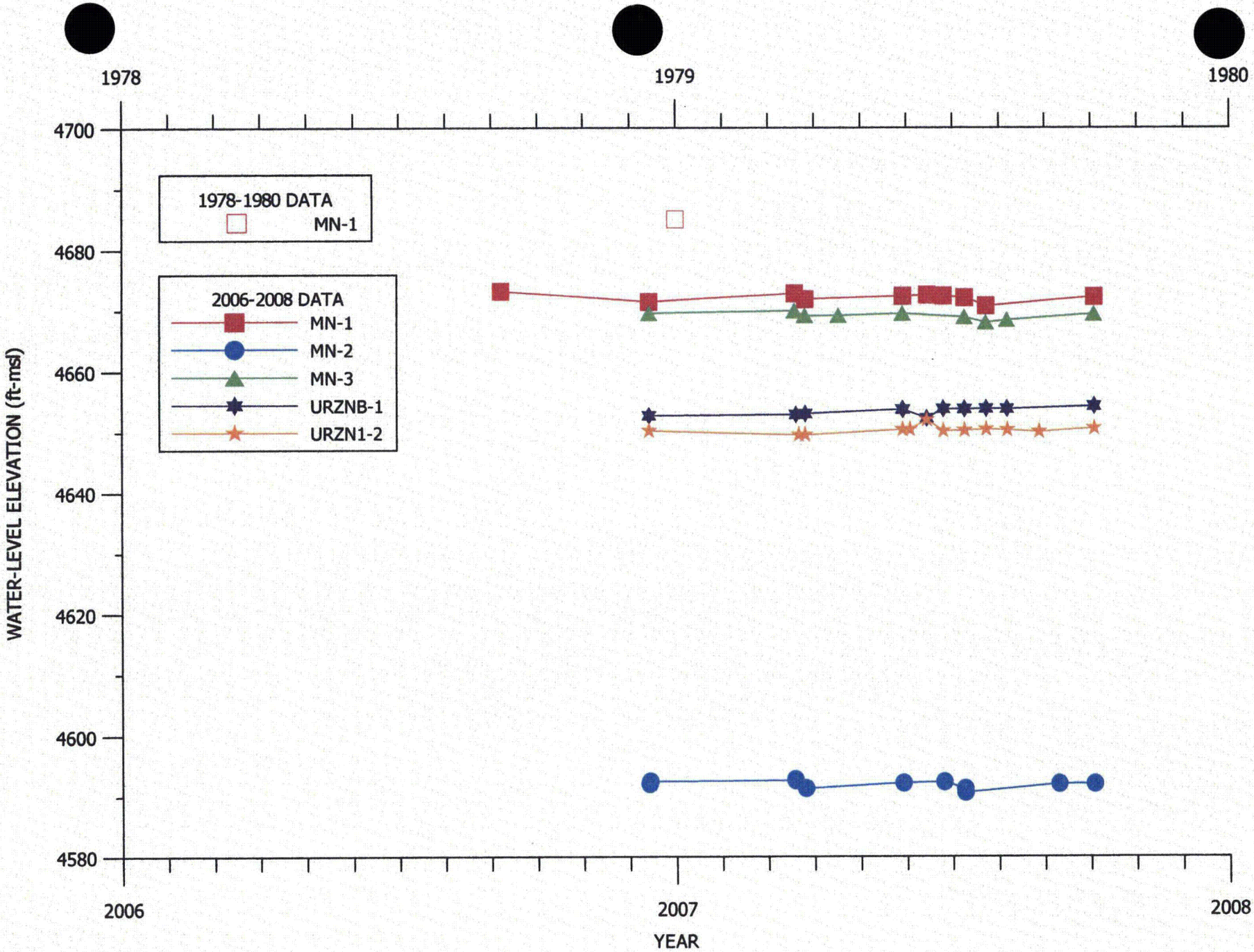

FIGURE D6D.1-1. WATER-LEVEL ELEVATION VERSUS TIME FOR WELLS MN-1, MN-2, MN-3, URZNB-1 AND URZN1-2

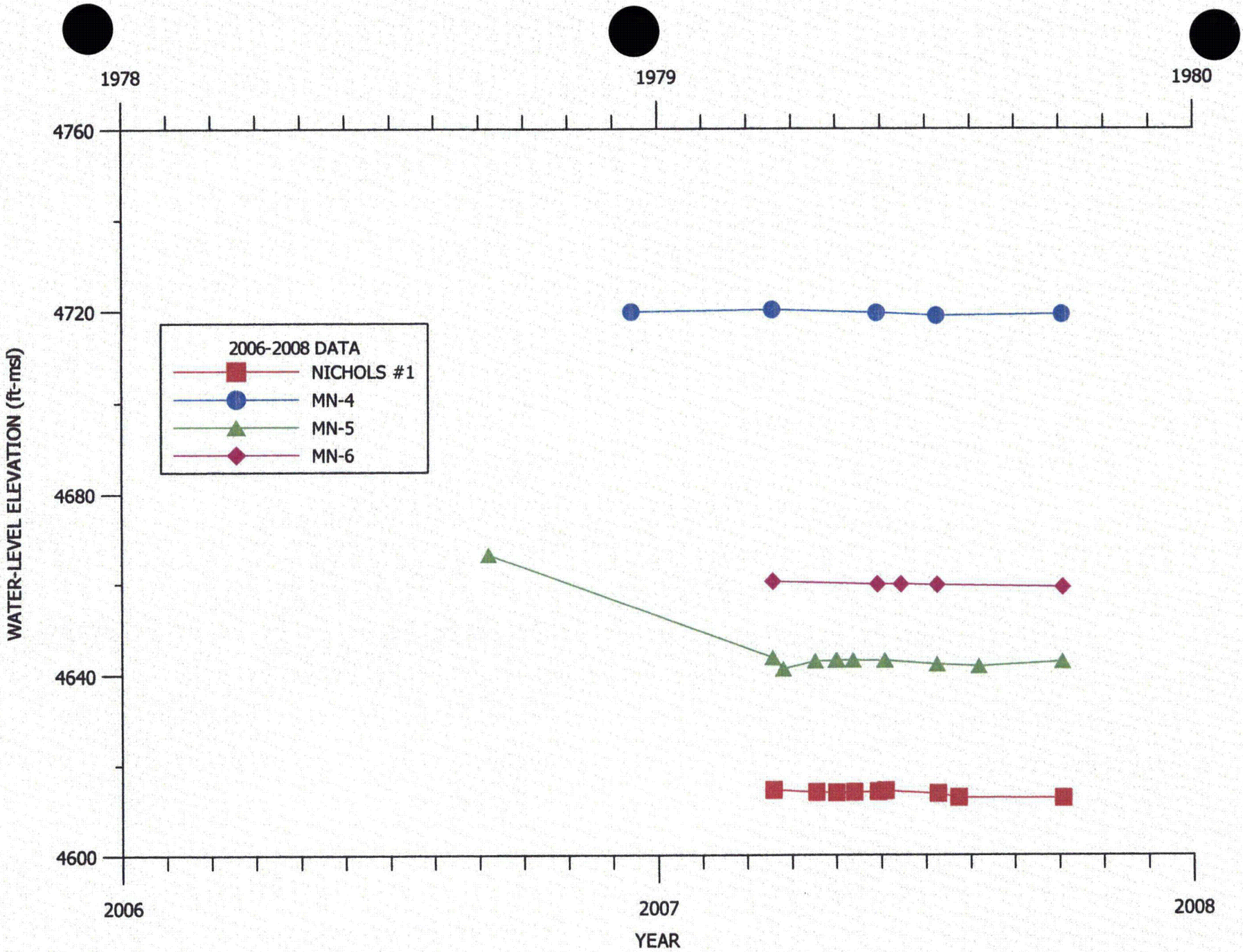

FIGURE D6D.1-2. WATER-LEVEL ELEVATION VERSUS TIME FOR WELLS NICHOLS #1, MN-4, MN-5 and MN-6

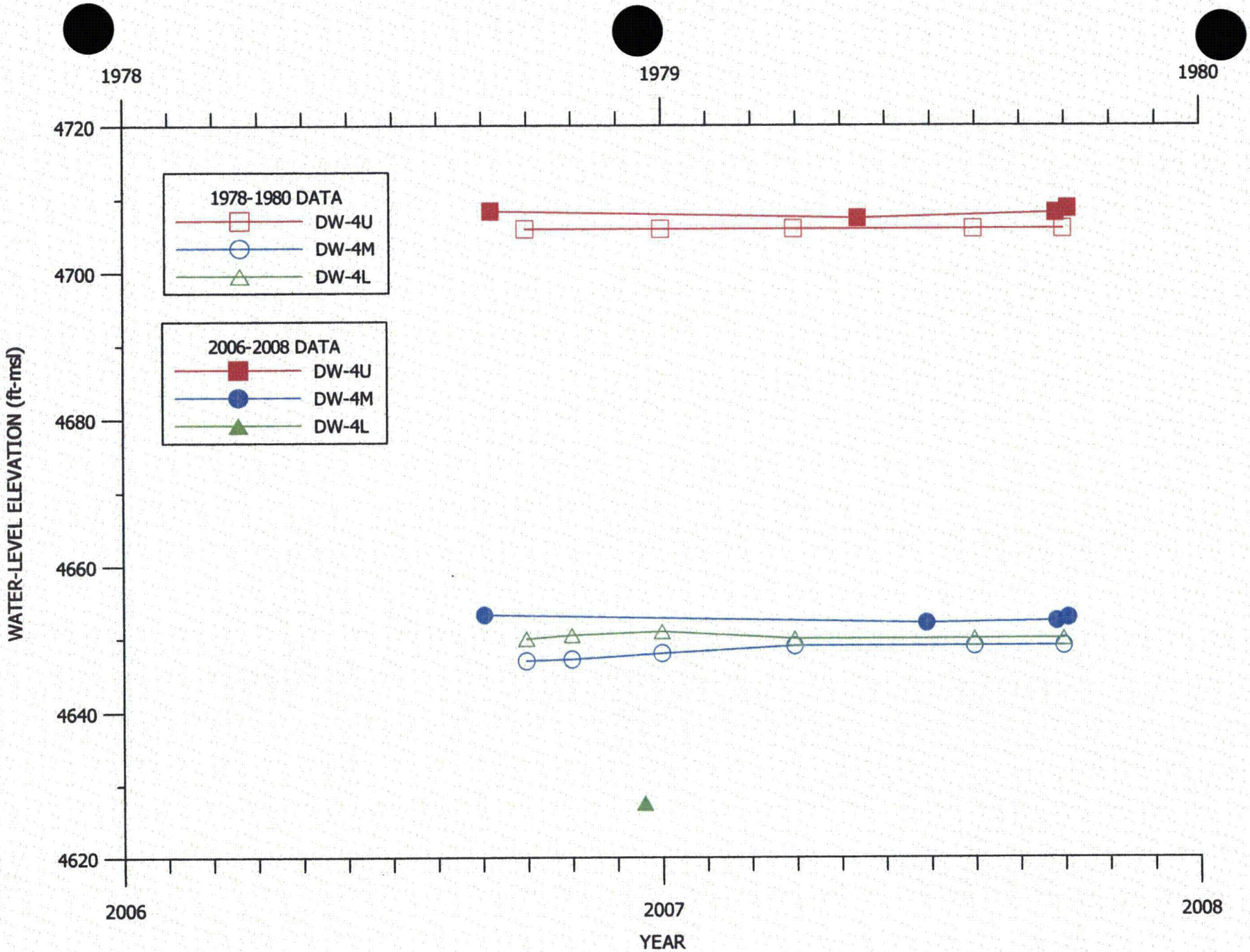

FIGURE D6D.1-3. WATER-LEVEL ELEVATION VERSUS TIME FOR WELLS DW-4U, DW-4M and DW-4L

TABLE D6D.1-1 WATER-LEVEL DATA FOR NICHOLS RANCH UNIT WELLS

WATER-LEVEL ELEVATION (FT-MSL)

Date	Water Level (ft-MP)	Water Level Elevation (ft-MSL)
DW-4L		
10/1/1978	289.00	4650.00
11/1/1978	288.50	4650.50
1/1/1979	288.00	4651.00
4/1/1979	289.00	4650.00
8/1/1979	289.00	4650.00
10/1/1979	289.00	4650.00
12/20/2006	311.48	4627.52
DW-4M		
10/1/1978	292.00	4647.00
11/1/1978	291.80	4647.20
1/1/1979	291.00	4648.00
4/1/1979	290.00	4649.00
8/1/1979	290.00	4649.00
10/1/1979	290.00	4649.00
9/2/2006	285.69	4653.31
6/29/2007	286.86	4652.14
9/26/2007	286.60	4652.40
9/26/2007	286.60	4652.40
10/4/2007	286.14	4652.86
DW-4U		
10/1/1978	233.00	4706.00
1/1/1979	233.00	4706.00
4/1/1979	233.00	4706.00
8/1/1979	233.00	4706.00
10/1/1979	233.00	4706.00
9/7/2006	230.55	4708.45
5/14/2007	231.53	4707.47
9/26/2007	230.80	4708.20
9/26/2007	230.80	4708.20
10/4/2007	230.24	4708.76
MN-1		
1/1/1979	29.00	4693.00
9/7/2006	48.87	4673.13
12/14/2006	50.62	4671.38
3/20/2007	49.24	4672.76
3/27/2007	50.20	4671.80
5/30/2007	49.73	4672.27
6/15/2007	49.55	4672.45
6/26/2007	49.71	4672.29
7/10/2007	49.99	4672.01
7/24/2007	51.33	4670.67
10/4/2007	49.83	4672.17
MN-2		
12/14/2006	178.97	4592.03
12/14/2006	178.58	4592.42
3/20/2007	178.42	4592.58
3/20/2007	178.23	4592.77
3/27/2007	179.71	4591.29
5/30/2007	178.84	4592.16
6/26/2007	178.68	4592.32
7/10/2007	179.78	4591.22
7/10/2007	180.41	4590.59
9/10/2007	179.02	4591.98
10/4/2007	179.00	4592.00
MN-3		
12/14/2006	96.51	4669.49
3/20/2007	96.10	4669.90
3/27/2007	96.94	4669.06
4/18/2007	96.91	4669.09
5/30/2007	96.59	4669.41
7/10/2007	97.18	4668.82
7/24/2007	98.06	4667.94
8/7/2007	97.67	4668.33
10/4/2007	96.65	4669.35
MN-4		
12/14/2006	146.18	4719.82
3/20/2007	145.74	4720.26
5/30/2007	146.40	4719.60
7/10/2007	147.06	4718.94
10/4/2007	146.75	4719.25
MN-5		
9/7/2006	204.61	4666.39
3/20/2007	227.22	4643.78
3/27/2007	229.77	4641.23
4/18/2007	227.99	4643.01
5/2/2007	227.90	4643.10
5/3/2007	227.77	4643.23
5/14/2007	227.79	4643.21
6/4/2007	227.90	4643.10
6/4/2007	227.86	4643.14
7/10/2007	228.71	4642.29
8/7/2007	229.15	4641.85
10/4/2007	228.10	4642.90
MN-6		
3/20/2007	102.53	4660.47
3/20/2007	102.56	4660.44
5/30/2007	103.20	4659.80
6/15/2007	103.20	4659.80
7/10/2007	103.37	4659.63
10/4/2007	103.85	4659.15
Nichols #1		
3/20/2007	99.44	4614.56
4/18/2007	99.96	4614.04
5/2/2007	100.02	4613.98
5/14/2007	99.98	4614.02
5/30/2007	99.85	4614.15
6/4/2007	99.67	4614.33
7/10/2007	100.26	4613.74
7/24/2007	101.14	4612.86
10/4/2007	101.25	4612.75
URZN1-2		
12/14/2006	64.10	4650.21
3/23/2007	64.79	4649.52
3/27/2007	64.80	4649.51
5/30/2007	63.96	4650.35
6/4/2007	63.95	4650.36
6/15/2007	62.35	4651.96
6/26/2007	64.17	4650.14
7/10/2007	64.08	4650.23
7/24/2007	63.94	4650.37
8/7/2007	64.04	4650.27
8/28/2007	64.31	4650.00
10/4/2007	63.78	4650.53
URZNB-1		
12/14/2006	63.67	4652.69
3/21/2007	63.50	4652.86
3/27/2007	63.35	4653.01
5/30/2007	62.67	4653.69
5/30/2007	62.72	4653.64
6/15/2007	64.13	4652.23
6/26/2007	62.60	4653.76
7/10/2007	62.61	4653.75
7/24/2007	62.55	4653.81
8/7/2007	62.60	4653.76
10/4/2007	62.14	4654.22
URZNF-3		
9/10/2007	89.57	4639.30
10/4/2007	89.20	4639.67
URZNQ-4		
9/10/2007	9.20	4629.24
10/4/2007	9.33	4629.11
W. of WW1		
9/26/2007	372.30	4707.70

Abandoned well

- W. of WW1

D6D.2 HANK UNIT GROUND-WATER LEVELS

The Hank Unit water levels are presented in this section of Addendum D6D. Figure D6D.2-1 presents the plot of Hank 1, Dry Willow #1, URZHF-1, URZHC-2 and URZHG-3. Table D6D.2-1 presents the water level tabulation of the water level data for the Hank Unit wells. This figure shows that the water-levels have been fairly steady with the 2006 and 2007 water levels in Hank 1 and Dry Willow #1 being higher than the water levels observed in 1978 and 1979. Water levels in the new F Sand well URZHF-1 and the new G Sand well URZHG-3 have been fairly steady while significant variation has been observed in C Sand well URZHC-2. These water level changes are likely due to lag in recovery from stresses on this well.

Figure D6D.2-2 presents the water level elevation for new wells URZHG-4, URZHF-5 and URZHB-6. This cluster of wells shows that the water level elevation is significantly higher in the G Sand and lower in the B Sand, as would be expected in this area.

Figure D6D.2-3 presents the water level elevations for the BR series wells. This plot shows slightly greater than 2 years of water level data from late 1979 to early 1982 for these wells. The few 2006 and 2007 water level elevations are also shown on this plot for these wells.

Figure D6D.2-4 presents a plot of F Sand well WC-MN1. This well has recently been monitored for the last few years with a continuous recorder by the Bureau of Land Management (BLM). This data shows that this F Sand water level had been gradually declining since 2001 and increased its rate of decline in late 2006. The most recent water levels in 2007 show a slight water level rise. One lower water level elevation was measured in this well in 1979.

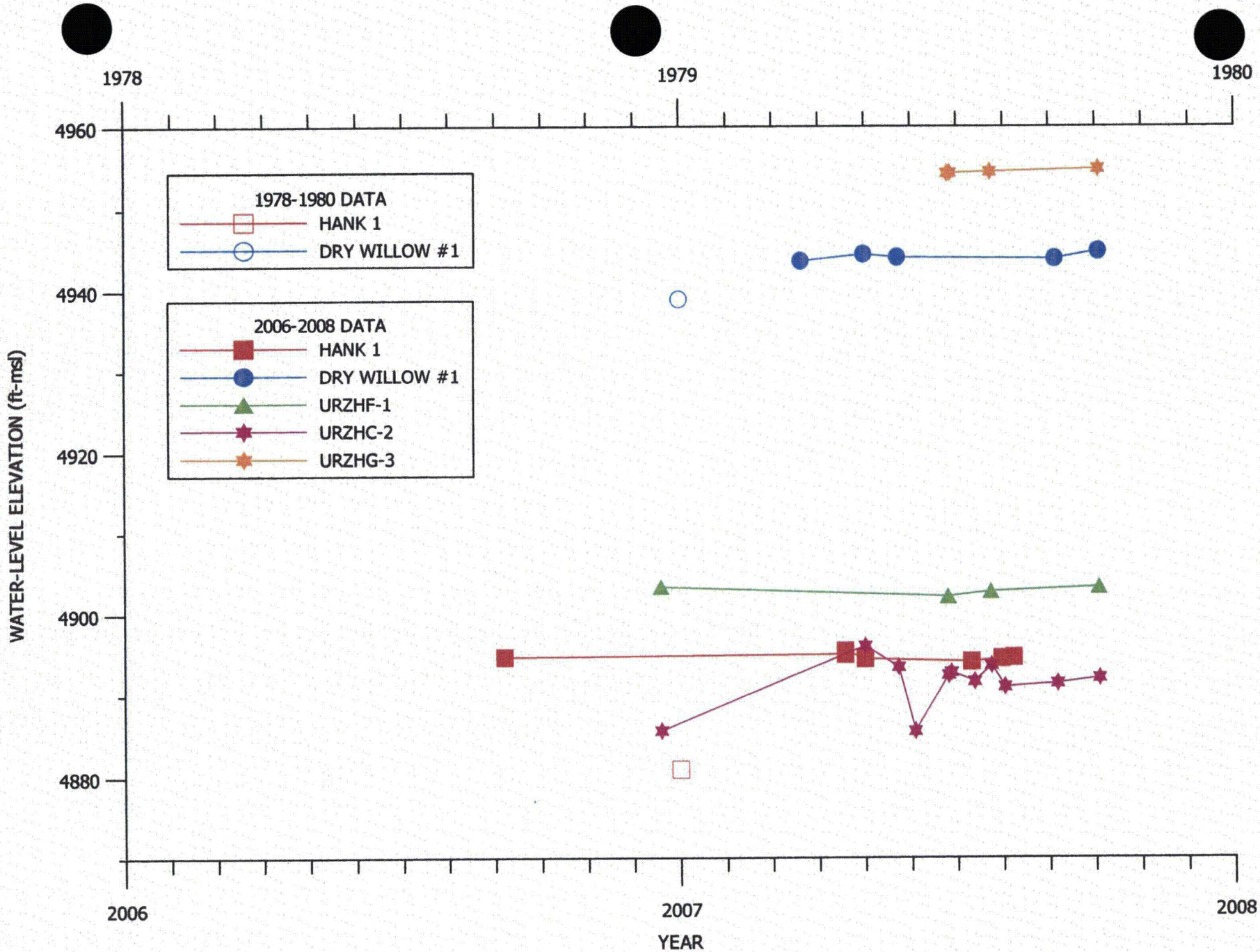

FIGURE D6D.2-1. WATER-LEVEL ELEVATION VERSUS TIME FOR WELLS HANK 1, DRY WILLOW #1, URZHF-1, URZHC-2 and URZHG-3

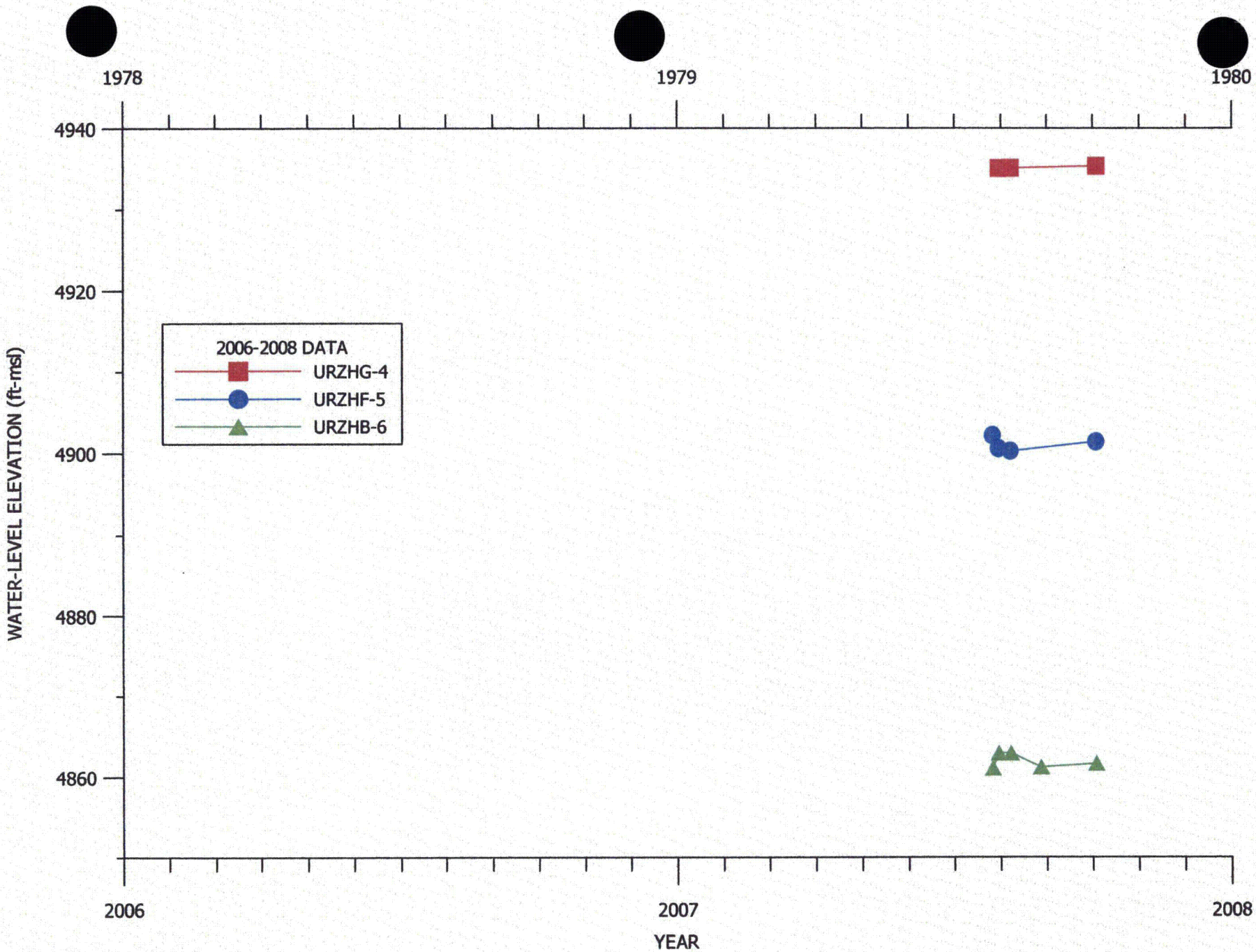

FIGURE D6D.2-2. WATER-LEVEL ELEVATION VERSUS TIME FOR WELLS URZHG-4, URZHF-5, URZHB-6

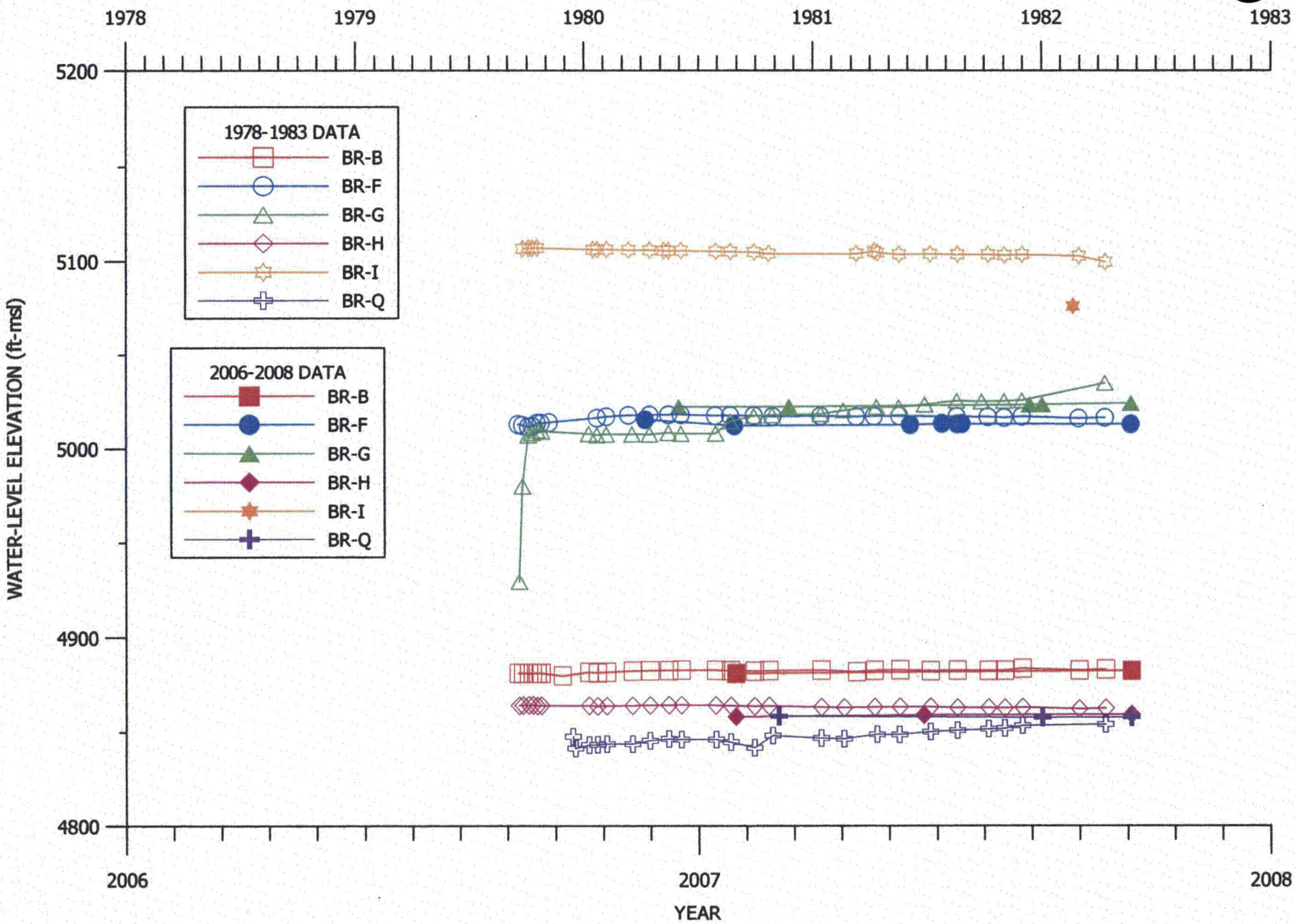

FIGURE D6D.2-3. WATER-LEVEL ELEVATION VERSUS TIME FOR WELLS BR-B, BR-F, BR-G, BR-H, BR-I and BR-Q

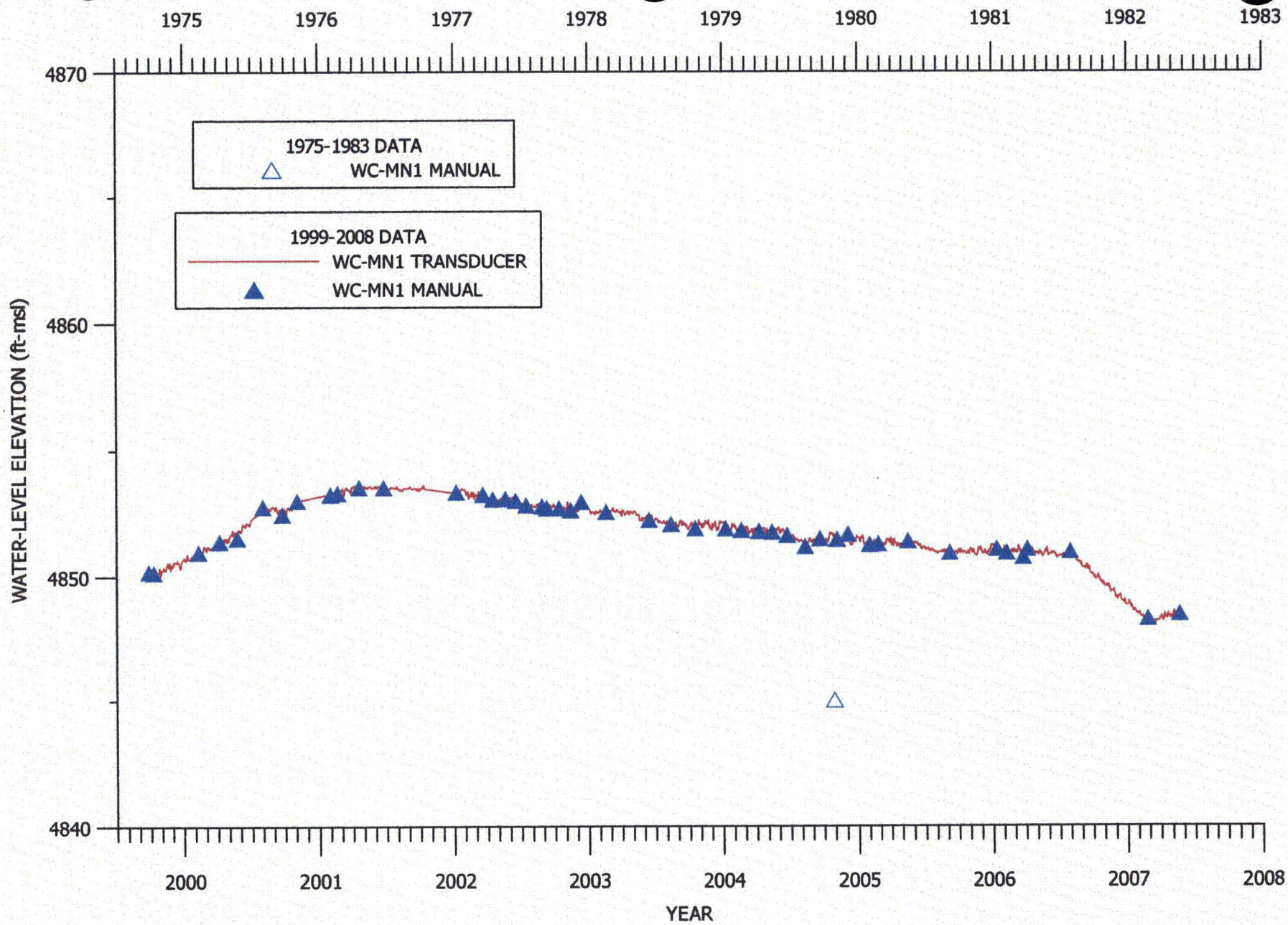

FIGURE D6D.2-4. WATER-LEVEL ELEVATION VERSUS TIME FOR DRY WILLOW SAND WELL (WC-MN1)

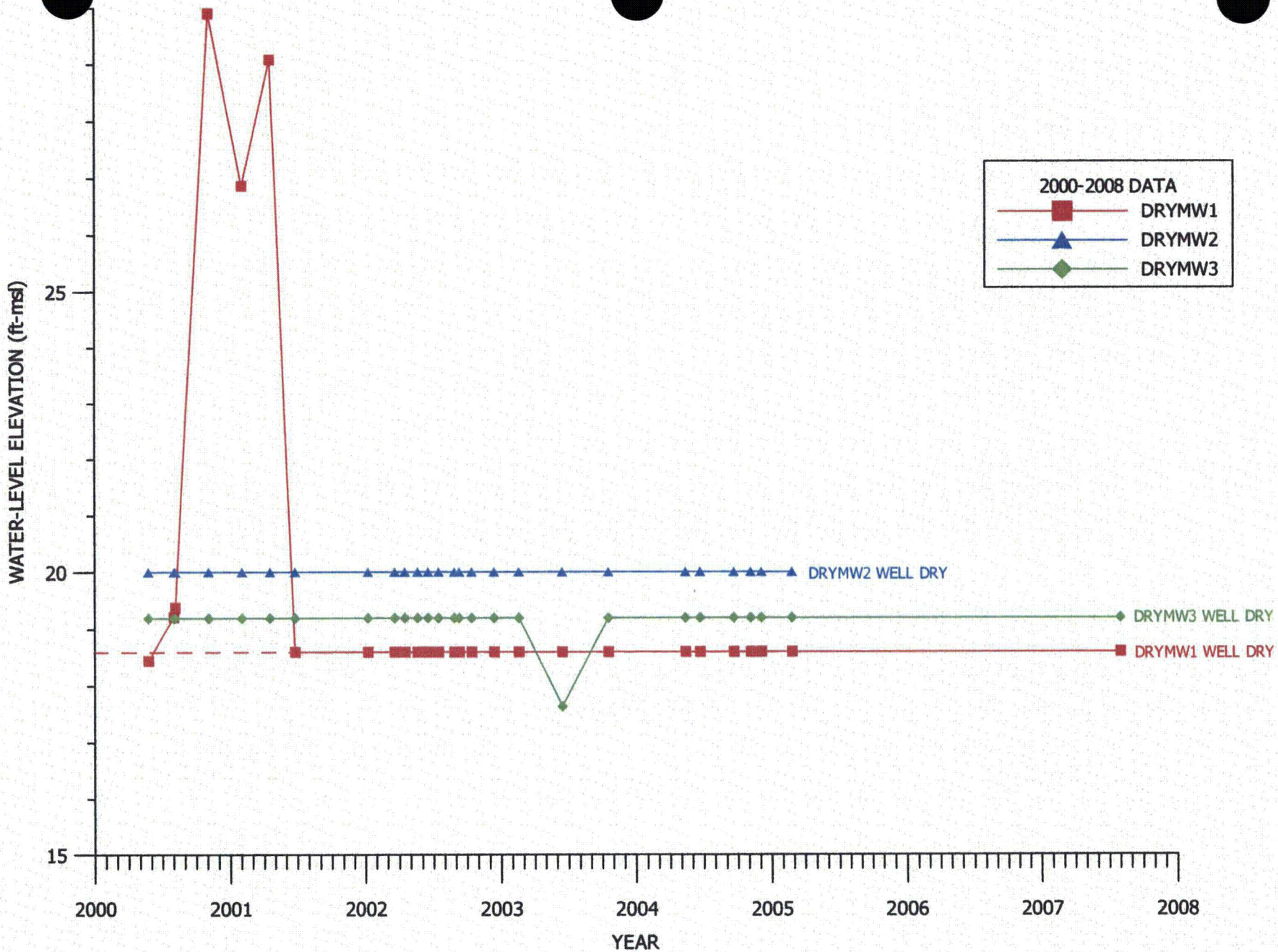

FIGURE D6D.2-5. WATER-LEVEL ELEVATION VERSUS TIME FOR DRY WILLOW ALLUVIAL WELLS DRYMW1, DRYMW2 and DRYMW3

TABLE D6D.2-1 WATER-LEVEL DATA FOR HANK UNIT WELLS (cont'd)

WATER-LEVEL ELEVATION (FT-MSL)

Date	Water Level (ft-MP)	Water Level Elevation (ft-MSL)
BR-B		
9/18/1979	142.74	4881.26
9/25/1979	142.80	4881.20
10/4/1979	142.74	4881.26
10/10/1979	142.76	4881.24
10/18/1979	142.78	4881.22
10/24/1979	142.74	4881.26
11/27/1979	144.10	4879.90
1/9/1980	142.20	4881.80
1/22/1980	142.55	4881.45
2/6/1980	142.29	4881.71
3/18/1980	141.58	4882.42
4/15/1980	141.45	4882.55
5/15/1980	141.30	4882.70
6/4/1980	141.15	4882.85
7/29/1980	141.22	4882.78
8/22/1980	141.45	4882.55
9/29/1980	141.70	4882.30
10/22/1980	141.53	4882.47
1/14/1981	141.20	4882.80
3/11/1981	142.04	4881.96
4/9/1981	141.33	4882.67
5/20/1981	141.15	4882.85
7/7/1981	141.56	4882.44
8/19/1981	141.33	4882.67
10/8/1981	141.47	4882.53
11/3/1981	141.31	4882.69
12/1/1981	140.40	4883.60
3/2/1982	141.27	4882.73
4/13/1982	140.85	4883.15
1/24/2007	142.95	4881.05
10/4/2007	141.61	4882.39
BR-F		
9/18/1979	69.29	5012.71
9/25/1979	69.82	5012.18
10/4/1979	70.52	5011.48
10/10/1979	70.32	5011.68
10/18/1979	68.69	5013.31
10/24/1979	68.67	5013.33
11/6/1979	68.35	5013.65
1/22/1980	65.97	5016.03
2/6/1980	65.26	5016.74
3/12/1980	64.54	5017.46
4/15/1980	64.41	5017.59
5/15/1980	64.25	5017.75
6/4/1980	64.25	5017.75
7/29/1980	64.69	5017.31
8/22/1980	64.70	5017.30
9/29/1980	64.76	5017.24
10/29/1980	65.27	5016.73
1/14/1981	65.00	5017.00
3/11/1981	65.27	5016.73
4/9/1981	65.04	5016.96
5/20/1981	65.00	5017.00
8/19/1981	65.31	5016.69
10/8/1981	65.42	5016.58
11/3/1981	65.77	5016.23
12/1/1981	65.24	5016.76
3/2/1982	66.25	5015.75
4/13/1982	65.90	5016.10
11/28/2006	66.86	5015.14
1/24/2007	70.00	5012.00
5/16/2007	69.56	5012.44
6/5/2007	69.02	5012.98
6/15/2007	69.13	5012.87
6/18/2007	69.05	5012.95
10/4/2007	69.25	5012.75
BR-G		
9/20/1979	242.55	4929.45
9/25/1979	191.84	4980.16
10/4/1979	164.95	5007.05
10/10/1979	163.59	5008.41
10/18/1979	162.23	5009.77
10/25/1979	162.91	5009.09
1/9/1980	164.21	5007.79
1/22/1980	164.84	5007.16
2/6/1980	164.49	5007.51
3/18/1980	164.40	5007.60
4/15/1980	164.53	5007.47
5/15/1980	163.66	5008.34
6/4/1980	164.07	5007.93
7/30/1980	164.04	5007.96
8/22/1980	157.72	5014.28
9/29/1980	154.92	5017.08
10/28/1980	154.49	5017.51
1/14/1981	153.90	5018.10
2/19/1981	151.95	5020.05
4/13/1981	150.00	5022.00
5/19/1981	150.33	5021.67
6/29/1981	148.83	5023.17
8/19/1981	146.85	5025.15
9/28/1981	147.20	5024.80
11/3/1981	146.97	5025.03
12/1/1981	146.50	5025.50
4/13/1982	137.25	5034.75
12/19/2006	150.01	5021.99
2/27/2007	149.90	5022.10
7/31/2007	148.96	5023.04
8/8/2007	148.82	5023.18
10/4/2007	148.19	5023.81
BR-H		
9/19/1979	90.83	4864.17
9/25/1979	90.75	4864.25
10/4/1979	90.70	4864.30
10/11/1979	90.62	4864.38
10/18/1979	90.97	4864.03
10/24/1979	90.94	4864.06
1/9/1980	90.89	4864.11
1/22/1980	91.29	4863.71
2/6/1980	91.14	4863.86
3/18/1980	90.88	4864.12
4/15/1980	90.79	4864.21
5/15/1980	90.73	4864.27
6/4/1980	90.62	4864.38
7/29/1980	90.75	4864.25
8/22/1980	90.96	4864.04
9/29/1980	91.31	4863.69
10/22/1980	91.13	4863.87
1/14/1981	91.70	4863.30
2/19/1981	91.94	4863.06
4/9/1981	91.75	4863.25
5/20/1981	91.64	4863.36
7/7/1981	91.60	4863.40
8/19/1981	92.07	4862.93
10/8/1981	92.10	4862.90
11/3/1981	92.26	4862.74
12/1/1981	91.88	4863.12
3/2/1982	92.71	4862.29
4/13/1982	92.37	4862.63
1/24/2007	96.70	4858.30
5/24/2007	95.80	4859.20
10/4/2007	95.56	4859.44
BR-I		
9/25/1979	49.30	5106.70
10/4/1979	49.10	5106.90
10/10/1979	49.18	5106.82
10/18/1979	49.04	5106.96
1/15/1980	49.88	5106.12
1/22/1980	50.01	5105.99
2/6/1980	49.79	5106.21
3/12/1980	50.15	5105.85
4/15/1980	50.16	5105.84
5/7/1980	50.47	5105.53
5/15/1980	50.47	5105.53
6/4/1980	50.49	5105.51
7/30/1980	50.81	5105.19
8/22/1980	50.99	5105.01
9/29/1980	51.26	5104.74
10/22/1980	52.13	5103.87
3/11/1981	52.13	5103.87
4/9/1981	50.77	5105.23
4/14/1981	51.55	5104.45
5/19/1981	52.50	5103.50
7/7/1981	52.23	5103.77
8/20/1981	52.51	5103.49
10/8/1981	52.48	5103.52
11/3/1981	52.83	5103.17
12/1/1981	52.48	5103.52
3/2/1982	53.30	5102.70
4/13/1982	56.45	5099.55
8/28/2007	> 80.00	< 5076.00
BR-K		
9/25/1979	116.75	5076.25
10/4/1979	120.04	5072.96
10/5/1979	122.62	5070.38
10/10/1979	122.41	5070.59
10/18/1979	122.24	5070.76
9/28/2007	> 129.95	< 5063.05
Brown #5		
9/26/2007	215.60	4846.16
9/26/2007	215.60	4846.16
Brown-WS		
2/21/2007	266.62	4879.38
12/6/2007	266.77	4879.23

Abandoned well

- Brown-WS

TABLE D6D.2-1 WATER-LEVEL DATA FOR HANK UNIT WELLS (cont'd)

WATER-LEVEL ELEVATION (FT-MSL)

Date	Water Level (ft-MP)	Water Level Elevation (ft-MSL)
BR-Q		
12/14/1979	302.25	4847.75
12/18/1979	308.57	4841.43
1/9/1980	306.62	4843.38
1/22/1980	306.51	4843.49
2/6/1980	306.13	4843.87
3/18/1980	306.20	4843.80
4/15/1980	304.35	4845.65
5/15/1980	303.51	4846.49
6/4/1980	303.77	4846.23
7/30/1980	303.77	4846.23
8/22/1980	305.21	4844.79
9/29/1980	308.06	4841.94
10/28/1980	301.73	4848.27
1/14/1981	303.10	4846.90
2/19/1981	303.39	4846.61
4/13/1981	301.03	4848.97
5/19/1981	301.17	4848.83
7/7/1981	299.71	4850.29
8/19/1981	298.99	4851.01
10/8/1981	298.34	4851.66
11/3/1981	297.95	4852.05
12/1/1981	296.42	4853.58
4/13/1982	295.80	4854.20
2/21/2007	291.50	4858.50
8/8/2007	292.19	4857.81
10/4/2007	292.08	4857.92
BR-T		
12/12/1979	199.70	4833.30
1/15/1980	205.69	4827.31
3/18/1980	204.68	4828.32
5/15/1980	200.55	4832.45
6/4/1980	201.29	4831.71
8/22/1980	196.04	4836.96
9/29/1980	208.78	4824.22
10/29/1980	190.88	4842.12
3/11/1981	196.50	4836.50
BR-U		
11/14/1979	6.74	4976.44
11/30/1979	6.84	4976.34
1/9/1980	6.89	4976.29
2/6/1980	6.83	4976.35
3/12/1980	6.67	4976.51
4/15/1980	6.78	4976.40
5/15/1980	6.83	4976.35
6/4/1980	7.40	4975.78
7/30/1980	8.25	4974.93
8/22/1980	8.06	4975.12
9/29/1980	8.57	4974.61
10/22/1980	8.50	4974.68
1/14/1981	9.10	4974.08
2/19/1981	8.85	4974.33
4/9/1981	9.03	4974.15
5/12/1981	9.15	4974.03
7/7/1981	9.63	4973.55
8/19/1981	10.15	4973.03
10/8/1981	10.94	4972.24
11/3/1981	11.23	4971.95
4/13/1982	11.86	4971.32
C #1		
1/1/1979	194.00	4943.00
8/2/2007	192.22	4944.78
10/4/2007	191.95	4945.05
Dry Willow #1		
1/1/1979	228.00	4939.00
3/22/2007	223.27	4943.73
5/2/2007	222.46	4944.54
5/24/2007	222.83	4944.17
9/5/2007	223.00	4944.00
10/4/2007	222.10	4944.90
DRYMW1		
10/4/2007	> 19.20	< 4910.80
DRYMW3		
10/4/2007	> 18.60	< 4901.40
F. Brown #1		
10/4/2007	198.04	4691.96
Hank 1		
1/1/1979	369.00	4881.00
9/7/2006	355.26	4894.74
4/19/2007	354.96	4895.04
4/19/2007	354.54	4895.46
5/2/2007	355.52	4894.48
7/11/2007	355.87	4894.13
7/31/2007	355.48	4894.52
8/8/2007	355.35	4894.65
Means #1		
11/16/2006	354.00	4905.86
9/26/2007	338.60	4921.26
NBHW-13		
11/28/2006	132.77	4841.23
2/21/2007	132.00	4842.00
5/16/2007	130.96	4843.04
7/25/2007	130.96	4843.04
10/4/2007	130.63	4843.37
Old Maid #1		
6/6/2007	197.40	4882.60
OW43756		
9/26/2007	146.40	4905.60
9/26/2007	146.40	4905.60
10/4/2007	146.80	4905.20
Paden #1		
2/21/2007	310.00	4918.00
SS1-F		
6/15/2007	116.00	4859.00
6/18/2007	115.74	4859.26
6/26/2007	116.02	4858.98
SS1-FPU		
6/15/2007	117.31	4858.69
6/18/2007	116.98	4859.02
6/26/2007	117.26	4858.74
SS1-L		
10/12/1978	148.92	4825.08
11/1/1978	149.00	4825.00
1/1/1979	146.00	4828.00
8/1/1979	203.00	4771.00
10/26/1979	140.50	4833.50
6/5/2007	140.72	4833.28
6/18/2007	140.67	4833.33
7/25/2007	140.93	4833.07
SS1-M		
11/1/1978	151.00	4823.00
1/1/1979	146.00	4828.00
8/1/1979	139.00	4835.00
10/1/1979	140.50	4833.50
6/15/2007	140.71	4833.29
6/18/2007	140.00	4834.00
6/26/2007	140.41	4833.59
SS1-PU		
11/1/1978	—	—
1/1/1979	—	—
6/15/2007	—	—
6/18/2007	—	—
6/26/2007	—	—
SS1-U		
10/1/1978	149.00	4826.00
11/1/1978	160.00	4815.00
1/1/1979	144.00	4831.00
8/1/1979	140.00	4835.00
10/1/1979	139.00	4836.00
6/15/2007	138.04	4836.96
6/18/2007	138.01	4836.99
URZHB-6		
7/27/2007	352.69	4861.09
7/31/2007	350.82	4862.96
8/8/2007	350.82	4862.96
8/28/2007	352.54	4861.24
10/4/2007	352.08	4861.70

Abandoned well

- URZHB-6

TABLE D6D.2-1 WATER-LEVEL DATA FOR HANK UNIT WELLS (cont'd)

WATER-LEVEL ELEVATION (FT-MSL)

Date	Water Level (ft-MP)	Water Level Elevation (ft-MSL)	Date	Water Level (ft-MP)	Water Level Elevation (ft-MSL)	Date	Water Level (ft-MP)	Water Level Elevation (ft-MSL)	Date	Water Level (ft-MP)	Water Level Elevation (ft-MSL)
URZHC-2											
12/19/2006	349.01	4885.75									
5/2/2007	338.70	4896.06									
5/24/2007	341.32	4893.44									
6/4/2007	349.09	4885.67									
6/26/2007	342.30	4892.46									
6/28/2007	341.98	4892.78									
7/13/2007	343.09	4891.67									
7/24/2007	341.12	4893.64									
8/2/2007	343.73	4891.03									
9/6/2007	343.32	4891.44									
10/4/2007	342.68	4892.08									
URZHF-1											
12/19/2006	328.30	4903.43									
6/26/2007	329.50	4902.23									
7/24/2007	328.91	4902.82									
10/4/2007	328.33	4903.40									
URZHF-5											
7/27/2007	315.51	4902.16									
7/31/2007	317.09	4900.58									
8/8/2007	317.41	4900.26									
10/4/2007	316.30	4901.37									
URZHG-3											
6/26/2007	274.43	4954.39									
6/28/2007	274.38	4954.44									
7/24/2007	274.22	4954.60									
10/4/2007	273.88	4954.94									
URZHG-4											
7/31/2007	280.67	4935.11									
8/8/2007	280.63	4935.15									
10/4/2007	280.39	4935.39									
URZHH-7											
9/5/2007	96.43	5072.94									
10/4/2007	96.68	5072.69									
WC-MN1											
10/29/1979	97.00	4845.00									
1/1/1999	99.00	4843.00									

Abandoned well

- WC-MN1

D6D.3 COAL BED WATER LEVELS

This section of Addendum D6D presents water levels in the coal aquifer and overlying sands that have been collected in this area for the BLM. Tabulation of these water levels is not presented in this addendum but can be obtained from the BLM.

Figure D6D.3-1 presented the water level elevation changes for a coal well which is approximately 5 miles north of the Hank Unit. The Pistol Coal well shows that water levels have been fairly steady with a gradual decline for the last few years. These water level changes could be natural. The second water level elevation plot is presented for the Bull Wacker Sand and Coal wells. The water level elevations for both the sand well and the coal well are presented in this figure with the water level elevations on the left scale for the sand and on the right scale for the coal. These wells are approximately 6 miles to the southwest of the Nichols Ranch Unit. The coal water level elevations in this well have decreased greater than 600 feet while the sand water level elevations show a fairly similar pattern with a total decline of 140 feet. This sand well is 140 feet above the coal, which is much closer to the coal than the A Sand is at the Nichols Ranch Unit. This sand unit must be connected with the coal or some well completion is allowing connection between the coal and this sand unit.

The Streeter Coal and Sand wells are located approximately 12 miles due west of the Nichols Ranch Unit. Figure D6D.3-3 presents the water level elevation for this sand well, which is 624 feet above the coal well at this location. The water level elevation in the coal well has dropped approximately 20 feet in this area. Water level elevations for the last couple years in the sand well have been fairly steady but have declined approximately 9 feet from late 2004 to late 2005. The completion of this sand well is closer to the completion interval of the A Sand above the coal at the Nichols Ranch Unit. It is difficult to say whether this sand water level elevation has been affected by the coal bed methane dewatering.

Figure D6D.3-4 presents the water level elevations for the All Night Coal and Sand wells which are located approximately 12 miles south east of the Hank Unit. The coal well shows greater than 400 feet of water level decline in this area while the sand well which is completed approximately 100 feet above the coal shows essentially no decline in its water-level. Water-levels in the sand aquifers that are significantly above the coal are expected to respond similar to this well as long as no wells in the area connect the coal to the sand units.

The Beaver Federal Sand and Coal wells are located 20 miles north-northeast of the Hank Unit. Figure D6D.3-5 shows that the water levels in the coal well have declined greater than 230 feet while the water-levels in the sand well have been very steady. The sand well is completed 541 feet above the coal, similar to the A Sand completion above the coal. This response should be similar to the responses of the Ore Sands due to the coal bed methane production.

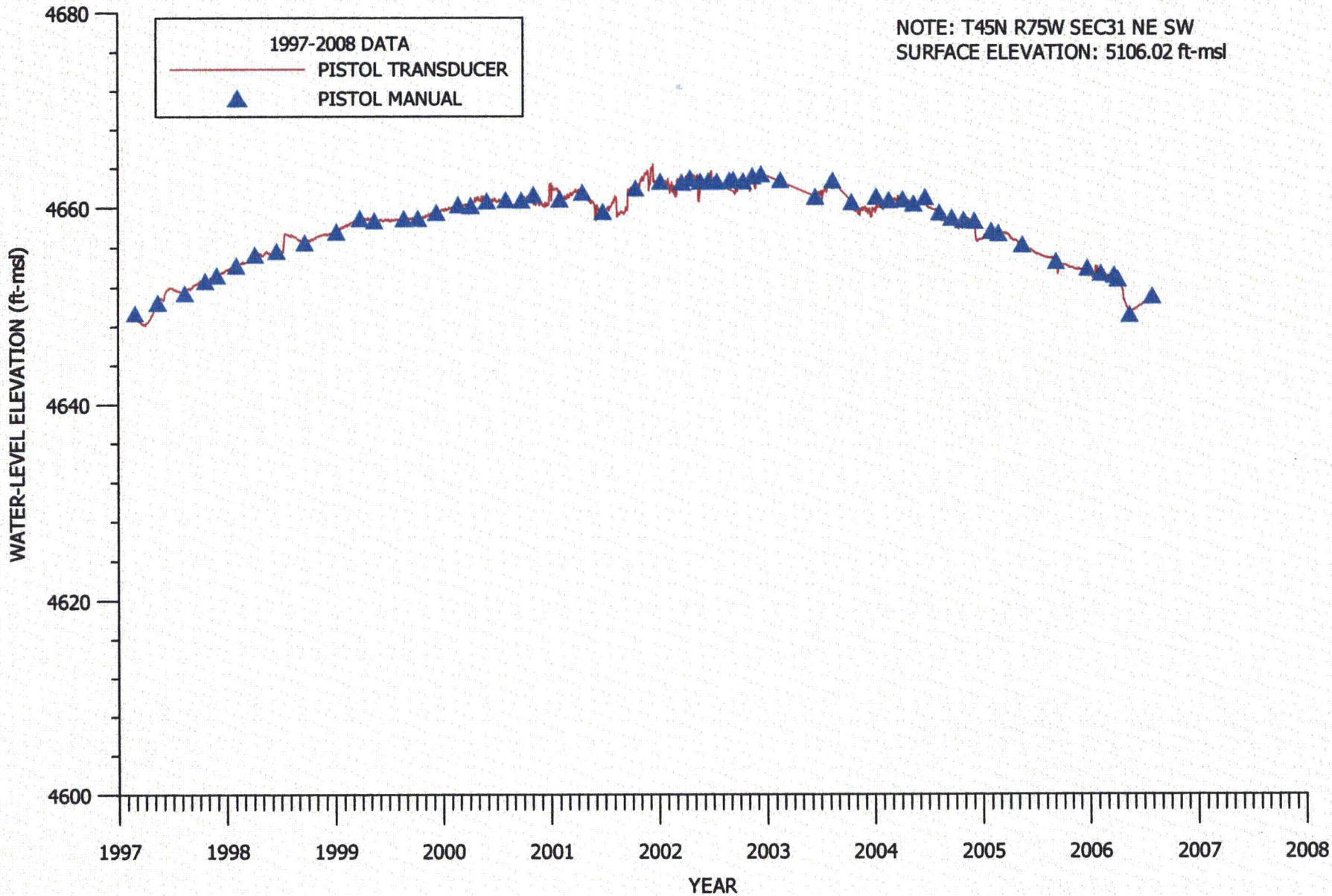

FIGURE D6D.3-1. WATER-LEVEL ELEVATION VERSUS TIME FOR PISTOL COAL WELL

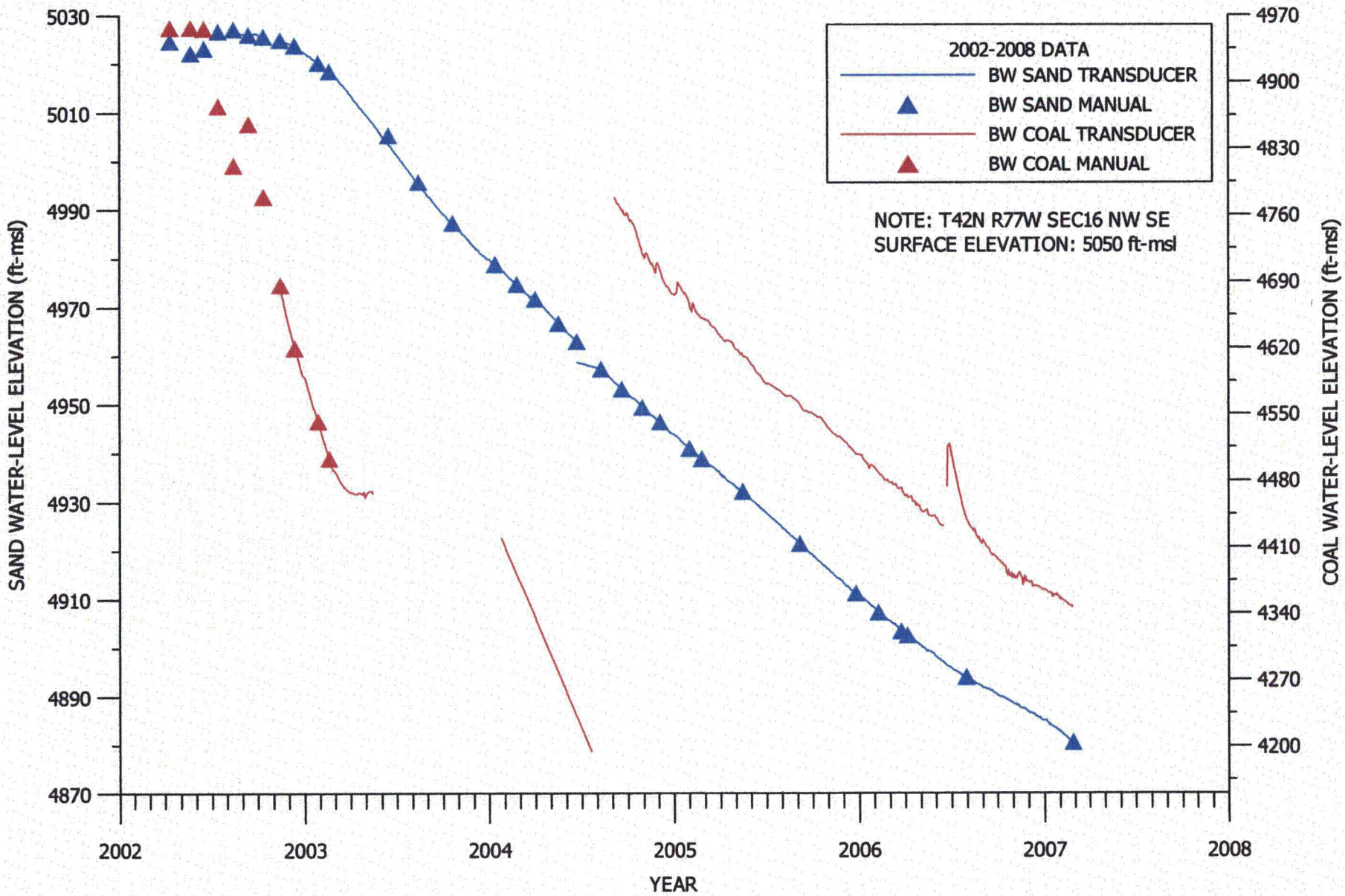

FIGURE D6D.3-2. WATER-LEVEL ELEVATION VERSUS TIME FOR BULLWACKER SAND and COAL WELLS

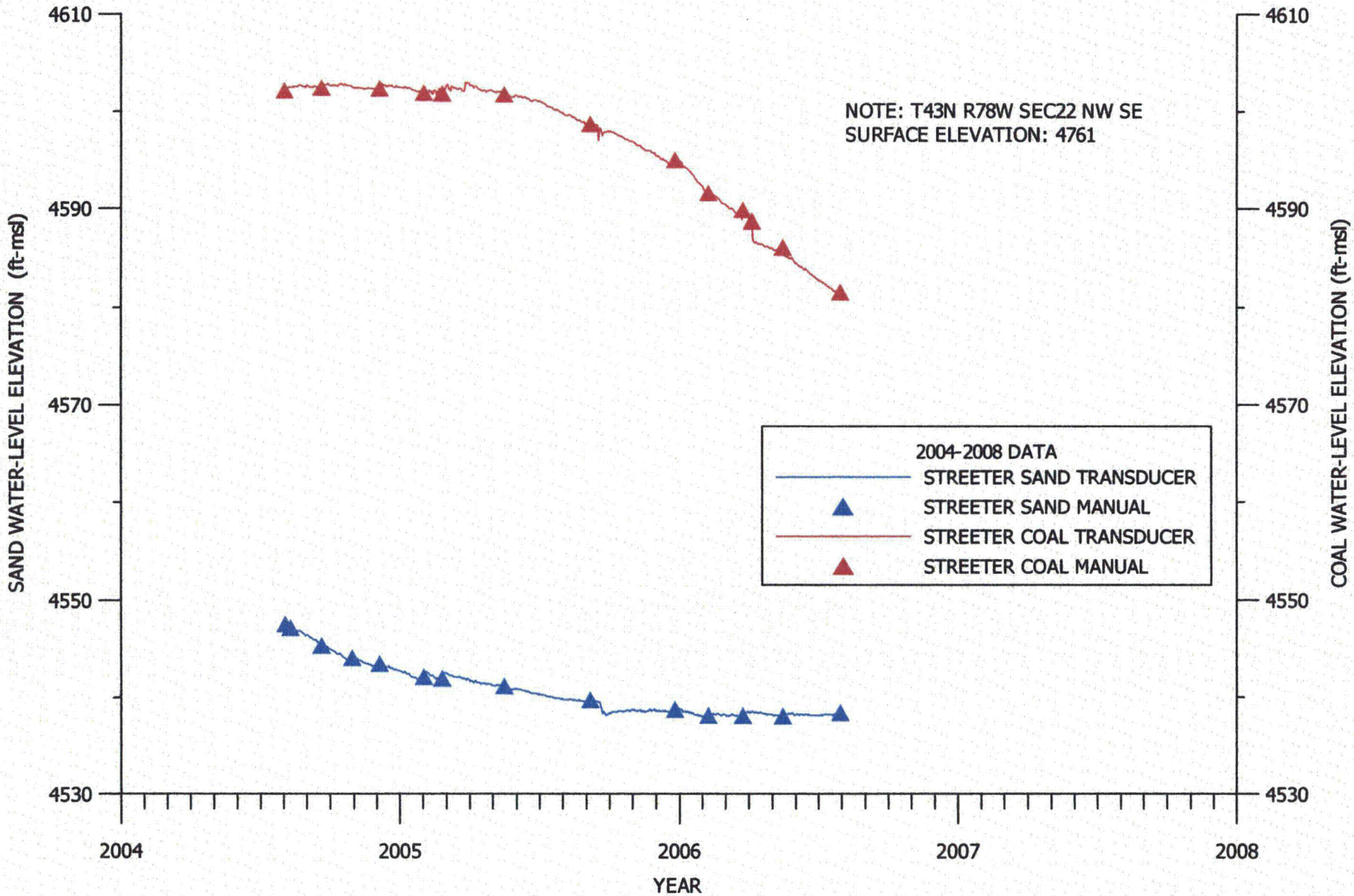

FIGURE D6D.3-3. WATER-LEVEL ELEVATION VERSUS TIME FOR STREETER SAND and COAL WELLS

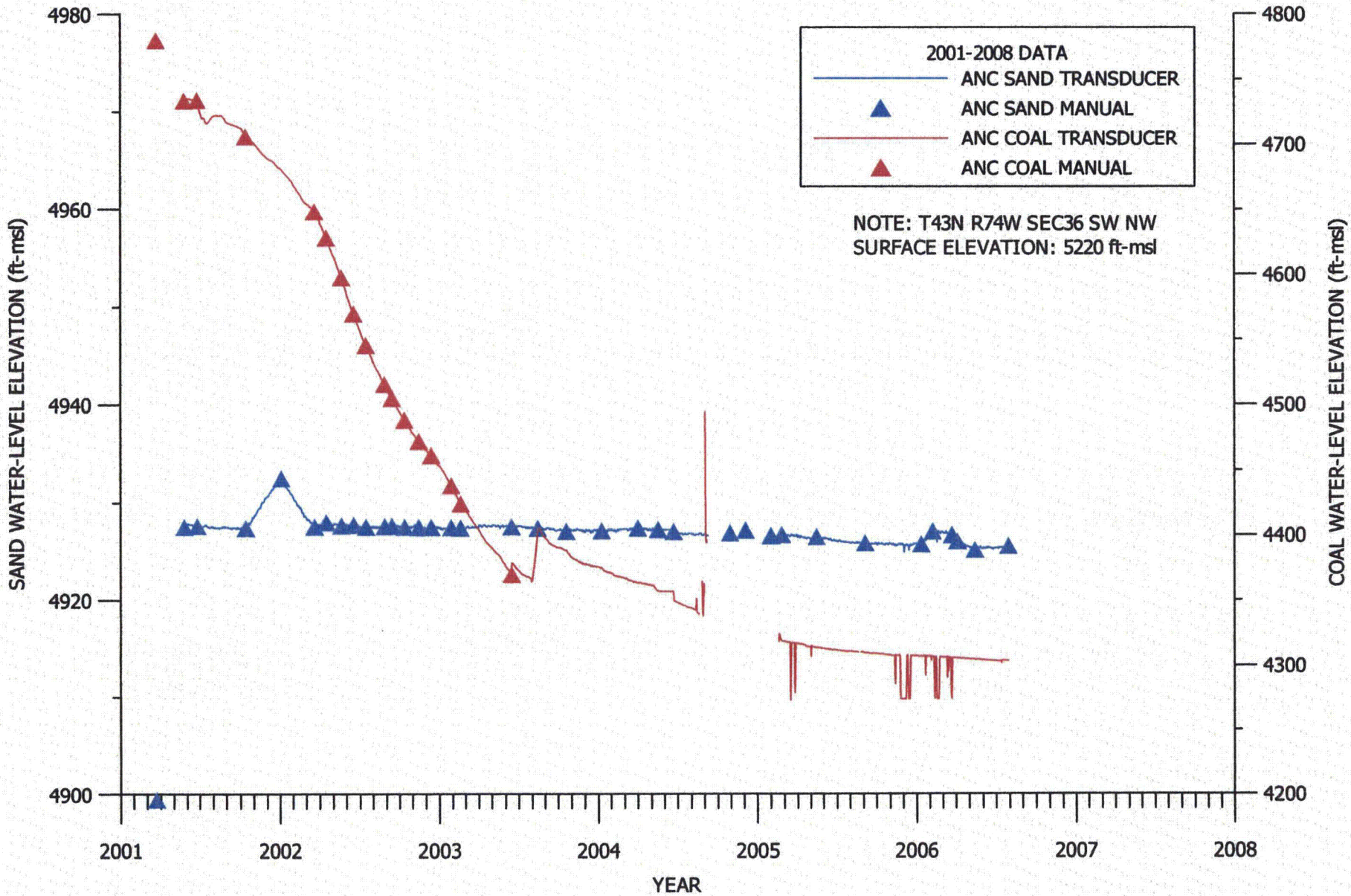

FIGURE D6D.3-4. WATER-LEVEL ELEVATION VERSUS TIME FOR ALL NIGHT CREEK SAND and COAL WELLS

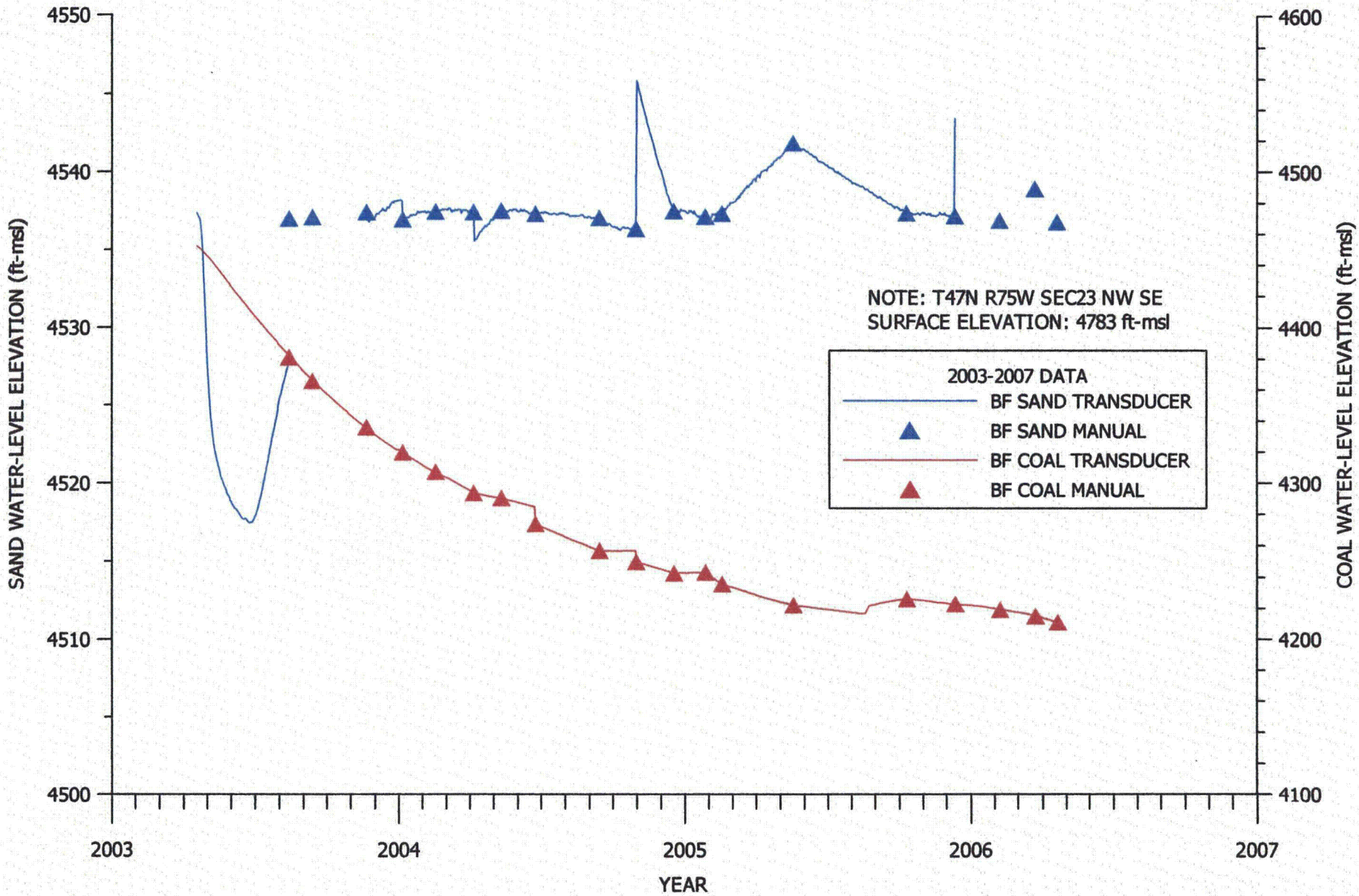

FIGURE D6D.3-5. WATER-LEVEL ELEVATION VERSUS TIME FOR BEAVER FEDERAL SAND and COAL WELLS

ADDENDUM D6E:

GROUNDWATER QUALITY

November 2007

GROUND-WATER QUALITY ADDENDUM D6E

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TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA.

Well Name	Date	Ca (mg/l)	Cl (mg/l)	CO3 (mg/l)	HCO3 (mg/l)	K (mg/l)	Mg (mg/l)	Na (mg/l)	SO4 (mg/l)	Fe (mg/l)
20-9	11/16/2006	5.0	3.0	8.0	269	2.0	< 1.0	108	18.0	< 0.03
	5/18/2007	5.0	1.0	5.0	291	2.0	< 1.0	107	19.0	< 0.03
CALVING #1	3/20/2007	12.0	6.0	2.0	153	3.0	< 1.0	100.0	109	0.05
	8/22/2007	10.0	5.0	< 1.0	158	2.0	< 1.0	96.0	110	< 0.03
DW-4L	11/2/1978	7.7	15.0	24.0	83	3.8	1.0	106	134	< 0.01
	4/21/1979	5.8	11.8	17.0	80	5.7	0.6	118	167	0.25
	10/28/1979	7.5	10.4	13.0	95	2.5	0.7	129	167	0.08
	7/7/2006	9.2	9.0	3.0	118	1.9	0.9	108	166	0.65
	9/7/2006	8.9	8.0	< 1.0	137	1.9	1.0	123	183	0.25
	12/20/2006	9.0	10.0	3.0	127	2.0	< 1.0	130	170	0.08
	5/17/2007	8.0	10.0	3.0	128	1.9	0.9	112	155	0.10
DW-4M	11/1/1978	6.6	15.0	189.0	32	6.2	1.0	90.0	< 5.00	0.17
	4/20/1979	2.4	12.6	72.0	112	6.2	0.3	67.0	24.0	1.45
	10/29/1979	17.0	9.0	13.0	149	4.0	2.5	150	230	0.05
	12/20/2006	43.0	9.0	3.0	181	4.0	6.0	160	282	< 0.03
	5/18/2007	49.0	1.0	< 1.0	193	4.0	7.0	172	324	< 0.03
DW-4U	11/8/1978	38.0	6.0	4.0	29	31.0	11.0	192	563	0.02
	4/21/1979	90.0	5.5	< 1.0	135	10.0	22.0	200	637	0.01
	10/29/1979	98.0	5.0	< 1.0	145	8.3	22.0	212	631	0.02
	12/21/2006	105.0	3.0	< 1.0	143	7.0	25.0	187	650	< 0.03
	5/14/2007	102.0	3.0	< 1.0	154	7.0	26.0	204	655	< 0.03
	5/17/2007	104.0	6.0	< 1.0	151	7.0	26.0	198	649	< 0.03
GARDEN	3/20/2007	15.0	4.0	2.0	140	3.0	1.0	112	155	0.10
	8/22/2007	14.0	5.0	1.0	145	2.0	1.0	110	157	0.14
MN-1	11/18/1978	5.3	6.0	4.0	151	1.7	0.5	84.0	85.0	0.12
	4/19/1979	5.3	6.6	7.2	152	2.4	0.4	102	108	0.08
	12/14/2006	6.0	6.0	4.0	140	2.0	< 1.0	100.0	102	< 0.03
	5/2/2007	6.0	4.0	2.8	150	2.0	< 1.0	105	111	< 0.03
	7/13/2007	6.0	8.0	3.0	153	2.0	< 1.0	114	111	< 0.03
MN-2	12/14/2006	8.0	7.0	3.0	137	2.0	< 1.0	111	108	< 0.03
	4/18/2007	8.0	8.0	2.0	152	2.0	< 1.0	118	132	< 0.03
	6/29/2007	8.0	6.0	< 1.0	156	2.0	< 1.0	117	136	< 0.03
	9/10/2007	8.0	5.0	4.0	151	2.0	< 1.0	111	141	< 0.03
	9/10/2007	7.0	7.0	4.0	151	2.0	< 1.0	109	139	< 0.03
MN-3	12/14/2006	11.0	14.0	3.0	146	2.0	< 1.0	115	129	< 0.03
	1/25/2007	10.0	7.0	2.0	148	3.0	< 1.0	113	149	< 0.03
	4/18/2007	10.0	7.0	2.0	151	2.0	< 1.0	122	145	< 0.03
	8/7/2007	10.0	16.0	2.0	152	2.0	< 1.0	122	152	< 0.03

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Ca (mg/l)	Cl (mg/l)	CO3 (mg/l)	HCO3 (mg/l)	K (mg/l)	Mg (mg/l)	Na (mg/l)	SO4 (mg/l)	Fe (mg/l)
MN-4	12/14/2006	7.0	8.0	3.0	133	2.0	< 1.0	113	119	< 0.03
	1/25/2007	7.0	7.0	3.0	141	2.0	< 1.0	113	138	< 0.03
	4/18/2007	7.0	7.0	2.0	147	2.0	< 1.0	117	135	< 0.03
	7/10/2007	7.0	6.0	2.0	148	2.0	< 1.0	121	136	< 0.03
MN-5	4/18/2007	7.0	6.0	3.0	149	2.0	< 1.0	115	126	< 0.03
	5/30/2007	7.0	6.0	2.0	147	2.0	< 1.0	117	125	< 0.03
	8/7/2007	7.0	5.0	2.0	152	2.0	< 1.0	115	133	< 0.03
MN-6	3/23/2007	7.0	7.0	4.0	152	2.0	< 1.0	115	114	< 0.03
N1, 11894	11/16/2006	7.0	5.0	< 1.0	152	2.0	< 1.0	100.0	104	< 0.03
	5/18/2007	7.0	5.0	2.0	152	1.0	< 1.0	98.0	105	< 0.03
URZN1-2	12/20/2006	4.0	5.0	14.0	238	2.0	< 1.0	102	2.00	< 0.03
	3/23/2007	4.0	4.0	24.0	209	3.0	< 1.0	104	2.00	< 0.03
	6/4/2007	4.0	6.0	13.0	242	2.0	< 1.0	100.0	1.000	< 0.03
	8/29/2007	3.0	5.0	12.0	246	2.0	< 1.0	92.0	1.000	< 0.03
URZNB-1	12/22/2006	6.0	5.0	13.0	124	3.0	< 1.0	109	124	< 0.03
	3/21/2007	6.0	7.0	26.0	110	4.0	< 1.0	118	125	< 0.03
	5/30/2007	6.0	6.0	18.0	116	4.0	< 1.0	116	121	< 0.03
	8/7/2007	5.0	6.0	15.0	123	4.0	< 1.0	116	128	< 0.03
URZNF-3	9/10/2007	107.0	5.0	< 1.0	135	5.0	25.0	245	734	0.10
W. of WW1	3/15/2007	100.0	3.0	< 1.0	194	6.0	31.0	121	518	0.53
	6/6/2007	100.0	3.0	< 1.0	198	6.0	29.0	128	517	0.06

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Temp (deg. C)	TDS (mg/l)	Cond (µmhos)	Cond(f) (µmhos)	pH (units)	pH(f) (std.	Mn (mg/l)	NH3 (mg/l)	NO3+NO2 (mg/l)
20-9	11/16/2006	12.4	298	509	503	8.73	8.34	0.01	0.06	< 0.1
	5/18/2007	13.4	268	491	505	8.54	8.66	0.01	0.12	< 0.1
CALVING #1	3/20/2007	---	298	516	---	8.34	---	< 0.01	< 0.05	< 0.1
	8/22/2007	19.8	292	477	501	8.12	8.12	< 0.01	< 0.05	< 0.1
DW-4L	11/2/1978	20.0	310	---	690	---	9.50	< 0.01	0.33	---
	4/21/1979	14.0	348	---	74.0	---	9.10	---	< 0.10	---
	10/28/1979	14.0	370	---	690	---	9.00	< 0.01	0.04	---
	7/7/2006	---	364	613	---	8.71	---	0.02	< 0.05	< 0.1
	9/7/2006	16.4	332	643	575	8.18	8.57	0.02	< 0.05	< 0.1
	12/20/2006	14.5	352	610	614	8.64	8.54	0.03	0.07	< 0.1
	5/17/2007	16.4	360	605	619	8.67	8.88	0.01	< 0.05	< 0.1
DW-4M	11/1/1978	22.0	202	---	523	---	9.10	< 0.01	0.18	---
	4/20/1979	13.0	167	---	460	---	10.20	0.01	---	---
	10/29/1979	---	490	---	---	8.70	---	< 0.01	0.07	---
	12/20/2006	10.9	536	924	933	8.39	8.10	0.04	0.08	< 0.1
	5/18/2007	14.7	618	994	1005	8.26	8.34	0.04	0.05	< 0.1
DW-4U	11/8/1978	14.0	982	---	1720	---	9.80	< 0.01	0.02	---
	4/21/1979	12.0	105	---	1740	---	7.70	0.06	< 0.10	---
	10/29/1979	---	1060	---	---	---	7.90	0.05	0.08	---
	12/21/2006	11.9	1050	1480	1483	8.01	7.41	0.06	< 0.05	< 0.1
	5/14/2007	---	1050	1560	1291	7.87	7.00	0.05	< 0.05	< 0.1
	5/17/2007	12.3	1030	1460	1484	7.90	7.78	0.05	< 0.05	< 0.1
GARDEN	3/20/2007	---	362	582	---	8.47	---	0.02	< 0.05	< 0.1
	8/22/2007	14.1	350	576	601	8.31	8.65	0.02	0.07	< 0.1
MN-1	11/18/1978	18.0	306	---	2290	---	8.60	< 0.01	0.02	---
	4/19/1979	14.0	289	---	720	---	8.50	< 0.01	< 0.10	---
	12/14/2006	14.1	296	489	512	8.68	8.68	< 0.01	< 0.05	< 0.1
	5/2/2007	15.6	322	533	517	8.59	7.26	< 0.01	< 0.05	< 0.1
	7/13/2007	17.7	294	515	508	8.60	8.41	< 0.01	< 0.05	< 0.1
MN-2	12/14/2006	13.6	334	534	554	8.57	8.45	< 0.01	< 0.05	< 0.1
	4/18/2007	14.8	348	580	569	8.45	7.56	0.01	< 0.05	< 0.1
	6/29/2007	17.1	310	577	534	7.41	8.25	< 0.01	< 0.05	< 0.1
	9/10/2007	14.7	312	549	583	8.34	8.77	0.01	< 0.05	< 0.1
	9/10/2007	14.7	320	550	583	8.32	8.77	< 0.01	< 0.05	< 0.1
MN-3	12/14/2006	13.7	350	585	595	8.53	8.25	< 0.01	0.57	< 0.1
	1/25/2007	13.8	362	581	560	8.43	8.26	< 0.01	0.32	< 0.1
	4/18/2007	---	346	595	583	8.51	8.23	< 0.01	0.18	< 0.1
	8/7/2007	16.7	358	579	583	8.46	8.26	< 0.01	0.18	< 0.1

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Temp (deg. C)	TDS (mg/l)	Cond (µmhos)	Cond(f) (µmhos)	pH (units)	pH(f) (std.	Mn (mg/l)	NH3 (mg/l)	NO3+NO2 (mg/l)
MN-4	12/14/2006	14.9	330	571	565	8.67	8.48	< 0.01	0.05	< 0.1
	1/25/2007	14.0	338	551	541	8.49	8.41	< 0.01	0.09	< 0.1
	4/18/2007	14.9	356	577	568	8.48	7.61	< 0.01	< 0.05	< 0.1
	7/10/2007	17.0	344	559	559	8.47	8.20	< 0.01	< 0.05	< 0.1
MN-5	4/18/2007	---	334	540	554	8.51	8.39	< 0.01	< 0.05	< 0.1
	5/30/2007	14.9	328	552	512	8.51	8.20	< 0.01	< 0.05	< 0.1
	8/7/2007	16.2	338	533	535	8.46	8.27	< 0.01	< 0.05	< 0.1
MN-6	3/23/2007	---	310	518	507	8.74	8.31	< 0.01	0.16	< 0.1
N1, 11894	11/16/2006	11.1	298	509	502	8.11	8.68	< 0.01	< 0.05	< 0.1
	5/18/2007	12.5	274	492	505	8.49	8.78	< 0.01	< 0.05	< 0.1
URZN1-2	12/20/2006	14.1	230	414	421	9.01	8.78	< 0.01	0.09	< 0.1
	3/23/2007	---	246	414	417	9.39	8.99	< 0.01	0.08	< 0.1
	6/4/2007	---	204	425	409	9.05	8.82	< 0.01	0.05	< 0.1
	8/29/2007	16.3	248	393	417	7.07	9.15	< 0.01	0.06	< 0.1
URZNB-1	12/22/2006	13.4	324	540	541	9.26	9.14	< 0.01	< 0.05	< 0.1
	3/21/2007	---	278	541	535	9.63	9.43	< 0.01	< 0.05	< 0.1
	5/30/2007	---	318	557	549	9.52	9.51	< 0.01	< 0.05	< 0.1
	8/7/2007	15.8	312	537	548	9.41	9.62	< 0.01	< 0.05	< 0.1
URZNF-3	9/10/2007	13.7	1170	1710	1716	8.07	8.36	0.17	0.06	< 0.1
W. of WW1	3/15/2007	12.9	884	1260	1239	7.82	7.46	0.07	< 0.05	< 0.1
	6/6/2007	13.0	872	1390	1282	7.83	7.64	0.07	< 0.05	< 0.1

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	F (mg/l)	Al (mg/l)	As (mg/l)	Ba (mg/l)	Cr (mg/l)	Cu (mg/l)	B (mg/l)	Cd (mg/l)	Hg (mg/l)
20-9	11/16/2006	0.80	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/18/2007	0.70	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
CALVING #1	3/20/2007	0.30	< 0.10	< 0.001	0.20	< 0.050	0.02	< 0.10	< 0.005	< 0.0010
	8/22/2007	0.30	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
DW-4L	11/2/1978	0.14	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	0.40	< 0.010	< 0.0005
	4/21/1979	0.10	---	---	---	---	---	---	---	0.0005
	10/28/1979	0.18	< 0.10	< 0.002	< 0.10	< 0.020	< 0.01	< 0.10	< 0.010	< 0.0003
	7/7/2006	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	9/7/2006	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	12/20/2006	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/17/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.010	< 0.0010
DW-4M	11/1/1978	1.40	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	0.60	< 0.010	0.0005
	4/20/1979	0.70	---	---	---	0.030	0.07	---	---	---
	10/29/1979	0.52	< 0.10	< 0.002	< 0.10	< 0.020	< 0.01	0.10	< 0.010	< 0.0005
	12/20/2006	0.50	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/18/2007	0.40	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
DW-4U	11/8/1978	0.07	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	< 0.10	< 0.010	< 0.0005
	4/21/1979	< 0.02	---	---	---	---	---	0.30	---	---
	10/29/1979	0.07	< 0.10	< 0.002	< 0.10	< 0.020	< 0.01	0.10	< 0.010	< 0.0020
	12/21/2006	< 0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/14/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/17/2007	< 0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
GARDEN	3/20/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/22/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
MN-1	11/18/1978	0.29	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	0.50	< 0.010	< 0.0005
	4/19/1979	0.30	< 0.10	0.002	< 0.10	< 0.010	< 0.01	< 0.10	< 0.010	0.0007
	12/14/2006	0.30	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/2/2007	0.30	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	7/13/2007	0.30	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
MN-2	12/14/2006	0.30	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	4/18/2007	0.20	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	6/29/2007	0.20	< 0.10	0.003	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	9/10/2007	0.30	< 0.10	0.009	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	9/10/2007	0.20	< 0.10	0.008	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
MN-3	12/14/2006	0.20	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	1/25/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	4/18/2007	0.30	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/7/2007	0.30	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	F (mg/l)	Al (mg/l)	As (mg/l)	Ba (mg/l)	Cr (mg/l)	Cu (mg/l)	B (mg/l)	Cd (mg/l)	Hg (mg/l)
MN-4	12/14/2006	0.30	< 0.10	0.003	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	1/25/2007	0.30	< 0.10	0.003	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	4/18/2007	0.20	< 0.10	0.003	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	7/10/2007	0.30	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
MN-5	4/18/2007	0.30	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/30/2007	0.20	< 0.10	0.003	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/7/2007	0.30	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
MN-6	3/23/2007	0.30	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
N1, 11894	11/16/2006	0.30	< 0.10	0.004	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/18/2007	0.40	< 0.10	0.004	< 0.10	< 0.050	0.01	< 0.10	< 0.005	< 0.0010
URZN1-2	12/20/2006	0.60	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	3/23/2007	0.70	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	6/4/2007	0.60	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/29/2007	0.70	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
URZNB-1	12/22/2006	0.30	< 0.10	0.007	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	3/21/2007	0.30	< 0.10	0.007	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/30/2007	0.30	< 0.10	0.007	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/7/2007	0.30	< 0.10	0.007	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
URZNF-3	9/10/2007	0.50	0.40	0.015	< 0.10	< 0.050	0.02	< 0.10	< 0.005	< 0.0010
W. of WW1	3/15/2007	0.10	< 0.10	0.005	< 0.10	< 0.050	0.03	< 0.10	< 0.005	< 0.0010
	6/6/2007	< 0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Unat (mg/l)	V (mg/l)	Zn (mg/l)
20-9	11/16/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0017	< 0.100	< 0.01
	5/18/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
CALVING #1	3/20/2007	< 0.1	< 0.050	0.007	< 0.001	0.0003	< 0.100	0.07
	8/22/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
DW-4L	11/2/1978	< 0.1	< 0.010	< 0.010	< 0.003	0.0006	< 0.100	< 0.01
	4/21/1979	---	---	0.080	0.001	< 0.0010	---	0.04
	10/28/1979	< 0.1	< 0.010	< 0.020	< 0.002	0.0010	< 0.100	0.02
	7/7/2006	< 0.1	< 0.050	< 0.050	< 0.001	< 0.0003	< 0.100	< 0.01
	9/7/2006	< 0.1	< 0.050	< 0.050	< 0.001	< 0.0003	< 0.100	< 0.01
	12/20/2006	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
	5/17/2007	< 0.1	< 0.050	< 0.050	< 0.001	< 0.0003	< 0.100	< 0.01
DW-4M	11/1/1978	< 0.1	< 0.010	< 0.010	< 0.003	0.0011	< 0.100	< 0.01
	4/20/1979	---	---	0.020	---	< 0.0010	---	0.07
	10/29/1979	< 0.1	< 0.010	< 0.030	< 0.002	< 0.0010	< 0.100	< 0.01
	12/20/2006	< 0.1	< 0.050	< 0.001	0.001	< 0.0003	< 0.100	< 0.01
	5/18/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
DW-4U	11/8/1978	< 0.1	< 0.010	0.020	0.004	0.0170	< 0.100	0.06
	4/21/1979	---	0.010	---	---	0.0650	---	---
	10/29/1979	< 0.1	< 0.010	< 0.030	< 0.002	0.0880	< 0.100	0.03
	12/21/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0906	< 0.100	< 0.01
	5/14/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0938	< 0.100	< 0.01
	5/17/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0963	< 0.100	< 0.01
GARDEN	3/20/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0113	< 0.100	< 0.01
	8/22/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0088	< 0.100	< 0.01
MN-1	11/18/1978	0.5	< 0.010	< 0.010	< 0.003	0.0270	< 0.100	< 0.01
	4/19/1979	< 0.1	< 0.010	< 0.010	< 0.003	0.0020	< 0.100	< 0.01
	12/14/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0120	< 0.100	< 0.01
	5/2/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0114	< 0.100	< 0.01
	7/13/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0113	< 0.100	< 0.01
MN-2	12/14/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0214	< 0.100	< 0.01
	4/18/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0169	< 0.100	< 0.01
	6/29/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0226	< 0.100	< 0.01
	9/10/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0222	< 0.100	0.01
	9/10/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0204	< 0.100	< 0.01
MN-3	12/14/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0028	< 0.100	< 0.01
	1/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0021	< 0.100	< 0.01
	4/18/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0023	< 0.100	< 0.01
	8/7/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0027	< 0.100	< 0.01

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Unat (mg/l)	V (mg/l)	Zn (mg/l)
MN-4	12/14/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0056	< 0.100	< 0.01
	1/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0051	< 0.100	< 0.01
	4/18/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0044	< 0.100	< 0.01
	7/10/2007	< 0.1	< 0.050	< 0.001	< 0.002	0.0051	< 0.100	< 0.01
MN-5	4/18/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0106	< 0.100	< 0.01
	5/30/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0122	< 0.100	< 0.01
	8/7/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0128	< 0.100	< 0.01
MN-6	3/23/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0094	< 0.100	< 0.01
N1, 11894	11/16/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0301	< 0.100	< 0.01
	5/18/2007	< 0.1	< 0.050	0.001	< 0.001	0.0279	< 0.100	< 0.01
URZN1-2	12/20/2006	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
	3/23/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
	6/4/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
	8/29/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
URZNB-1	12/22/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0252	< 0.100	< 0.01
	3/21/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0203	< 0.100	< 0.01
	5/30/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0194	< 0.100	< 0.01
	8/7/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0205	< 0.100	< 0.01
URZNF-3	9/10/2007	< 0.1	< 0.050	< 0.001	0.001	0.0589	< 0.100	0.08
W. of WW1	3/15/2007	< 0.1	< 0.050	0.001	0.001	0.0205	< 0.100	0.15
	6/6/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0219	< 0.100	< 0.01

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd)

Well Name	Date	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Alpha (pCi/l)	Beta (pCi/l)
20-9	11/16/2006	< 0.2	± 0.2	< 1.0	---	< 1.0	< 2.0
	5/18/2007	< 0.2	± 0.2	< 1.0	---	1.0	< 2.0
CALVING #1	3/20/2007	< 0.2	± 0.0	2.0	± 1.0	1.1	< 2.0
	8/22/2007	1.3	± 0.5	< 1.0	---	1.6	2.3
DW-4L	11/2/1978	< 0.2	± 0.4	---	---	---	---
	4/21/1979	< 0.2	± 0.6	---	---	---	---
	7/7/2006	4.3	± 0.6	---	---	---	---
	9/7/2006	< 0.2	± 0.2	< 1.0	---	< 1.0	2.6
	12/20/2006	1.3	± 0.5	< 1.0	---	3.0	2.8
	5/17/2007	< 0.2	± 0.2	< 1.0	---	< 1.0	< 2.0
DW-4M	11/1/1978	0.9	± 0.8	---	---	---	---
	4/20/1979	< 0.2	± 0.5	---	---	---	---
	12/20/2006	< 0.2	± 0.2	1.9	± 0.8	1.3	3.3
	5/18/2007	< 0.2	± 0.2	< 1.0	---	< 1.0	< 2.0
DW-4U	11/8/1978	3.7	± 1.5	---	---	---	---
	4/21/1979	2.7	± 1.1	---	---	---	---
	12/21/2006	< 0.2	± 0.2	< 1.0	---	76.9	25.5
	5/14/2007	0.6	± 0.3	< 1.0	---	66.3	27.7
	5/17/2007	< 0.2	± 0.2	< 1.0	---	61.3	20.4
GARDEN	3/20/2007	< 0.2	± 0.0	< 1.0	---	6.8	2.7
	8/22/2007	< 0.2	± 0.2	< 1.0	---	8.6	< 2.0
MN-1	11/18/1978	19.0	± 3.0	---	---	---	---
	4/19/1979	< 0.2	± 0.3	---	---	---	---
	12/14/2006	19.4	± 1.3	< 1.0	---	68.4	100.0
	5/2/2007	30.4	± 1.8	< 1.0	---	75.9	145.0
	7/13/2007	36.3	± 2.1	1.9	± 0.9	88.2	84.0
MN-2	12/14/2006	0.9	± 0.3	< 1.0	---	18.8	11.0
	4/18/2007	1.4	± 0.4	< 1.0	---	19.7	5.1
	6/29/2007	0.9	± 0.4	< 1.0	---	24.8	8.4
	9/10/2007	0.7	± 0.3	< 1.0	---	26.2	6.1
	9/10/2007	0.8	± 0.3	3.6	---	27.4	9.9
MN-3	12/14/2006	0.8	± 0.3	< 1.0	---	5.1	6.7
	1/25/2007	1.1	± 0.4	< 1.0	---	5.1	< 2.0
	4/18/2007	0.8	± 0.4	4.2	± 1.4	6.2	5.9
	8/7/2007	0.7	± 0.3	< 1.0	---	3.7	2.2
MN-4	12/14/2006	2.3	± 0.5	< 1.0	---	11.6	31.3
	1/25/2007	2.9	± 0.6	< 1.0	---	15.5	32.5
	4/18/2007	3.1	± 0.6	< 1.0	---	12.5	11.9

TABLE D6E-1. NICHOLS RANCH UNIT GROUND-WATER QUALITY DATA. (cont'd)

Well Name	Date	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Alpha (pCi/l)	Beta (pCi/l)
MN-4	7/10/2007	2.9	± 0.6	< 1.0	---	13.3	20.6
MN-5	4/18/2007	2.6	± 0.6	< 1.0	---	20.4	18.4
	5/30/2007	3.3	± 0.7	< 1.0	---	16.4	10.9
	8/7/2007	2.4	± 0.5	< 1.0	---	20.8	16.1
MN-6	3/23/2007	1.7	± 0.4	< 1.0	---	11.1	30.2
N1, 11894	11/16/2006	< 0.2	± 0.2	< 1.0	---	22.3	6.6
	5/18/2007	< 0.2	± 0.2	< 1.0	---	21.1	5.7
URZN1-2	12/20/2006	< 0.2	± 0.2	< 1.0	---	< 1.0	2.3
	3/23/2007	< 0.2	± 0.2	< 1.0	---	< 1.0	< 2.0
	6/4/2007	< 0.2	± 0.2	< 1.0	---	< 1.0	< 2.0
	8/29/2007	< 0.2	± 0.2	< 1.0	---	< 1.0	< 2.0
URZNB-1	12/22/2006	< 0.2	± 0.2	< 1.0	---	19.7	9.9
	3/21/2007	< 0.2	± 0.2	< 1.0	---	13.9	8.5
	5/30/2007	3.2	± 1.2	< 1.0	---	19.4	7.2
	8/7/2007	< 0.2	± 0.2	< 1.0	---	11.3	6.5
URZNF-3	9/10/2007	5.0	± 0.7	< 1.0	---	50.7	19.1
W. of WW1	3/15/2007	4.7	± 1.0	< 1.0	---	19.3	9.3
	6/6/2007	0.9	± 0.3	2.7	± 1.0	21.0	9.1

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA.

Well Name	Date	Ca (mg/l)	Cl (mg/l)	CO3 (mg/l)	HCO3 (mg/l)	K (mg/l)	Mg (mg/l)	Na (mg/l)	SO4 (mg/l)	Fe (mg/l)
BR-B	10/11/1979	135.0	8.0	< 1.0	244	9.0	38.0	180	600	0.02
	4/15/1980	19.0	16.0	< 1.0	151	3.0	4.0	136	220	0.24
	11/9/2006	108.0	2.0	< 1.0	271	7.4	33.5	160	528	0.35
	1/24/2007	102.0	4.0	< 1.0	273	6.8	32.0	149	553	0.05
	4/25/2007	116.0	4.0	< 1.0	278	8.0	35.0	157	539	< 0.03
BR-F	11/8/1979	78.0	20.0	24.0	99	13.0	< 1.0	93.0	84.0	0.08
	4/16/1980	10.0	6.0	48.0	83	9.0	3.0	85.0	92.0	0.60
	11/28/2006	8.0	3.0	10.0	63	3.0	2.0	80.0	126	< 0.03
	1/25/2007	8.0	3.0	38.0	13	5.0	< 1.0	74.0	129	< 0.03
	5/16/2007	14.0	3.0	< 1.0	151	6.0	2.0	83.0	99.0	0.43
BR-G	10/10/1979	220.0	16.0	< 1.0	122	11.0	51.0	310	1300	0.18
	4/16/1980	155.0	10.0	< 1.0	150	18.0	42.0	265	1090	0.57
	4/16/1980	190.0	12.0	< 1.0	151	10.0	53.0	290	1150	1.20
	7/30/1980	143.0	6.0	< 1.0	150	11.0	40.0	311	962	0.85
	10/28/1980	180.0	10.0	< 1.0	110	8.8	37.0	230	1100	0.51
	2/19/1981	201.0	7.0	< 1.0	136	7.9	42.0	255	1140	0.49
	6/29/1981	200.0	7.0	< 1.0	133	8.5	44.0	250	1120	0.42
	9/28/1981	204.0	11.0	< 1.0	124	8.4	46.0	260	1020	0.36
	4/20/1982	195.0	7.0	< 1.0	140	8.8	45.0	240	1160	1.60
	12/19/2006	204.0	8.0	< 1.0	117	10.0	51.0	284	1200	0.50
	2/27/2007	210.0	9.0	< 1.0	120	10.0	51.0	294	1260	0.57
	5/16/2007	211.0	8.0	< 1.0	117	10.0	52.0	289	1230	0.52
BR-H	10/12/1979	46.0	8.0	4.8	129	5.0	10.0	190	400	0.79
	4/15/1980	38.0	8.0	< 1.0	151	11.0	6.0	163	344	2.04
	11/21/2006	47.0	27.0	3.0	164	5.0	8.0	168	353	< 0.03
	1/24/2007	53.0	8.0	< 1.0	190	5.0	10.0	185	399	< 0.03
	4/25/2007	51.0	5.0	< 1.0	194	5.0	9.0	168	379	< 0.03
BR-I	11/30/1979	64.0	8.0	< 1.0	266	2.0	16.0	10.00	12.0	0.08
	4/16/1980	62.0	4.0	< 1.0	268	3.0	13.0	8.00	9.00	2.16
	7/30/1980	47.0	3.0	< 1.0	270	2.7	13.0	14.0	12.0	1.20
Brown #5	9/5/2007	80.0	5.0	< 1.0	109	6.0	13.0	164	495	< 0.03
Brown-WS	9/7/2006	49.2	5.0	< 1.0	95	5.1	14.4	183	522	---
	12/6/2006	45.0	5.0	< 1.0	94	5.0	13.0	176	447	0.14
	2/21/2007	48.0	7.0	< 1.0	95	5.1	13.6	186	488	0.16
	5/16/2007	50.0	5.0	< 1.0	96	6.0	14.0	192	488	0.16
BR-Q	1/9/1980	40.0	30.0	48.0	< 1	23.0	1.0	213	360	< 0.01
	4/16/1980	36.0	9.0	40.0	< 1	15.0	10.0	175	332	0.30
	4/16/1980	26.0	16.0	34.0	< 1	10.0	1.0	184	365	0.72

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Ca (mg/l)	Cl (mg/l)	CO3 (mg/l)	HCO3 (mg/l)	K (mg/l)	Mg (mg/l)	Na (mg/l)	SO4 (mg/l)	Fe (mg/l)
BR-Q	12/19/2006	74.0	5.0	< 1.0	101	6.0	14.0	215	558	0.08
	2/27/2007	78.0	3.0	< 1.0	100	7.0	13.0	223	620	0.09
	5/16/2007	78.0	4.0	< 1.0	104	6.0	13.0	224	610	0.08
	8/8/2007	68.0	3.0	< 1.0	107	6.0	12.0	204	611	0.09
	8/8/2007	69.0	5.0	< 1.0	109	6.0	12.0	208	612	0.11
BR-T	1/8/1980	67.0	7.0	< 1.0	181	18.0	22.0	85.0	360	0.03
	2/22/1980	---	---	---	---	---	---	---	604	---
	2/27/1980	85.0	8.0	< 1.0	142	7.0	19.0	---	568	0.84
	2/27/1980	60.0	6.0	< 1.0	207	5.0	13.0	---	312	---
	2/27/1980	---	---	---	---	---	---	---	603	---
	2/27/1980	---	---	---	---	---	---	---	573	---
	2/27/1980	---	---	---	---	---	---	---	420	---
	4/15/1980	84.0	10.0	< 1.0	129	7.0	16.0	---	560	0.48
	4/15/1980	60.0	4.0	< 1.0	120	13.0	14.0	---	527	0.32
	4/15/1980	79.0	7.0	< 1.0	89	6.8	16.0	---	---	0.01
	4/15/1980	79.0	8.0	6.0	104	12.0	9.0	---	540	0.27
	3/11/1981	73.0	5.0	< 1.0	168	6.9	14.0	---	509	< 0.05
	6/30/1981	69.0	4.0	< 1.0	110	5.7	15.0	---	526	0.20
	9/29/1981	85.0	5.0	< 1.0	84	5.7	16.0	---	546	0.18
	1/14/1982	75.0	4.0	< 1.0	108	6.3	14.0	---	506	1.00
	4/20/1982	66.0	4.0	< 1.0	130	5.6	13.0	---	294	0.17
	9/8/1988	80.2	5.7	0.0	109	6.6	16.1	187	580	0.08
	3/20/2007	62.0	4.0	< 1.0	145	5.0	13.0	158	439	< 0.03
	8/22/2007	80.0	3.0	< 1.0	109	6.0	17.0	178	609	< 0.03
BR-U	11/30/1979	224.0	14.0	< 1.0	278	7.0	53.0	106	700	0.07
	4/15/1980	216.0	24.0	< 1.0	273	7.0	72.0	97.0	766	6.24
	7/30/1980	154.0	4.0	< 1.0	280	7.2	50.0	89.0	589	0.35
C #1	11/17/1978	228.0	33.0	---	421	9.1	96.0	110	918	3.90
	4/29/1979	293.0	4.7	0.0	398	11.0	70.0	159	916	1.19
Dry Willow #1	11/8/1978	53.0	16.0	---	144	5.5	12.0	156	428	0.15
	5/1/1979	60.0	2.9	< 1.0	150	5.9	10.0	174	457	1.45
	3/22/2007	70.0	4.0	< 1.0	144	6.0	14.0	182	464	0.09
	5/2/2007	64.0	1.0	< 1.0	150	6.0	14.0	167	474	< 0.03
	5/24/2007	60.0	2.0	< 1.0	159	6.0	12.0	175	472	< 0.03
	9/5/2007	61.0	3.0	< 1.0	121	6.0	12.0	169	418	0.15
F. Brown #1	11/7/1978	48.0	26.0	---	242	6.6	9.1	130	292	< 0.01
	4/21/1979	56.0	80.0	0.0	230	4.9	7.9	180	273	0.04
Hank 1	11/17/1978	72.0	5.8	---	111	5.3	20.0	204	640	< 0.01
	5/1/1979	75.0	6.4	< 1.0	103	6.7	13.4	205	638	0.05

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Ca (mg/l)	Cl (mg/l)	CO3 (mg/l)	HCO3 (mg/l)	K (mg/l)	Mg (mg/l)	Na (mg/l)	SO4 (mg/l)	Fe (mg/l)
Hank 1	6/27/2006	77.0	5.0	< 1.0	110	7.1	15.4	190	573	1.46
	6/29/2006	77.4	5.0	< 1.0	107	5.2	16.9	200	565	0.76
	12/20/2006	77.0	9.0	< 1.0	109	6.0	16.0	200	477	1.15
	1/25/2007	77.0	6.0	< 1.0	112	6.0	16.0	186	590	< 0.03
	5/2/2007	74.0	4.0	< 1.0	110	6.0	17.0	192	585	< 0.03
Means #1	11/16/2006	142.0	3.0	< 1.0	121	8.0	28.0	181	671	0.13
	3/12/2007	145.0	3.0	< 1.0	120	8.0	28.0	189	793	< 0.03
	6/6/2007	138.0	6.0	< 1.0	124	8.0	25.0	188	790	< 0.03
	9/5/2007	125.0	5.0	< 1.0	125	8.0	24.0	177	660	2.14
NBHW-13	11/28/2006	44.0	7.0	< 1.0	105	5.0	11.0	210	473	< 0.03
	2/23/2007	47.0	5.0	< 1.0	105	5.0	12.0	226	537	< 0.03
	5/16/2007	48.0	4.0	< 1.0	107	5.0	12.0	222	539	< 0.03
	7/25/2007	44.0	4.0	< 1.0	103	5.0	11.0	231	541	< 0.03
Old Maid #1	3/12/2007	83.0	3.0	< 1.0	171	6.0	20.0	124	461	< 0.03
OW43756	6/21/2007	182.0	4.0	< 1.0	200	9.0	57.0	87.0	722	0.24
Paden #1	12/6/2006	234.0	8.0	< 1.0	156	10.0	64.0	182	1120	< 0.03
	2/27/2007	243.0	8.0	< 1.0	151	10.0	64.0	202	1180	< 0.03
	6/6/2007	233.0	8.0	< 1.0	151	9.0	60.0	189	1170	< 0.03
	9/5/2007	204.0	9.0	< 1.0	156	9.0	55.0	172	965	< 0.03
SS1-F	10/23/1980	88.0	3.0	0.0	220	8.0	22.0	206	554	0.07
	1/20/1981	102.0	4.0	0.0	195	8.0	2.0	217	540	0.11
	4/29/1981	94.0	8.0	0.0	219	9.0	22.0	205	556	0.10
	7/29/1981	92.0	4.0	0.0	215	9.0	21.0	194	532	0.02
	4/15/1988	98.4	4.8	0.0	212	6.8	26.2	226	669	0.02
	6/21/2007	89.0	5.0	< 1.0	233	7.0	24.0	194	544	< 0.03
SS1-L	10/12/1978	41.0	4.2	7.0	115	4.6	8.8	198	495	< 0.01
	2/14/1979	37.0	9.0	0.0	193	38.0	7.3	186	344	0.07
	4/17/1979	40.0	4.6	< 1.0	127	3.9	8.4	200	476	0.10
	8/6/1979	42.0	3.6	7.0	120	4.4	10.0	240	501	< 0.01
	10/26/1979	49.0	4.0	5.0	111	4.5	10.0	233	504	< 0.01
	10/23/1980	44.0	5.0	0.0	122	5.0	12.0	198	460	0.03
	1/14/1981	42.0	5.0	0.0	117	5.0	12.0	228	542	0.10
	4/29/1981	41.0	7.0	0.0	146	7.0	11.0	206	458	0.11
	7/29/1981	42.0	5.0	0.0	136	7.0	14.0	191	443	0.02
	4/15/1988	45.3	4.4	0.0	131	4.4	10.8	219	500	< 0.05
	4/27/2007	53.0	4.0	< 1.0	132	5.0	14.0	227	528	< 0.03
	6/5/2007	50.0	4.0	< 1.0	142	5.0	13.0	231	536	< 0.03
	7/25/2007	50.0	12.0	< 1.0	137	5.0	12.0	236	555	< 0.03

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Ca (mg/l)	Cl (mg/l)	CO3 (mg/l)	HCO3 (mg/l)	K (mg/l)	Mg (mg/l)	Na (mg/l)	SO4 (mg/l)	Fe (mg/l)
SS1-M	11/8/1978	38.0	9.0	---	120	41.0	12.0	182	511	0.23
	2/14/1979	37.0	5.8	0.0	104	8.8	10.0	232	512	0.33
	4/17/1979	41.0	4.5	0.0	111	5.7	8.9	208	522	0.08
	8/6/1979	47.0	3.5	7.0	115	4.9	11.0	250	532	0.01
	10/24/1979	56.0	4.2	4.0	119	5.1	14.0	233	528	< 0.01
	10/23/1980	47.0	5.0	0.0	112	5.0	10.0	197	465	0.02
	1/20/1981	52.0	4.0	0.0	120	5.0	10.0	234	563	0.03
	4/28/1981	47.0	11.0	0.0	171	7.0	14.0	205	480	0.08
	7/29/1981	51.0	5.0	0.0	127	8.0	10.0	191	453	0.01
	4/15/1988	43.8	4.4	0.0	112	4.3	9.6	221	530	< 0.05
SS1-U	10/13/1978	41.0	4.6	---	111	5.8	10.0	221	506	< 0.01
	2/14/1979	36.0	9.1	0.0	37	13.0	7.3	230	502	0.08
	4/17/1979	29.0	4.6	0.0	85	66.0	7.8	209	505	0.03
	8/6/1979	37.0	3.4	5.0	97	5.1	11.0	240	514	0.07
	10/26/1979	42.0	4.0	4.0	96	4.8	13.0	230	508	< 0.01
	10/23/1980	43.0	4.0	0.0	124	6.0	12.0	194	450	0.03
	1/20/1981	40.0	5.0	0.0	105	5.0	11.0	213	501	0.24
	4/29/1981	38.0	8.0	0.0	146	7.0	10.0	212	450	0.06
	7/29/1981	37.0	6.0	0.0	115	7.0	13.0	215	500	0.01
	4/15/1988	38.9	5.1	0.0	104	4.2	9.3	216	500	< 0.05
	6/20/2007	41.0	5.0	2.0	120	4.0	11.0	203	508	< 0.03
URZHB-6	8/28/2007	103.0	26.0	< 1.0	120	8.0	15.0	169	576	< 0.03
URZHC-2	8/7/2007	11.0	10.0	4.0	26	6.0	1.0	131	281	< 0.03
	9/7/2007	7.0	11.0	7.0	46	8.0	1.0	135	271	0.04
URZHF-1	7/27/2007	171.0	< 1.0	< 1.0	45	14.0	30.0	204	981	< 0.03
URZHF-5	8/2/2007	44.0	4.0	4.3	91	6.0	10.0	181	468	< 0.03
WC-MN1	11/14/1978	93.0	4.0	---	168	7.3	23.0	94.0	470	0.47
	4/18/1979	130.0	4.3	< 1.0	145	6.4	25.0	123	497	0.18
	10/29/1979	150.0	5.2	< 1.0	138	7.8	34.0	153	714	0.02

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Temp (deg. C)	TDS (mg/l)	Cond (µmhos)	Cond(f) (µmhos)	pH (units)	pH(f) (std.	Mn (mg/l)	NH3 (mg/l)	NO3+NO2 (mg/l)
BR-B	10/11/1979	11.1	1118	1590	1450	7.90	7.80	0.05	< 0.01	---
	4/15/1980	---	446	---	---	---	---	0.05	< 0.10	---
	5/7/1980	11.8	---	---	1060	---	---	---	---	---
	11/9/2006	10.8	1000	1430	1391	7.82	7.52	0.04	0.09	< 0.1
	1/24/2007	11.2	988	1400	1348	7.82	7.36	< 0.01	0.08	< 0.1
	4/25/2007	11.6	988	1430	1422	7.70	6.89	< 0.01	0.06	< 0.1
BR-F	10/5/1979	10.00	---	---	5150	---	---	---	---	---
	10/24/1979	14.5	---	---	2740	---	---	---	---	---
	11/8/1979	---	438	670	---	10.90	---	0.01	< 0.10	---
	1/11/1980	7.90	---	---	440	---	9.90	---	---	---
	4/16/1980	10.7	264	490	480	9.10	---	0.03	< 0.10	---
	11/28/2006	10.3	236	451	451	9.57	9.24	< 0.01	< 0.05	< 0.1
	1/25/2007	11.6	248	445	414	10.50	10.24	< 0.01	< 0.05	< 0.1
	5/16/2007	---	274	489	465	8.26	8.86	< 0.01	< 0.05	< 0.1
BR-G	10/10/1979	13.2	2004	2470	2380	7.80	7.59	0.29	< 0.10	---
	4/16/1980	---	1880	2260	---	7.80	---	0.20	< 0.05	---
	4/16/1980	---	1820	2280	---	7.10	---	0.21	< 0.10	---
	5/7/1980	12.1	---	---	2430	---	---	---	---	---
	7/30/1980	13.9	1730	---	2520	7.33	---	0.21	< 0.20	---
	10/28/1980	11.8	1800	---	2030	8.52	---	0.22	0.20	---
	2/19/1981	11.8	1870	---	2420	7.40	5.90	0.18	< 0.20	---
	6/29/1981	16.0	1850	---	1110	7.60	5.70	0.22	< 0.20	---
	9/28/1981	14.0	1790	---	2400	7.50	6.13	0.16	< 0.20	---
	4/20/1982	10.00	1800	---	1250	7.80	6.00	0.21	< 0.20	---
	12/19/2006	12.1	1860	2360	2400	7.81	7.37	0.20	0.10	< 0.1
	2/27/2007	13.0	1880	2360	2440	7.90	7.75	0.18	< 0.05	< 0.1
	5/16/2007	13.4	1880	2500	2390	7.80	7.60	0.20	< 0.05	< 0.1
BR-H	10/12/1979	13.4	680	1040	910	7.60	8.50	0.11	< 0.10	---
	4/15/1980	---	648	---	---	7.10	---	0.22	< 0.10	---
	5/7/1980	11.3	---	---	1060	---	---	---	---	---
	11/21/2006	12.6	686	1060	1098	8.47	7.98	0.05	0.10	< 0.1
	1/24/2007	14.8	688	1040	1006	8.21	7.94	0.08	0.16	< 0.1
	4/25/2007	12.5	696	1080	1886	8.09	7.06	0.02	0.10	< 0.1
BR-I	11/29/1979	9.10	---	---	380	---	7.50	---	---	---
	11/30/1979	---	248	439	---	7.60	---	0.03	0.66	---
	4/16/1980	---	225	400	---	7.10	---	0.17	< 0.10	---
	5/7/1980	11.6	---	---	430	---	---	---	---	---
	7/30/1980	12.8	231	---	420	7.36	---	0.02	< 0.20	---
Brown #5	9/5/2007	13.9	912	1420	1380	7.92	7.93	0.01	< 0.05	< 0.1

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Temp (deg. C)	TDS (mg/l)	Cond (µmhos)	Cond(f) (µmhos)	pH (units)	pH(f) (std.	Mn (mg/l)	NH3 (mg/l)	NO3+NO2 (mg/l)
Brown-WS	9/7/2006	13.8	736	1190	1023	7.99	7.77	< 0.01	0.07	< 0.1
	12/6/2006	11.7	764	1180	1160	8.10	7.80	< 0.01	< 0.05	< 0.1
	2/21/2007	11.6	750	1150	1119	6.34	8.46	< 0.01	< 0.05	< 0.1
	5/16/2007	12.6	750	1220	1174	8.23	8.37	0.01	< 0.05	< 0.1
BR-Q	12/16/1979	14.0	---	---	1240	---	---	---	---	---
	1/9/1980	11.1	824	---	1730	---	---	< 0.01	0.14	---
	1/11/1980	---	---	---	---	---	12.10	---	---	---
	4/16/1980	---	642	1380	---	11.30	---	0.10	0.06	---
	4/16/1980	---	472	1320	---	10.70	---	0.04	< 0.10	---
	12/19/2006	13.6	934	1390	1351	8.26	8.10	0.07	0.31	< 0.1
	2/27/2007	13.5	958	1400	1326	8.02	8.30	0.07	< 0.05	< 0.1
	5/16/2007	12.6	932	1450	1174	8.12	8.37	0.07	< 0.05	< 0.1
	8/8/2007	---	938	1380	---	7.86	---	0.06	< 0.05	< 0.1
	8/8/2007	17.7	950	1380	1171	7.83	7.14	0.06	0.06	< 0.1
BR-T	1/8/1980	10.00	796	1130	1110	7.70	8.00	0.05	0.11	---
	2/21/1980	13.5	---	---	800	---	---	---	---	---
	2/22/1980	13.5	944	---	1370	---	---	---	---	---
	2/27/1980	13.5	---	---	780	7.40	---	0.02	---	---
	2/27/1980	7.50	598	---	560	7.90	---	---	< 0.10	---
	2/27/1980	---	899	---	1570	---	---	---	---	---
	2/27/1980	---	924	---	1280	---	---	---	---	---
	2/27/1980	---	966	---	860	---	---	---	---	---
	4/15/1980	---	814	---	1370	8.10	---	0.04	< 0.10	---
	4/15/1980	8.20	907	1290	---	---	---	0.05	0.07	---
	4/15/1980	---	---	1382	---	8.30	---	0.05	< 0.10	---
	4/15/1980	---	948	1180	---	8.20	---	0.09	0.05	---
	3/11/1981	---	918	---	---	---	---	< 0.05	0.40	---
	6/30/1981	---	899	---	---	7.80	---	< 0.05	< 0.20	---
	9/29/1981	---	926	---	---	7.60	---	< 0.01	< 0.20	---
	1/14/1982	---	864	---	---	7.70	---	0.05	0.20	---
	4/20/1982	---	843	---	---	8.10	---	0.03	< 0.20	---
	9/8/1988	14.2	916	1311	1281	7.97	6.84	0.04	< 0.05	---
	3/20/2007	---	698	1120	---	7.16	---	0.04	< 0.05	< 0.1
	8/22/2007	15.8	916	1360	1351	8.00	7.89	0.04	< 0.05	< 0.1
BR-U	11/30/1979	---	1380	1760	---	7.00	---	1.43	0.16	---
	1/11/1980	6.50	---	---	1520	---	7.40	---	---	---
	4/15/1980	---	1330	1810	---	7.00	---	1.68	< 0.10	---
	5/7/1980	7.70	---	---	1810	---	---	---	---	---
	7/30/1980	14.4	1180	---	1760	---	7.16	0.98	0.70	---

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Temp (deg. C)	TDS (mg/l)	Cond (µmhos)	Cond(f) (µmhos)	pH (units)	pH(f) (std.	Mn (mg/l)	NH3 (mg/l)	NO3+NO2 (mg/l)
C #1	11/17/1978	9.00	1860	---	3370	---	7.60	0.26	0.13	---
	4/29/1979	11.0	1710	---	2280	---	6.70	0.23	0.06	---
Dry Willow #1	11/8/1978	14.0	820	---	1440	---	7.50	0.04	0.02	---
	5/1/1979	11.0	804	---	1440	---	7.80	0.01	0.10	---
	3/22/2007	11.3	718	1150	1162	8.12	7.15	0.03	< 0.05	< 0.1
	5/2/2007	---	798	1210	1067	8.10	7.17	0.03	< 0.05	< 0.1
	5/24/2007	13.2	804	994	1100	7.93	7.01	0.03	< 0.05	< 0.1
	9/5/2007	11.3	754	1200	1202	7.21	8.07	0.02	< 0.05	< 0.1
F. Brown #1	11/7/1978	14.0	638	---	1360	---	7.60	0.05	26.00	---
	4/21/1979	13.0	667	---	1390	---	7.90	0.03	7.50	---
Hank 1	11/17/1978	10.00	1110	---	2100	---	10.40	0.09	0.03	---
	5/1/1979	13.0	1020	---	1940	---	7.40	0.07	0.08	---
	6/27/2006	---	926	1340	---	7.36	---	0.07	0.08	< 0.1
	6/29/2006	---	924	1340	---	8.04	---	0.06	---	< 0.1
	12/20/2006	13.2	868	1340	1341	8.01	7.81	0.08	0.07	< 0.1
	1/25/2007	13.1	936	1350	1269	7.16	7.78	0.07	< 0.05	< 0.1
	5/2/2007	---	944	1400	1174	7.97	7.30	0.07	< 0.05	< 0.1
Means #1	11/16/2006	12.1	1200	1680	1661	8.03	7.31	0.03	< 0.05	< 0.1
	3/12/2007	13.5	1110	1630	1563	7.87	7.02	0.03	< 0.05	< 0.1
	6/6/2007	12.1	1190	1790	1631	7.80	7.73	0.07	< 0.05	< 0.1
	9/5/2007	12.4	1100	1670	1641	7.25	7.75	0.12	< 0.05	< 0.1
NBHW-13	11/28/2006	11.6	794	1260	1271	8.34	7.65	0.01	< 0.05	< 0.1
	2/23/2007	13.0	832	1240	1239	8.13	8.12	0.01	< 0.05	< 0.1
	5/16/2007	---	842	1350	1167	8.20	7.54	0.01	< 0.05	< 0.1
	7/25/2007	15.2	850	1290	1121	8.20	7.82	0.01	< 0.05	< 0.1
Old Maid #1	3/12/2007	13.0	722	1140	1113	8.03	6.97	0.04	0.06	< 0.1
OW43756	6/21/2007	15.0	1170	1570	1310	7.66	7.08	0.14	0.12	< 0.1
Paden #1	12/6/2006	12.3	1840	2250	2270	7.62	7.18	< 0.01	0.05	0.1
	2/27/2007	11.8	1740	2130	2260	7.82	7.50	< 0.01	< 0.05	< 0.1
	6/6/2007	12.8	1780	2370	2230	7.63	7.36	< 0.01	< 0.05	1.1
	9/5/2007	13.0	1710	2270	219	7.67	7.38	< 0.01	< 0.05	< 0.1
SS1-F	10/23/1980	10.00	1054	1386	1524	7.70	7.60	0.06	< 0.05	---
	1/20/1981	11.5	1088	1541	1494	7.36	7.55	0.07	0.12	---
	4/29/1981	11.0	1028	---	1526	7.75	7.60	0.08	< 0.05	---
	7/29/1981	11.2	958	1490	1779	7.79	7.60	0.03	< 0.05	---
	4/15/1988	11.8	1214	1634	1527	7.77	7.83	0.07	0.05	---
	6/21/2007	12.2	964	1410	1220	7.75	7.36	0.06	< 0.05	< 0.1
SS1-L	10/12/1978	11.0	912	---	1680	---	9.30	< 0.01	0.09	---

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Temp (deg. C)	TDS (mg/l)	Cond (µmhos)	Cond(f) (µmhos)	pH (units)	pH(f) (std.	Mn (mg/l)	NH3 (mg/l)	NO3+NO2 (mg/l)
SS1-L	2/14/1979	3.00	688	---	1740	---	7.50	0.05	0.04	---
	4/17/1979	12.0	828	---	1440	---	7.80	0.01	< 0.10	---
	8/6/1979	16.0	847	---	1450	---	7.90	< 0.01	0.11	---
	10/26/1979	14.0	852	---	1610	---	9.20	< 0.01	0.03	---
	10/23/1980	10.8	856	1195	1272	7.66	7.60	< 0.01	< 0.05	---
	1/14/1981	11.0	901	1314	1348	7.51	7.94	< 0.01	0.14	---
	4/29/1981	11.4	806	---	1280	6.79	7.50	0.02	< 0.05	---
	7/29/1981	11.3	779	1240	1501	7.71	7.70	0.01	< 0.05	---
	4/15/1988	11.6	870	1358	1222	7.98	8.08	0.01	0.05	---
	4/27/2007	12.1	882	1360	1331	8.15	7.31	0.01	0.09	< 0.1
	6/5/2007	14.0	856	1470	1178	8.16	7.66	0.01	< 0.05	< 0.1
	7/25/2007	14.2	884	1350	1199	8.14	7.74	0.01	0.05	< 0.1
SS1-M	11/8/1978	18.0	902	---	1500	---	8.00	< 0.01	0.02	---
	2/14/1979	3.00	866	---	2100	---	7.80	0.03	0.03	---
	4/17/1979	14.0	862	---	1380	---	8.10	0.01	0.10	---
	8/6/1979	16.0	891	---	1490	---	8.30	< 0.01	0.12	---
	10/24/1979	18.0	897	---	1500	---	7.20	< 0.01	0.03	---
	10/23/1980	9.00	794	1217	1303	7.73	7.40	< 0.01	< 0.05	---
	1/20/1981	12.5	937	1310	1325	7.58	7.96	< 0.01	< 0.05	---
	4/28/1981	12.5	838	---	1431	7.95	8.10	0.03	< 0.05	---
	7/29/1981	12.0	808	1260	1475	7.63	7.70	0.01	< 0.05	---
	4/15/1988	11.6	908	1332	1230	7.98	8.07	< 0.01	0.05	---
SS1-U	10/13/1978	13.0	920	---	1635	---	9.10	< 0.01	0.19	---
	2/14/1979	3.00	797	---	2010	---	8.40	< 0.01	0.07	---
	4/17/1979	14.0	820	---	1415	---	7.20	0.01	< 0.10	---
	8/6/1979	17.0	833	---	1380	---	8.10	< 0.01	0.13	---
	10/26/1979	16.0	848	---	1560	---	7.30	< 0.01	0.05	---
	10/23/1980	11.0	814	1161	1292	7.78	7.60	< 0.01	< 0.05	---
	1/20/1981	13.0	847	1258	1309	7.65	8.20	0.01	< 0.05	---
	4/29/1981	11.5	826	---	1331	8.07	8.00	0.02	< 0.05	---
	7/29/1981	11.8	855	1140	1483	7.84	7.90	0.01	< 0.05	---
	4/15/1988	13.0	864	1282	1206	7.99	8.19	< 0.01	0.05	---
	6/20/2007	14.9	832	1280	1159	8.53	7.81	< 0.01	< 0.05	< 0.1
URZHB-6	8/28/2007	14.7	904	1340	1361	7.76	7.97	0.04	< 0.05	< 0.1
URZHC-2	8/7/2007	16.3	410	699	670	9.53	9.67	< 0.01	< 0.05	< 0.1
	9/7/2007	16.8	440	724	751	9.45	10.07	< 0.01	< 0.05	< 0.1
URZHF-1	7/27/2007	17.1	1440	1880	1393	8.50	9.21	0.01	< 0.05	< 0.1
URZHF-5	8/2/2007	15.5	710	1140	995	7.49	8.76	< 0.01	< 0.05	< 0.1

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Temp (deg. C)	TDS (mg/l)	Cond (µmhos)	Cond(f) (µmhos)	pH (units)	pH(f) (std.	Mn (mg/l)	NH3 (mg/l)	NO3+NO2 (mg/l)
WC-MN1	11/14/1978	10.00	880	---	1670	---	8.00	0.08	0.03	---
	4/18/1979	13.0	894	---	1390	---	7.10	0.05	< 0.10	---
	10/29/1979	12.0	988	---	1770	---	9.20	0.07	0.05	---

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	F (mg/l)	Al (mg/l)	As (mg/l)	Ba (mg/l)	Cr (mg/l)	Cu (mg/l)	B (mg/l)	Cd (mg/l)	Hg (mg/l)
BR-B	10/11/1979	0.12	0.05	< 0.010	< 0.05	< 0.010	< 0.01	< 1.00	< 0.002	< 0.0010
	4/15/1980	0.41	< 0.10	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	11/9/2006	< 0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	1/24/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.010	< 0.0010
	4/25/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
BR-F	11/8/1979	0.20	0.10	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	4/16/1980	0.19	0.20	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	11/28/2006	0.30	< 0.10	0.007	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	1/25/2007	0.30	0.50	0.003	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/16/2007	0.20	0.60	0.003	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
BR-G	10/10/1979	< 1.00	< 0.05	< 0.010	< 0.05	< 0.010	< 0.01	---	< 0.002	< 0.0010
	4/16/1980	0.10	< 0.20	0.006	< 0.10	---	0.02	---	---	< 0.0010
	4/16/1980	0.10	0.20	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	7/30/1980	0.17	0.70	< 0.003	< 0.20	< 0.010	0.02	< 0.10	< 0.010	0.0002
	10/28/1980	0.20	< 0.50	< 0.002	< 0.10	< 0.010	0.01	0.20	< 0.010	0.0002
	2/19/1981	0.10	< 0.50	0.006	< 0.20	< 0.020	< 0.02	< 0.10	0.010	< 0.0001
	6/29/1981	0.10	< 0.50	< 0.005	< 0.20	< 0.020	0.02	0.10	0.010	0.0010
	9/28/1981	---	< 0.50	< 0.005	< 0.20	0.010	0.01	< 0.10	0.012	0.0001
	4/20/1982	---	< 0.50	< 0.005	< 0.20	< 0.005	< 0.01	0.10	0.012	< 0.0001
	12/19/2006	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	2/27/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/16/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
BR-H	10/12/1979	0.37	0.70	< 0.010	< 0.05	< 0.010	0.01	< 1.00	< 0.002	< 0.0010
	4/15/1980	0.20	0.80	< 0.010	< 0.05	< 0.050	< 0.02	1.00	< 0.010	< 0.0010
	11/21/2006	0.40	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	1/24/2007	0.30	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	4/25/2007	0.40	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
BR-I	11/30/1979	0.15	< 0.10	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	4/16/1980	0.10	1.60	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	7/30/1980	0.16	1.30	< 0.002	< 0.50	< 0.010	< 0.02	< 0.10	< 0.010	0.0001
Brown #5	9/5/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
Brown-WS	9/7/2006	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	---	< 0.005	< 0.0010
	12/6/2006	0.20	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	2/21/2007	0.30	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/16/2007	0.30	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
BR-Q	1/9/1980	0.30	< 0.10	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	4/16/1980	0.60	0.40	0.006	< 0.10	< 0.020	< 0.02	---	0.010	< 0.0010
	4/16/1980	0.39	0.40	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	F (mg/l)	Al (mg/l)	As (mg/l)	Ba (mg/l)	Cr (mg/l)	Cu (mg/l)	B (mg/l)	Cd (mg/l)	Hg (mg/l)
BR-Q	12/19/2006	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	2/27/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/16/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/8/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/8/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
BR-T	1/8/1980	0.11	< 0.10	< 0.010	< 0.05	---	< 0.02	< 1.00	< 0.010	< 0.0010
	2/27/1980	---	---	---	---	---	< 0.02	---	---	< 0.0010
	2/27/1980	0.15	< 0.10	< 0.010	< 0.05	< 0.050	---	< 1.00	< 0.010	---
	4/15/1980	0.07	< 0.10	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	4/15/1980	< 0.10	< 0.20	0.006	< 0.10	< 0.020	< 0.02	---	0.010	< 0.0010
	4/15/1980	0.01	0.20	< 0.010	< 0.10	0.004	0.07	0.20	< 0.001	< 0.0040
	4/15/1980	< 0.10	0.10	< 0.002	< 0.03	< 0.020	< 0.02	< 0.01	< 0.010	---
	1/8/1981	---	---	---	---	< 0.050	---	---	---	---
	3/11/1981	0.10	< 0.50	< 0.005	< 0.20	< 0.050	< 0.05	< 0.10	0.010	< 0.0004
	4/15/1981	---	< 0.10	---	---	---	---	---	---	---
	6/30/1981	0.20	< 0.50	< 0.005	< 0.20	< 0.020	< 0.02	0.20	0.020	< 0.0001
	9/29/1981	---	< 0.50	< 0.005	< 0.20	< 0.007	0.01	< 0.10	< 0.005	0.0001
	1/14/1982	---	< 0.50	< 0.005	< 0.20	< 0.010	0.03	0.10	< 0.005	0.0001
	4/20/1982	---	< 0.50	< 0.005	< 0.20	< 0.005	< 0.01	< 0.10	0.010	0.0001
	9/8/1988	< 0.10	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.010	< 0.0010
	3/20/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	8/22/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
BR-U	11/30/1979	0.31	0.10	< 0.001	< 0.05	< 0.050	0.03	< 1.00	< 0.010	< 0.0010
	4/15/1980	0.24	2.70	< 0.010	< 0.05	< 0.050	< 0.02	< 1.00	< 0.010	< 0.0010
	7/30/1980	0.69	< 0.20	0.008	0.20	< 0.010	0.02	< 0.10	< 0.010	0.0002
C #1	11/17/1978	0.03	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	< 0.10	< 0.010	< 0.0005
	4/29/1979	0.10	< 0.10	< 0.003	---	---	---	< 0.10	< 0.010	< 0.0005
Dry Willow #1	11/8/1978	0.15	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	0.20	< 0.010	< 0.0005
	5/1/1979	0.16	---	---	---	0.030	0.07	0.10	---	---
	3/22/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/2/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/24/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	9/5/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
F. Brown #1	11/7/1978	0.88	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	0.30	< 0.010	< 0.0095
	4/21/1979	0.70	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	< 0.10	< 0.010	< 0.0095
Hank 1	11/17/1978	0.04	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	< 0.10	< 0.010	< 0.0005
	5/1/1979	0.21	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	< 0.10	< 0.010	0.0013
	6/27/2006	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	6/29/2006	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	F (mg/l)	Al (mg/l)	As (mg/l)	Ba (mg/l)	Cr (mg/l)	Cu (mg/l)	B (mg/l)	Cd (mg/l)	Hg (mg/l)
Hank 1	12/20/2006	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	1/25/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/2/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
Means #1	11/16/2006	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	3/12/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	6/6/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	9/5/2007	0.10	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
NBHW-13	11/28/2006	< 0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	2/23/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	5/16/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	7/25/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
Old Maid #1	3/12/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
OW43756	6/21/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
Paden #1	12/6/2006	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	2/27/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	0.20	< 0.005	< 0.0010
	6/6/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	9/5/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
SS1-F	10/23/1980	< 0.10	0.09	< 0.005	---	< 0.010	< 0.01	< 0.01	0.014	< 0.0005
	1/20/1981	< 0.10	< 0.05	< 0.005	< 0.03	< 0.010	0.01	< 0.01	0.002	< 0.0005
	4/29/1981	0.17	< 0.05	< 0.005	< 0.03	< 0.010	0.01	< 0.01	< 0.002	< 0.0005
	7/29/1981	0.14	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	< 0.002	< 0.0005
	4/15/1988	0.11	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.010	< 0.0010
	6/21/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
SS1-L	10/12/1978	0.10	< 0.10	< 0.003	< 0.10	< 0.010	0.02	0.30	< 0.010	< 0.0005
	2/14/1979	0.39	0.20	< 0.003	< 0.10	< 0.020	< 0.01	0.60	< 0.010	< 0.0005
	4/17/1979	0.10	< 0.10	< 0.003	< 0.10	< 0.020	< 0.01	< 0.10	< 0.010	< 0.0005
	8/6/1979	0.12	< 0.30	< 0.002	< 0.30	< 0.020	< 0.01	0.10	< 0.010	< 0.0010
	10/26/1979	0.08	< 0.10	< 0.002	< 0.10	< 0.020	0.03	0.20	< 0.010	0.0004
	10/23/1980	< 0.10	0.15	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	0.004	< 0.0005
	1/14/1981	0.27	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	0.005	< 0.0005
	4/29/1981	0.14	< 0.05	< 0.005	< 0.03	< 0.010	0.01	< 0.01	< 0.002	< 0.0005
	7/29/1981	0.14	< 0.05	< 0.005	< 0.03	< 0.010	0.02	< 0.01	< 0.002	< 0.0005
	4/15/1988	0.10	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.010	< 0.0010
	4/27/2007	0.20	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	6/5/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	7/25/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
SS1-M	11/8/1978	0.11	< 0.10	< 0.003	< 0.10	< 0.010	0.04	< 0.10	< 0.010	< 0.0005
	2/14/1979	0.17	0.70	< 0.002	< 0.03	< 0.010	0.20	< 0.10	< 0.010	< 0.0003

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	F (mg/l)	Al (mg/l)	As (mg/l)	Ba (mg/l)	Cr (mg/l)	Cu (mg/l)	B (mg/l)	Cd (mg/l)	Hg (mg/l)
SS1-M	4/17/1979	0.20	< 0.10	< 0.002	< 0.03	< 0.020	< 0.01	< 0.10	< 0.010	< 0.0010
	8/6/1979	0.08	< 0.30	< 0.002	< 0.30	< 0.020	< 0.01	0.10	< 0.010	< 0.0010
	10/24/1979	0.06	< 0.10	< 0.002	< 0.10	< 0.020	< 0.01	< 0.10	< 0.010	< 0.0003
	10/23/1980	< 0.10	0.13	< 0.005	< 0.03	< 0.010	0.02	< 0.01	0.010	< 0.0005
	1/20/1981	0.26	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	0.004	< 0.0005
	4/28/1981	0.12	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	< 0.002	< 0.0005
	7/29/1981	0.15	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	< 0.002	< 0.0005
	4/15/1988	0.10	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.010	< 0.0010
SS1-U	10/13/1978	0.09	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	0.60	< 0.010	< 0.0005
	2/14/1979	0.12	0.20	< 0.003	< 0.10	< 0.010	0.03	0.40	< 0.010	< 0.0005
	4/17/1979	0.07	< 0.10	< 0.002	< 0.30	< 0.020	< 0.01	< 0.10	< 0.010	< 0.0010
	8/6/1979	0.08	< 0.30	< 0.002	< 0.30	< 0.020	< 0.01	0.70	< 0.010	< 0.0010
	10/26/1979	0.07	< 0.10	< 0.002	< 0.10	0.020	< 0.01	0.30	< 0.010	< 0.0003
	10/23/1980	< 0.10	0.15	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	0.006	< 0.0005
	1/20/1981	0.18	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	0.003	< 0.0005
	4/29/1981	0.17	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	< 0.002	< 0.0005
	7/29/1981	0.17	< 0.05	< 0.005	< 0.03	< 0.010	< 0.01	< 0.01	< 0.002	< 0.0005
	4/15/1988	0.10	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.010	< 0.0010
	6/20/2007	0.10	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
URZHB-6	8/28/2007	0.20	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
URZHC-2	8/7/2007	0.40	< 0.10	< 0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
	9/7/2007	0.40	< 0.10	0.002	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
URZHF-1	7/27/2007	0.20	< 0.10	0.005	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
URZHF-5	8/2/2007	0.30	< 0.10	0.001	< 0.10	< 0.050	< 0.01	< 0.10	< 0.005	< 0.0010
WC-MN1	11/14/1978	0.05	< 0.10	< 0.003	< 0.10	< 0.010	< 0.01	< 0.10	< 0.010	< 0.0005
	4/18/1979	< 0.02	---	---	---	---	---	0.20	---	---
	10/29/1979	0.06	< 0.10	< 0.002	< 0.10	< 0.020	0.08	< 0.30	< 0.010	< 0.0003

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Unat (mg/l)	V (mg/l)	Zn (mg/l)
BR-B	10/11/1979	---	< 0.040	< 0.050	< 0.010	0.0060	< 0.050	< 0.01
	4/15/1980	---	< 0.040	< 0.100	< 0.010	< 0.0010	< 0.050	0.07
	11/9/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0073	< 0.100	< 0.01
	1/24/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0073	< 0.100	< 0.01
	4/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0074	< 0.100	< 0.01
BR-F	11/8/1979	---	< 0.040	< 0.050	< 0.010	< 0.0010	< 0.050	0.01
	4/16/1980	---	< 0.004	< 0.050	< 0.010	< 0.0010	< 0.050	0.01
	11/28/2006	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
	1/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
	5/16/2007	< 0.1	< 0.050	0.003	< 0.001	< 0.0003	< 0.100	0.01
BR-G	10/10/1979	---	< 0.040	< 0.050	< 0.010	0.0050	< 0.050	0.01
	4/16/1980	---	< 0.050	0.008	< 0.005	0.0120	0.017	0.01
	4/16/1980	---	< 0.040	0.100	< 0.010	< 0.0010	< 0.050	0.04
	7/30/1980	---	< 0.050	0.067	< 0.050	0.0100	< 0.005	0.01
	10/28/1980	---	< 0.020	0.011	< 0.005	0.0060	0.006	1.30
	2/19/1981	---	< 0.050	0.005	0.030	0.0110	< 0.005	1.20
	6/29/1981	---	0.050	0.009	0.005	0.0060	0.005	1.05
	9/28/1981	---	< 0.020	< 0.005	< 0.005	0.0160	< 0.005	1.03
	4/20/1982	---	0.020	< 0.016	< 0.005	0.0210	< 0.005	3.60
	12/19/2006	< 0.1	< 0.050	< 0.001	0.001	0.0005	< 0.100	< 0.01
	2/27/2007	< 0.1	< 0.050	< 0.001	< 0.002	0.0005	< 0.100	< 0.01
	5/16/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0005	< 0.100	< 0.01
BR-H	10/12/1979	---	< 0.040	< 0.050	< 0.010	0.0090	< 0.050	0.02
	4/15/1980	---	< 0.040	0.100	< 0.010	< 0.0010	< 0.050	0.12
	11/21/2006	< 0.1	< 0.050	< 0.001	0.001	0.0006	< 0.100	< 0.01
	1/24/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
	4/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	< 0.0003	< 0.100	< 0.01
BR-I	11/30/1979	---	< 0.040	< 0.050	< 0.010	0.0180	< 0.010	0.06
	4/16/1980	---	< 0.040	< 0.050	< 0.010	0.0080	< 0.050	0.10
	7/30/1980	---	< 0.050	0.117	< 0.005	0.0070	< 0.005	< 0.01
Brown #5	9/5/2007	< 0.1	< 0.050	0.001	< 0.001	0.0129	< 0.100	0.02
Brown-WS	9/7/2006	< 0.1	< 0.050	< 0.050	< 0.001	0.0103	< 0.100	0.02
	12/6/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0090	< 0.100	0.07
	2/21/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0096	< 0.100	0.12
	5/16/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0092	< 0.100	0.06
BR-Q	1/9/1980	---	< 0.040	1.860	< 0.010	< 0.0010	< 0.010	< 0.01
	4/16/1980	---	< 0.050	0.650	< 0.005	< 0.0010	0.017	0.15
	4/16/1980	---	< 0.040	0.800	< 0.010	< 0.0010	< 0.050	0.19

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Unat (mg/l)	V (mg/l)	Zn (mg/l)
BR-Q	12/19/2006	< 0.1	< 0.050	0.001	0.002	0.0089	< 0.100	< 0.01
	2/27/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0107	< 0.100	< 0.01
	5/16/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0109	< 0.100	< 0.01
	8/8/2007	< 0.1	< 0.050	< 0.001	< 0.002	0.0104	< 0.100	< 0.01
	8/8/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0111	< 0.100	< 0.01
BR-T	1/8/1980	---	< 0.040	< 0.050	< 0.010	0.0060	< 0.050	< 0.01
	2/27/1980	---	< 0.040	< 0.050	< 0.010	0.0100	< 0.050	1.23
	4/15/1980	---	< 0.040	< 0.050	< 0.010	0.0110	< 0.050	1.28
	4/15/1980	---	< 0.050	0.002	< 0.005	0.0120	< 0.005	1.90
	4/15/1980	---	0.020	0.009	< 0.010	---	< 0.020	1.94
	4/15/1980	---	< 0.050	< 0.050	0.003	0.0150	< 0.100	1.21
	3/11/1981	---	< 0.050	< 0.005	< 0.005	0.0200	< 0.005	0.17
	6/30/1981	---	< 0.050	< 0.010	< 0.005	< 0.0010	< 0.005	0.21
	9/29/1981	---	< 0.020	< 0.005	< 0.005	0.0200	< 0.005	---
	1/14/1982	---	< 0.020	< 0.005	< 0.005	0.0220	< 0.005	0.52
	4/20/1982	---	< 0.020	< 0.005	< 0.005	0.2000	< 0.005	0.24
	9/8/1988	< 0.1	< 0.050	< 0.050	0.007	0.0104	< 0.100	0.08
	3/20/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0163	< 0.100	3.19
	8/22/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0139	< 0.100	0.04
BR-U	11/30/1979	---	0.040	< 0.050	< 0.010	0.0720	< 0.050	0.04
	4/15/1980	---	< 0.040	< 0.050	< 0.010	0.0690	< 0.050	0.06
	7/30/1980	---	< 0.050	0.040	0.014	0.0520	< 0.005	< 0.01
C #1	11/17/1978	< 0.1	< 0.010	< 0.010	< 0.003	0.0160	< 0.100	0.03
	4/29/1979	< 0.1	---	---	< 0.003	0.0260	< 0.100	0.05
Dry Willow #1	11/8/1978	< 0.1	< 0.010	0.050	0.004	0.0081	< 0.100	< 0.01
	5/1/1979	---	---	0.020	---	< 0.0010	---	0.07
	3/22/2007	< 0.1	< 0.050	< 0.001	< 0.010	0.0040	< 0.100	< 0.01
	5/2/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0035	< 0.100	< 0.01
	5/24/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0053	< 0.100	< 0.01
	9/5/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0033	< 0.100	< 0.01
F. Brown #1	11/7/1978	0.5	< 0.010	< 0.010	< 0.003	2.1600	< 0.100	< 0.01
	4/21/1979	< 0.1	< 0.010	< 0.010	< 0.003	0.2350	< 0.100	< 0.01
Hank 1	11/17/1978	< 0.1	< 0.010	0.010	< 0.003	< 0.0010	< 0.100	< 0.01
	5/1/1979	< 0.1	< 0.010	< 0.010	< 0.003	< 0.0010	< 0.100	0.01
	6/27/2006	< 0.1	< 0.050	< 0.050	< 0.001	0.0043	< 0.100	< 0.01
	6/29/2006	< 0.1	< 0.050	< 0.050	< 0.001	0.0043	< 0.100	< 0.01
	12/20/2006	< 0.1	< 0.050	< 0.001	0.002	0.0034	< 0.100	< 0.01
	1/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0028	< 0.100	< 0.01
	5/2/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0031	< 0.100	< 0.01

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Unat (mg/l)	V (mg/l)	Zn (mg/l)
Means #1	11/16/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0272	< 0.100	0.07
	3/12/2007	< 0.1	< 0.050	< 0.001	0.003	0.0214	< 0.100	0.06
	6/6/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0253	< 0.100	0.09
	9/5/2007	< 0.1	< 0.050	0.007	0.001	0.0283	< 0.100	0.18
NBHW-13	11/28/2006	< 0.1	< 0.050	< 0.001	< 0.001	0.0167	< 0.100	< 0.01
	2/23/2007	< 0.1	< 0.050	< 0.001	0.001	0.0146	< 0.100	0.01
	5/16/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0147	< 0.100	0.05
	7/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0148	< 0.100	< 0.01
Old Maid #1	3/12/2007	< 0.1	< 0.050	< 0.001	< 0.002	< 0.0003	< 0.100	0.22
OW43756	6/21/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0058	< 0.100	< 0.01
Paden #1	12/6/2006	< 0.1	< 0.050	< 0.001	0.032	0.2170	< 0.100	< 0.01
	2/27/2007	< 0.1	< 0.050	< 0.001	0.029	0.2680	< 0.100	< 0.01
	6/6/2007	< 0.1	< 0.050	< 0.001	0.024	0.2850	< 0.100	< 0.01
	9/5/2007	< 0.1	< 0.050	0.005	0.017	0.2940	< 0.100	0.16
SS1-F	10/23/1980	< 0.1	< 0.020	< 0.010	< 0.005	0.0160	< 0.050	0.04
	1/20/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0020	< 0.050	0.01
	4/29/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0010	< 0.050	0.02
	7/29/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0020	< 0.050	0.01
	4/15/1988	< 0.1	< 0.050	< 0.050	0.010	0.0028	< 0.100	< 0.01
	6/21/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0018	< 0.100	< 0.01
SS1-L	10/12/1978	< 0.1	0.020	< 0.010	< 0.003	0.0140	< 0.100	< 0.01
	2/14/1979	< 0.1	0.030	0.030	< 0.003	0.0010	< 0.100	0.09
	4/17/1979	< 0.1	< 0.010	0.020	< 0.003	0.0020	< 0.100	< 0.01
	8/6/1979	< 0.2	0.020	0.040	< 0.001	0.0060	< 0.700	0.02
	10/26/1979	< 0.1	< 0.010	< 0.020	< 0.002	0.0060	< 0.100	0.17
	10/23/1980	< 0.1	< 0.020	< 0.010	< 0.005	0.0080	< 0.050	0.01
	1/14/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0030	< 0.050	0.01
	4/29/1981	< 0.1	< 0.020	< 0.010	< 0.001	0.0050	< 0.050	0.03
	7/29/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0060	< 0.050	0.06
	4/15/1988	< 0.1	< 0.050	< 0.050	0.011	0.0101	< 0.100	< 0.01
	4/27/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0146	< 0.100	< 0.01
	6/5/2007	< 0.1	< 0.050	< 0.001	---	---	< 0.100	< 0.01
	7/25/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0147	< 0.100	< 0.01
SS1-M	11/8/1978	0.4	< 0.010	< 0.010	< 0.003	0.0230	< 0.100	0.03
	2/14/1979	< 0.1	0.070	0.130	< 0.002	0.0120	< 0.400	0.19
	4/17/1979	< 0.1	< 0.010	0.040	< 0.001	0.0140	< 0.100	< 0.01
	8/6/1979	< 0.2	0.020	0.020	< 0.001	0.0140	< 0.400	0.04
	10/24/1979	< 0.1	< 0.010	< 0.020	< 0.002	0.0150	< 0.100	0.17

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd.)

Well Name	Date	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Unat (mg/l)	V (mg/l)	Zn (mg/l)
SS1-M	10/23/1980	< 0.1	< 0.020	< 0.010	< 0.005	0.0230	< 0.050	0.01
	1/20/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0070	< 0.050	0.01
	4/28/1981	< 0.1	< 0.020	< 0.010	< 0.050	0.0160	< 0.050	0.01
	7/29/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0050	< 0.050	0.10
	4/15/1988	< 0.1	< 0.050	< 0.050	< 0.001	0.0183	< 0.100	< 0.01
SS1-U	10/13/1978	< 0.1	0.020	< 0.010	0.008	---	< 0.100	< 0.01
	2/14/1979	< 0.1	0.030	0.030	< 0.002	0.0110	< 0.100	0.04
	4/17/1979	< 0.1	< 0.020	< 0.020	< 0.001	0.0100	< 0.100	< 0.01
	8/6/1979	< 0.2	< 0.020	0.040	< 0.001	0.0120	< 0.400	0.06
	10/26/1979	< 0.1	< 0.010	< 0.020	< 0.002	0.0090	< 0.100	0.10
	10/23/1980	< 0.1	< 0.020	< 0.010	< 0.005	0.0180	< 0.050	0.18
	1/20/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0240	< 0.050	0.01
	4/29/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0130	< 0.050	< 0.01
	7/29/1981	< 0.1	< 0.020	< 0.010	< 0.005	0.0060	< 0.050	0.08
	4/15/1988	< 0.1	< 0.050	< 0.050	< 0.001	0.0079	< 0.100	< 0.01
	6/20/2007	< 0.1	< 0.050	0.001	< 0.001	0.0130	< 0.100	< 0.01
URZHB-6	8/28/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0196	< 0.100	< 0.01
URZHC-2	8/7/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0030	< 0.100	< 0.01
	9/7/2007	< 0.1	< 0.050	< 0.001	0.003	0.0008	< 0.100	< 0.01
URZHF-1	7/27/2007	< 0.1	< 0.050	< 0.001	0.574	5.2500	< 0.100	< 0.01
URZHF-5	8/2/2007	< 0.1	< 0.050	< 0.001	< 0.001	0.0051	< 0.100	< 0.01
WC-MN1	11/14/1978	< 0.1	< 0.010	< 0.010	< 0.003	0.0054	< 0.100	< 0.01
	4/18/1979	---	---	---	---	< 0.0010	---	0.02
	10/29/1979	< 0.1	< 0.010	< 0.020	< 0.002	0.0020	< 0.100	0.32

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd)

Well Name	Date	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Alpha (pCi/l)	Beta (pCi/l)
BR-B	10/11/1979	2.3	± 0.4	---	---	---	---
	11/9/2006	1.2	± 0.5	< 1.0	---	8.5	5.0
	1/24/2007	1.6	± 0.4	< 1.0	---	11.4	12.6
	4/25/2007	2.2	± 0.5	< 1.0	---	7.6	10.0
BR-F	11/28/2006	< 0.2	± 0.2	< 1.0	---	< 1.0	< 2.0
	1/25/2007	< 0.2	---	< 1.0	---	1.2	3.1
	5/16/2007	< 0.2	± 0.2	< 1.0	---	1.4	5.6
BR-G	10/10/1979	2.0	± 0.5	---	---	---	---
	4/16/1980	0.2	± 0.8	---	---	---	---
	7/30/1980	0.8	± 0.6	---	---	---	---
	10/28/1980	0.6	± 0.5	---	---	---	---
	2/19/1981	1.1	± 0.6	---	---	---	---
	6/29/1981	1.7	± 0.9	---	---	---	---
	9/28/1981	0.3	± 0.4	---	---	---	---
	4/20/1982	1.1	± 0.5	---	---	---	---
	12/19/2006	< 0.2	± 0.2	< 1.0	---	8.1	8.4
	2/27/2007	1.3	± 0.5	< 1.0	---	4.4	18.4
	5/16/2007	0.6	± 0.3	< 1.0	---	4.8	10.4
BR-H	11/21/2006	< 0.2	± 0.2	< 1.0	---	3.9	5.3
	1/24/2007	< 0.2	± 0.2	< 1.0	---	< 1.0	3.0
	4/25/2007	< 0.2	± 0.2	< 1.0	---	< 1.0	3.4
BR-I	11/30/1979	1.9	± 0.4	---	---	---	---
	7/30/1980	1.0	± 0.6	---	---	---	---
Brown #5	9/5/2007	< 0.2	± 0.2	< 1.0	---	14.7	< 2.0
Brown-WS	9/7/2006	< 0.2	± 0.2	< 1.0	---	9.0	12.8
	12/6/2006	< 0.2	± 0.2	< 1.0	---	7.9	8.6
	2/21/2007	< 0.2	± 0.2	< 1.0	---	6.8	6.0
	5/16/2007	< 0.2	± 0.2	< 1.0	---	7.6	8.4
BR-Q	1/9/1980	0.4	± 0.1	---	---	---	---
	4/16/1980	1.3	± 1.0	---	---	---	---
	12/19/2006	< 0.2	± 0.2	< 1.0	---	10.9	10.1
	2/27/2007	0.8	± 0.4	< 1.0	---	9.3	10.0
	5/16/2007	< 0.2	± 0.2	< 1.0	---	6.6	9.3
	8/8/2007	0.6	± 0.2	< 1.0	---	8.1	8.4
	8/8/2007	< 0.2	± 0.2	1.1	± 0.8	8.7	9.2
BR-T	1/8/1980	15.4	± 1.0	---	---	---	---
	2/27/1980	29.0	± 2.1	---	---	---	---
	2/27/1980	3.9	---	---	---	---	---

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd)

Well Name	Date	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Alpha (pCi/l)	Beta (pCi/l)
BR-T	4/15/1980	6.3	± 3.1	---	---	---	---
	4/15/1980	20.3	---	---	---	---	---
	3/11/1981	16.0	± 3.0	---	---	---	---
	6/30/1981	9.3	± 4.2	---	---	---	---
	9/29/1981	3.9	± 1.1	---	---	---	---
	1/14/1982	11.0	± 2.0	---	---	---	---
	4/20/1982	6.8	± 1.5	---	---	---	---
	9/8/1988	23.7	---	---	---	---	---
	3/20/2007	8.7	± 1.2	< 1.0	---	16.1	18.1
	8/22/2007	2.2	± 0.6	< 1.0	---	16.2	6.3
BR-U	11/30/1979	0.4	± 0.3	---	---	---	---
	7/30/1980	0.6	± 0.5	---	---	---	---
C #1	11/17/1978	21.0	± 5.0	---	---	---	---
	4/29/1979	6.2	± 1.0	---	---	---	---
Dry Willow #1	11/8/1978	33.0	± 4.0	---	---	---	---
	5/1/1979	9.1	± 1.4	---	---	---	---
	3/22/2007	44.4	± 1.9	< 1.0	---	49.3	35.2
	5/2/2007	44.1	± 2.1	< 1.0	---	47.4	31.9
	5/24/2007	42.1	± 2.1	< 1.0	---	132.0	50.1
	9/5/2007	47.7	± 2.5	< 1.0	---	103.0	46.8
F. Brown #1	11/7/1978	128.0	± 9.0	---	---	---	---
	4/21/1979	24.0	± 4.5	---	---	---	---
Hank 1	11/17/1978	10.0	± 3.0	---	---	---	---
	5/1/1979	7.7	± 1.1	---	---	---	---
	6/27/2006	40.4	± 1.9	---	---	---	---
	6/29/2006	102.0	± 2.9	---	---	---	---
	12/20/2006	119.0	± 4.3	< 1.0	---	326.0	193.0
	1/25/2007	137.0	± 3.8	< 1.0	---	338.0	210.0
	5/2/2007	153.0	± 3.9	< 1.0	---	181.0	173.0
Means #1	11/16/2006	0.6	± 0.0	< 1.0	---	18.0	16.6
	3/12/2007	2.2	± 0.7	< 1.0	---	16.1	13.3
	6/6/2007	0.6	± 0.3	3.6	± 1.0	20.6	8.9
	9/5/2007	0.7	± 0.4	< 1.0	---	24.2	10.6
NBHW-13	11/28/2006	55.3	± 2.3	2.0	± 0.7	185.0	109.0
	2/23/2007	99.5	± 3.0	< 1.0	---	305.0	141.0
	5/16/2007	99.8	± 3.1	< 1.0	---	404.0	169.0
	7/25/2007	95.4	± 2.9	< 1.0	---	320.0	130.0
Old Maid #1	3/12/2007	6.3	± 0.8	< 1.0	---	11.2	11.4

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd)

Well Name	Date	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Alpha (pCi/l)	Beta (pCi/l)
OW43756	6/21/2007	1.0	± 0.4	< 1.0	---	6.0	9.6
Paden #1	12/6/2006	3.7	± 0.6	3.3	± 0.9	180.0	54.8
	2/27/2007	3.6	± 0.8	< 1.0	---	193.0	64.1
	6/6/2007	3.3	± 0.6	3.5	± 1.0	189.0	47.7
	9/5/2007	3.8	± 0.7	< 1.0	---	206.0	75.8
SS1-F	10/23/1980	1.5	---	---	---	---	---
	1/20/1981	5.7	---	---	---	---	---
	4/29/1981	4.2	---	---	---	---	---
	7/29/1981	4.2	---	---	---	---	---
	4/15/1988	5.1	---	---	---	---	---
	6/21/2007	0.7	± 0.3	< 1.0	---	8.5	7.9
SS1-L	10/12/1978	53.0	± 6.0	---	---	---	---
	2/14/1979	0.0	± 0.5	---	---	---	---
	4/17/1979	1.0	± 0.4	---	---	---	---
	10/23/1980	2.7	---	---	---	---	---
	1/14/1981	5.0	---	---	---	---	---
	4/29/1981	1.2	---	---	---	---	---
	7/29/1981	1.7	---	---	---	---	---
	4/15/1988	82.4	---	---	---	---	---
	4/27/2007	148.0	± 4.0	1.8	± 0.8	662.0	393.0
	6/5/2007	143.0	± 5.1	3.2	---	426.0	179.0
	7/25/2007	148.0	± 3.6	< 1.0	---	492.0	247.0
SS1-M	11/8/1978	3.3	± 1.5	---	---	---	---
	2/14/1979	0.0	± 0.7	---	---	---	---
	4/17/1979	0.2	± 2.5	---	---	---	---
	10/23/1980	1.1	---	---	---	---	---
	1/20/1981	2.7	---	---	---	---	---
	4/28/1981	1.3	---	---	---	---	---
	7/29/1981	7.8	---	---	---	---	---
	4/15/1988	2.8	---	---	---	---	---
SS1-U	10/13/1978	54.0	± 6.0	---	---	---	---
	2/14/1979	6.1	± 1.4	---	---	---	---
	4/17/1979	15.6	± 2.1	---	---	---	---
	10/23/1980	1.1	---	---	---	---	---
	1/20/1981	2.7	---	---	---	---	---
	4/29/1981	1.1	---	---	---	---	---
	7/29/1981	2.1	---	---	---	---	---
	4/15/1988	16.2	---	---	---	---	---
	6/20/2007	12.1	± 1.2	< 1.0	---	57.7	32.4

TABLE D6E-2. HANK UNIT GROUND-WATER QUALITY DATA. (cont'd)

Well Name	Date	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Alpha (pCi/l)	Beta (pCi/l)
URZHB-6	8/28/2007	1.3	± 0.5	< 1.0	---	16.9	10.2
URZHC-2	8/7/2007	5.5	± 0.7	< 1.0	---	12.2	10.4
	9/7/2007	< 0.2	± 0.2	< 1.0	---	1.6	4.7
URZHF-1	7/27/2007	562.0	± 7.2	4.0	± 1.0	5090.0	1540.0
URZHF-5	8/2/2007	40.3	± 2.1	< 1.0	---	96.8	50.7
WC-MN1	11/14/1978	6.1	± 2.1	---	---	---	---
	4/18/1979	4.5	± 1.1	---	---	---	---

ADDENDUM D6F:

SURFACE WATER RIGHTS

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D6F.1-1 NICHOLS RANCH UNIT SURFACE WATER RIGHTS D6F.1-1
D6F.1-2 WYO. STATE ENGINEERS OFFICE ABBREVIATIONS D6F.1-2

D6F.2-1 HANK UNIT SURFACE WATER RIGHTS D6F.2-1

Table D6F.1-1 NICHOLS RANCH UNIT SURFACE WATER RIGHTS

(permit area & adjacent)

Permit #	Source	Township	Range	Section	Qtrqtr	Applicant	Priority	Acres	Supply type	Status
P32966D	Cottonwood Creek	43	76	16	SWSW	Patricia Clark	8/18/2003	7.53	ORI	UNA
P32966D	Cottonwood Creek	43	76	16	SESW	Patricia Clark	8/18/2003	2.59	ORI	UNA
P32966D	Cottonwood Creek	43	76	17	SWSE	Patricia Clark	8/18/2003	9.66	ORI	UNA
P32966D	Cottonwood Creek	43	76	17	SESE	Patricia Clark	8/18/2003	3.86	ORI	UNA
P32966D	Cottonwood Creek	43	76	17	SESW	Patricia Clark	8/18/2003	1.06	ORI	UNA
P32966D	Cottonwood Creek	43	76	19	SENE	Patricia Clark	8/18/2003	2.83	ORI	UNA
P32966D	Cottonwood Creek	43	76	19	NENW	Patricia Clark	8/18/2003	16.72	ORI	UNA
P32966D	Cottonwood Creek	43	76	19	SWNE	Patricia Clark	8/18/2003	9.62	ORI	UNA
P32966D	Cottonwood Creek	43	76	19	NENE	Patricia Clark	8/18/2003	19.31	ORI	UNA
P32966D	Cottonwood Creek	43	76	19	NWNE	Patricia Clark	8/18/2003	7.75	ORI	UNA
P32966D	Cottonwood Creek	43	76	19	SENW	Patricia Clark	8/18/2003	7.65	ORI	UNA
P32966D	Cottonwood Creek	43	76	20	SWNW	Patricia Clark	8/18/2003	0.29	ORI	UNA
P32966D	Cottonwood Creek	43	76	20	NWNW	Patricia Clark	8/18/2003	11.73	ORI	UNA
P32966D	Cottonwood Creek	43	76	20	NWNE	Patricia Clark	8/18/2003	12.66	ORI	UNA
P32966D	Cottonwood Creek	43	76	20	NENE	Patricia Clark	8/18/2003	17.47	ORI	UNA
P32966D	Cottonwood Creek	43	76	20	NENW	Patricia Clark	8/18/2003	14.87	ORI	UNA
P32966D	Cottonwood Creek	43	76	21	NWNW	Patricia Clark	8/18/2003	21.33	ORI	UNA
P32966D	Cottonwood Creek	43	76	21	NENW	Patricia Clark	8/18/2003	12.16	ORI	UNA
P17385S	Deltoid Draw	43	76	20	NWSW	Dry Fork Land & Livestock	10/6/2005	0	STR	UNA
P17385S	Deltoid Draw	43	76	20	NESW	Dry Fork Land & Livestock	10/6/2005	0	STR	UNA
P18278S	B Draw	43	76	20	SWNE	Yates Petroleum	10/2/2006	0	STR	UNA

** Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6F.1-2 Wyo. State Engineers Office Abbreviations

7/14/2004 Wyoming State Engineer's Water Right Database Page 1 of 3 Pages
Water rights described in this database represent what is of record in our office as entered on the computer (many of the computer entries have not been proofed for accuracy and may not reflect the entire record about a water right or its current status). The office records may or may not reflect the actual situation on the ground. Failure to exercise a water right, for 5 years, when water is available, may constitute grounds for forfeiture.

ABBREVIATIONS FOR STATUS:
A&C=ABANDONED AND CANCELLED
ABA=ABANDONED
ADJ=ADJUDICATED
AME=AMENDED (LANDS MOVED TO NEW LOCATION NO LONGER UNDER THIS PERMIT)
CAN=CANCELLED
DSC=DESCRIPTION
E&C=ELIMINATED AND CANCELLED
ELI=ELIMINATED
EXP=EXPIRED
GSE=GOOD STANDING PERMITTED TIME LIMITS HAVE BEEN EXTENDED
GST=GOOD STANDING
GSM=GOOD STANDING BUT MAP IS STILL REQUIRED
GSI=GOOD STANDING INCOMPLETE-REQUIRED NOTICES NOT RECEIVED-NOT YET EXPIRED
OTH=OTHER
PU=POINT OF USE NON IRRIGATION (NOT ACTUAL STATUS)
PUD=POINT OF DIVERSION (NOT ACTUAL STATUS)
PUE=POINT OF EXTENSION (NOT ACTUAL STATUS)
PUH=POINT OF DIVERSION (NOT ACTUAL STATUS)
PUO=POINT OF RESERVOIR OUTLET (NOT ACTUAL STATUS)
PUW=LOCATION OF WELL (NOT ACTUAL STATUS)
REJ=REJECTED BY THE STATE ENGINEER
REC=LANDS RECEIVED FROM ANOTHER PERMIT
REM=REMAINING
TEM=TEMPORARY
TRA=TRANSFERRED TO ANOTHER FACILITY
UNA=UNADJUDICATED
?=NO ENTRY IN THE DATABASE FOR THIS APPROPRIATION
ABBREVIATIONS FOR USES:
AQU=AQUACULTURE
BAT=BATHING
CBM-COAL BED METHANE
CHE=CHEMICAL

CIF=CONSUMPTIVE INSTREAM FLOW
COM=COMMERCIAL
CNG=COAL BED NATURAL GAS
CUL=CULINARY
DEW=DEWATERING
DOM=DOMESTIC
DRI=DRILLING
DSP=DOMESTIC SUPPLY
ENV=ENVIRONMENTAL
ERO=EROSION CONTROL
FIR=FIRE PROTECTION
FIS=FISH PROPAGATION

FLO=FLOOD CONTROL
FTH=FLOW THROUGH NON-CONSUMPTIVE
GWR=GROUND WATER RECHARGE
HEX=HEAT EXTRACTION
ICE=ICE CUTTING
IND=INDUSTRIAL
IRR=IRRIGATION
ISF=INSTREAM FLOW
MAI=MAINTENANCE
MAN=MANUFACTURING
MEC=MECHANICAL
MED=MEDICINAL
MIL=MILLING
MIN=MINING
MIS=MISCELLANEOUS
MON=MONITORING
MUN=MUNICIPAL
OIL=OIL REFINING/PRODUCTION
POW=POWER DEVELOPMENT
RAI=RAILROAD
REC=RECREATION
REF=REFINING
RES=RESERVOIR SUPPLY
SED=SEDIMENTATION
STE=STEAM ENGINE
STO=STOCK

TEM=TEMPORARY USE
TST=TEST WELL
UTI=PUBLIC UTILITY
W&S=WILD & SCENIC
WET=WETLANDS
WIL=WILDLIFE
ABBREVIATIONS FOR SUPPLY TYPES (SupTy):
ADD=ADDITIONAL SUPPLY FROM A WELL
ORI=ORIGINAL SUPPLY
STR=STORAGE SUPPLY (FOR RESERVOIR AND STOCK RESERVOIR PERMITS-MAY NOT APPEAR ON OLDER PERMITS)
SEC=SUPPLY FROM A RESERVOIR
SUP=SUPPLEMENTAL SUPPLY FROM ANOTHER SURFACE WATER SOURCE
SWS=SURFACE WATER SUPPLY (USED FOR FIRST SURFACE WATER SUPPLY FOR EXISTING GROUNDWATER SUPPLY)
RECORD SUFFIXES ARE DENOTED AS FOLLOWS:
A=ADJUDICATED (FINALIZED) RIGHTS;
C=WELL STATEMENTS OF CLAIM, FILED FROM 1947 TO 1957 FOR WELLS COMPLETED PRIOR TO APRIL 1, 1947
D=DITCH OR PIPELINE PERMIT
G= WELL REGISTRATIONS, FILED FOR WELLS COMPLETED AFTER APRIL 1, 1947
E=ENLARGEMENT OF A DITCH OR PIPELINE PERMIT
P=STOCK AND DOMESTIC USE WELLS COMPLETED PRIOR TO MAY 24, 1969 AND REGISTERED WITH THE STATE ENGINEER'S OFFICE PRIOR TO DECEMBER 31, 1972
R=RESERVOIR PERMIT
S=STOCK RESERVOIR PERMIT
U=UTAH PERMIT RECORDED IN UTAH; LANDS IN WYOMING
"W" PERMITS ARE FOR WELLS WITH A PRIORITY DATE FOR THE DATE OF FILING WITH THE STATE ENGINEER
RECORD PREFIXES ARE DENOTED AS FOLLOWS:
B= BEAR CREEK COURT DECREE
D= BALDWIN CREEK COURT DECREE
E= CLEAR CREEK COURT DECREE
H= HORSE CREEK COURT DECREE
K= CROW CREEK COURT DECREE
L= LARAMIE RIVER COURT DECREE
M= CRAZY WOMAN CREEK COURT DECREE
R= ROCK CREEK COURT DECREE
S= SWEETWATER CREEK COURT DECREE
T-TERRITORIAL APPROPRIATION
AN "X" IN THE LOC (LOCATION) FIELD INDICATES THE LOCATION OF A HEADGATE FOR A DITCH OR PIPELINE, AN OUTLET FOR A RESERVOIR OR STOCK RESERVOIR OR THE LOCATION OF WELL

Table D6F.2-1 HANK UNIT SURFACE WATER RIGHTS

(permit area & adjacent)

Permit #	Source	Township	Range	Section	Qtrqtr	Applicant	Priority	Acres	Supply type	Status
P18282S	Solution Draw	43	75	7	NESW	Yates Petroleum Corp.	8/8/2006	0	STR	UNA
P18283S	Snake Gulch	43	75	7	NWSE	Yates Petroleum Corp.	8/8/2006	0	STR	UNA
P18283S	Snake Gulch	43	75	7	SWSE	Yates Petroleum Corp.	8/8/2006	0	STR	UNA
P2126S	North Middle Butte Draw	44	75	30	NWSE	Earl Brown	11/29/1957		ORI	PU

** Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

ADDENDUM D6G:

GROUNDWATER RIGHTS

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GROUND-WATER RIGHTS ADDENDUM D6G

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D6G.1-1 NICHOLS RANCH UNIT WATER WELLS (PERMIT AREA & ADJACENT) D6G.1-1
D6G.1-2 NICHOLS RANCH WATER WELLS (3 MILE RADIUS) D6G.1-2

D6G.2-1 HANK UNIT WATER WELLS (PERMIT AREA & ADJACENT) D6G.2-1
D6G.2-2 HANK WATER WELLS (3 MILE RADIUS) D6G.2-2

Table D6G.1-1 NICHOLS RANCH UNIT WATER WELLS

(permit area & adjacent)

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	Priority	GW Appr Amt	Uses	GW Well Depth	GW Static Depth	Status
P35744W	RED SPRING ARTESIAN #1	43	76	7	SENE	BROWN LAND COMPANY	12/21/1976	3	STO	740	-6	GST
P63574W	RED SPRINGS #4 LOWER	43	76	8	SENE	T-CHAIR LIVESTOCK COMPANY	4/6/1983	10	STO	795	289	GST
P63575W	RED SPRINGS #4 MIDDLE	43	76	8	SENE	T-CHAIR LIVESTOCK CO.	4/6/1983	10	STO	441	291	GST
P63576W	RED SPRINGS #4 UPPER	43	76	8	SENE	T-CHAIR LIVESTOCK COMPANY	4/6/1983	10	STO	310	233	GST
P53798W	NICR - MN 4	43	76	8	SWSW	RIO ALGOM MINING CORP	8/25/1980	0	MON	623	127	GST
P53800W	NICR - MN 6	43	76	17	SWNW	RIO ALGOM MINING CORP	8/25/1980	0	MON	593	84	GST
P77137W	NICHOLS RANCH #1	43	76	17	SWNW	POWER RESOURCES INC.	6/15/1988	0	MON	620	85	GST
P53795W	NICR - MN 1	43	76	17	NWSW	RIO ALGOM MINING CORP	8/25/1980	0	MON	556	30	GST
39/2/206W	URZN1-2	43	76	17	NWSW	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	645	64	UNA
39/1/206W	URZNB-1	43	76	17	NWSW	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	375	62	UNA
P53796W	NICR - MN 2	43	76	17	NENW	RIO ALGOM MINING CORP	8/25/1980	0	MON	670	158	GST
P53797W	NICR - MN 3	43	76	17	SWNE	RIO ALGOM MINING CORP	8/25/1980	0	MON	585	79	GST
P53799W	NICR - MN 5	43	76	18	NENE	RIO ALGOM MINING CORP	8/25/1980	0	MON	727	207	GST
P11894P	NICHOLS #1	43	76	19	NWNE	BROWN LAND COMPANY	4/23/1967	3	STO	310	-6	GST
P13634P	DRY FORK FLOWING #3	43	76	20	NWSW	FLYING DIAMOND RANCH	12/31/1958	1	STO	360	-1	GST
P11891P	PUG WELL #1	43	76	20	SWNE	BROWN LAND COMPANY	12/31/1939	2	STO	370	-6	GST
P55407W	Brown 20-9 (Cotton Art.)	43	76	20	NWNE	American Nucular Franklin Brown	1/30/1981	3	Sto / Mis	740	-4	CAN (IN USE)
P11896P	PATS WELL #1	43	76	21	NENW	BROWN LAND COMPANY	12/31/1934	2	STO	405	-6	GST

** Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.1-2 NICHOLS RANCH WATER WELLS 3 MILE RADIUS

Permit #	Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	Priority	GW Appr Amt	Uses	GW Well Depth	GW Static Depth	Status
P14648P	TAYLOR #21-3	42	76	4	NWNW	TAYLOR RANCH CO.	12/31/1934	5	STO	600	-1	GST
P119027W	OLD MAID #1	43	76	2	SESE	T-CHAIR LAND COMPANY	9/20/1999	25	STO	300	202	GST
P29162W	WELL WEST OF WIDOW WOMEN #1	43	76	3	NESW	FRANKLIN BROWN	2/10/1975	5	STO	720	310	GST
P15106W	WEST OLD MAIDS WELL #1	43	76	3	SWNE	BROWN LAND COMPANY	8/29/1972	4	STO	275	125	GST
P35744W	RED SPRING ARTESIAN #1	43	76	7	SENE	BROWN LAND COMPANY	12/21/1976	3	STO	740	-6	GST
P63574W	RED SPRINGS #4 LOWER	43	76	8	SENE	T-CHAIR LIVESTOCK COMPANY	4/6/1983	10	STO	795	289	GST
P63575W	RED SPRINGS #4 MIDDLE	43	76	8	SENE	T-CHAIR LIVESTOCK CO.	4/6/1983	10	STO	441	291	GST
P63576W	RED SPRINGS #4 UPPER	43	76	8	SENE	T-CHAIR LIVESTOCK COMPANY	4/6/1983	10	STO	310	233	GST
P53798W	NICR - MN 4	43	76	8	SWSW	RIO ALGOM MINING CORP	8/25/1980	0	MON	623	127	GST
P90853W	WEST OLD MAID'S #2	43	76	10	SWSE	T-CHAIR LAND COMPANY	3/1/1993	7	STO	640	150	GST
P11897P	WEST OLD MAIDS WELL #1	43	76	10	NWSW	BROWN LAND COMPANY	3/12/1961	2	STO	570	50	GST
P63570W	FRANKLIN BROWN #1	43	76	14	NWNW	T-CHAIR LIVESTOCK CO.	4/6/1983	10	STO	520	95	GST
P77137W	NICHOLS RANCH #1	43	76	17	SWNW	POWER RESOURCES INC.	6/15/1988	0	MON	620	85	GST
P53800W	NICR - MN 6	43	76	17	SWNW	RIO ALGOM MINING CORP	8/25/1980	0	MON	593	84	GST
P53795W	NICR - MN 1	43	76	17	NWSW	RIO ALGOM MINING CORP	8/25/1980	0	MON	556	30	GST
39/2/206W	URZN1-2	43	76	17	NWSW	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	645	64	UNA
39/1/206W	URZNB-1	43	76	17	NWSW	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	375	62	UNA
P53796W	NICR - MN 2	43	76	17	NENW	RIO ALGOM MINING CORP	8/25/1980	0	MON	670	158	GST
P53797W	NICR - MN 3	43	76	17	SWNE	RIO ALGOM MINING CORP	8/25/1980	0	MON	585	79	GST
P53799W	NICR - MN 5	43	76	18	NENE	RIO ALGOM MINING CORP	8/25/1980	0	MON	727	207	GST

** Wyo. State Engineer's Office Abbreviations found in Table D6F.1-2

Table D6G.1-2 NICHOLS RANCH WATER WELLS 3 MILE RADIUS

Permit #	Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	Priority	GW Appr Amt	Uses	GW Well Depth	GW Static Depth	Status
P11894P	NICHOLS #1	43	76	19	NWNE	BROWN LAND COMPANY	4/23/1967	3	STO	310	-6	GST
P13634P	DRY FORK FLOWING #3	43	76	20	NWSW	FLYING DIAMOND RANCH	12/31/1958	1	STO	360	-1	GST
P11891P	PUG WELL #1	43	76	20	SWNE	BROWN LAND COMPANY	12/31/1939	2	STO	370	-6	GST
P55407W	Brown 20-9 (Cotton Art.)	43	76	20	NWNE	American Nuclear Franklin Brown	1/30/1981	3	Sto / Mis	740	-4	CAN (IN USE)
P55408W	Brown 21-6 (Solar)	43	76	21	NWNE	American Nuclear Franklin Brown	1/30/1981	1	Sto / Mis	653	-4	CAN (IN USE)
P63605W	FETTY WELL #1	43	76	21	SWSW	T-CHAIR LIVESTOCK CO.	4/6/1983	5	STO	655	135	GST
P11896P	PATS WELL #1	43	76	21	NENW	BROWN LAND COMPANY	12/31/1934	2	STO	405	-6	GST
P158257W	P1	43	76	22	NWSW	T-CHAIR LAND COMPANY	4/21/2004	6	STO	450	150	GST
P158258W	(1) SAME WELL AS P1 MORE COMPLETE	43	76	22	NWSW	T-CHAIR LAND COMPANY	4/21/2004	5	STO	450	150	GST
P97762W	6	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	295	24	GST
P97773W	BC-1A	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	296.4	47	GST
P33631W	BROWN #4	43	76	22	SESE	POWER RESOURCES INC	6/1/1976	20	STO	820	0	GST
P11902P	DOUGHSTICK #1	43	76	22	NESE	BROWN LAND COMPANY	4/18/1967	1	STO	455	-6	GST
P11904P	DOUGHSTICK #3	43	76	22	NESE	BROWN LAND COMPANY	4/1/1961	6	DOM,STO	550	90	GST
P15107W	DOUGHSTICK #5	43	76	22	NWSE	BROWN LAND COMPANY	8/29/1972	4	STO	253	48	GST
P153652W	GARDEN WELL	43	76	22	NESE	T-CHAIR LAND COMPANY	8/27/2003	25	DOM	520	18	GST
P97766W	LC1	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	492	44	GST
P97764W	LS1	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	520	39	GST
P97770W	LS2	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	520	20	GST
P97772W	LS4	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	520	55	GST

** Wyo. State Engineer's Office Abbreviations found in Table D6F.1-2

Table D6G.1-2 NICHOLS RANCH WATER WELLS 3 MILE RADIUS

Permit #	Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	Priority	GW Appr Amt	Uses	GW Well Depth	GW Static Depth	Status
P97760W	O2	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	460	49	GST
P169657W	T-CHAIR 12-22	43	76	22	NWSW	T-CHAIR LAND COMPANY	8/26/2005		STO			GSI
P97765W	UC1	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	149.4	30	GST
P97763W	US1	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	160	20	GST
P97767W	US2	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	150	25	GST
P97769W	US4B	43	76	22	NWSW	POWER RESOURCES INC	11/8/1994	0	MON	160	28	GST
P45994W	CALVING #1	43	76	23	NWSW	BROWN LAND COMPANY	11/28/1978	18	STO	560	82	GST
P11905P	DOUGHSTICK #4	43	76	23	SWSW	BROWN LAND COMPANY	6/15/1961	6	STO	690	80	GST
P11903P	DOUGHSTICK #2	43	76	27	NWNW	BROWN LAND COMPANY	1/14/1961	0	STO	960	-6	GST
P77136W	DOUGHSTICK 1	43	76	28	SWNE	POWER RESOURCES INC.	6/15/1988	0	MON	620	60	GST
P13626P	EAST DRY FORK #1	43	76	30	SENW	FLYING DIAMOND RANCH	12/31/1963	4	STO	360	-1	GST
P163351W	MWAL-12-30-1	43	76	30	SWNW	WILLIAMS PRODUCTION	10/26/2004	0	MON	9.5	-7	GST
P13637P	SEVENTEEN MILE #1	43	76	31	NWNW	FLYING DIAMOND RANCH	12/31/1946	2	STO	490	-1	GST
P14650P	TAYLOR #22-1	43	76	32	SESW	TAYLOR RANCH CO.	10/31/1966	3	STO	135	60	GST
P69103W	TAYLOR UNIT #9	43	76	33	NWNE	TAYLOR RANCH CO. LTD.	11/21/1984	25	STO	1127	480	GST
P13632P	DRY FORK FLOWING #1	43	77	11	SESE	FLYING DIAMOND RANCH	12/31/1949	1	STO	410	-1	GST
P163346W	MWAL-12-11-1	43	77	11	SWNW	WILLIAMS PRODUCTION RMT COMPANY	10/26/2004	0	MON	10	9.52	GST
P13633P	DRY FORK FLOWING #2	43	77	13	SESW	FLYING DIAMOND RANCH	12/31/1956	4	STO	400	-1	GST
P13625P	FOUR CORNERS FLOWING #1	43	77	23	SESW	FLYING DIAMOND RANCH	12/31/1960	1	STO	480	-1	GST
P13627P	KERR-MCGEE #1	43	77	23	NENE	FLYING DIAMOND RANCH	12/31/1968	4	STO	420	-1	GST

** Wyo. State Engineer's Office Abbreviations found in Table D6F.1-2

Table D6G.1-2 NICHOLS RANCH WATER WELLS 3 MILE RADIUS

Permit #	Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	Priority	GW Appr Amt	Uses	GW Well Depth	GW Static Depth	Status
39/8/17W	DRY FORK #1	43	77	24	NENE	DRY FORK LAND & LIVESTOCK, LLC	5/5/2006		DOM			UNA
P13635P	DRY FORK FLOWING #4	43	77	24	SENE	FLYING DIAMOND RANCH	12/31/1944	2	STO	400	-1	GST
P13636P	DRY FORK FLOWING #5	43	77	25	SENE	FLYING DIAMOND RANCH	12/31/1947	2	STO	420	-1	GST
P13647P	LITTLE BULLWHACKER #1	43	77	27	NENE	FLYING DIAMOND RANCH	12/31/1946	2	STO	600	-1	GST
P13622P	BILL SMITH #1	43	77	35	NENW	FLYING DIAMOND RANCH	12/31/1946	2	STO	655	-1	GST
P26091W	AMERICAN NUCLEAR #1	43	77	36	NWSW	FLYING DIAMOND RANCH	3/1/1974	5	STO	387	360	GST
P24101P	BEECHER NE WELL #25	44	76	28	SWSW	JOHN CHRISTENSEN	12/31/1966	4	STO	340	240	GST
P90060W	MW - 104	44	76	31	SESW	COGEMA MINING, INC.	11/9/1992	0	MON	428	76.2	GST
P90061W	MW - 105	44	76	31	SWSW	COGEMA MINING, INC.	11/9/1992	0	MON	408	72.9	GST
P90062W	MW - 106	44	76	31	SESW	COGEMA MINING, INC.	11/9/1992	0	MON	387	46.7	GST

** Wyo. State Engineer's Office Abbreviations found in Table D6F.1-2

Table D6G.2-1 HANK UNIT WATER WELLS

(permit area & adjacent)

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P12283P	CONNIE #2	43	75	5	NWSE	INC. RUBY RANCH	12/31/1960	5	STO	350	-1	PUW
P103967W	PADEN #1	43	75	5	SWSW	RUBY RANCH	9/19/1996	10	STO	650	290	UNA
P116152W	NORTH DRY WILLOW #1	43	75	6	NESE	T-CHAIR LAND COMPANY	5/28/1999	25	STO	1132	200	GST
39/10/205W	URZHG-3	43	75	6	SWNE	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	300	274	UNA
39/8/205W	URZHF-1	43	75	6	SWNE	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	440	329	UNA
39/9/205W	URZHC-2	43	75	6	SWNE	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	470	343	UNA
P33462W	DRY WILLOW 1	43	75	7	SENE	RIO ALGOM MINING CORP	9/30/1975	15	TEM,MIS,DRI	320	228	UNA
P35984W	MEANS #1	43	75	18	NWNE	BROWN LAND COMPANY	1/27/1977	20	STO	700	310	PUW
P50576W	BROWN J	44	75	29	NWNW	POWER RESOURCES	10/29/1979	0	MON	110	95	GST
P50573W	BROWN G	44	75	29	SWSW	POWER RESOURCES	10/29/1979	0	MON	320	169	GST
P50583W	BROWN Q	44	75	29	SWSW	POWER RESOURCES	10/29/1979	0	MON	600	305	GST
P50569W	BROWN C	44	75	30	NWNE	POWER RESOURCES	10/29/1979	0	MON	340	170	GST
P36013W	BROWN #5	44	75	30	SWNE	FRANKLIN BROWN	1/17/1977	45	STO	540	90	PUW
P50572W	BROWN F	44	75	30	SWNE	POWER RESOURCES	10/29/1979	0	MON	160	69	GST
P50568W	BROWN B	44	75	30	NWNW	POWER RESOURCES	10/29/1979	0	MON	300	143	GST
P50571W	BROWN E	44	75	30	SENW	POWER RESOURCES	10/29/1979	0	MON	300	166	GST
P50570W	BROWN D	44	75	30	SENW	POWER RESOURCES	10/29/1979	0	MON	305	164	GST
P50575W	BROWN I	44	75	30	SWNW	POWER RESOURCES	10/29/1979	0	MON	80	49	GST
P48652W	CITIES SERVICE BROWN (WS)	44	75	31	NWNW	BROWN LAND COMPANY	6/21/1979	25	STO	702	280	PUW
P33463W	HANK 1	44	75	31	NWSE	RIO ALGOM MINING CORP	9/30/1975	14	TEM,MIS,DRI	440	370	PUW
40/1/92W	URZHB-6	44	75	31	NENE	URANERZ ENERGY CORPORATION	4/25/2007	0	TST	650	352	UNA
40/10/91W	URZHF-5	44	75	31	NENE	URANERZ ENERGY CORPORATION	4/25/2007	0	TST	410	317	UNA
40/9/91W	URZHG-4	44	75	31	NENE	URANERZ ENERGY CORPORATION	4/25/2007	0	TST	290	280	UNA

** Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P12294P	J D R #6	43	75	2	SWSW	INC. RUBY RANCH	12/31/1958	25	STO	340	-1	GST
P53794W	DW - P1	43	75	3	SWNE	CLEVELAND-CLIFFS IRON COMPANY	8/25/1980	0	MON	720	485	ABA
P12283P	CONNIE #2	43	75	5	NWSE	INC. RUBY RANCH	12/31/1960	5	STO	350	-1	GST
P103967W	PADEN #1	43	75	5	SWSW	RUBY RANCH	9/19/1996	10	STO	650	290	GST
P116152W	NORTH DRY WILLOW #1	43	75	6	NESE	T-CHAIR LAND COMPANY	5/28/1999	25	STO	1132	200	GST
39/10/205W	URZHG-3	43	75	6	SWNE	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	300	274	UNA
39/8/205W	URZHF-1	43	75	6	SWNE	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	440	329	UNA
39/9/205W	URZHC-2	43	75	6	SWNE	URANERZ ENERGY CORPORATION	8/2/2006	0	TST	470	343	UNA
P33462W	DRY WILLOW 1	43	75	7	SENE	RIO ALGOM MINING CORP	9/30/1975	15	TEM,MIS,DRI	320	228	UNA
P12289P	SIMPSON #1	43	75	9	SWSE	INC. RUBY RANCH	5/1/1967	6	STO	703	360	GST
P63582W	(DW - 5M) EYCHANER #5 MIDDLE	43	75	10	SESE	(Cleveland Cliffs Iron) T-CHAIR LIVESTOCK CO.	4/6/1983	9	STO / (MON)	804	486	GST
P63580W	(DW - 5U) EYCHANER #5 UPPER	43	75	10	SESE	(Cleveland Cliffs Iron) T-CHAIR LIVESTOCK CO.	4/6/1983	10	STO / (MON)	649	487	GST
P63581W	DW - 5L) EYCHANER #5 LOWER	43	75	10	SESE	(Cleveland Cliffs Iron) T-CHAIR LIVESTOCK CO.	4/6/1983	10	STO / (MON)	872	489	GST
P89252W	SOUTH BUTTE #1	43	75	10	SWSE	T-CHAIR LAND COMPANY	8/11/1992	20	STO	450	243.4	GST
P15070P	BROWN #3	43	75	15	SWNE	BROWN LAND COMPANY	12/31/1965	1	STO	6	-4	GST
P35984W	MEANS #1	43	75	18	NWNE	BROWN LAND COMPANY	1/27/1977	20	STO	700	310	GST
P63598W	C#1	43	75	20	NWSW	INC. RUBY RANCH	4/6/1983	5	STO	232	160	GST
P8892W	JDR #1	43	75	22	NWSE	RUBY RANCH	4/19/1971	10	STO	800	400	GST
P35336W	BUTTE #1	43	75	28	NWNW	INC. RUBY RANCH	11/18/1976	25	STO	960	200	GST
P12295P	JDR #7	43	75	28	SENW	INC. RUBY RANCH	3/1/1966	5	STO	610	-1	GST
P12290P	JDR #2	43	75	29	NWSE	INC. RY RANCH	12/15/1965	5	STO	510	175	GST
P11898P	RAYS WELL #1	43	75	30	SWSW	BROWN LAND COMPANY	12/31/1939	6	STO	400	115	GST
P119027W	OLD MAID #1	43	76	2	SESE	T-CHAIR LAND COMPANY	9/20/1999	25	STO	300	202	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P15106W	WEST OLD MAIDS WELL #1	43	76	3	SWNE	BROWN LAND COMPANY	8/29/1972	4	STO	275	125	GST
P29162W	WELL WEST OF WIDOW WOMEN #1	43	76	3	NESW	FRANKLIN BROWN	2/10/1975	5	STO	720	310	GST
P90853W	WEST OLD MAID'S #2	43	76	10	SWSE	T-CHAIR LAND COMPANY	3/1/1993	7	STO	640	150	GST
P11897P	WEST OLD MAIDS WELL #1	43	76	10	NWSW	BROWN LAND COMPANY	3/12/1961	2	STO	570	50	GST
P63570W	FRANKLIN BROWN #1	43	76	14	NWNW	T-CHAIR LIVESTOCK CO.	4/6/1983	10	STO	520	95	GST
P11902P	DOUGHSTICK #1	43	76	22	NESE	BROWN LAND COMPANY	4/18/1967	1	STO	455	-6	GST
P11904P	DOUGHSTICK #3	43	76	22	NESE	BROWN LAND COMPANY	4/1/1961	6	DOM,STO	550	90	GST
P153652W	GARDEN WELL	43	76	22	NESE	T-CHAIR LAND COMPANY	8/27/2003		DOM	520	18	GST
P15107W	DOUGHSTICK #5	43	76	22	NWSE	BROWN LAND COMPANY	8/29/1972	4	STO	253	48	GST
P33631W	BROWN #4	43	76	22	SESE	POWER RESOURCES INC	6/1/1976	20	STO	820	0	GST
P45994W	CALVING #1	43	76	23	NWSW	BROWN LAND COMPANY	11/28/1978	18	STO	560	82	GST
P11905P	DOUGHSTICK #4	43	76	23	SWSW	BROWN LAND COMPANY	6/15/1961	6	STO	690	80	GST
P29420W	FRANKLIN BROWN #2	43	76	24	NESW	CLEVELAND-CLIFFS IRON COMPANY	6/10/1974	75	IND,MIN,DRI			CAN
P35814W	SAVAGETON EQUITY STATE #1	44	75	16	NESE	NAOMI A. JORDAN	12/1/1981	35	STO	760	70	GST
P58966W	SHEEPTICK WELL #1	44	75	17	NENE	BROWN LAND COMPANY	11/13/1981	25	STO			CAN
P89253W	CCI #2	44	75	17	NWSE	T-CHAIR LAND COMPANY	8/11/1992	8	STO	440	214.6	GST
P87756W	M6	44	75	18	SESW	POWER RESOURCES	4/24/1992	0	MON	640	300	GST
P87754W	M4	44	75	18	SESW	POWER RESOURCES	4/24/1992	0	MON	580	273	GST
P87755W	M5	44	75	18	SESW	POWER RESOURCES	4/24/1992	0	MON	640	292	GST
P87776W	UM3	44	75	18	SESW	POWER RESOURCES	4/24/1992	0	MON	340	193	GST
P53741W	NORTH BUTTE MN 1	44	75	18	SESW	POWER RESOURCES INC	8/6/1980	0	MON	966	385	GST
P87759W	M9	44	75	18	SWSW	POWER RESOURCES	4/24/1992	0	MON	640	323	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P87760W	M10	44	75	18	SWSW	POWER RESOURCES	4/24/1992	0	MON	640	323	GST
P87778W	UM5	44	75	18	SWSW	POWER RESOURCES	4/24/1992	0	MON	360	190	GST
P87785W	UUM2	44	75	18	SWSW	POWER RESOURCES	4/24/1992	0	MON	220	119	GST
P87757W	M7	44	75	18	SWSW	POWER RESOURCES	4/24/1992	0	MON	640	314	GST
P87777W	UM4	44	75	18	SWSW	POWER RESOURCES	4/24/1992	0	MON	360	139	GST
P53753W	NORTH BUTTE P 6	44	75	18	SWSW	POWER RESOURCES INC	8/6/1980	0	MON	660	145	GST
P87758W	M8	44	75	18	SWSW	POWER RESOURCES INC	4/24/1992	0	MON	640	325	GST
P87758W	M8	44	75	18	SWSW	POWER RESOURCES INC	4/24/1992	0	MON	640	325	GST
P87779W	UM6	44	75	18	SWSW	POWER RESOURCES INC	4/24/1992	0	MON	350	190	GST
P76616W	SSEA 2	44	75	19	NWNE	POWER RESOURCES INC	4/15/1988	0	MON	670	330	GST
P87751W	M1	44	75	19	NWNE	POWER RESOURCES INC	4/24/1992	0	MON	560	230	GST
P87752W	M2	44	75	19	NWNE	POWER RESOURCES INC	4/24/1992	0	MON	560	260	GST
P53770W	NORTH BUTTE SSE U	44	75	19	NWNE	POWER RESOURCES INC	8/6/1980	0	MON	291	184	GST
P76617W	SSEA 3	44	75	19	NWNE	POWER RESOURCES INC	4/15/1988	0	MON	666	330	GST
P76619W	SSEA1 AQ	44	75	19	NWNE	POWER RESOURCES INC	4/15/1988	0	MON	677.5	330	GST
P76615W	SSEA 1	44	75	19	NWNE	POWER RESOURCES INC	4/15/1988	0	MON	668	330	GST
P76615W	SSEA 1	44	75	19	NWNE	POWER RESOURCES INC	4/15/1988	0	MON	668	330	GST
P87784W	UUM1	44	75	19	NWNE	POWER RESOURCES INC	4/24/1992	0	MON	180	92	GST
P53772W	NORTH BUTTE SSE L	44	75	19	NWNE	POWER RESOURCES INC	8/6/1980	0	MON	680	343	GST
P87770W	M20	44	75	19	NWNE	POWER RESOURCES INC	4/24/1992	0	MON	560	262	GST
P53771W	NORTH BUTTE SSE M	44	75	19	NWNE	POWER RESOURCES INC	8/6/1980	0	MON	556	272	GST
P87774W	UM1	44	75	19	NWNE	POWER RESOURCES INC	4/24/1992	0	MON	320	150	GST
P76618W	SSE1 1	44	75	19	NWNE	POWER RESOURCES INC	4/15/1988	0	MON	740	322	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P87769W	M19	44	75	19	SWNE	POWER RESOURCES INC	4/24/1992	0	MON	560	239	GST
P87766W	M16	44	75	19	NENW	POWER RESOURCES INC	4/24/1992	0	MON	640	261	GST
P87782W	UM9	44	75	19	NENW	POWER RESOURCES INC	4/24/1992	0	MON	340	161	GST
P87768W	M18	44	75	19	NENW	POWER RESOURCES INC	4/24/1992	0	MON	560	249	GST
P53756W	NORTH BUTTE P 9	44	75	19	NENW	POWER RESOURCES INC	8/6/1980	0	MON	640	197	GST
P87767W	M17	44	75	19	NENW	POWER RESOURCES INC	4/24/1992	0	MON	560	265	GST
P87775W	UM2	44	75	19	NENW	POWER RESOURCES INC	4/24/1992	0	MON	420	197	GST
P87780W	UM7	44	75	19	NWNW	POWER RESOURCES INC	4/24/1992	0	MON	320	192	GST
P87765W	M15	44	75	19	NWNW	POWER RESOURCES INC	4/24/1992	0	MON	640	279	GST
P53755W	NORTH BUTTE P 8	44	75	19	NWNW	POWER RESOURCES INC	8/6/1980	0	MON	760	378	GST
P87781W	UM8	44	75	19	NWNW	POWER RESOURCES INC	4/24/1992	0	MON	340	132	GST
P50584W	BROWN R	44	75	19	NESE	POWER RESOURCES INC	10/29/1979	0	MON	520	265	GST
P50579W	BROWN M	44	75	19	NESE	POWER RESOURCES INC	10/29/1979	0	MON	528	261	GST
P50580W	BROWN N	44	75	19	NESE	POWER RESOURCES INC	10/29/1979	0	MON	405	183	GST
P50578W	BROWN 1	44	75	19	NESE	POWER RESOURCES INC	10/29/1979	0	MON	640	290	GST
P87753W	M3	44	75	19	SESW	POWER RESOURCES INC	4/24/1992	0	MON	580	275	GST
P50581W	BROWN O (OH)	44	75	20	SWNW	POWER RESOURCES INC	10/29/1979	0	MON	580	282	GST
P50567W	BROWN A	44	75	20	NESW	POWER RESOURCES INC	10/29/1979	0	MON	320	229	GST
P11892P	EAST PFISTER #1	44	75	21	NESE	BROWN LAND COMPANY	12/15/1962	2	STO	335	110	GST
P37541W	GILL #1	44	75	27	NENE	WILLIAM G. CAMBLIN	3/16/1977	15	STO,IRR	1000	380	???
P50582W	BROWN P	44	75	29	SENE	POWER RESOURCES INC	10/29/1979	0	MON	595	361	GST
P50577W	BROWN K	44	75	29	NENW	POWER RESOURCES INC	10/29/1980	0	MON	124	120	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P50576W	BROWN J	44	75	29	NWNW	POWER RESOURCES INC	10/29/1979	0	MON	110	95	GST
P50573W	BROWN G	44	75	29	SWSW	POWER RESOURCES INC	10/29/1979	0	MON	320	169	GST
P50583W	BROWN Q	44	75	29	SWSW	POWER RESOURCES INC	10/29/1979	0	MON	600	305	GST
P50569W	BROWN C	44	75	30	NWNE	POWER RESOURCES INC	10/29/1979	0	MON	340	170	GST
P36013W	BROWN #5	44	75	30	SWNE	FRANKLIN BROWN	1/17/1977	45	STO	540	90	GST
P50572W	BROWN F	44	75	30	SWNE	POWER RESOURCES INC	10/29/1979	0	MON	160	69	GST
P50568W	BROWN B	44	75	30	NWNW	POWER RESOURCES INC	10/29/1979	0	MON	300	143	GST
P50571W	BROWN E	44	75	30	SENW	POWER RESOURCES INC	10/29/1979	0	MON	300	166	GST
P50570W	BROWN D	44	75	30	SENW	POWER RESOURCES INC	10/29/1979	0	MON	305	164	GST
P50575W	BROWN I	44	75	30	SWNW	POWER RESOURCES INC	10/29/1979	0	MON	80	49	GST
P48652W	CITIES SERVICE BROWN (WS)	44	75	31	NWNW	BROWN LAND COMPANY	6/21/1979	25	STO	702	280	GST
P33463W	HANK 1	44	75	31	NWSE	RIO ALGOM MINING CORP	9/30/1975	14	TEM,MIS,DRI	440	370	???
40/1/92W	URZHB-6	44	75	31	NENE	URANERZ ENERGY CORPORATION	4/25/2007	0	TST	650	352	UNA
40/10/91W	URZHF-5	44	75	31	NENE	URANERZ ENERGY CORPORATION	4/25/2007	0	TST	410	317	UNA
40/9/91W	URZHG-4	44	75	31	NENE	URANERZ ENERGY CORPORATION	4/25/2007	0	TST	290	280	UNA
P15068P	BROWN #1	44	76	13	NWNW	BROWN LAND COMPANY	12/31/1955	5	STO	5	-4	GST
P53757W	NORTH BUTTE P 10	44	76	13	NESE	POWER RESOURCES INC	8/6/1980	0	MON	720	379	GST
P104127W	NBHW-2	44	76	13	NWSE	POWER RESOURCES INC	10/15/1996	0	MON	760	422.8	GST
P104128W	NBHW-3	44	76	13	NWSE	POWER RESOURCES INC	10/15/1996	0	MON	810	501.9	GST
P104126W	NBHW-1	44	76	13	SESE	POWER RESOURCES INC	10/15/1996	0	MON	720	378.5	GST
P53759W	NORTH BUTTE P 12	44	76	13	SESE	POWER RESOURCES INC	8/6/1980	0	MON	660	341	GST
P53744W	NORTH BUTTE P 1 U	44	76	13	SESE	POWER RESOURCES INC	8/6/1980	0	MON	700	172	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P53752W	NORTH BUTTE R 5	44	76	13	SESE	POWER RESOURCES INC	8/6/1980	0	MON	760	133	GST
P53751W	NORTH BUTTE P 4	44	76	13	SESE	POWER RESOURCES INC	8/6/1980	0	MON	660	328	GST
P74579W	NORTH BUTTE P 1 M 291P	44	76	13	SESE	POWER RESOURCES INC	5/11/1987	0	MON	780	34	GST
P53750W	NORTH BUTTE P 3	44	76	13	SESE	POWER RESOURCES INC	8/6/1980	0	MON	780	251	GST
P53746W	NORTH BUTTE P 1 L	44	76	13	SESE	POWER RESOURCES INC	8/6/1980	-1	MON	800	253	GST
P104129W	NBHW-4	44	76	13	SWSE	POWER RESOURCES INC	10/15/1996	0	MON	760	526.6	GST
P104130W	NBHW-5	44	76	13	SWSE	POWER RESOURCES INC	10/15/1996	0	MON	635	417.9	GST
P15069P	BROWN #2	44	76	14	NESE	BROWN LAND COMPANY	12/31/1960	8	STO	3	-4	GST
P53754W	NORTH BUTTE P 7	44	76	24	NENE	POWER RESOURCES INC	8/6/1980	0	MON	660	539	GST
P53747W	NORTH BUTTE P 2 U	44	76	24	NENE	POWER RESOURCES INC	8/6/1980	0	MON	760	337	GST
P53749W	NORTH BUTTE P 2 L	44	76	24	NENE	POWER RESOURCES INC	8/6/1980	0	MON	1000	378	GST
P53748W	NORTH BUTTE P 2 M	44	76	24	NENE	POWER RESOURCES INC	8/6/1980	0	MON	800	145	GST
P53758W	NORTH BUTTE P 11	44	76	24	NWNE	POWER RESOURCES INC	8/6/1980	0	MON	820	384	GST
P76612W	SS2BC 1	44	76	24	SWNE	POWER RESOURCES INC	4/15/1988	0	MON	640	298	GST
P53782W	N BUTTE SS2 P U	44	76	24	SWNE	POWER RESOURCES INC	8/25/1980	0	MON	378	221	GST
P76614W	SS2FBC AQ	44	76	24	SWNE	POWER RESOURCES INC	4/15/1988	0	MON	459	225	GST
P53786W	N BUTTE SS2 P L	44	76	24	SWNE	POWER RESOURCES INC	8/25/1980	0	MON	800	379	GST
P74578W	N BUTTE SS2 P M 1285P	44	76	24	SWNE	POWER RESOURCES INC	5/11/1987	0	MON	640	143	GST
P76613W	SS2BC 2	44	76	24	SWNE	POWER RESOURCES INC	4/15/1988	0	MON	650	298	GST
P53781W	N BUTTE SS2 U	44	76	24	SWNE	POWER RESOURCES INC	8/25/1980	0	MON	377	227	GST
P53783W	N BUTTE SS2 M	44	76	24	SWNE	POWER RESOURCES INC	8/25/1980	0	MON	645	306	GST
P53785W	N BUTTE SS2 L	44	76	24	SWNE	POWER RESOURCES INC	8/25/1980	0	MON	780	366	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P104140W	NBHW-15	44	76	24	NENW	POWER RESOURCES INC	10/15/1996	0	MON	350	126.2	GST
P104136W	NBHW-11	44	76	24	NENW	POWER RESOURCES INC	10/15/1996	0	MON	665	225.8	GST
P104131W	NBHW-6	44	76	24	NENW	POWER RESOURCES INC	10/15/1996	0	MON	600	373.4	UNA
P40889W	BROWN #6	44	76	24	NWNW	BROWN LAND COMPANY	11/25/1977	40	STO,MIS	780	400	CAN
P33982W	NORTH BUTTE #1	44	76	24	NWNW	BROWN LAND COMPANY	6/24/1976	22.5	STO	700	385	CAN
P104145W	NBHW-20	44	76	24	NWNW	POWER RESOURCES INC	10/15/1996	0	MON	630	372	GST
P104139W	NBHW-14	44	76	24	SENW	POWER RESOURCES INC	10/15/1996	0	MON	520	107.7	GST
P104132W	NBHW-7	44	76	24	SENW	POWER RESOURCES INC	10/15/1996	0	MON	610	357.3	GST
P104138W	NBHW-13	44	76	24	SENW	POWER RESOURCES INC	10/15/1996	0	MON	470	125.4	GST
P104137W	NBHW-12	44	76	24	SENW	POWER RESOURCES INC	10/15/1996	0	MON	646	195.7	GST
P104144W	NBHW-19	44	76	24	SWNW	POWER RESOURCES INC	10/15/1996	0	MON	660	326.3	GST
P104142W	NBHW-17	44	76	24	NESW	POWER RESOURCES INC	10/15/1996	0	MON	555	207.4	GST
P104134W	NBHW-9	44	76	24	NESW	POWER RESOURCES INC	10/15/1996	0	MON	560	218.1	GST
P104133W	NBHW-8	44	76	24	NESW	POWER RESOURCES INC	10/15/1996	0	MON	640	343.6	GST
P104143W	NBHW-18	44	76	24	NESW	POWER RESOURCES INC	10/15/1996	0	MON	630	290.4	GST
P40284W	ENL BROWNS LAKE #1	44	76	24	NWSW	CLEVELAND CLIFFS IRON COMPANY	4/20/1977	0	MIS	600	282	CAN
P35770W	BROWNS LAKE #1	44	76	24	NWSW	CLEVELAND CLIFFS IRON COMPANY	12/10/1976	22	MIS	600	282	CAN
P104135W	NBHW-10	44	76	24	SESW	POWER RESOURCES INC	10/15/1996	0	MON	490	171.3	GST
P104141W	NBHW-16	44	76	24	SWSW	POWER RESOURCES INC	10/15/1996	0	MON	670	221.3	GST
P53761W	NORTH BUTTE SS1 P U	44	76	25	NENW	POWER RESOURCES INC	8/6/1980	0	MON	354	145	GST
P53762W	NORTH BUTTE SS1 M	44	76	25	NENW	POWER RESOURCES INC	8/6/1980	0	MON	454	139	GST
P53765W	NORTH BUTTE SS1 P L	44	76	25	NENW	POWER RESOURCES INC	8/6/1980	0	MON	606	208	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

Table D6G.2-2 HANK UNIT WATER WELLS 3 MILE RADIUS

Permit #	GW Facility Name	Township	Range	Section	Qtrqtr	GW Applicant	GW Priority	GW Appr Amt	GW Uses	GW Well Depth	GW Stat Depth	Status
P53764W	NORTH BUTTE SS1 L	44	76	25	NENW	POWER RESOURCES INC	8/6/1980	0	MON	654	139	GST
P53760W	NORTH BUTTE P SS1 U	44	76	25	NENW	POWER RESOURCES INC	8/6/1980	0	MON	372	136	GST
P53763W	NORTH BUTTE SS1 P M	44	76	25	NENW	POWER RESOURCES INC	8/6/1980	0	MON	446	146	GST
P53779W	N BUTTE SS1 (F) U	44	76	25	NENW	POWER RESOURCES INC	8/25/1980	0	MON	185	114	GST
P53780W	N BUTTE SS1 (F) P U	44	76	25	NENW	POWER RESOURCES INC	8/25/1980	0	MON	191	115	GST
P63604W	RED BARREL #1	44	76	25	SWNW	T-CHAIR LIVESTOCK CO.	4/6/1983	10	STO	525	125	GST
P50574W	BROWN H	44	76	25	NWSW	POWER RESOURCES INC	10/29/1979	0	MON	200	90	GST
P53766W	NORTH BUTTE SSW U	44	76	26	SENE	POWER RESOURCES INC	8/6/1980	0	MON	216	107	GST
P53769W	NORTH BUTTE SSW L	44	76	26	SWNE	POWER RESOURCES INC	8/6/1980	0	MON	605	216	GST
P53767W	NORTH BUTTE SSW UM	44	76	26	SWNE	POWER RESOURCES INC	8/6/1980	0	MON	346	104	GST
P53768W	NORTH BUTTE SSW LM	44	76	26	SWNE	POWER RESOURCES INC	8/6/1980	0	MON	483	104	GST
P24095P	CALVING SHED #18	44	76	27	NWNW	JOHN CHRISTENSEN	12/21/1953	4	STO	140	40	GST
P24083P	DRY PASTURE #2	44	76	34	NENE	JOHN CHRISTENSEN	9/21/1936	4	STO	160	60	GST
P29418W	SOUTH FORK #1	44	76	35	NESE	CLEVELAND-CLIFFS IRON COMPANY	6/10/1974	75	IND,MIN,DRI			CAN
P53791W	WC - MN 1	44	76	35	SWSE	RIO ALGOM MINING CORP	8/25/1980	0	MON	210	100	GST

Wyo. State Engineer's Office Abbreviations found in table D6F.1-2

ADDENDUM D6H:

COAL BED METHANE AND OIL/GAS WELLS

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COAL BED METHANE WELLS AND OIL/GAS WELLS
ADDENDUM D6H

TABLES

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D6H.2-1 HANK COAL BED METHANE WELLS (3 MILE RADIUS) D6H.2-1

D6H.3-1 NICHOLS RANCH AND HANK OIL WELLS (3 MILE RADIUS) D6H.3-1

Table D6H.1-1 NICHOLS RANCH COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 42 Range 76						
49-019-26851	BLACK DIAMOND ENERGY INC	IBERLIN FEDERAL 21-5-4276	5	NE NW	603 FNL and 1837 FWL	WP
49-019-26855	BLACK DIAMOND ENERGY INC	IBERLIN FEDERAL 21-6-4276	6	NE NW	494 FNL and 2038 FWL	WP
49-019-26859	BLACK DIAMOND ENERGY INC	IBERLIN FEDERAL 41-6-4276	6	NE NE	657 FNL and 717 FEL	WP
Township 43 Range 76						
49-005-58019	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 2-21	2	NE NW	836 FNL and 1792 FWL	AP
49-005-47629	ANADARKO PETROLEUM CORPORATION	T-C RANCH 2S-15	2	SW SE	576 FSL and 1927 FEL	SI
49-005-47630	ANADARKO PETROLEUM CORPORATION	T-C RANCH 2S-13	2	SW SW	567 FSL and 507 FWL	SI
49-005-47632	ANADARKO PETROLEUM CORPORATION	T-C RANCH 2S-5	2	SW NW	2108 FNL and 694 FWL	SI
49-005-59109	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 2-23	2	NE SW	2046 FSL and 1920 FEL	AP
49-005-58024	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-12	3	SW NW	2213 FNL and 478 FWL	SP
49-005-58025	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-14	3	SW SW	940 FSL and 622 FWL	SP
49-005-58026	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-22	3	SE NW	2428 FNL and 2133 FWL	SP
49-005-58027	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-23	3	NE SW	1918 FSL and 2030 FWL	SP
49-005-58028	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-32	3	SW NE	1859 FNL and 1939 FEL	SP
49-005-58029	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-34	3	SW SE	472 FSL and 2347 FEL	SP
49-005-58030	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-41	3	NE NE	841 FNL and 618 FEL	SP
49-005-58031	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-43	3	NE SE	1960 FSL and 770 FEL	SP
49-005-58032	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-12	4	SW NW	2039 FNL and 516 FWL	SI
49-005-58033	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-14	4	SW SW	680 FSL and 666 FWL	SI
49-005-58034	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-21	4	NE NW	784 FNL and 2113 FWL	SI
49-005-58035	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-23	4	NE SW	2048 FSL and 2061 FWL	SI
49-005-58036	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-32	4	SW NE	1933 FNL and 2010 FEL	SI
49-005-58037	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-34	4	SW SE	784 FSL and 1989 FEL	SI
49-005-58038	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-41	4	NE NE	560 FNL and 527 FEL	SP
49-005-58039	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 4-43	4	NE SE	2260 FSL and 771 FEL	SI
49-019-26474	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR FED 12-5-4376	5	SW NW	1887 FNL and 587 FWL	SI
49-019-23123	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 34-7-4376	7	SW SE	553 FSL and 1960 FEL	SI
49-019-23124	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 43-7-4376	7	NE SE	2139 FSL and 618 FEL	SI
49-005-28157	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 23-8-4376	8	NESW	1657 FSL and 2246 FWL	AP
49-005-53319	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 34-8-4376	8	SW SE	682 FSL and 1993 FEL	AP
49-005-53320	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 43-8-4376	8	NE SE	2154 FSL and 851 FEL	AP
49-005-53321	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 12-10-4376	10	SW NW	2183 FNL and 856 FWL	AP
49-005-53322	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 14-10-4376	10	SW SW	842 FSL and 852 FWL	AP
49-005-53323	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-10-4376	10	NE NW	716 FNL and 2141 FWL	AP
49-005-53324	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 23-10-4376	10	NE SW	1957 FSL and 2059 FWL	AP
49-005-58080	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-43	10	NE SE	1838 FSL and 839 FEL	SP
49-005-58081	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-41	10	NE NE	552 FNL and 790 FEL	SP

*** Wyo. Oil and Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.1-1 NICHOLS RANCH COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 76						
49-005-58082	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-34	10	SW SE	548 FSL and 1762 FEL	SI
49-005-58083	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-32	10	SW NE	1888 FNL and 2183 FEL	AP
49-005-58077	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-21	11	NE NW	598 FNL and 2134 FWL	AP
49-005-58078	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-14	11	SW SW	739 FSL and 603 FWL	SI
49-005-58079	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-12	11	SW NW	1741 FNL and 766 FWL	AP
49-005-58072	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-43	11	NE SE	1996 FSL and 701 FEL	SP
49-005-58073	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-41	11	NE NE	811 FNL and 652 FEL	SP
49-005-58074	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-34	11	SW SE	753 FSL and 1561 FEL	SP
49-005-58075	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-32	11	SW NE	1726 FNL and 1649 FEL	SI
49-005-58076	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-23	11	NE SW	2180 FSL and 1916 FWL	SI
49-005-58045	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4376 14-43	14	NE SE	2210 FSL and 701 FEL	AP
49-005-58062	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-41	14	NE NE	749 FNL and 484 FEL	SI
49-005-58065	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-32	14	SW NE	1886 FNL and 1822 FEL	SI
49-005-58067	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-23	14	NE SW	2089 FSL and 1885 FWL	SI
49-005-58069	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-21	14	NE NW	561 FNL and 1833 FWL	SP
49-005-58070	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-14	14	SW SW	863 FSL and 657 FWL	SP
49-005-58071	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-12	14	SW NW	2114 FNL and 543 FWL	SI
49-005-58040	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 15-34	15	SW SE	479 FSL and 1800 FEL	AP
49-005-58041	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 15-14	15	SW SW	497 FSL and 808 FWL	AP
49-005-58042	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 15-43	15	NESE	1990 FSL and 697 FEL	SP
49-005-40940	YATES PETROLEUM CORPORATION	ROLLING PIN CS STATE 2	16	NW SE	2033 FSL and 2127 FEL	SI
49-005-53900	YATES PETROLEUM CORPORATION	SPATULA CS STATE 2	16	NE NW	712 FNL and 1889 FWL	SI
49-005-47350	YATES PETROLEUM CORPORATION	SPATULA CS STATE 5	16	NE SW	1876 FSL and 2017 FWL	SI
49-005-58232	YATES PETROLEUM CORPORATION	SPATULA CS STATE 1	16	NE NE	723 FNL and 561 FEL	WP
49-005-58233	YATES PETROLEUM CORPORATION	SPATULA CS STATE 3	16	SW NW	1956 FNL and 715 FWL	WP
49-005-58234	YATES PETROLEUM CORPORATION	SPATULA CS STATE 4	16	SW NE	1936 FNL and 1951 FEL	WP
49-005-58235	YATES PETROLEUM CORPORATION	SPATULA CS STATE 6	16	SW SW	867 FSL and 712 FWL	WP
49-005-58387	YATES PETROLEUM CORPORATION	ROLLING PIN CS STATE 1	16	SE SE	565 FSL and 745 FEL	AP
49-005-53325	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 41-17-4376	17	NE NE	756 FNL and 745 FEL	AP
49-005-53326	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 43-17-4376	17	NE SE	2045 FSL and 667 FEL	AP
49-019-22125	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR RANCH STATE 34-18-4376	18	SW SE	743 FSL and 2040 FEL	FL
49-019-24953	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 12-18-4376	18	SW NW	2111 FNL and 755 FWL	SI
49-019-24954	WILLIAMS PRODUCTION RMT COMPANY	PAYNE 23-18-4376	18	NE SW	2080 FSL and 2097 FWL	SI
49-019-24955	WILLIAMS PRODUCTION RMT COMPANY	PAYNE 32-18-4376	18	SW NE	2084 FNL and 2145 FEL	SI
49-019-24956	WILLIAMS PRODUCTION RMT COMPANY	PAYNE 41-18-4376	18	NE NE	797 FNL and 854 FEL	SI
49-019-27666	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-18-4376	18	NE NW	763 FNL and 2268 FWL	SI
49-019-24852	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 34-19-4376	19	SW SE	714 FSL and 2022 FEL	SI

*** Wyo. Oil and Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.1-1 NICHOLS RANCH COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 76						
49-019-24853	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 14-19-4376	19	SW SW	744 FSL and 689 FWL	EP
49-019-24854	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 12-19-4376	19	SW NW	1911 FNL and 737 FWL	SI
49-019-24916	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 43-19-4376	19	NE SE	2230 FSL and 802 FEL	SI
49-019-25007	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-19-4376	19	NE NW	491 FNL and 1918 FWL	AP
49-019-25008	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 32-19-4376	19	SW NE	2022 FNL and 2184 FEL	AP
49-019-25009	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 41-19-4376	19	NE NE	489 FNL and 633 FEL	SI
49-019-25010	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 12-20-4376	20	SW NW	1910 FNL and 493 FWL	SP
49-019-25011	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-20-4376	20	NE NW	755 FNL and 1912 FWL	AP
49-019-24850	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 23-20-4376	20	NE SW	2072 FSL and 2068 FWL	SP
49-019-24851	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 14-20-4376	20	SW SW	717 FSL and 514 FWL	AP
49-005-53733	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 41-20-4376	20	NE NE	707 FNL and 791 FEL	AP
49-005-57549	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 34-20-4376	20	SW SE	620 FSL and 2116 FEL	AP
49-005-53734	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-21-4376	21	NE NW	708 FNL and 2102 FWL	SP
49-005-53735	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 41-21-4376	21	NE NE	830 FNL and 836 FEL	AP
49-005-53736	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 12-22-4376	22	SW NW	1836 FNL and 745 FWL	SP
49-005-53737	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-22-4376	22	NE NW	490 FNL and 1798 FWL	SP
49-005-53738	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 23-22-4376	22	NE SW	1935 FSL and 1924 FWL	AP
49-005-53739	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 33-22-4376	22	NWSE	1476 FSL and 2022 FEL	SP
49-005-53740	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 43-22-4376	22	NE SE	2185 FSL and 520 FEL	SP
49-005-58047	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4376 23-14	23	SW SW	981 FSL and 1294 FWL	AP
49-005-58099	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-12	23	SW NW	2047 FNL and 1169 FWL	SI
49-005-58100	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-23	23	NE SW	2052 FSL and 2195 FWL	EP
49-005-58101	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-32	23	SW NE	2031 FNL and 2181 FEL	SI
49-005-58102	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-34	23	SW SE	387 FSL and 1831 FEL	SI
49-005-58103	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-41	23	NE NE	490 FNL and 472 FEL	SI
49-005-58104	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-43	23	NE SE	1678 FSL and 633 FEL	SI
49-005-58105	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-21	23	NE NW	1078 FNL and 2276 FWL	SI
49-005-58043	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 26-41	26	NE NE	714 FNL and 712 FEL	SI
49-005-58044	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4376 26-32	26	SW NE	2096 FNL and 1835 FEL	AP
49-005-53213	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 23-28-4376	28	NE SW	2062 FSL and 1887 FWL	SI
49-005-53214	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 14-28-4376	28	SW SW	563 FSL and 701 FWL	SI
49-005-50644	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 34-28-4376	28	SW SE	509 FSL and 1888 FEL	SI
49-005-58433	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 43-28-4376	28	NE SE	2132 FSL and 934 FEL	SI
49-019-24846	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 23-29-4376	29	NE SW	1862 FSL and 2049 FWL	PS
49-019-24847	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 21-29-4376	29	NE NW	776 FNL and 2114 FWL	PS
49-019-24848	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 14-29-4376	29	SW SW	546 FSL and 813 FWL	PS
49-019-24849	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 12-29-4376	29	SW NW	1846 FNL and 705 FWL	PS

*** Wyo. Oil and Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.1-1 NICHOLS RANCH COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 76						
49-019-24843	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 23-30-4376	30	NE SW	2000 FSL and 1966 FWL	PS
49-019-24844	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 14-30-4376	30	SW SW	519 FSL and 746 FWL	PS
49-019-24845	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 12-30-4376	30	SW NW	2115 FNL and 843 FWL	PS
49-019-26475	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 32-30-4376	30	SW NE	1849 FNL and 1908 FEL	PS
49-019-27496	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 21-30-4376	30	NE NW	616 FNL and 1834 FWL	PS
49-019-27497	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 34-30-4376	30	SW SE	664 FSL and 2024 FEL	PS
49-019-27498	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 41-30-4376	30	NE NE	622 FNL and 852 FEL	PS
49-019-27499	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 43-30-4376	30	NE SE	2054 FSL and 487 FEL	PS
49-019-27500	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 41-31-4376	31	NE NE	812 FNL and 656 FEL	PS
49-019-24917	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 23-31-4376	31	NE SW	2225 FSL and 2224 FWL	PS
49-019-27724	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 43-31-4376	31	NE SE	2129 FSL and 976 FEL	PS
49-019-24838	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 34-31-4376	31	SW SE	661 FSL and 2024 FEL	PS
49-019-24839	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 32-31-4376	31	SW NE	2627 FNL and 2146 FEL	PS
49-019-24840	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 21-31-4376	31	NE NW	506 FNL and 1896 FWL	PS
49-019-24841	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 14-31-4376	31	SW SW	786 FSL and 672 FWL	PS
49-019-24842	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 12-31-4376	31	SW NW	1999 FNL and 770 FWL	PS
49-019-24836	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 21-32-4376	32	NE NW	842 FNL and 1967 FWL	SI
49-019-24837	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 12-32-4376	32	SW NW	1798 FNL and 684 FWL	SI
49-005-53212	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 32-32-4376	32	SW NE	1806 FNL and 1975 FEL	SI
49-005-53248	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 41-32-4376	32	NE NE	945 FNL and 550 FEL	SI
49-005-50643	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 23-33-4376	33	NE SW	2060 FSL and 2151 FWL	SI
49-005-53210	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 43-33-4376	33	NE SE	2084 FSL and 571 FEL	AP
49-005-53211	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 14-33-4376	33	SW SW	501 FSL and 559 FWL	SP
49-005-58860	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 34-33-4376	33	SW SE	1057 FSL and 2081 FEL	SP
49-005-50646	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 23-34-4376	34	NE SW	2108 FSL and 1892 FWL	SI
49-005-53232	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 43-34-4376	34	NE SE	2073 FSL and 818 FEL	SP
49-005-53233	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 34-34-4376	34	SW SE	489 FSL and 1818 FEL	AP
49-005-53234	WILLIAMS PRODUCTION RMT COMPANY	IBERLIN RANCH 14-34-4376	34	SW SW	800 FSL and 578 FWL	SP
Township 43 Range 77						
49-019-24201	WILLIAMS PRODUCTION RMT COMPANY	MURRAY 12-1-4377	1	SW NW	1982 FNL and 643 FWL	PS
49-019-24202	WILLIAMS PRODUCTION RMT COMPANY	MURRAY 14-1-4377	1	SW SW	669 FSL and 653 FWL	PS
49-019-24203	WILLIAMS PRODUCTION RMT COMPANY	MURRAY 21-1-4377	1	NE NW	710 FNL and 2142 FWL	PS
49-019-24204	WILLIAMS PRODUCTION RMT COMPANY	MURRAY 23-1-4377	1	NE SW	2041 FSL and 2065 FWL	PS
49-019-22993	WILLIAMS PRODUCTION RMT COMPANY	JOHNSON 14-2-4377	2	SW SW	532 FSL and 532 FSL	PS
49-019-23339	WILLIAMS PRODUCTION RMT COMPANY	JOHNSON 23-2-4377	2	NE SW	2159 FSL and 1882 FWL	PS
49-019-23340	WILLIAMS PRODUCTION RMT COMPANY	JOHNSON 21-2-4377	2	NE NW	809 FNL and 2069 FWL	PS
49-019-23341	WILLIAMS PRODUCTION RMT COMPANY	JOHNSON 12-2-4377	2	SW NW	1967 FNL and 655 FWL	PS

*** Wyo. Oil and Gas Conservation Commission
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Table D6H.1-1 NICHOLS RANCH COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 77						
49-019-23343	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 43-2-4377	2	NE SE	2184 FSL and 641 FEL	PS
49-019-23344	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 32-2-4377	2	SW NE	1982 FNL and 1964 FEL	PS
49-019-23348	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 41-2-4377	2	NE NE	798 FNL and 489 FEL	PS
49-019-23359	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 34-2-4377	2	SW SE	667 FSL and 1975 FEL	PS
49-019-23405	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 41-10-4377	10	NE NE	662 FNL and 658 FEL	PS
49-019-23531	WILLIAMS PRODUCTION RMT COMPANY	JOHNSON 21-11-4377	11	NE NW	544 FNL and 1897 FWL	FL
49-019-23089	WILLIAMS PRODUCTION RMT COMPANY	JOHNSON 32-11-4377	11	SW NE	2002 FNL and 2167 FEL	PS
49-019-23337	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 43-11-4377	11	NE SE	2000 FSL and 659 FEL	PS
49-019-23338	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 41-11-4377	11	NE NE	493 FNL and 583 FEL	PS
49-019-27126	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FED 12-11-4377	11	SW NW	2118 FNL and 468 FWL	EP
49-019-23401	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 43-12-4377	12	NE SE	2483 FSL and 771 FEL	PS
49-019-23353	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 41-12-4377	12	NE NE	574 FNL and 607 FEL	PS
49-019-23354	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 34-12-4377	12	SW SE	1142 FSL and 2143 FEL	SI
49-019-23355	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 23-12-4377	12	NE SW	2201 FSL and 1789 FWL	PS
49-019-23356	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 21-12-4377	12	NE NW	736 FNL and 1819 FWL	PS
49-019-23357	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 14-12-4377	12	SW SW	855 FSL and 735 FWL	PS
49-019-23358	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 12-12-4377	12	SW NW	2184 FNL and 410 FWL	PS
49-019-23403	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 32-12-4377	12	SW NE	2164 FNL and 1979 FEL	PS
49-019-23351	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 23-13-4377	13	NE SW	2159 FSL and 2012 FWL	PS
49-019-23352	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 14-13-4377	13	SW SW	663 FSL and 842 FWL	PS
49-019-26644	WILLIAMS PRODUCTION RMT COMPANY	STEPANEK 34-13-4377	13	SW SE	436 FSL and 2535 FEL	PS
49-019-25170	WILLIAMS PRODUCTION RMT COMPANY	STEPANEK 12-13-4377	13	SW NW	2079 FNL and 462 FWL	PS
49-019-25171	WILLIAMS PRODUCTION RMT COMPANY	STEPANEK 32-13-4377	13	SW NE	2190 FNL and 2133 FEL	PS
49-019-25172	WILLIAMS PRODUCTION RMT COMPANY	STEPANEK 41-14-4377	14	NE NE	736 FNL and 779 FEL	PS
49-019-26272	WILLIAMS PRODUCTION RMT COMPANY	BCU 12-14-4377	14	SW NW	2095 FNL and 515 FWL	PS
49-019-26273	WILLIAMS PRODUCTION RMT COMPANY	BCU 14-14-4377	14	SW SW	854 FSL and 855 FWL	PS
49-019-26276	WILLIAMS PRODUCTION RMT COMPANY	BCU 21-14-4377	14	NE NW	714 FNL and 1948 FWL	PS
49-019-26277	WILLIAMS PRODUCTION RMT COMPANY	BCU 23-14-4377	14	NE SW	2031 FSL and 1915 FWL	PS
49-019-26476	WILLIAMS PRODUCTION RMT COMPANY	STEPANEK FED 32-14-4377	14	SW NE	2176 FNL and 1808 FEL	PS
49-019-23349	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 43-14-4377	14	NE SE	1908 FSL and 718 FEL	PS
49-019-23350	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 34-14-4377	14	SW SE	506 FSL and 2168 FEL	PS
49-019-26235	WILLIAMS PRODUCTION RMT COMPANY	BCU 41-15-4377	15	NE NE	668 FNL and 787 FEL	PS
49-019-26236	WILLIAMS PRODUCTION RMT COMPANY	BCU 43-15-4377	15	NE SE	1895 FSL and 714 FEL	PS
49-019-26301	WILLIAMS PRODUCTION RMT COMPANY	BCU 41-22-4377	22	NE NE	810 FNL and 555 FEL	PS
49-019-26302	WILLIAMS PRODUCTION RMT COMPANY	BCU 43-22-4377	22	NE SE	1791 FSL and 523 FEL	PS
49-019-26303	WILLIAMS PRODUCTION RMT COMPANY	BCU 12-23-4377	23	SW NW	1943 FNL and 779 FWL	PS
49-019-26304	WILLIAMS PRODUCTION RMT COMPANY	BCU 14-23-4377	23	SW SW	950 FSL and 413 FWL	PS

*** Wyo. Oil and Gas Conservation Commission
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Table D6H.1-1 NICHOLS RANCH COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 77						
49-019-26305	WILLIAMS PRODUCTION RMT COMPANY	BCU 21-23-4377	23	NE NW	776 FNL and 2103 FWL	PS
49-019-26306	WILLIAMS PRODUCTION RMT COMPANY	BCU 23-23-4377	23	NE SW	2083 FSL and 1977 FWL	PS
49-019-23336	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 34-23-4377	23	SW SE	785 FSL and 2058 FEL	PS
49-019-23329	WILLIAMS PRODUCTION RMT COMPANY	FEDERAL 43-23-4377	23	NE SE	2004 FSL and 663 FEL	PS
49-019-23330	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 41-23-4377	23	NE NE	651 FNL and 804 FEL	PS
49-019-23331	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 32-23-4377	23	SW NE	1837 FNL and 2168 FEL	PS
49-019-23333	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 34-24-4377	24	SW SE	816 FSL and 2097 FEL	PS
49-019-23334	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 32-24-4377	24	SW NE	2044 FNL and 2026 FEL	PS
49-019-23335	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 23-24-4377	24	NE SW	2078 FSL and 1842 FWL	PS
49-019-23399	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 43-24-4377	24	NE SE	2178 FSL and 388 FEL	PS
49-019-23407	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 41-24-4377	24	NE NE	609 FNL and 1089 FEL	SI
49-019-23090	WILLIAMS PRODUCTION RMT COMPANY	JOHNSON 14-24-4377	24	SW SW	605 FSL and 528 FWL	PS
49-019-23402	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 41-25-4377	25	NE NE	637 FNL and 602 FEL	PS
49-019-23332	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK 43-25-4377	25	NE SE	2182 FSL and 800 FEL	PS
49-019-23323	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 21-25-4377	25	NE NW	836 FNL and 2175 FWL	PS
49-019-23324	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 34-25-4377	25	SW SE	818 FSL and 1867 FEL	PS
49-019-23325	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 32-25-4377	25	SW NE	1839 FNL and 1896 FEL	PS
49-019-23326	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 23-25-4377	25	NE SW	1941 FSL and 1967 FWL	PS
49-019-23327	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 14-25-4377	25	SW SW	542 FSL and 604 FWL	PS
49-019-23328	WILLIAMS PRODUCTION RMT COMPANY	DRY FORK FEDERAL 12-25-4377	25	SW NW	2070 FNL and 739 FWL	PS
49-019-26829	BLACK DIAMOND ENERGY INC	FEDERAL (JOHNSON) 14-26-4377	26	SW SW	696 FSL and 1036 FWL	WP
49-019-26841	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 43-26-4377	26	NE SE	1956 FSL and 490 FEL	AP
49-019-26842	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 41-26-4377	26	NE NE	668 FNL and 664 FEL	AP
49-019-26843	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 34-26-4377	26	SW SE	626 FSL and 2079 FEL	AP
49-019-26844	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 32-26-4377	26	SW NE	1819 FNL and 2040 FEL	AP
49-019-26845	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 23-26-4377	26	NE SW	1994 FSL and 1987 FWL	AP
49-019-24913	WILLIAMS PRODUCTION RMT COMPANY	BCU DRY FORK 21-26-4377	26	NE NW	663 FNL and 1990 FWL	PS
49-019-24197	WILLIAMS PRODUCTION RMT COMPANY	BCU DRY FORK 41-27-4377	27	NE NE	665 FNL and 1146 FEL	PS
49-019-26831	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 43-35-4377	35	NE SE	2001 FSL and 668 FEL	WP
49-019-26832	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 41-35-4377	35	NE NE	616 FNL and 663 FEL	AP
49-019-26834	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 32-35-4377	35	SW NE	1996 FNL and 1997 FEL	AP
49-019-26835	BLACK DIAMOND ENERGY INC	JOHNSON FEDERAL 21-35-4377	35	NE NW	661 FNL and 1991 FWL	AP
49-019-24509	BLACK DIAMOND ENERGY INC	JOHNSON STATE 12-36-4377	36	SW NW	2180 FNL and 534 FWL	SI
49-019-24511	BLACK DIAMOND ENERGY INC	JOHNSON STATE 23-36-4377	36	NE SW	1878 FSL and 1829 FWL	SI
49-019-24512	BLACK DIAMOND ENERGY INC	JOHNSON STATE 34-36-4377	36	SW SE	687 FSL and 2039 FEL	SI
49-019-24513	BLACK DIAMOND ENERGY INC	JOHNSON STATE 41-36-4377	36	NE NE	807 FNL and 722 FEL	SI
49-019-24514	BLACK DIAMOND ENERGY INC	JOHNSON STATE 43-36-4377	36	NE SE	2434 FSL and 778 FEL	SI

*** Wyo. Oil and Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.1-1 NICHOLS RANCH COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 44 Range 76						
49-019-22681	BLACK DIAMOND ENERGY INC	JOHNSON 32-4377	36	SW NE	1931 FNL and 2065 FEL	SI
49-019-22682	BLACK DIAMOND ENERGY INC	JOHNSON 21-4377	36	NE NW	647 FNL and 1979 FWL	SI
49-019-27962	BLACK DIAMOND ENERGY INC	CHRISTENSEN - FED 34-30-4476	30	SW SE	624 FSL and 1803 FEL	AP
49-005-57494	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4476 35-14	35	SW SW	772 FSL and 743 FWL	SI
Township 44 Range 77						
49-019-21908	WINDSOR ENERGY GROUP LLC	JOHNSON 43-35-44-77	35	NE SE	1958 FSL and 651 FEL	SI
49-019-21904	WINDSOR ENERGY GROUP LLC	JOHNSON-BG 34-35-44-77	35	SW SE	654 FSL and 1955 FEL	SI
49-019-22027	YATES PETROLEUM CORPORATION	BEECHER DRAW CS ST 8	36	SW SE	556 FSL and 2079 FEL	AP
49-019-22028	YATES PETROLEUM CORPORATION	BEECHER DRAW CS ST. 7	36	SW SW	753 FSL and 549 FWL	SI
49-019-22029	YATES PETROLEUM CORPORATION	BEECHER DRAW CS ST 6	36	NE SW	1813 FSL and 1950 FWL	AP
49-019-22030	YATES PETROLEUM CORPORATION	BEECHER DRAW CS ST 5	36	NE SE	1853 FSL and 790 FEL	AP
49-019-22031	YATES PETROLEUM CORPORATION	BEECHER DRAW CS ST 4	36	SW NE	2128 FNL and 1951 FEL	AP
49-019-22032	YATES PETROLEUM CORPORATION	BEECHER DRAW CS 3	36	SW NW	2000 FNL and 765 FWL	SI
49-019-22033	YATES PETROLEUM CORPORATION	BEECHER DRAW CS ST 2	36	NE NW	534 FNL and 1852 FWL	AP
49-019-22034	YATES PETROLEUM CORPORATION	BEECHER DRAW CS ST 1	36	NE NE	657 FNL and 676 FEL	AP

*** Wyo. Oil and Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.1-2 Wyo. Oil And Gas Conversation Commission Well Information abbreviations

Status Codes for Well Files

PO = Producing Oil Well
PG = Producing Gas Well
DH = Dry Hole
SI = Shut - In
TA = Temporarily Abandoned
PA = Permanently Abandoned
AI = Active Injector
DR = Dormant
NI = Notice of Intent to Abandon
SR = Subsequent Report of Abandonment
EP = Expired Permit
AP = Permit to Drill
SP = Well Spudded
WP = Waiting on Approval
UNK = Unknown
NR = No Report

Classification Codes:

O = Oil Well
G = Gas Well
C = Condensate
I = Injector Well
S = Source Well
AP = Active Permit
D = Disposal
M = Monitor Well
MW = Monitor Well (Not for Form 2 Reporting)
ST = Strat Test

Form 2 Reporting Classification Codes:

G = Gas Well
C = Condensate
I = Injector Well
S = Source Well
D = Disposal
M = Monitor Well

Status Codes for Form 2's:

FL = Flowing
GL = Gas Lift
PR = Pumping Rods
PS = Pumping Submersible
PH = Pumping Hydraulic
PL = Plunger Lift
TA = Temporarily Abandoned
PA = Permanently Abandoned
AI = Active Injector
DR = Dormant
SI = Shut-In

Status Codes for APD Files:

AP = Active Permit
EP = Expired Permit
DP = Drilling or Drilled Permit
NO = Denied or Cancelled
WP = Waiting on Approval

Land Types:

10 = Federal
13 = Federal/Fee
14 = Federal/State
20 = Patented
23 = Fee/Fee
30 = Fee
31 = Fee/Federal
34 = Fee/State
36 = Fee/Tribal
41 = State/Federal
43 = State/Fee
46 = State/Tribal
60 = Tribal
63 = Tribal/State

County Codes:

001 = Albany
003 = Big Horn
005 = Campbell
007 = Carbon
009 = Converse
011 = Crook
013 = Fremont
015 = Goshen
017 = Hot Springs
019 = Johnson
021 = Laramie
023 = Lincoln
025 = Natrona
027 = Niobrara
029 = Park
031 = Platte
033 = Sheridan
035 = Sublette
037 = Sweetwater
039 = Teton
041 = Uinta
043 = Washakie
045 = Weston

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 75						
49-005-55704	WILLIAMS PRODUCTION RMT COMPANY	VAN BUGGENUM FED 12-2-4375	2	SW NW	1834 FNL and 723 FWL	AP
49-005-51101	WILLIAMS PRODUCTION RMT COMPANY	RUBY 14-2-4375	2	SW SW	562 FSL and 782 FWL	PS
49-005-51102	WILLIAMS PRODUCTION RMT COMPANY	RUBY 43-3-4375	3	NE SE	1804 FSL and 606 FEL	PS
49-005-51103	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 41-3-4375	3	NE NE	545 FNL and 588 FEL	PS
49-005-51104	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 34-3-4375	3	SW SE	721 FSL and 2133 FEL	PS
49-005-51105	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 32-3-4375	3	SW NE	1909 FNL and 1950 FEL	PS
49-005-51106	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 23-3-4375	3	NE SW	2156 FSL and 1966 FWL	PS
49-005-49219	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 21-3-4375	3	NE NW	859 FNL and 1903 FWL	PS
49-005-49220	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 14-3-4375	3	SW SW	588 FSL and 551 FWL	PS
49-005-49218	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 32-4-4375	4	SW NE	1872 FNL and 2166 FEL	PS
49-005-53219	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 21-4-4375	4	NE NW	83 FNL and 2466 FWL	PS
49-005-53218	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 41-4-4375	4	NE NE	639 FNL and 864 FEL	PS
49-005-53173	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE 23-8-4375BG	8	NE SW	1830 FSL and 2074 FWL	AP
49-005-53216	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 23-10-4375	10	NE SW	1989 FSL and 1988 FWL	AP
49-005-53217	WILLIAMS PRODUCTION RMT COMPANY	PUMPKIN BUTTES RANCH 21-10-4375	10	NE NW	839 FNL and 1826 FWL	PS
49-005-52118	BILL BARRETT CORPORATION	STATE 41-16-4375BG	16	NE NE	487 FNL and 642 FEL	SI
49-005-52119	BILL BARRETT CORPORATION	STATE 23-16-4375BG	16	NE SW	1983 FSL and 2050 FWL	SI
49-005-52120	BILL BARRETT CORPORATION	STATE 21-16-4375BG	16	NE NW	671 FNL and 2126 FWL	SI
49-005-52121	BILL BARRETT CORPORATION	STATE 14-16-4375BG	16	SW SW	644 FSL and 675 FWL	SI
49-005-52122	BILL BARRETT CORPORATION	STATE 34-16-4375BG	16	SW SE	582 FSL and 1981 FEL	SI
49-005-52291	BILL BARRETT CORPORATION	STATE 43-16-4375BG	16	NE SE	1796 FSL and 1265 FEL	SI
49-005-52123	BILL BARRETT CORPORATION	STATE 32-16-4375BG	16	SW NE	1957 FNL and 2098 FEL	SI
49-005-52124	BILL BARRETT CORPORATION	STATE 12-16-4375BG	16	SW NW	1999 FNL and 596 FWL	SI
49-005-53725	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 21-18-4375BG	18	NE NW	614 FNL and 2262 FWL	AP
49-005-53726	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 12-18-4375BG	18	SW NW	2080 FNL and 556 FWL	AP
49-005-58385	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4375 18-32	18	SW NE	2000 FNL and 2026 FEL	AP
49-005-58386	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4375 18-41	18	NE NE	480 FNL and 484 FEL	AP
49-005-53723	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 14-19-4375BG	19	SW SW	814 FSL and 867 FWL	AP
49-005-53724	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 12-19-4375BG	19	SW NW	1837 FNL and 550 FWL	AP
49-005-49647	ANADARKO PETROLEUM CORPORATION	RUBY 41-20-4375	20	NE NE	666 FNL and 643 FEL	SI
49-005-53183	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 34-20-4375BG	20	SW SE	864 FSL and 2178 FEL	EP
49-005-53184	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 43-20-4375BG	20	NE SE	2014 FSL and 477 FEL	EP
49-005-53185	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 23-20-4375BG	20	NE SW	2287 FSL and 2053 FWL	EP
49-005-53186	ANADARKO PETROLEUM CORPORATION	SOUTH BUTTE FEDERAL 21-20-4375BG	20	NE NW	826 FNL and 2122 FWL	EP
49-005-49644	WILLIAMS PRODUCTION RMT COMPANY	RUBY 23-21-4375	21	NE SW	2090 FSL and 2097 FWL	PS
49-005-49645	WILLIAMS PRODUCTION RMT COMPANY	RUBY 21-21-4375	21	NE NW	536 FNL and 2100 FWL	PS

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 75						
49-005-49646	WILLIAMS PRODUCTION RMT COMPANY	RUBY 12-21-4375	21	SW NW	2335 FNL and 834 FWL	PS
49-005-57502	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 32-21-4375BG	21	SW NE	2213 FNL and 2104 FEL	AP
49-005-57503	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 14-21-4375BG	21	SW SW	863 FSL and 824 FWL	AP
49-005-57504	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 34-21-4375BG	21	SW SE	825 FSL and 2152 FEL	AP
49-005-57505	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 43-21-4375BG	21	NE SE	1995 FSL and 752 FEL	AP
49-005-57506	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 12-22-4375BG	22	SW NW	2188 FNL and 844 FWL	AP
49-005-57507	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 14-22-4375BG	22	SW SW	745 FSL and 504 FWL	AP
49-005-57508	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 23-22-4375BG	22	NE SW	1900 FSL and 1952 FWL	AP
49-005-53698	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 21-28-4375BG	28	NE NW	640 FSL and 1918 FWL	AP
49-005-53700	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 12-28-4375BG	28	SW NW	2103 FNL and 825 FWL	AP
49-005-53178	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 41-28-4375BG	28	NE NE	705 FNL and 482 FEL	AP
49-005-53181	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 23-28-4375BG	28	NE SW	1997 FSL and 2003 FWL	AP
49-005-53182	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 32-28-4375BG	28	SW NE	2042 FNL and 2128 FEL	AP
49-005-53714	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 43-30-4375BG	30	NE SE	2205 FSL and 475 FEL	AP
49-005-53717	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 41-30-4375BG	30	NE NE	867 FNL and 848 FEL	AP
49-005-53718	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 34-30-4375BG	30	SW SE	607 FSL and 1918 FEL	AP
49-005-53719	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 32-30-4375BG	30	SW NE	2075 FNL and 1820 FEL	AP
49-005-53722	BILL BARRETT CORPORATION	SOUTH BUTTE FEDERAL 21-30-4375BG	30	NE NW	479 FNL and 2292 FWL	AP
Township 43 Range 76						
49-005-47629	ANADARKO PETROLEUM CORPORATION	T-C RANCH 2S-15	2	SW SE	576 FSL and 1927 FEL	SI
49-005-47630	ANADARKO PETROLEUM CORPORATION	T-C RANCH 2S-13	2	SW SW	567 FSL and 507 FWL	SI
49-005-47631	ANADARKO PETROLEUM CORPORATION	T-C RANCH 2S-9	2	NE SE	2049 FSL and 729 FEL	SI
49-005-47632	ANADARKO PETROLEUM CORPORATION	T-C RANCH 2S-5	2	SW NW	2108 FNL and 694 FWL	SI
49-005-58022	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 2-32	2	SW NE	2062 FNL and 1573 FEL	AP
49-005-58023	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 2-41	2	NE NE	501 FNL and 492 FEL	AP
49-005-58019	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 2-21	2	NE NW	836 FNL and 1792 FWL	AP
49-005-59109	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 2-23	2	NE SW	2046 FSL and 1920 FWL	AP
49-005-58024	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-12	3	SW NW	2213 FNL and 478 FWL	SP
49-005-58025	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-14	3	SW SW	940 FSL and 622 FWL	SP
49-005-58026	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-22	3	SE NW	2428 FNL and 2133 FWL	SP
49-005-58027	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-23	3	NE SW	1918 FSL and 2030 FWL	SP
49-005-58028	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-32	3	SW NE	1859 FNL and 1939 FEL	SP
49-005-58029	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-34	3	SW SE	472 FSL and 2347 FEL	AP
49-005-58030	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-41	3	NE NE	841 FNL and 618 FEL	SP
49-005-58031	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 3-43	3	NE SE	1960 FSL and 770 FEL	SP
49-005-53321	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 12-10-4376	10	SW NW	2183 FNL and 856 FWL	AP

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 76						
49-005-53322	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 14-10-4376	10	SW SW	868 FSL and 672 FWL	AP
49-005-53323	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-10-4376	10	NE NW	716 FNL and 2141 FWL	AP
49-005-53324	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 23-10-4376	10	NE SW	1957 FSL and 2059 FWL	AP
49-005-58080	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-43	10	NE SE	1838 FSL and 839 FEL	SP
49-005-58081	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-41	10	NE NE	552 FNL and 790 FEL	SP
49-005-58082	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-34	10	SW SE	548 FSL and 1762 FEL	SI
49-005-58083	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 10-32	10	SW NE	1888 FNL and 2183 FEL	AP
49-005-58072	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-43	11	NE SE	1996 FSL and 701 FEL	SP
49-005-58073	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-41	11	NE NE	811 FNL and 652 FEL	SP
49-005-58074	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-34	11	SW SE	753 FSL and 1561 FEL	SP
49-005-58075	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-32	11	SW NE	1726 FNL and 1649 FEL	SI
49-005-58076	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-23	11	NE SW	2180 FSL and 1916 FWL	SI
49-005-58077	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-21	11	NE NW	598 FNL and 2134 FWL	AP
49-005-58078	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-14	11	SW SW	739 FSL and 603 FWL	SI
49-005-58079	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 11-12	11	SW NW	1741 FNL and 766 FWL	AP
49-005-58045	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4376 14-43	14	NE SE	2210 FSL and 701 FEL	AP
49-005-58069	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-21	14	NE NW	561 FNL and 1833 FWL	SP
49-005-58070	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-14	14	SW SW	863 FSL and 657 FWL	SP
49-005-58071	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-12	14	SW NW	2114 FNL and 543 FWL	SI
49-005-58065	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-32	14	SW NE	1886 FNL and 1822 FEL	SI
49-005-58067	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-23	14	NE SW	2089 FSL and 1885 FWL	SI
49-005-58062	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 14-41	14	NE NE	749 FNL and 484 FEL	SI
49-005-58040	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 15-34	15	SW SE	479 FSL and 1800 FEL	AP
49-005-58041	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 15-14	15	SW SW	497 FSL and 808 FWL	AP
49-005-58042	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 15-43	15	NESE	1990 FSL and 697 FEL	SP
49-005-53737	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 21-22-4376	22	NE NW	490 FNL and 1798 FWL	AP
49-005-53739	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 34-22-4676	22	NW SE	1476 FSL and 2022 FEL	AP
49-005-53740	WILLIAMS PRODUCTION RMT COMPANY	T-CHAIR 43-22-4376	22	NE SE	2371 FSL and 434 FEL	AP
49-005-58099	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-12	23	SW NW	2047 FNL and 1169 FWL	SI
49-005-58100	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-23	23	NE SW	2052 FSL and 2195 FWL	AP
49-005-58101	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-32	23	SW NE	2031 FNL and 2181 FEL	SI
49-005-58102	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-34	23	SW SE	387 FSL and 1831 FEL	SP
49-005-58103	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-41	23	NE NE	490 FNL and 472 FEL	SI
49-005-58104	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-43	23	NE SE	1678 FSL and 633 FEL	SI
49-005-58105	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 23-21	23	NE NW	1078 FNL and 2276 FWL	SI
49-005-58047	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4376 23-14	23	SW SW	981 FSL and 1294 FWL	AP

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 43 Range 76						
49-005-58043	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4376 26-41	26	NE NE	714 FNL and 712 FEL	SI
49-005-58044	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4376 26-32	26	SW NE	2096 FNL and 1835 FEL	AP
Township 44 Range 75						
49-005-56918	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 34-7-4475BG	7	SW SE	740 FSL and 1849 FEL	AP
49-005-54701	LANCE OIL & GAS COMPANY INC	T CHAIR 14-7-4475BG	7	SW SW	773 FSL and 584 FWL	PS
49-005-56919	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 14-8-4475BG	8	SW SW	450 FSL and 912 FWL	AP
49-005-52424	XTO ENERGY INC	HARTZOG FEDERAL 34-8-4475BG	8	SW SE	658 FSL and 1995 FEL	FL
49-005-52426	XTO ENERGY INC	HARTZOG FEDERAL 43-8-4475BG	8	NE SE	1926 FSL and 871 FEL	FL
49-005-52434	XTO ENERGY INC	HARTZOG 23-8-4475BG	8	NE SW	2103 FSL and 1876 FWL	FL
49-005-52428	CH4 ENERGY LLC	HARTZOG FEDERAL 14-9-4475BG	9	SW SW	720 FSL and 627 FWL	FL
49-005-52346	XTO ENERGY INC	HARTZOG FEDERAL 34-9-4475BG	9	SW SE	823 FSL and 2032 FEL	FL
49-005-57168	XTO ENERGY INC	HARTZOG FEDERAL 14-9-4475BGR	9	SW SW	731 FSL and 622 FWL	FL
49-005-52341	XTO ENERGY INC	HARTZOG FEDERAL 34-15-4475BG	15	SW SE	551 FSL and 2312 FEL	FL
49-005-52421	XTO ENERGY INC	HARTZOG FEDERAL 12-15-4475BG	15	SW NW	2060 FNL and 852 FWL	FL
49-005-52422	XTO ENERGY INC	HARTZOG FEDERAL 14-15-4475BG	15	SW SW	695 FSL and 570 FWL	FL
49-005-52431	XTO ENERGY INC	HARTZOG FEDERAL 23-15-4475BG	15	NE SW	2014 FSL and 2236 FWL	FL
49-005-57397	LANCE OIL & GAS COMPANY INC	STATE 23-16-4475	16	NE SW	2007 FSL and 2344 FWL	SI
49-005-53157	LANCE OIL & GAS COMPANY INC	STATE 14-16-4475	16	SW SW	486 FSL and 786 FWL	SI
49-005-52361	XTO ENERGY INC	HARTZOG STATE 43-16-4475BG	16	NE SE	1959 FSL and 762 FEL	FL
49-005-52362	XTO ENERGY INC	HARTZOG STATE 41-16-4475BG	16	NE NE	763 FNL and 788 FEL	FL
49-005-52363	XTO ENERGY INC	HARTZOG STATE 34-16-4475BG	16	SW SE	720 FSL and 2178 FEL	FL
49-005-52364	XTO ENERGY INC	HARTZOG STATE 32-16-4475BG	16	SW NE	2099 FNL and 2206 FEL	FL
49-005-52365	XTO ENERGY INC	HARTZOG STATE 21-16-4475BG	16	NE NW	561 FNL and 1972 FWL	FL
49-005-52366	XTO ENERGY INC	HARTZOG STATE 12-16-4475BG	16	SW NW	2195 FNL and 881 FWL	FL
49-005-53781	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 21-17-4475BG	17	NE NW	1198 FNL and 2200 FWL	AP
49-005-53790	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 41-17-4475BG	17	NE NE	666 FNL and 662 FEL	EP
49-005-53787	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 32-17-4475BG	17	SW NE	1821 FNL and 1818 FEL	EP
49-005-56043	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 34-17-4475BG	17	SW SE	667 FSL and 1986 FEL	AP
49-005-56044	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 23-17-4475BG	17	NE SW	1870 FSL and 2161 FWL	AP
49-005-56045	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 14-17-4475BG	17	SW SW	722 FSL and 444 FWL	EP
49-005-56046	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 12-17-4475BG	17	SW NW	1835 FNL and 839 FWL	AP
49-005-53814	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 43-17-4475	17	NE SE	1945 FSL and 623 FEL	AP
49-005-53777	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 12-18-4475BG	18	SW NW	2085 FNL and 878 FWL	EP
49-005-53788	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 32-18-4475BG	18	SW NE	1835 FNL and 2040 FEL	EP
49-005-53789	LANCE OIL & GAS COMPANY INC	T CHAIR FED 34-18-4475BG	18	SW SE	540 FSL and 2215 FEL	EP
49-005-53791	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 41-18-4475BG	18	NE NE	780 FNL and 547 FEL	EP

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 44 Range 75						
49-005-53785	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 23-18-4475BG	18	NE SW	2114 FSL and 2293 FWL	EP
49-005-53782	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 21-18-4475BG	18	NE NW	629 FNL and 2019 FWL	EP
49-005-53779	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 14-18-4475BG	18	SW SW	649 FSL and 721 FWL	EP
49-005-50246	LANCE OIL & GAS COMPANY INC	T-CHAIR RANCH 43-18-4475	18	NE SE	1946 FSL and 675 FEL	PS
49-005-57468	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 19-21	19	NE NW	603 FNL and 2284 FWL	AP
49-005-57469	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 19-32	19	SWNE	2168 FNL and 1879 FEL	AP
49-005-57470	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 19-41	19	NE NE	477 FNL and 715 FEL	AP
49-005-57471	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 19-43	19	NE SE	2005 FSL and 684 FEL	SI
49-005-58063	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 19-12	19	SW NW	1874 FNL and 894 FWL	AP
49-005-58046	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 19-14	19	SW SW	497 FSL and 672 FWL	AP
49-005-58087	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 20-32	20	SW NE	1988 FNL and 2172 FEL	AP
49-005-58088	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 20-41	20	NE NE	630 FNL and 700 FEL	AP
49-005-58089	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 20-43	20	NE SE	2152 FSL and 704 FEL	AP
49-005-57472	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 20-23	20	NE SW	1895 FSL and 2059 FWL	AP
49-005-57473	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 20-12	20	SW NW	2186 FNL and 783 FWL	SI
49-005-57474	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 20-14	20	SW SW	859 FSL and 717 FWL	AP
49-005-57475	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 20-34	20	SW SE	497 FSL and 1992 FEL	AP
49-005-52430	BILL BARRETT CORPORATION	HARTZOG FED 41-21-4475BG	21	NE NE	627 FNL and 714 FEL	FL
49-005-53812	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 41-22-4475BG	22	NE NE	669 FNL and 543 FEL	PS
49-005-53808	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 12-22-4475BG	22	SW NW	1878 FNL and 728 FWL	PS
49-005-53809	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 21-22-4475BG	22	NE NW	873 FNL and 2048 FWL	PS
49-005-53810	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 32-22-4475BG	22	SW NE	1556 FNL and 2464 FEL	FL
49-005-52339	BILL BARRETT CORPORATION	HARTZOG FEDERAL 43-22-4475BG	22	NE SE	1861 FSL and 620 FEL	FL
49-005-52418	BILL BARRETT CORPORATION	HARTZOG FEDERAL 23-22-4475BG	22	NE SW	1971 FSL and 1895 FWL	FL
49-005-52472	BILL BARRETT CORPORATION	HARTZOG FEDERAL 34-22-4475BG	22	SW SE	706 FSL and 2025 FEL	FL
49-005-55528	LANCE OIL & GAS COMPANY INC	JORDAN 14-22-4475	22	SW SW	603 FSL and 600 FWL	PS
49-005-52338	BILL BARRETT CORPORATION	HARTZOG FED 14-23-4475BG	23	SW SW	537 FSL and 798 FWL	FL
49-005-52359	BILL BARRETT CORPORATION	HARTZOG 12-26-4475BG	26	SW NW	2166 FNL and 863 FWL	FL
49-005-54791	LANCE OIL & GAS COMPANY INC	VANBUGGENUM FED 14-26-4475BG	26	SW SW	860 FSL and 807 FWL	AP
49-005-49215	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 23-27-4475	27	NE SW	1954 FSL and 2138 FWL	PS
49-005-52771	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES 12-27-4475	27	SW NW	2237 FNL and 674 FWL	PS
49-005-52772	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES 14-27-4475	27	SW SW	580 FSL and 670 FWL	PS
49-005-52773	LANCE OIL & GAS COMPANY INC	JORDAN 21-27-4475	27	NE NW	714 FNL and 1867 FWL	PG
49-005-52774	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES 32-27-4475	27	SW NE	1853 FNL and 1963 FEL	PS
49-005-52775	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES 34-27-4475	27	SW SE	824 FSL and 1988 FEL	PS
49-005-52776	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES 43-27-4475	27	NE SE	2030 FSL and 493 FEL	PS

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 44 Range 75						
49-005-53807	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES FED 41-27-4475BG	27	NE NE	692 FNL and 838 FEL	PS
49-005-49064	ANADARKO PETROLEUM CORPORATION	T CHAIR LAND 29S-5	29	SW NW	2003 FNL and 673 FWL	SI
49-005-49065	ANADARKO PETROLEUM CORPORATION	T CHAIR LAND 29S-1	29	NE NE	477 FNL and 495 FEL	SI
49-005-49062	ANADARKO PETROLEUM CORPORATION	T CHAIR LAND 29S-3	29	NE NW	665 FNL and 2032 FWL	SI
49-005-58090	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 29-23	29	NE SW	1923 FSL and 2184 FWL	AP
49-005-58091	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 29-32	29	SW NE	1813 FNL and 1813 FEL	AP
49-005-58092	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 29-34	29	SW SE	637 FSL and 1846 FEL	AP
49-005-58093	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 29-43	29	NE SE	2408 FSL and 244 FEL	AP
49-005-57476	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 29-14	29	SW SW	861 FSL and 632 FWL	AP
49-005-57477	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 30-14	30	SW SW	601 FSL and 636 FWL	SI
49-005-57483	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 30-34	30	SW SE	623 FSL and 1877 FEL	SI
49-005-57480	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 30-21	30	NE NW	725 FNL and 2098 FWL	SI
49-005-57481	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 30-23	30	NE SW	1820 FSL and 2264 FWL	SI
49-005-57482	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 30-32	30	SW NE	2062 FNL and 2172 FEL	PG
49-005-49063	ANADARKO PETROLEUM CORPORATION	T CHAIR LAND 30S-9	30	NE SE	2005 FSL and 688 FEL	SI
49-005-45418	ANADARKO PETROLEUM CORPORATION	T CHAIR LAND 30S-5	30	SW NW	2165 FNL and 533 FWL	SI
49-005-49061	ANADARKO PETROLEUM CORPORATION	T CHAIR LAND 30S-1	30	NE NE	718 FNL and 802 FEL	SI
49-005-57484	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 31-12	31	SW NW	2154 FNL and 705 FWL	SR
49-005-57485	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 31-14	31	SW SW	518 FSL and 922 FWL	SI
49-005-57486	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4475 31-41	31	NE NE	648 FNL and 854 FEL	SI
49-005-58094	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 31-21	31	NE NW	798 FNL and 1980 FWL	AP
49-005-58095	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 31-23	31	NE SW	1977 FSL and 2137 FWL	AP
49-005-58096	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 31-32	31	SW NE	1979 FNL and 2097 FEL	AP
49-005-58097	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 31-34	31	SW SE	716 FSL and 2216 FEL	AP
49-005-58098	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4475 31-43	31	NE SE	2532 FSL and 938 FEL	AP
49-005-49217	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 34-33-4475	33	SW SE	621 FSL and 1955 FEL	FL
49-005-52756	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES FED 23-33-4475BG	33	NE SW	1968 FSL and 2001 FWL	AP
49-005-52757	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES FED 43-33-4475BG	33	NE SE	2019 FSL and 683 FEL	AP
49-005-53158	LANCE OIL & GAS COMPANY INC	CAMBLIN 14-33-4475	33	SW SW	704 FSL and 690 FWL	PS
49-005-53159	LANCE OIL & GAS COMPANY INC	LUKES 34-34-4475	34	SW SE	684 FSL and 1981 FEL	PS
49-005-52921	LANCE OIL & GAS COMPANY INC	LUKES TRUST 23-34-4475	34	NE SW	2053 FSL and 1982 FWL	PS
49-005-52758	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES FED 12-34-4475BG	34	SW NW	2206 FNL and 660 FWL	AP
49-005-51096	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 14-34-4475	34	SW SW	672 FSL and 661 FWL	PS
49-005-49216	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 21-34-4475	34	NE NW	600 FNL and 2062 FWL	PS
49-005-55093	LANCE OIL & GAS COMPANY INC	LUKES TRUST 32-34-4475	34	SW NE	2046 FNL and 1989 FEL	PS
49-005-55142	LANCE OIL & GAS COMPANY INC	PUMPKIN BUTTES RANCH 41-34-4475BG	34	NE NE	533 FNL and 853 FEL	PS

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 44 Range 75						
49-005-54560	LANCE OIL & GAS COMPANY INC	LUKES 43-34-4475BG	34	NE SE	2171 FSL and 484 FEL	PS
49-005-56619	LANCE OIL & GAS COMPANY INC	SAVAGETON FED 12-35-4475BG	35	SW NW	2059 FNL and 699 FWL	AP
49-005-51777	LANCE OIL & GAS COMPANY INC	VAN BUGGENUM FED 14-35-4475BG	35	SW SW	553 FSL and 650 FWL	AP
Township 44 Range 76						
49-005-45416	ANADARKO PETROLEUM CORPORATION	T CHAIR RANCH 24S-15	24	SW SE	585 FSL and 2033 FEL	SI
49-005-57487	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 24-43	24	NE SE	2121 FSL and 488 FEL	AP
49-005-58048	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 24-12	24	SW NW	1901 FNL and 622 FWL	AP
49-005-58049	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 24-14	24	SW SW	563 FSL and 838 FWL	AP
49-005-58050	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 24-21	24	NE NW	465 FNL and 2156 FWL	AP
49-005-58051	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 24-23	24	NE SW	1767 FSL and 1736 FWL	AP
49-005-58052	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 24-32	24	SW NE	2152 FNL and 1917 FEL	AP
49-005-58053	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 24-41	24	NE NE	802 FNL and 889 FEL	AP
49-005-45417	ANADARKO PETROLEUM CORPORATION	T CHAIR RANCH 25S-7	25	SW NE	1826 FNL and 1860 FEL	SI
49-005-45419	ANADARKO PETROLEUM CORPORATION	T CHAIR RANCH 25S-1	25	NE NE	741 FNL and 593 FEL	SI
49-005-40865	ANADARKO PETROLEUM CORPORATION	T CHAIR RANCH 25S-10	25	NW SE	2044 FSL and 2032 FEL	SI
49-005-40867	ANADARKO PETROLEUM CORPORATION	T CHAIR RANCH 25S-16	25	SE SE	662 FSL and 655 FEL	SI
49-005-57488	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 25-23	25	NE SW	2062 FSL and 2091 FEL	AP
49-005-58056	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 25-21	25	NE NW	672 FNL and 1955 FWL	AP
49-005-58060	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 26-41	26	NE NE	746 FNL and 777 FEL	AP
49-005-57489	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4476 26-23	26	NE SW	2057 FSL and 1784 FWL	SI
49-005-57490	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4476 26-12	26	SW NW	2044 FNL and 461 FWL	AP
49-005-57491	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4476 26-21	26	NE NW	655 FNL and 1771 FWL	SI
49-005-57492	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4476 26-43	26	NE SE	2106 FSL and 670 FEL	SP
49-005-58057	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 26-14	26	SW SW	840 FSL and 826 FWL	AP
49-005-58061	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 35-41	35	NE NE	560 FNL and 971 FEL	SI
49-005-58064	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 35-21	35	NE NW	574 FNL and 1809 FWL	AP
49-005-58066	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 35-23	35	NE SW	2054 FSL and 2097 FWL	AP
49-005-58068	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 35-32	35	SW NE	2042 FNL and 1864 FEL	AP
49-005-58084	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 35-34	35	SW SE	939 FSL and 1694 FEL	AP
49-005-58085	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FED 4476 35-43	35	NE SE	2045 FSL and 661 FEL	AP
49-005-57493	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4476 35-12	35	SW NW	1864 FNL and 615 FWL	SI
49-005-57494	ANADARKO PETROLEUM CORPORATION	DRY WILLOW FEE 4476 35-14	35	SW SW	772 FSL and 743 FWL	SI
49-005-56638	ANADARKO PETROLEUM CORPORATION	DRY WILLOW 34-36	36	SW SE	709 FSL and 1888 FEL	SI
49-005-35182	ANADARKO PETROLEUM CORPORATION	STATE (T CHAIR) 36S-16	36	SE SE	680 FSL and 724 FEL	SI
49-005-35183	ANADARKO PETROLEUM CORPORATION	STATE (T-CHAIR) 36S-10	36	NW SE	1996 FSL and 1982 FEL	SI
49-005-35184	ANADARKO PETROLEUM CORPORATION	STATE (T-CHAIR) 36S-14	36	SE SW	730 FSL and 2010 FWL	SI

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.2-1 Hank COAL BED METHANE WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr/Qtr	Footage	Status
Township 44 Range 76						
49-005-35185	ANADARKO PETROLEUM CORPORATION	STATE (T-CHAIR) 36S-6	36	SE NW	2048 FNL and 2004 FWL	SI
49-005-35186	ANADARKO PETROLEUM CORPORATION	STATE (T-CHAIR) 36S-4	36	NW NW	718 FNL and 679 FWL	SI
49-005-35187	ANADARKO PETROLEUM CORPORATION	STATE (T CHAIR) 36S-8	36	SE NE	1996 FNL and 655 FEL	SI
49-005-35188	ANADARKO PETROLEUM CORPORATION	STATE (T CHAIR) 36S-2	36	NW NE	665 FNL and 1964 FEL	SI
49-005-35189	ANADARKO PETROLEUM CORPORATION	STATE (T-CHAIR) 36S-12	36	NW SW	2073 FSL and 791 FWL	SI

*** Wyo. Oil Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.3-1 NICHOLS RANCH AND HANK OIL WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr. / Qtr.	Footage	Depth	Status
Township 43 North - Range 75 West							
49-005-28283	Wyo. Resources Corp.	Parker W-49176 34-6x	6	SW SE	648 FSL & 1968 FEL	10052	PR
49-005-24820	Wyo. Resources Corp.	North Butte W-59613 1	6	SW NW	2222 FNL & 924 FWL	10060	PR
49-005-24481	Wyo. Resources Corp.	Hollar Draw # 1	7	NE NE	474 FNL & 866 FEL	10030	PR
49-005-24603	Wyo. Resources Corp.	C Davis 1	8	SW SW	720 FSL & 600 FWL	10120	AI
49-005-27428	Wyo. Resources Corp.	Jacobs W-34732 12-17	17	SW NW	2017 FNL & 678 FWL	10180	PR
49-005-24412	Thomas Operating Co.	Murjo 1	28	NW NW	660 FNL & 460 FWL	10200	PR
49-005-24806	Justice Oil & Gas	Ruby Fed W-59613 1	30	SW SE	473 FSL & 2166 FEL	10086	PR
Township 43 North - Range 76 West							
49-005-57548	Wyo. Resources Corp.	PBSU 1-H	1	SE NW	1530 FNL & 2204 FWL	9850	PR
49-005-25274	Wyo. Resources Corp.	Fed AP W-49754 1	1	NE SE	1980 FSL & 660 FEL	10000	AI
49-005-25273	Wyo. Resources Corp.	Scott A 1	1	NE NW	660 FNL & 1950 FWL	9950	AI
49-005-24936	Wyo. Resources Corp.	Federal AX 1	1	NE NE	660 FNL & 660 FEL	5090	AI
Township 43 North - Range 77 West							
49-019-20585	Banding M R Inc	Hatch W-52284 34-12	12	SW SE	574 FSL & 2151 FEL	9999	PR
Township 44 North - Range 75 West							
49-005-25110	XTO Energy Inc.	Hartzog Draw Unit 4083	8	NE SW	1886 FSL & 2026 FWL	9750	AI
49-005-24961	XTO Energy Inc.	Hartzog Draw Unit 4084W	8	NE SE	1147 FSL & 1151FEL	9790	AI
49-005-30080	XTO Energy Inc.	Hartzog Draw Unit 4097	9	SW SW	575 FSL & 569 FWL	9918	FL
49-005-27568	XTO Energy Inc.	Hartzog Draw Unit 4098	9	SW SE	471 FSL & 2418 FEL	9885	PR
49-005-24966	XTO Energy Inc.	Hartzog Draw Unit 4093 W	9	NE SW	1832 FSL & 1950 FWL	9909	PR
49-005-34555	XTO Energy Inc.	Hartzog Draw Unit 4651	15	NW NW	630 FNL & 395 FWL	9754	AI
49-005-28245	XTO Energy Inc.	Hartzog Draw Unit 4655	15	SW NW	2052 FNL & 983 FWL	9705	PR
49-005-34553	XTO Energy Inc.	Hartzog Draw Unit 4653	15	SE NW	2443 FNL & 2324 FWL	9780	FL
49-005-24658	XTO Energy Inc.	HDU FED W-39178 4153W	15	NE SW	1397 FSL & 1882 FWL	9775	AI
49-005-28308	XTO Energy Inc.	HDU FED W-39178 4158	15	SW SE	599 FSL & 2176 FEL	9722	AI
49-005-30043	XTO Energy Inc.	HDU State 4166	16	SW NE	2100FNL & 2061 FEL	9852	FL
49-005-25035	XTO Energy Inc.	HDU State 69-7848 4161	16	NE NW	961 FNL & 1798 FWL	9872	AI
49-005-24646	XTO Energy Inc.	HDU State 69-7848 4162W	16	NE NE	820 FNL & 939 FEL	9790	AI
49-005-24123	XTO Energy Inc.	HDU State 69-7848 4164	16	NE SE	2153 FSL & 510 FEL	9794	AI
49-005-24683	XTO Energy Inc.	HDU Fed W-35796 4222W	22	NE NE	860 FNL & 950 FEL	9656	AI
Township 44 North - Range 76 West							
49-005-25875	Wyo. Resources Corp.	Federal W-60425 1	22	SE NE	1864 FNL 100FEL	10040	PR
49-005-25616	Wyo. Resources Corp.	Christensen G 1	22	SE SE	755 FSL 760 FEL	9890	AI

*** Wyo. Oil and Gas Conservation Commission
Abbreviations found in Table D6H.1-2

Table D6H.3-1 NICHOLS RANCH AND HANK OIL WELLS 3 MILE RADIUS

API	Company	Well Name	Section	Qtr. / Qtr.	Footage	Depth	Status
49-005-25639	Wyo. Resources Corp.	Pfister D 1	23	SE SW	660 FSL & 1966 FWL	9910	AI
49-005-25575	Wyo. Resources Corp.	Pfister B Fee 1	26	NE SW	1907 FSL & 2085 FWL	9860	AI
49-005-25739	Wyo. Resources Corp.	Pfister C Fee 1	26	NW SE	1308 FSL & 1368 FEL	9920	AI
49-005-25489	Wyo. Resources Corp.	Christensen F Fee 1	26	SW NW	2026 FNL & 658 FWL	9870	PR
49-005-25413	Wyo. Resources Corp.	Stephens-Fed-W45731 41-35	35	NE NE	823 FNL & 802 FEL	9995	PR
49-005-25258	Wyo. Resources Corp.	State G 3-12556 1	36	SW SE	1000 FSL & 1980 FEL	9986	PR
49-005-25196	State F 73-12556 1	State f 73-12556 1	36	NE SW	1406 FSL & 1270 FWL	9960	PR
Township 44 North - Range 77 West							
49-019-20669	Whiting Oil & Gsa Corp.	Holler Draw Unit 35 -11	35	NE SW	2100 FSL & 2090 FWL	9977	PR
49-019-20672	Whiting Oil & Gsa Corp.	Jepson Draw unit 2-G35-I	35	SW NE	1920 FNL & 1926 FEL	9958	SI

*** Wyo. Oil and Gas Conservation Commission
Abbreviations found in Table D6H.1-2

ADDENDUM D6I:

EXPLORATION DRILL HOLES

November 2007

TABLES

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D6I.1-1 NICHOLS RANCH CURRENT EXPLORATION DRILL HOLES D6I.1-1
D6I.1-2 NICHOLS RANCH HISTORIC EXPLORATION DRILL HOLES D6I.1-5

D6I.2-1 HANK CURRENT EXPLORATION DRILL HOLES D6I.2-1
D6I.2-2 HANK HISTORIC EXPLORATION DRILL HOLES D6I.2-2

Table D6I.1-1 NICHOLS RANCH CURRENT EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Location (NAD 27)		Total Depth	Date Loged	Abandoment Method *
			2006 Drilling Program				
U06-12	43N - 76W	17	43° 41.680' N,	106° 1.546' W	160 ft.	7/17/2006	2
U06-13	43N - 76W	17	43° 41.697' N,	106° 1.276' W	520 ft.	7/17/2006	2
U06-14	43N - 76W	17	43° 41.805' N,	106° 0.880' W	180 ft.	7/18/2006	2
U06-15	43N - 76W	17	43° 41.784' N,	106° 0.914' W	180 ft.	7/18/2006	2
U06-17	43N - 76W	17	43° 41.900' N,	106° 1.571' W	240 ft.	7/17/2006	2
U06-18	43N - 76W	17	43° 41.884' N,	106° 1.427' W	600 ft.	7/21/2006	2
U06-19	43N - 76W	17	43° 42.032' N,	106° 1.544' W	600 ft.	7/14/2006	2
U06-20	43N - 76W	17	43° 42.062' N,	106° 1.080' W	200 ft.	7/11/2006	2
U06-22	43N - 76W	17	43° 42.131' N,	106° 1.453' W	300 ft.	7/13/2006	2
U06-23	43N - 76W	17	43° 42.172' N,	106° 1.560' W	280 ft.	7/13/2006	2
U06-24	43N - 76W	17	43° 42.255' N,	106° 0.762' W	300 ft.	7/7/2006	2
U06-25	43N - 76W	17	43° 42.259' N,	106° 0.471' W	300 ft.	7/7/2006	2
U06-26	43N - 76W	17	43° 42.363' N,	106° 1.021' W	300 ft.	7/7/2006	2
U06-27	43N - 76W	17	43° 42.398' N,	106° 1.187' W	320 ft.	7/5/2006	2
U06-29	43N - 76W	17	43° 42.420' N,	106° 1.206' W	300 ft.	7/5/2006	2
U06-30	43N - 76W	17	43° 42.487' N,	106° 1.344' W	315 ft.	7/6/2006	2
U06-31	43N - 76W	17	43° 42.497' N,	106° 1.258' W	340 ft.	7/5/2006	2
U06-32	43N - 76W	17	43° 42.653' N,	106° 1.383' W	340 ft.	7/6/2006	2
U06-33	43N - 76W	17	43° 42.644' N,	106° 1.309' W	360 ft.	7/6/2006	2
U06-72	43N - 76W	17	43° 42.431' N,	106° 1.216' W	300 ft.	7/11/2006	2
U06-73	43N - 76W	17	43° 42.641' N,	106° 1.254' W	400 ft.	7/11/2006	2
U06-74	43N - 76W	17	43° 42.031' N,	106° 1.12' 2W	200 ft.	7/13/2006	2
U06-75	43N - 76W	17	43° 42.032' N,	106° 1.112' W	200 ft.	7/13/2006	2
U06-76	43N - 76W	17	43° 42.104' N,	106° 1.401' W	280 ft.	7/14/2006	2
U06-77	43N - 76W	17	43° 42.078' N,	10°6 1.343' W	280 ft.	7/14/2006	2
U06-78	43N - 76W	17	43° 41.680' N,	106° 1.522' W	140 ft.	7/19/2006	2
U06-79	43N - 76W	17	43° 41.691' N,	106° 1.321' W	540 ft.	7/19/2006	2
U06-80	43N - 76W	17	43° 41.751' N,	106° 0.966' W	160 ft.	7/18/2006	2
U06-81	43N - 76W	17	43° 41.724' N,	106° 0.996' W	180 ft.	7/18/2006	2
U06-82	43N - 76W	17	43° 41.734' N,	106° 0.978' W	140 ft.	7/18/2006	2
U06-83	43N - 76W	17	43° 41.743' N,	106° 0.972' W	140 ft.	7/18/2006	2
U06-84	43N - 76W	17	43° 41.680' N,	106° 1.510' W	140 ft.	7/19/2006	2
U06-85	43N - 76W	17	43° 41.738' N,	106° 0.977' W	140 ft.	7/19/2006	2
U06-86	43N - 76W	17	43° 41.900' N,	106° 1.592' W	240 ft.	7/19/2006	2
U06-87	43N - 76W	17	43° 41.898' N,	106° 1.602' W	240 ft.	7/21/2006	2
U06-88	43N - 76W	17	43° 41.900' N,	106° 1.607' W	220 ft.	7/21/2006	2
U06-89	43N - 76W	17	43° 41.897' N,	106° 1.618' W	240 ft.	7/24/2006	2
U06-90	43N - 76W	17	43° 42.032' N,	106° 1.107' W	200 ft.	7/24/2006	2
U06-91	43N - 76W	17	43° 41.693' N,	106° 1.299' W	520 ft.	7/24/2006	2
U06-100 CH	43N - 76W	17	43° 42.078' N,	106° 0.992' W	530 ft.	9/7/2006	2
U06-101 CH	43N - 76W	17	43° 42.289' N,	106° 1.311' W	700 ft.	9/13/2006	2
			2007 Drilling Program				
U07N - 1	43N - 76W	17	43° 41.862' N,	106° 1.487' W	582 ft.	2/19/2007	2
U07N - 2	43N - 76W	17	43° 41.859' N,	106° 1.496' W	581 ft.	2/20/2007	2
U07N - 3	43N - 76W	17	43° 41.695' N,	106° 1.286' W	521 ft.	2/20/2007	2
U07N - 4	43N - 76W	17	43° 41.693' N,	106° 1.330' W	541 ft.	2/22/2007	2
U07N - 5	43N - 76W	17	43° 41.689" N,	106° 1.341' W	542 ft.	2/22/2007	2
U07N - 6	43N - 76W	17	43° 41.689' N,	106° 1.352' W	521 ft.	2/23/2007	2
U07N - 7	43N - 76W	17	43° 41.688' N,	106° 1.363' W	526 ft.	2/23/2007	2
U07N - 8	43N - 76W	17	43° 41.685' N,	106° 1.372' W	521 ft.	2/26/2007	2
U07N - 9	43N - 76W	17	43° 42.085' N,	106° 0.990' W	622 ft.	2/26/2007	2
U07N - 10	43N - 76W	17	43° 42.074' N,	106° 1.003' W	621 ft.	2/27/2007	2
U07N - 11	43N - 76W	17	43° 42.067' N,	106° 1.009' W	621 ft.	2/28/2007	2
U07N - 12	43N - 76W	17	43° 42.061' N,	106° 1.015' W	621 ft.	2/28/2007	2
U07N - 13	43N - 76W	17	43° 42.308' N,	106° 1.358' W	682 ft.	3/2/2007	2
U07N - 14	43N - 76W	17	43° 42.324' N,	106° 1.315' W	682 ft.	3/5/2007	2

* See Section D6.5 of the text for a definition of the Abandoment Methods.

Table D6I.1-1 NICHOLS RANCH CURRENT EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Location (NAD 27)		Total Depth	Date Loged	Abandoment Method *
U07N - 15	43N - 76W	17	43° 41.880' N,	106° 1.43' 7W	600 ft.	3/6/2007	2
U07N - 16	43N - 76W	17	43° 41.885' N,	106° 1.416' W	601 ft.	3/6/2007	2
U07N - 17	43N - 76W	17	43° 41.890' N,	106° 1.406' W	600 ft.	3/8/2007	2
U07N - 18	43N - 76W	17	43° 42.049' N,	106° 1.030' W	601 ft.	3/9/2007	2
U07N - 19	43N - 76W	17	43° 42.042' N,	106° 1.038' W	602 ft.	3/9/2007	2
U07N - 20	43N - 76W	17	43° 42.055' N,	106° 1.023' W	621 ft.	3/12/2007	2
U07N - 21	43N - 76W	17	43° 42.036' N,	106° 1.046' W	621 ft.	3/13/2007	2
U07N - 22	43N - 76W	17	43° 42.463' N,	106° 1.573' W	720 ft.	3/15/2007	2
U07N - 23	43N - 76W	8	43° 42.453' N,	106° 1.590' W	720 ft.	3/16/2007	2
U07N - 24	43N - 76W	17	43° 42.466' N,	106° 1.564' W	720 ft.	3/16/2007	2
U07N - 25	43N - 76W	8	43° 42.447' N,	106° 1.601' W	720 ft.	3/19/2007	2
U07N - 26	43N - 76W	17	43° 42.471' N,	106° 1.556' W	720 ft.	3/20/2007	2
U07N - 27	43N - 76W	8	43° 42.441' N,	106° 1.609' W	720 ft.	3/20/2007	2
U07N - 28	43N - 76W	17	43° 42.476' N,	106° 1.547' W	720 ft.	3/22/2007	2
U07N - 29	43N - 76W	8	43° 42.437' N,	106° 1.619' W	720 ft.	3/23/2007	2
U07N - 30	43N - 76W	8	43° 42.432' N,	106° 1.627' W	720 ft.	3/23/2007	2
U07N - 31	43N - 76W	17	43° 41.894' N,	106° 1.396' W	600 ft.	3/26/2007	2
U07N - 32	43N - 76W	17	43° 41.89'7' N,	106° 1.386' W	600 ft.	3/27/2007	2
U07N - 33	43N - 76W	17	43° 42.046' N,	106° 1.034' W	600 ft.	4/18/2007	2
U07N - 34	43N - 76W	17	43° 42.314' N,	106° 1.349' W	650 ft.	4/23/2007	2
U07N - 35	43N - 76W	17	43° 42.323' N,	106° 1.329' W	650 ft.	4/23/2007	2
U07N - 36	43N - 76W	17	43° 42.331' N,	106° 1.307' W	660 ft.	4/24/2007	2
U07N - 37	43N - 76W	17	43° 42.300' N,	106° 1.367' W	660 ft.	4/25/2007	2
U07N - 38	43N - 76W	17	43° 42.343' N,	106° 1.304' W	660 ft.	4/25/2007	2
U07N - 39	43N - 76W	17	43° 42.348' N,	106° 1.295' W	660 ft.	4/26/2007	2
U07N - 40	43N - 76W	17	43° 42.295' N,	106° 1.374' W	640 ft.	4/27/2007	2
U07N - 41	43N - 76W	17	43° 41.698' N,	106° 1.253' W	520 ft.	4/27/2007	2
U07N - 42	43N - 76W	17	43° 42.052' N,	106° 1.026' W	620 ft.	4/30/2007	2
U07N - 43	43N - 76W	17	43° 41.701' N,	106° 1.232' W	520 ft.	4/30/2007	2
U07N - 44	43N - 76W	17	43° 42.083' N,	106° 0.993' W	620 ft.	5/1/2007	2
U07N - 45	43N - 76W	17	43° 41.700' N,	106° 1.242' W	520 ft.	5/2/2007	2
U07N - 46	43N - 76W	17	43° 42.427' N,	106° 1.634' W	720 ft.	5/2/2007	2
U07N - 47	43N - 76W	18	43° 42.446' N,	106° 1.742' W	720 ft.	5/3/2007	2
U07N - 48	43N - 76W	18	43° 42.449' N,	106° 1.765' W	700 ft.	5/4/2007	2
U07N - 49	43N - 76W	18	43° 42.450' N,	106° 1.786' W	680 ft.	5/9/2007	2
U07N - 50	43N - 76W	18	43° 42.447' N,	106° 1.753' W	680 ft.	5/10/2007	2
U07N - 51	43N - 76W	18	43° 42.452' N,	106° 1.808' W	680 ft.	5/11/2007	2
U07N - 52	43N - 76W	18	43° 42.450' N,	106° 1.799' W	680 ft.	5/11/2007	2
U07N - 53	43N - 76W	18	43° 42.452' N,	106° 1.819' W	680 ft.	5/14/2007	2
U07N - 54	43N - 76W	18	43° 42.449' N,	106° 1.775' W	700 ft.	5/15/2007	2
U07N - 55	43N - 76W	18	43° 42.453' N,	106° 1.830' W	680 ft.	5/15/2007	2
U07N - 56	43N - 76W	18	43° 42.445' N,	106° 1.731' W	680 ft.	5/16/2007	2
U07N - 57	43N - 76W	18	43° 42.454' N,	106° 1.840' W	680 ft.	5/16/2007	2
U07N - 58	43N - 76W	18	43° 42.444' N,	106° 1.720' W	680 ft.	5/17/2007	2
U07N - 59	43N - 76W	7	43° 42.496' N,	106° 1.789' W	680 ft.	5/17/2007	2
U07N - 60	43N - 76W	7	43° 42.511' N,	106° 1.779' W	680 ft.	5/18/2007	2
U07N - 61	43N - 76W	17	43° 42.153' N,	106° 1.657' W	620 ft.	5/24/2007	2
U07N - 62	43N - 76W	7	43° 42.527' N,	106° 1.771' W	660 ft.	5/21/2007	2
U07N - 63	43N - 76W	17	43° 42.160' N,	106° 1.638' W	620 ft.	5/24/2007	2
U07N - 64	43N - 76W	7	43° 42.544' N,	106° 1.715' W	660 ft.	5/24/2007	2
U07N - 65	43N - 76W	17	43° 42.170' N,	106° 1.604' W	620 ft.	5/25/2007	2
U07N - 66	43N - 76W	7	43° 42.542' N,	106° 1.776' W	660 ft.	5/24/2007	2
U07N - 67	43N - 76W	17	43° 42.157' N,	106° 1.647' W	620 ft.	6/3/2007	2
U07N - 68	43N - 76W	7	43° 42.557' N,	106° 1.779' W	660 ft.	5/25/2007	2
U07N - 69	43N - 76W	17	43° 42.179' N,	106° 1.627' W	620 ft.	6/4/2007	2
U07N - 70	43N - 76W	7	43° 42.572' N,	106° 1.783' W	640 ft.	6/3/2007	2
U07N - 71	43N - 76W	17	43° 42.029' N,	106° 1.528' W	600 ft.	6/4/2007	2
U07N - 72	43N - 76W	8	43° 42.574' N,	106° 1.682' W	660 ft.	6/4/2007	2
U07N - 73	43N - 76W	17	43° 42.031' N,	106° 1.514' W	600 ft.	6/5/2007	2
U07N - 74	43N - 76W	7	43° 42.580' N,	106° 1.784' W	620 ft.	6/4/2007	2
U07N - 75	43N - 76W	17	43° 42.028' N,	106° 1.535' W	600 ft.	6/6/2007	2

* See Section D6.5 of the text for a definition of the Abandoment Methods.

Table D6I.1-1 NICHOLS RANCH CURRENT EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Location (NAD 27)		Total Depth	Date Loged	Abandoment Method *
U07N - 76	43N - 76W	7	43° 42.565' N,	106° 1.781' W	640 ft.	6/5/2007	2
U07N - 77	43N - 76W	17	43° 42.155' N,	106° 1.652' W	620 ft.	6/11/2007	2
U07N - 78	43N - 76W	7	43° 42.550' N,	106° 1.777' W	640 ft.	6/5/2007	2
U07N - 79	43N - 76W	8	43° 42.502' N,	106° 1.682' W	660 ft.	6/11/2007	2
U07N - 80	43N - 76W	7	43° 42.519' N,	106° 1.776' W	660 ft.	6/6/2007	2
U07N - 81	43N - 76W	17	43° 42.218' N,	106° 1.220' W	640 ft.	6/13/2007	2
U07N - 82	43N - 76W	7	43° 42.505' N,	106° 1.784' W	660 ft.	6/6/2007	2
U07N - 83	43N - 76W	17	43° 42.229' N,	106° 1.205' W	640 ft.	6/14/2007	2
U07N - 84	43N - 76W	7	43° 42.506' N,	106° 1.805' W	660 ft.	6/11/2007	2
U07N - 85	43N - 76W	17	43° 42.208' N,	106° 1.239' W	630 ft.	6/14/2007	2
U07N - 86	43N - 76W	7	43° 42.475' N,	106° 1.819' W	660 ft.	6/11/2007	2
U07N - 87	43N - 76W	17	43° 42.199' N,	106° 1.252' W	660 ft.	6/15/2007	2
U07N - 88	43N - 76W	7	43° 42.482' N,	106° 1.796' W	660 ft.	6/12/2007	2
U07N - 89	43N - 76W	17	43° 42.224' N,	106° 1.212' W	640 ft.	6/15/2007	2
U07N - 90	43N - 76W	7	43° 42.542' N,	106° 1.788' W	640 ft.	6/14/2007	2
U07N - 91	43N - 76W	17	43° 42.239' N,	106° 1.199' W	660 ft.	6/18/2007	2
U07N - 92	43N - 76W	7	43° 42.525' N,	106° 1.744' W	640 ft.	6/14/2007	2
U07N - 93	43N - 76W	17	43° 42.253' N,	106° 1.172' W	640 ft.	6/18/2007	2
U07N - 94	43N - 76W	7	43° 42.476' N,	106° 1.752' W	660 ft.	6/15/2007	2
U07N - 95	43N - 76W	17	43° 42.213' N,	106° 1.230' W	640 ft.	6/19/2007	2
U07N - 96	43N - 76W	18	43° 42.445' N,	106° 1.736' W	680 ft.	6/15/2007	2
U07N - 97	43N - 76W	17	43° 42.259' N,	106° 1.165' W	640 ft.	6/19/2007	2
U07N - 98	43N - 76W	7	43° 42.466' N,	106° 1.802' W	680 ft.	6/18/2007	2
U07N - 99	43N - 76W	17	43° 42.248' N,	106° 1.181' W	640 ft.	6/20/2007	2
U07N - 100	43N - 76W	18	43° 42.422' N,	106° 1.738' W	700 ft.	6/18/2007	2
U07N - 101	43N - 76W	17	43° 42.256' N,	106° 1.169' W	640 ft.	6/20/2007	2
U07N - 102	43N - 76W	17	43° 42.429' N,	106° 1.630' W	720 ft.	6/19/2007	2
U07N - 103	43N - 76W	7	43° 42.580' N,	106° 1.727' W	640 ft.	6/21/2007	2
U07N - 104	43N - 76W	7	43° 42.501' N,	106° 1.723' W	660 ft.	6/19/2007	2
U07N - 105	43N - 76W	8	43° 42.561' N,	106° 1.658' W	660 ft.	6/21/2007	2
U07N - 106	43N - 76W	7	43° 42.542' N,	106° 1.803' W	660 ft.	6/20/2007	2
U07N - 107	43N - 76W	7	43° 42.518' N,	106° 1.703' W	660 ft.	6/22/2007	2
U07N - 108	43N - 76W	7	43° 42.564' N,	106° 1.791' W	660 ft.	6/20/2007	2
U07N - 109	43N - 76W	17	43° 41.927' N,	106° 0.873' W	580 ft.	6/22/2007	2
U07N - 110	43N - 76W	7	43° 42.482' N,	106° 1.825' W	640 ft.	6/21/2007	2
U07N - 111	43N - 76W	17	43° 41.923' N,	106° 0.882' W	580 ft.	6/25/2007	2
U07N - 112	43N - 76W	7	43° 42.509' N,	106° 1.747' W	640 ft.	6/21/2007	2
U07N - 113	43N - 76W	17	43° 41.919' N,	106° 0.893' W	580 ft.	6/25/2007	2
U07N - 114	43N - 76W	7	43° 42.492' N,	106° 1.750' W	660 ft.	6/22/2007	2
U07N - 115	43N - 76W	17	43° 41.915' N,	106° 0.902' W	580 ft.	6/26/2007	2
U07N - 116	43N - 76W	7	43° 42.486' N,	106° 1.702' W	660 ft.	6/25/2007	2
U07N - 117	43N - 76W	17	43° 41.931' N,	106° 0.863' W	580 ft.	6/26/2007	2
U07N - 118	43N - 76W	7	43° 42.475' N,	106° 1.725' W	660 ft.	6/22/2007	2
U07N - 119	43N - 76W	17	43° 41.935' N,	106° 0.853' W	580 ft.	6/27/2007	2
U07N - 120	43N - 76W	8	43° 42.470' N,	106° 1.681' W	680 ft.	6/27/2007	2
U07N - 121	43N - 76W	17	43° 41.906' N,	106° 0.922' W	580 ft.	6/27/2007	2
U07N - 122	43N - 76W	7	43° 42.486' N,	106° 1.725' W	660 ft.	6/28/2007	2
U07N - 123	43N - 76W	17	43° 41.939' N,	106° 0.843' W	580 ft.	6/28/2007	2
U07N - 124	43N - 76W	18	43° 42.433' N,	106° 1.774' W	700 ft.	6/28/2007	2
U07N - 125	43N - 76W	17	43° 41.943' N,	106° 0.833' W	580 ft.	6/28/2007	2
U07N - 126	43N - 76W	8	43° 42.487' N,	106° 1.665' W	680 ft.	6/29/2007	2
U07N - 127	43N - 76W	17	43° 41.947' N,	106° 0.823' W	580 ft.	6/29/2007	2
U07N - 128	43N - 76W	8	43° 42.476' N,	106° 1.621' W	720 ft.	6/29/2007	2
U07N - 129	43N - 76W	17	43° 42.033' N,	106° 1.565' W	550 ft.	6/29/2007	2
U07N - 130	43N - 76W	17	43° 42.271' N,	106° 1.386' W	680 ft.	8/14/2007	2
U07N - 131	43N - 76W	17	43° 42.031' N,	106° 1.588' W	547 ft.	7/2/2007	2
U07N - 132	43N - 76W	17	43° 42.306' N,	106° 1.364' W	660 ft.	8/15/2007	2
U07N - 133	43N - 76W	17	43° 42.027' N,	106° 1.642' W	560 ft.	7/20/2007	2
U07N - 134	43N - 76W	17	43° 42.030' N,	106° 1.594' W	520 ft.	8/14/2007	2
U07N - 135	43N - 76W	17	43° 42.028' N,	106° 1.609' W	660 ft.	7/3/2007	2
U07N - 136	43N - 76W	17	43° 41.698' N,	106° 1.264' W	520 ft.	8/14/2007	2

* See Section D6.5 of the text for a definition of the Abandoment Methods.

Table D6I.1-1 NICHOLS RANCH CURRENT EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Location (NAD 27)		Total Depth	Date Loged	Abandoment Method *
U07N - 137	43N - 76W	17	43° 42.027' N,	106° 1.625' W	560 ft.	7/3/2007	2
U07N - 138	43N - 76W	17	43° 42.263' N,	106° 1.398' W	640 ft.	8/15/2007	2
U07N - 139	43N - 76W	17	43° 42.030' N,	106° 1.600' W	540 ft.	7/5/2007	2
U07N - 140	43N - 76W	17	43° 42.386' N,	106° 1.435' W	700 ft.	8/16/2007	2
U07N - 141	43N - 76W	17	43° 41.795' N,	106° 1.339' W	520 ft.	8/15/2007	2
U07N - 142	43N - 76W	17	43° 42.395' N,	106° 1.419' W	700 ft.	8/17/2007	2
U07N - 143	43N - 76W	17	43° 41.626' N,	106° 1.189' W	520 ft.	8/15/2007	2
U07N - 144	43N - 76W	17	43° 42.399' N,	106° 1.412' W	680 ft.	8/17/2007	2
U07N - 145	43N - 76W	17	43° 41.627' N,	106° 1.187' W	520 ft.	8/16/2007	2
U07N - 146	43N - 76W	17	43° 42.242' N,	106° 1.430' W	640 ft.	8/16/2007	2
U07N - 147	43N - 76W	17	43° 41.628' N,	106° 1.232' W	500 ft.	8/17/2007	2
U07N - 148	43N - 76W	17	43° 42.252' N,	106° 1.413' W	640 ft.	8/20/2007	2
U07N - 149	43N - 76W	17	43° 42.247' N,	106° 1.420' W	640 ft.	8/21/2007	2
U07N - 150	43N - 76W	17	43° 42.406' N,	106° 1.393' W	680 ft.	8/22/2007	2
U07N - 151	43N - 76W	17	43° 42.377' N,	106° 1.456' W	680 ft.	8/22/2007	2
U07N - 152	43N - 76W	17	43° 42.294' N,	106° 1.684' W	740 ft.	8/24/2007	2
U07N - 153	43N - 76W	17	43° 42.287' N,	106° 1.714' W	740 ft.	8/24/2007	2
U07N - 154	43N - 76W	17	43° 42.279' N,	106° 1.768' W	700 ft.	8/27/2007	2
U07N - 155	43N - 76W	17	43° 42.372' N,	106° 1.472' W	680 ft.	8/28/2007	2
U07N - 156	43N - 76W	17	43° 42.033' N,	106° 1.577' W	600 ft.	8/28/2007	2
U07N - 157	43N - 76W	17	43° 42.358' N,	106° 1.500' W	680 ft.	8/29/2007	2
U07N - 158	43N - 76W	17	43° 42.325' N,	106° 1.440' W	680 ft.	8/29/2007	2

* See Section D6.5 of the text for a definition of the Abandoment Methods.

Table D6I.1-2 NICHOLS RANCH HISTORIC EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Coordinates ** North	Coordinates ** East	Total Depth	Date Loged	Abandoment Method *
CC-4	43N - 76W	17	115,200 ft. N	45,800 ft. E	598 ft.	4/8/1970	1
CC-5	43N - 76W	17	112,200 ft. N	44,800 ft. E	515 ft.	4/8/1970	1
CC-6	43N - 76W	17	112,000 ft. N	41,600 ft. E	598 ft.	4/8/1970	1
CC-7	43N - 76W	17	112,000 ft. N	43,200 ft. E	518 ft.	4/9/1970	1
CC-8	43N - 76W	17	112,181 ft. N	42,389 ft. E	496 ft.	8/19/1970	1
CC-9	43N - 76W	17	111,800 ft. N	42,200 ft. E	495 ft.	5/28/1971	1
CC-10	43N - 76W	17	113,400 ft. N	41,200 ft. E	594 ft.	6/7/1971	1
CC-11	43N - 76W	17	115,200 ft. N	43,400 ft. E	596 ft.	6/8/1971	1
CC-13	43N - 76W	17	115,600 ft. N	43,200 ft. E	640 ft.	5/25/1972	1
CC-14	43N - 76W	17	116,000 ft. N	43,200 ft. E	665 ft.	5/25/1972	1
CC-15	43N - 76W	17	116,400 ft. N	42,900 ft. E	662 ft.	5/26/1972	1
CC-16	43N - 76W	17	115,800 ft. N	42,800 ft. E	705 ft.	5/26/1972	1
CC-17	43N - 76W	17	112,400 ft. N	41,800 ft. E	504 ft.	6/26/1973	1
CC-18	43N - 76W	17	112,400 ft. N	42,000 ft. E	505 ft.	6/15/1973	1
CC-19	43N - 76W	17	112,800 ft. N	42,160 ft. E	519 ft.	6/15/1973	1
CC-20	43N - 76W	17	112,800 ft. N	42,000 ft. E	522 ft.	6/18/1973	1
CC-21	43N - 76W	17	113,200 ft. N	41,800 ft. E	560 ft.	6/18/1973	1
CC-22	43N - 76W	17	113,200 ft. N	41,880 ft. E	563 ft.	6/18/1973	1
CC-23	43N - 76W	17	113,200 ft. N	42,600 ft. E	542 ft.	1/31/1974	1
CC-24	43N - 76W	17	113,600 ft. N	41,600 ft. E	580 ft.	1/31/1974	1
CC-25	43N - 76W	17	113,200 ft. N	42,300 ft. E	601 ft.	2/4/1974	1
CC-26	43N - 76W	17	113,600 ft. N	41,500 ft. E	586 ft.	2/4/1974	1
CC-27	43N - 76W	17	114,003 ft. N	41,400 ft. E	566 ft.	2/4/1974	1
CC-28	43N - 76W	17	112,000 ft. N	41,800 ft. E	480 ft.	8/13/1975	1
CC-29	43N - 76W	17	112,000 ft. N	42,000 ft. E	500 ft.	8/14/1975	1
CC-30	43N - 76W	17	112,800 ft. N	41,900 ft. E	521 ft.	8/14/1975	1
CC-31	43N - 76W	17	112,400 ft. N	41,900 ft. E	498 ft.	8/14/1975	1
CC-32	43N - 76W	17	112,800 ft. N	41,950 ft. E	521 ft.	8/14/1975	1
CC-33	43N - 76W	17	114,000 ft. N	41,200 ft. E	577 ft.	4/12/1976	1
CC-34	43N - 76W	17	114,400 ft. N	41,190 ft. E	561 ft.	4/12/1976	1
CC-35	43N - 76W	17	114,676 ft. N	41,014 ft. E	562 ft.	4/12/1976	1
CC-36	43N - 76W	17	114,875 ft. N	41,000 ft. E	615 ft.	8/26/1976	1
CC-37	43N - 76W	17	115,200 ft. N	41,000 ft. E	635 ft.	8/26/1976	1
CC-38	43N - 76W	17	115,504 ft. N	41,236 ft. E	676 ft.	8/26/1976	1
CC-39	43N - 76W	17	115,664 ft. N	41,002 ft. E	735 ft.	8/27/1976	1
CC-40	43N - 76W	17	116,407 ft. N	41,050 ft. E	696 ft.	8/27/1976	1
CC-41	43N - 76W	17	115,400 ft. N	42,400 ft. E	697 ft.	9/17/1976	1
CC-42	43N - 76W	17	115,588 ft. N	42,600 ft. E	696 ft.	9/20/1976	1
CC-43	43N - 76W	17	115,111 ft. N	42,818 ft. E	676 ft.	9/20/1976	1
CC-44	43N - 76W	17	115,878 ft. N	42,492 ft. E	625 ft.	9/20/1976	1
CC-45	43N - 76W	17	115,200 ft. N	43,000 ft. E	636 ft.	9/21/1976	1
CC-46	43N - 76W	17	116,200 ft. N	42,500 ft. E	656 ft.	9/21/1976	1
CC-47	43N - 76W	17	114,800 ft. N	43,200 ft. E	635 ft.	9/21/1976	1
CC-48	43N - 76W	17	114,800 ft. N	43,000 ft. E	637 ft.	9/22/1976	1
CC-49	43N - 76W	17	114,400 ft. N	43,000 ft. E	616 ft.	9/24/1976	1
CC-51	43N - 76W	17	116,200 ft. N	42,400 ft. E	655 ft.	9/28/1976	1
CC-53	43N - 76W	17	114,325 ft. N	43,200 ft. E	614 ft.	9/28/1976	1
CC-54	43N - 76W	17	114,000 ft. N	43,636 ft. E	596 ft.	9/29/1976	1
CC-55	43N - 76W	17	114,000 ft. N	44,044 ft. E	595 ft.	9/29/1976	1
CC-56	43N - 76W	17	113,600 ft. N	44,200 ft. E	556 ft.	9/29/1976	1
CC-57	43N - 76W	17	113,600 ft. N	44,500 ft. E	556 ft.	9/29/1976	1
CC-58	43N - 76W	17	114,800 ft. N	43,615 ft. E	576 ft.	9/30/1976	1
CC-59	43N - 76W	17	116,200 ft. N	42,000 ft. E	676 ft.	9/30/1976	1
CC-60	43N - 76W	17	114,400 ft. N	44,000 ft. E	615 ft.	9/30/1976	1
CC-61	43N - 76W	17	114,400 ft. N	43,800 ft. E	596 ft.	9/30/1976	1
CC-62	43N - 76W	17	114,400 ft. N	44,400 ft. E	556 ft.	10/1/1976	1
CC-63	43N - 76W	17	116,600 ft. N	42,000 ft. E	716 ft.	10/1/1976	1
CC-64	43N - 76W	17	113,600 ft. N	44,707 ft. E	553 ft.	10/1/1976	1
CC-65	43N - 76W	17	116,600 ft. N	41,600 ft. E	715 ft.	10/1/1976	1
CC-66	43N - 76W	17	114,400 ft. N	41,000 ft. E	535 ft.	11/24/1976	1

* See Section D6.5 of the text for a definition of the Abandoment Methods.
** Coordinates are given as a company (Cleveland-Cliffs Iron) coordinate system.

Table D6I.1-2 NICHOLS RANCH HISTORIC EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Coordinates ** North	Coordinates ** East	Total Depth	Date Loged	Abandoment Method *
CC-67-W	43N - 76W	17	113,150 ft. N	41,900 ft. E	556 ft.	6/28/1977	2
CC-68-W	43N - 76W	17	115,550 ft. N	42,650 ft. E	671 ft.	6/3/1977	2
CC-69	43N - 76W	17	113,600 ft. N	44,300 ft. E	580 ft.	6/9/1978	2
CC-70	43N - 76W	17	113,600 ft. N	44,250 ft. E	582 ft.	6/13/1978	2
CC-71	43N - 76W	17	113,600 ft. N	44,350 ft. E	580 ft.	6/13/1978	2
CC-72	43N - 76W	17	116,200 ft. N	42,100 ft. E	701 ft.	11/9/1978	2
CC-73	43N - 76W	17	116,600 ft. N	41,700 ft. E	699 ft.	11/9/1978	2
CC-74	43N - 76W	17	114,400 ft. N	43,900 ft. E	600 ft.	11/9/1978	2
CC-75	43N - 76W	17	114,850 ft. N	43,620 ft. E	560 ft.	10/10/1979	2
CC-76	43N - 76W	17	114,900 ft. N	43,615 ft. E	561 ft.	10/11/1979	2
CC-77	43N - 76W	17	114,600 ft. N	43,615 ft. E	561 ft.	10/11/1979	2
CC-78	43N - 76W	17	114,150 ft. N	43,375 ft. E	540 ft.	6/6/1980	2
CC-79	43N - 76W	17	112,400 ft. N	41,950 ft. E	560 ft.	6/9/1980	2
CC-80	43N - 76W	17	112,800 ft. N	42,280 ft. E	540 ft.	6/9/1980	2
CC-81	43N - 76W	17	112,200 ft. N	44,800 ft. E	540 ft.	6/9/1980	2
CC-82	43N - 76W	17	113,550 ft. N	44,350 ft. E	560 ft.	6/9/1980	2
CC-83	43N - 76W	17	112,950 ft. N	44,800 ft. E	540 ft.	6/10/1980	2
CC-84	43N - 76W	17	114,050 ft. N	41,300 ft. E	540 ft.	6/10/1980	2
CC-85	43N - 76W	17	116,025 ft. N	42,400 ft. E	640 ft.	6/11/1980	2
CC-86	43N - 76W	17	117,800 ft. N	42,140 ft. E	515 ft.	6/11/1980	2
CC-87	43N - 76W	17	112,390 ft. N	42,200 ft. E	500 ft.	6/11/1980	2
CC-88	43N - 76W	17	114,160 ft. N	43,580 ft. E	560 ft.	6/17/1980	2
CC-89	43N - 76W	17	111,760 ft. N	42,500 ft. E	480 ft.	6/17/1980	2
CC-90	43N - 76W	17	111,760 ft. N	42,600 ft. E	480 ft.	6/17/1980	2
CC-91 - W	43N - 76W	17	114,920 ft. N	41,000 ft. E	475 ft.	8/11/1980	2
CC-92 - W	43N - 76W	17	114,400 ft. N	43,950 ft. E	478 ft.	8/12/1980	2
TE - 1	43N - 76W	17	113,601 ft. N	44,671 ft. E	576 ft.	7/29/1983	2
TE - 2	43N - 76W	17	114,405 ft. N	43,854 ft. E	619 ft.	7/29/1983	2
TE - 3	43N - 76W	17	113,405 ft. N	41,683 ft. E	578 ft.	7/22/1985	2
TE - 4	43N - 76W	17	112,412 ft. N	42,150 ft. E	554 ft.	7/22/1985	2
TE - 5	43N - 76W	17	113,600 ft. N	41,787 ft. E	579 ft.	7/22/1985	2
Y - 139	43N - 76W	17	(coordinates unknown)		598 ft.	10/15/1968	1
Y - 141	43N - 76W	17	(coordinates unknown)		600 ft.	10/15/1968	1
Y - 143	43N - 76W	17	(coordinates unknown)		600 ft.	10/16/1968	1
RAM - 1	43N - 76W	17	(coordinates unknown)		704 ft.	8/2/1990	2
RAM - 2	43N - 76W	17	(coordinates unknown)		704 ft.	8/1/1990	2
RAM - 3	43N - 76W	17	(coordinates unknown)		704 ft.	8/1/1990	2
RAM - 4	43N - 76W	17	(coordinates unknown)		703 ft.	6/27/1991	2
RAM - 5	43N - 76W	17	(coordinates unknown)		903 ft.	7/1/1991	2
RAM - 6	43N - 76W	17	(coordinates unknown)		704 ft.	6/27/1991	2
RAM - 7	43N - 76W	17	(coordinates unknown)		304 ft.	7/22/1992	2
RAM - 8	43N - 76W	17	(coordinates unknown)		655 ft.	7/22/1992	2
RAM - 9	43N - 76W	17	(coordinates unknown)		592 ft.	7/22/1992	2
RAM - 10	43N - 76W	17	(coordinates unknown)		313 ft.	7/22/1992	2

* See Section D6.5 of the text for a definition of the Abandoment Methods.
** Coordinates are given as a company (Cleveland-Cliffs Iron) coordinate system.

Table D6I.2-1 HANK CURRENT EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Location (NAD 27)		Total Depth	Date Loged	Abandoment Method *
			2006 Drilling Program				
U06-55	44N - 75W	31	43° 44.751' N,	105° 54.792' W	520 ft.	6/29/2006	2
U06-60	43N - 75W	6	43° 44.039' N,	105° 54.844' W	440 ft.	6/20/2006	2
U06-61	43N - 75W	6	43° 43.965' N,	105° 54.884' W	400 ft.	6/21/2006	2
U06-62	43N - 75W	6	43° 43.956' N,	105° 54.816' W	400 ft.	6/21/2006	2
U06-63	43N - 75W	6	43° 43.907' N,	105° 54.793' W	380 ft.	6/22/2006	2
U06-64	43N - 75W	6	43° 43.840' N,	105° 54.795' W	400 ft.	6/23/2006	2
U06-65	43N - 75W	6	43° 43.774' N,	105° 54.793' W	360 ft.	6/23/2006	2
U06-66	43N - 75W	6	43° 43.710' N,	105° 54.702' W	380 ft.	6/26/2006	2
U06-67	43N - 75W	6	43° 43.678' N,	105° 54.748' W	360 ft.	6/26/2006	2
U06-68	43N - 75W	6	43° 43.643' N,	105° 54.703' W	360 ft.	6/27/2006	2
U06-69	43N - 75W	6	43° 43.676' N,	105° 54.659' W	360 ft.	6/27/2006	2
U06-70	43N - 75W	6	43° 43.645' N,	105° 54.611' W	360 ft.	6/28/2006	2
U06-71	43N - 75W	6	43° 43.677' N,	105° 54.566' W	380 ft.	6/28/2006	2
U06-102	43N - 75W	6	43° 44.030' N,	105° 54.803' W	385 ft.	10/3/2006	2
U06-103	43N - 75W	6	43° 44.029' N,	105° 54.812' W	455 ft.	9/27/2006	2
U06-104	43N - 75W	6	43° 44.750' N,	105° 54.784' W	500 ft.	10/17/2006	2
U06-105	43N - 75W	6	43° 44.947' N,	105° 54.940' W	450 ft.	10/19/2006	2
			2007 Drilling Program				
U07H-1	43N - 75W	6	43° 44.552' N,	105° 54.899' W	480 ft.	1/30/2007	2
U07H-2	43N - 75W	6	43° 44.167' N,	105° 54.864' W	500 ft.	1/31/2007	2
U07H-3	43N - 75W	31	43° 45.014' N,	105° 54.813' W	420 ft.	8/28/2007	2
U07H-4	43N - 75W	31	43° 45.014' N,	105° 54.769' W	420 ft.	8/28/2007	2
U07H-5	43N - 75W	31	43° 45.012' N,	105° 54.743' W	420 ft.	8/29/2007	2
U07H-6	43N - 75W	31	43° 45.014' N,	105° 54.779' W	420 ft.	8/29/2007	2
U07H-7	43N - 75W	31	43° 45.013' N,	105° 54.800' W	420 ft.	8/29/2007	2

* See SectionD6.5 of the text for a definition of the Abandoment Methods.

Table D6I.2-2 HANK HISTORIC EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Coordinates ** North	Coordinates ** East	Total Depth	Date Loged	Abandoment Method *
DN - 1	43N - 75W	5	(coordinates unknown)		982 ft.	2/15/1969	1
CC-2	43N - 75W	5	124,800 ft. N	75,400 ft. E	1201 ft.	4/16/1969	1
CC-3	43N - 75W	5	123,200 ft. N	73,200 ft. E	357 ft.	12/11/1969	1
CC-4	43N - 75W	5	123,200 ft. N	73,600 ft. E	360 ft.	12/11/1969	1
CC-5	43N - 75W	5	122,800 ft. N	73,600 ft. E	359 ft.	12/11/1969	1
CC-6	43N - 75W	5	123,200 ft. N	74,000 ft. E	380 ft.	12/11/1969	1
CC-7	43N - 75W	5	122,800 ft. N	74,000 ft. E	400 ft.	12/11/1969	1
CC-8	43N - 75W	5	122,400 ft. N	74,000 ft. E	401 ft.	12/12/1969	1
CC-9	43N - 75W	5	122,375 ft. N	73,675 ft. E	394 ft.	12/10/1969	1
CC-10	43N - 75W	5	122,800 ft. N	73,200 ft. E	357 ft.	12/12/1969	1
CC-11	43N - 75W	5	122,400 ft. N	73,200 ft. E	380 ft.	12/12/1969	1
CC-12	43N - 75W	5	122,000 ft. N	73,200 ft. E	360 ft.	12/12/1969	1
CC-13	43N - 75W	5	122,000 ft. N	73,300 ft. E	359 ft.	6/29/1972	1
CC-14	43N - 75W	5	122,800 ft. N	73,650 ft. E	363 ft.	6/29/1972	1
CC-15	43N - 75W	5	122,000 ft. N	73,350 ft. E	359 ft.	6/29/1972	1
CC-16	43N - 75W	5	123,000 ft. N	73,650 ft. E	372 ft.	6/29/1972	1
CC-17	43N - 75W	5	122,400 ft. N	73,400 ft. E	358 ft.	6/29/1972	1
CC-18	43N - 75W	5	122,900 ft. N	73,600 ft. E	362 ft.	6/29/1972	1
CC-19	43N - 75W	5	122,800 ft. N	73,575 ft. E	363 ft.	6/29/1972	1
CC-20	43N - 75W	5	122,600 ft. N	73,600 ft. E	360 ft.	6/29/1972	1
CC-21	43N - 75W	5	122,200 ft. N	73,395 ft. E	360 ft.	6/30/1972	1
CC-22	43N - 75W	5	123,200 ft. N	73,700 ft. E	374 ft.	6/30/1972	1
CC-27	43N - 75W	6	124,800 ft. N	71,200 ft. E	336 ft.	12/8/1969	1
CC-28	43N - 75W	6	125,200 ft. N	71,200 ft. E	352 ft.	12/8/1969	1
CC-29	43N - 75W	6	125,200 ft. N	71,600 ft. E	359 ft.	12/9/1969	1
CC-30	43N - 75W	6	124,800 ft. N	71,600 ft. E	360 ft.	12/9/1969	1
CC-31	43N - 75W	6	124,400 ft. N	71,600 ft. E	356 ft.	12/9/1969	1
CC-32	43N - 75W	6	124,000 ft. N	71,600 ft. E	354 ft.	12/9/1969	1
CC-33	43N - 75W	6	124,000 ft. N	72,000 ft. E	356 ft.	12/9/1969	1
CC-34	43N - 75W	6	124,400 ft. N	71,200 ft. E	344 ft.	12/9/1969	1
CC-35	43N - 75W	6	123,600 ft. N	71,600 ft. E	338 ft.	12/10/1969	1
CC-36	43N - 75W	6	123,600 ft. N	72,600 ft. E	362 ft.	12/10/1969	1
CC-37	43N - 75W	6	123,600 ft. N	72,400 ft. E	363 ft.	12/10/1969	1
CC-38	43N - 75W	6	123,200 ft. N	72,400 ft. E	334 ft.	12/10/1969	1
CC-39	43N - 75W	6	123,600 ft. N	72,800 ft. E	361 ft.	12/10/1969	1
CC-40	43N - 75W	6	124,600 ft. N	72,400 ft. E	354 ft.	12/10/1969	1
CC-41	43N - 75W	6	123,200 ft. N	72,800 ft. E	360 ft.	12/11/1969	1
CC-42	43N - 75W	6	125,600 ft. N	71,400 ft. E	380 ft.	11/24/1973	1
CC-43	43N - 75W	6	125,600 ft. N	71,200 ft. E	380 ft.	11/29/1969	1
CC-44	43N - 75W	6	126,000 ft. N	71,200 ft. E	380 ft.	11/30/1969	1
CC-45	43N - 75W	6	126,000 ft. N	71,400 ft. E	420 ft.	11/30/1969	1
CC-46	43N - 75W	6	126,400 ft. N	71,400 ft. E	460 ft.	12/1/1969	1
CC-47	43N - 75W	6	126,400 ft. N	71,500 ft. E	460 ft.	12/1/1973	1
CC-48	43N - 75W	6	126,800 ft. N	71,500 ft. E	482 ft.	12/1/1973	1
CC-49	43N - 75W	6	126,800 ft. N	71,300 ft. E	520 ft.	12/1/1973	1
CC-50	43N - 75W	6	126,800 ft. N	70,900 ft. E	460 ft.	12/3/1973	1
CC-51	43N - 75W	6	127,000 ft. N	71,000 ft. E	460 ft.	12/3/1973	1
CC-52	43N - 75W	6	122,400 ft. N	68,645 ft. E	463 ft.	12/4/1973	1
CC-53	43N - 75W	6	122,800 ft. N	68,800 ft. E	454 ft.	12/10/1973	1
CC-66	43N - 75W	6	126,000 ft. N	71,450 ft. E	436 ft.	3/13/1974	1
CC-67	43N - 75W	6	126,000 ft. N	71,425 ft. E	436 ft.	3/14/1974	1
CC-68	43N - 75W	6	126,050 ft. N	71,450 ft. E	441 ft.	3/14/1974	1
CC-69	43N - 75W	6	126,050 ft. N	71,400 ft. E	443 ft.	3/14/1974	1
CC-70	43N - 75W	6	126,050 ft. N	71,350 ft. E	444 ft.	3/15/1974	1
CC-71	43N - 75W	6	126,100 ft. N	71,350 ft. E	444 ft.	3/15/1974	1
CC-72	43N - 75W	6	126,100 ft. N	71,400 ft. E	438 ft.	3/15/1974	1

* See Section D6.5 of the text for a definition of the Abandoment Methods.
** Coordinates are given as a company (Cleveland-Cliffs Iron) coordinate system.

Table D6I.2-2 HANK HISTORIC EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Coordinates ** North	Coordinates ** East	Total Depth	Date Loged	Abandoment Method *
CC-73	43N - 75W	6	126,150 ft. N	71,400 ft. E	444 ft.	3/18/1974	1
CC-74	43N - 75W	6	126,150 ft. N	71,450 ft. E	444 ft.	3/19/1974	1
CC-75	43N - 75W	6	126,200 ft. N	71,425 ft. E	440 ft.	3/20/1974	1
CC-76	43N - 75W	6	126,100 ft. N	71,300 ft. E	441 ft.	3/21/1974	1
CC-77	43N - 75W	6	126,200 ft. N	71,350 ft. E	440 ft.	3/22/1974	1
CC-78	43N - 75W	6	126,200 ft. N	71,375 ft. E	443 ft.	3/25/1974	1
							1
CC-13	43N - 75W	7	120,800 ft. N	72,800 ft. E	338 ft.	12/13/1969	1
CC-14	43N - 75W	7	120,450 ft. N	72,700 ft. E	347 ft.	12/13/1969	1
CC-15	43N - 75W	7	119,600 ft. N	72,800 ft. E	337 ft.	12/15/1969	1
CC-16	43N - 75W	7	119,200 ft. N	72,800 ft. E	380 ft.	12/15/1969	1
CC-17	43N - 75W	7	119,600 ft. N	72,400 ft. E	336 ft.	12/15/1969	1
CC-18	43N - 75W	7	119,200 ft. N	72,400 ft. E	342 ft.	12/15/1969	1
CC-19	43N - 75W	7	118,800 ft. N	72,400 ft. E	358 ft.	12/16/1969	1
CC-20	43N - 75W	7	118,800 ft. N	72,800 ft. E	395 ft.	12/16/1969	1
CC-21	43N - 75W	7	118,400 ft. N	72,800 ft. E	400 ft.	12/16/1969	1
CC-22	43N - 75W	7	118,365 ft. N	72,339 ft. E	382 ft.	12/16/1969	1
CC-23	43N - 75W	7	118,000 ft. N	72,800 ft. E	400 ft.	12/16/1969	1
CC-24	43N - 75W	7	118,000 ft. N	72,850 ft. E	401 ft.	6/26/1972	1
CC-25	43N - 75W	7	118,800 ft. N	72,700 ft. E	392 ft.	6/26/1972	1
CC-26	43N - 75W	7	118,000 ft. N	72,900 ft. E	402 ft.	6/26/1972	1
CC-27	43N - 75W	7	118,000 ft. N	72,750 ft. E	401 ft.	6/27/1972	1
CC-28	43N - 75W	7	118,800 ft. N	72,750 ft. E	401 ft.	6/27/1972	1
CC-29	43N - 75W	7	118,400 ft. N	72,850 ft. E	402 ft.	6/27/1972	1
CC-30	43N - 75W	7	119,000 ft. N	72,850 ft. E	396 ft.	6/27/1972	1
CC-31	43N - 75W	7	118,200 ft. N	72,850 ft. E	379 ft.	6/27/1972	1
CC-32	43N - 75W	7	118,600 ft. N	72,750 ft. E	383 ft.	6/27/1972	1
CC-33	43N - 75W	7	119,200 ft. N	72,850 ft. E	379 ft.	6/27/1972	1
CC-34	43N - 75W	7	119,600 ft. N	72,850 ft. E	340 ft.	6/28/1972	1
CC-35	43N - 75W	7	118,200 ft. N	72,800 ft. E	382 ft.	6/28/1972	1
CC-36	43N - 75W	7	118,200 ft. N	72,900 ft. E	382 ft.	6/28/1972	1
CC-37	43N - 75W	7	119,800 ft. N	72,825 ft. E	320 ft.	6/28/1972	1
CC-38	43N - 75W	7	118,600 ft. N	72,800 ft. E	383 ft.	6/28/1972	1
CC-39	43N - 75W	7	119,400 ft. N	72,900 ft. E	340 ft.	6/28/1972	1
CC-40	43N - 75W	7	119,600 ft. N	72,775 ft. E	342 ft.	6/28/1972	1
CC-41	43N - 75W	7	119,400 ft. N	72,850 ft. E	340 ft.	6/28/1972	1
CC-42	43N - 75W	7	119,600 ft. N	72,825 ft. E	320 ft.	8/13/1975	1
CC-# 6 - 8	43N - 75W	8	118,600 ft. N	76,600 ft. E	1161 ft.	2/14/1969	1
CC-7	43N - 75W	8	121,600 ft. N	73,600 ft. E	360 ft.	12/12/1969	1
CC-8	43N - 75W	8	121,575 ft. N	73,250 ft. E	357 ft.	12/12/1969	1
CC-9	43N - 75W	8	121,200 ft. N	73,200 ft. E	342 ft.	12/13/1969	1
CC-10	43N - 75W	8	121,200 ft. N	73,600 ft. E	357 ft.	12/13/1969	1
CC-11	43N - 75W	8	120,800 ft. N	73,200 ft. E	339 ft.	12/13/1969	1
CC-12	43N - 75W	8	120,800 ft. N	73,600 ft. E	337 ft.	12/13/1969	1
CC-13	43N - 75W	8	121,925 ft. N	73,600 ft. E	374 ft.	12/12/1969	1
CC-14	43N - 75W	8	120,400 ft. N	73,200 ft. E	340 ft.	12/15/1969	1
CC-15	43N - 75W	8	120,050 ft. N	73,225 ft. E	340 ft.	12/15/1969	1
CC-16	43N - 75W	8	121,810 ft. N	73,400 ft. E	362 ft.	6/30/1972	1
CC-17	43N - 75W	8	121,200 ft. N	73,300 ft. E	360 ft.	6/30/1972	1
CC-18	43N - 75W	8	121,600 ft. N	73,300 ft. E	342 ft.	6/30/1972	1
CC-19	43N - 75W	8	121,200 ft. N	73,225 ft. E	339 ft.	6/30/1972	1
CC-20	43N - 75W	8	121,400 ft. N	73,275 ft. E	342 ft.	6/30/1972	1
CC-21	43N - 75W	8	121,000 ft. N	73,200 ft. E	339 ft.	6/30/1972	1
CC-22	43N - 75W	8	120,800 ft. N	73,000 ft. E	339 ft.	7/1/1972	1
CC-23	43N - 75W	8	120,400 ft. N	73,000 ft. E	339 ft.	7/1/1972	1
CC-24	43N - 75W	8	120,800 ft. N	73,100 ft. E	340 ft.	7/1/1972	1

* See Section D6.5 of the text for a definition of the Abandoment Methods.
** Coordinates are given as a company (Cleveland-Cliffs Iron) coordinate system.

Table D6I.2-2 HANK HISTORIC EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Coordinates ** North	Coordinates ** East	Total Depth	Date Loged	Abandoment Method *
CC-25	43N - 75W	8	120,400 ft. N	72,980 ft. E	336 ft.	7/1/1972	1
CC-# 3-31	44N - 75W	31	131,200 ft. N	72,200 ft. E	1141 ft.	4/15/1969	1
CC-4	44N - 75W	31	127,600 ft. N	71,200 ft. E	500 ft.	12/3/1973	1
CC-5	44N - 75W	31	127,600 ft. N	71400 ft. E	520 ft.	12/3/1973	1
CC-6	44N - 75W	31	129,165 ft. N	72000 ft. E	600 ft.	12/4/1973	1
CC-7	44N - 75W	31	129,200 ft. N	71,400 ft. E	480 ft.	12/4/1973	1
CC-8	44N - 75W	31	129,200 ft. N	71,200 ft. E	460 ft.	12/5/1973	1
CC-9	44N - 75W	31	129,600 ft. N	71,325 ft. E	460 ft.	12/5/1973	1
CC-10	44N - 75W	31	132,400 ft. N	68,800 ft. E	768 ft.	2/17/1970	1
CC-10-A	44N - 75W	31	129,650 ft. N	71,175 ft. E	460 ft.	12/5/1973	1
CC-11	44N - 75W	31	130,000 ft. N	71,350 ft. E	450 ft.	12/5/1973	1
CC-12	44N - 75W	31	130,010 ft. N	71,250 ft. E	443 ft.	12/10/1973	1
CC-13	44N - 75W	31	130,400 ft. N	71,400 ft. E	503 ft.	12/10/1973	1
CC-14	44N - 75W	31	130,800 ft. N	71,400 ft. E	522 ft.	12/10/1973	1
CC-15	44N - 75W	31	130,400 ft. N	71,450 ft. E	503 ft.	12/10/1973	1
CC-16	44N - 75W	31	130,800 ft. N	71,600 ft. E	482 ft.	12/11/1973	1
CC-17	44N - 75W	31	127,600 ft. N	71,250 ft. E	481 ft.	12/11/1973	1
CC-18	44N - 75W	31	127,600 ft. N	71,150 ft. E	474 ft.	12/11/1973	1
CC-19	44N - 75W	31	131,200 ft. N	71,600 ft. E	462 ft.	12/11/1973	1
CC-20	44N - 75W	31	131,200 ft. N	71,800 ft. E	443 ft.	12/11/1973	1
CC-21	44N - 75W	31	130,400 ft. N	71,500 ft. E	504 ft.	12/11/1973	1
CC-22	44N - 75W	31	127,650 ft. N	71,225 ft. E	545 ft.	3/18/1974	1
CC-23	44N - 75W	31	127,600 ft. N	71,225 ft. E	465 ft.	3/18/1974	1
CC-24	44N - 75W	31	127,650 ft. N	71,175 ft. E	465 ft.	3/19/1974	1
CC-25	44N - 75W	31	127,650 ft. N	71,125 ft. E	464 ft.	3/19/1974	1
CC-26	44N - 75W	31	127,600 ft. N	71,175 ft. E	462 ft.	3/20/1974	1
CC-27	44N - 75W	31	127,550 ft. N	71,275 ft. E	480 ft.	3/21/1974	1
CC-28	44N - 75W	31	127,550 ft. N	71,225 ft. E	485 ft.	3/21/1974	1
CC-29	44N - 75W	31	127,550 ft. N	71,175 ft. E	465 ft.	3/22/1974	1
CC-30	44N - 75W	31	127,650 ft. N	71,150 ft. E	464 ft.	3/22/1974	1
CC-31	44N - 75W	31	130,100 ft. N	71,350 ft. E	465 ft.	3/25/1974	1
CC-32	44N - 75W	31	130,050 ft. N	71,350 ft. E	465 ft.	3/25/1974	1
CC-33	44N - 75W	31	127,550 ft. N	71,200 ft. E	485 ft.	3/26/1974	1
CC-34	44N - 75W	31	127,500 ft. N	71,200 ft. E	484 ft.	3/26/1974	1
CC-35	44N - 75W	31	127,550 ft. N	71,150 ft. E	460 ft.	3/26/1974	1
CC-36	44N - 75W	31	127,500 ft. N	71,175 ft. E	481 ft.	3/26/1974	1
CC-37	44N - 75W	31	130,050 ft. N	71,300 ft. E	463 ft.	3/27/1974	1
CC-38	44N - 75W	31	130,100 ft. N	71,300 ft. E	464 ft.	3/27/1974	1
CC-39	44N - 75W	31	131,200 ft. N	71,700 ft. E	445 ft.	3/27/1974	1
CC-40	44N - 75W	31	131,200 ft. N	71,650 ft. E	445 ft.	3/27/1974	1
CC-41	44N - 75W	31	131,250 ft. N	71,650 ft. E	445 ft.	3/28/1974	1
CC-42	44N - 75W	31	131,200 ft. N	71,625 ft. E	444 ft.	3/28/1974	1
CC-43	44N - 75W	31	130,000 ft. N	71,300 ft. E	464 ft.	3/28/1974	1
CC-44	44N - 75W	31	130,050 ft. N	71,325 ft. E	465 ft.	3/28/1974	1
CC-45	44N - 75W	31	130,000 ft. N	71,325 ft. E	464 ft.	3/29/1974	1
CC-46	44N - 75W	31	130,100 ft. N	71,250 ft. E	464 ft.	3/29/1974	1
CC-47	44N - 75W	31	131,250 ft. N	71,700 ft. E	445 ft.	3/29/1974	1
CC-48	44N - 75W	31	131,295 ft. N	71,675 ft. E	444 ft.	3/29/1974	1
CC-49	44N - 75W	31	131,300 ft. N	71,750 ft. E	445 ft.	4/1/1974	1
CC-50	44N - 75W	31	131,350 ft. N	71,750 ft. E	445 ft.	4/1/1974	1
CC-51	44N - 75W	31	131,350 ft. N	71,800 ft. E	446 ft.	4/1/1974	1
CC-52	44N - 75W	31	130,150 ft. N	71,350 ft. E	466 ft.	4/1/1974	1
CC-53	44N - 75W	31	130,150 ft. N	71,300 ft. E	466 ft.	4/1/1974	1
CC-54	44N - 75W	31	130,150 ft. N	71,400 ft. E	465 ft.	4/2/1974	1
CC-55	44N - 75W	31	128,800 ft. N	70,800 ft. E	245 ft.	4/2/1974	1
CC-56	44N - 75W	31	128,000 ft. N	71,000 ft. E	480 ft.	4/2/1974	1

* See Section D6.5 of the text for a definition of the Abandoment Methods.

** Coordinates are given as a company (Cleveland-Cliffs Iron) coordinate system.

Table D6I.2-2 HANK HISTORIC EXPLORATION DRILL HOLES

Hole #	Township / Range	Sec.	Coordinates ** North	Coordinates ** East	Total Depth	Date Loged	Abandoment Method *
CC-57	44N - 75W	31	128,000 ft. N	70,900 ft. E	483 ft.	4/4/1974	1
CC-58	44N - 75W	31	130,100 ft. N	71,325 ft. E	464 ft.	4/4/1974	1
CC-59	44N - 75W	31	130,025 ft. N	71,350 ft. E	437 ft.	8/7/1975	1
CC-60	44N - 75W	31	131,025 ft. N	71,600 ft. E	460 ft.	6/2/1980	2
CC-61	44N - 75W	31	129,200 ft. N	71,300 ft. E	480 ft.	6/2/1980	2
CC-62	44N - 75W	31	129,150 ft. N	71,249 ft. E	456 ft.	6/3/1980	2
CC-63	44N - 75W	31	129,200 ft. N	71,250 ft. E	460 ft.	6/4/1980	2
CC-64	44N - 75W	31	129,247 ft. N	71,270 ft. E	460 ft.	6/4/1980	2
CC-65	44N - 75W	31	132,400 ft. N	69,200 ft. E	820 ft.	5/15/1981	2
CC-66	44N - 75W	31	130,800 ft. N	69,200 ft. E	820 ft.	5/15/1981	2
CC-67	44N - 75W	31	129,525 ft. N	69,200 ft. E	820 ft.	5/29/1981	2
CC-68	44N - 75W	31	131,800 ft. N	71,800 ft. E	850 ft.	5/29/1981	2
CC-69	44N - 75W	31	132,200 ft. N	71,600 ft. E	419 ft.	6/1/1981	2
CC-70	44N - 75W	31	132,200 ft. N	71,400 ft. E	420 ft.	6/1/1981	2
CC-71	44N - 75W	31	132,200 ft. N	71,000 ft. E	400 ft.	6/1/1981	2
CC-72	44N - 75W	31	132,600 ft. N	70,800 ft. E	376 ft.	6/1/1981	2
CC-73	44N - 75W	31	132,600 ft. N	70,200 ft. E	400 ft.	6/1/1981	2
CC-74	44N - 75W	31	132,200 ft. N	69,400 ft. E	820 ft.	6/11/1982	2
CC-75	44N - 75W	31	132,600 ft. N	70,000 ft. E	800 ft.	6/14/1982	2
CC-76	44N - 75W	31	131,800 ft. N	69,200 ft. E	800 ft.	6/14/1982	2
CC-77	44N - 75W	31	131,400 ft. N	69,200 ft. E	800 ft.	6/15/1982	2
CC-78	44N - 75W	31	131,800 ft. N	69,600 ft. E	820 ft.	6/15/1982	2
CC-79	44N - 75W	31	131,400 ft. N	69,600 ft. E	820 ft.	6/15/1982	2
CC-80	44N - 75W	31	131,800 ft. N	70,600 ft. E	800 ft.	6/28/1982	2
TE - 1C	44N - 75W	31	131,741 ft. N	70,581 ft. E	358 ft.	8/6/1983	2
TE - 1	44N - 75W	31	131,758 ft. N	70,595 ft. E	417 ft.	7/22/1983	2
TE - 2	44N - 75W	31	132,152 ft. N	71,599 ft. E	417 ft.	7/22/1983	2
TE - 3	44N - 75W	31	131,795 ft. N	71,515 ft. E	437 ft.	7/25/1983	2
TE - 4	44N - 75W	31	131,937 ft. N	70,232 ft. E	417 ft.	7/25/1983	2
TE - 5	44N - 75W	31	131,792 ft. N	71,470 ft. E	417 ft.	7/25/1983	2
TE - 6	44N - 75W	31	132,040 ft. N	71,700 ft. E	416 ft.	7/25/1983	2
TE - 7	44N - 75W	31	132,179 ft. N	70,020 ft. E	437 ft.	7/26/1983	2
TE - 8	44N - 75W	31	131,930 ft. N	70,187 ft. E	417 ft.	7/26/1983	2
TE - 9	44N - 75W	31	131,719 ft. N	70,946 ft. E	437 ft.	7/26/1983	2
TE - 10	44N - 75W	31	131,722 ft. N	70,593 ft. E	417 ft.	7/26/1983	2
TE - 11	44N - 75W	31	131,927 ft. N	70,919 ft. E	437 ft.	7/27/1983	2
TE - 12	44N - 75W	31	132,035 ft. N	70,907 ft. E	438 ft.	6/29/1984	2
TE - 13	44N - 75W	31	131,587 ft. N	71,304 ft. E	438 ft.	7/5/1984	2
TE - 14	44N - 75W	31	131,752 ft. N	70,913 ft. E	438 ft.	6/29/1984	2
TE - 15	44N - 75W	31	132,603 ft. N	69,729 ft. E	435 ft.	6/29/1984	2
TE - 16	44N - 75W	31	132,187 ft. N	70,252 ft. E	435 ft.	7/2/1984	2
TE - 17	44N - 75W	31	132,601 ft. N	69,962 ft. E	413 ft.	7/2/1984	2
TE - 18	44N - 75W	31	132,204 ft. N	70,144 ft. E	421 ft.	7/2/1984	2
TE - 19	44N - 75W	31	132,609 ft. N	69,846 ft. E	388 ft.	7/3/1984	2
TE - 20	44N - 75W	31	130,586 ft. N	71,137 ft. E	517 ft.	7/5/1984	2
TE - 21	44N - 75W	31	132,193 ft. N	70,191 ft. E	418 ft.	7/3/1984	2
TE - 22	44N - 75W	31	132,606 ft. N	69,910 ft. E	398 ft.	7/3/1984	2
TE - 23	44N - 75W	31	132,185 ft. N	70,225 ft. E	411 ft.	7/3/1984	2
TE - 24	44N - 75W	31	132,603 ft. N	69,881 ft. E	397 ft.	7/15/1985	2
TE - 25	44N - 75W	31	132,604 ft. N	69,926 ft. E	397 ft.	7/15/1985	2
TE - 26	44N - 75W	31	131,643 ft. N	71,801 ft. E	418 ft.	7/16/1985	2
TE - 27	44N - 75W	31	130,841 ft. N	71,557 ft. E	497 ft.	7/16/1985	2

* See Section D6.5 of the text for a definition of the Abandoment Methods.
** Coordinates are given as a company (Cleveland-Cliffs Iron) coordinate system.

ADDENDUM D6J:

AQUIFER-TEST THEORY

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AQUIFER-TEST THEORY ADDENDUM D6J

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D6J.1 AQUIFER-TEST THEORY

In order to determine fluid movement through an aquifer, a number of characteristics must be taken into account. Transmissivity is defined as the ability of an aquifer to transmit water and is usually expressed as gallons per day per foot (gal/day/ft). Transmissivity, expressed in these units, is the rate at which water flows through a unit width of an aquifer under a unit hydraulic gradient[2]. Transmissivity must be adjusted by the actual aquifer width and hydraulic gradient to determine actual aquifer flow rates.

Horizontal hydraulic conductivity (permeability) of the aquifer is the transmissivity divided by the aquifer thickness. Permeability is the main parameter that governs the velocity of groundwater movement. Hydraulic gradient and effective porosity are also needed with permeability to determine the velocity.

The storage coefficient, as defined by Theis, is the volume of water an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in head. The storage coefficient is dimensionless. An unconfined aquifer derives water from compression of the aquifer and expansion of the water.

D6J.1.1 THEIS EQUATION

Theis, in 1935, introduced his equation to determine drawdowns in a non-leaky, confined aquifer. The following is a general definition of the Theis equation:

$$T = \frac{114.6Q\,W(u)}{s}$$

$$u = \frac{2693r^2S}{Tt}$$

where: s = drawdown, in feet
Q = discharge, in gallons per minute (gpm)
W(u) = well function, the integral from u to infinity of $(e^{-u})/u\,du$
T = Transmissivity
u = well function variable
r = observation well radius from pumping well, in feet
S = storage coefficient
and t = time since pumping started, in minutes

Pump test data are analyzed by matching the log-log plot of drawdown versus time to Theis' type curve [W(u) vs. 1/u] and applying the above equations to the match[3].
The value of the integral expression for W(u) is given by the following series:

$$W(u) = -0.577216 - \ln u + u - \frac{u^2}{2.2!} + \frac{u^3}{3.3!} \ldots$$

where all terms are as previously defined.

D6J.1.1.1 STRAIGHT LINE EQUATION

Jacob developed a simplified form of Theis' drawdown equation by truncating the well function series after the first two terms. Assuming the truncation, the following equations were developed to analyze drawdown versus time data on semi-log plots and are called the straight-line or Jacob equation:

$$T = 264\ Q[\log (t_2/t_1)]/(s_2-s_1)$$
$$T = 264\ Q/\Delta s$$
$$S = T\ t_\circ/4800r^2$$

s_1 = drawdown, in feet, at time since pumping started, t_1, in minutes
s_2 = drawdown, in feet, at time since pumping started, t_2, in minutes
and $t_2 > t_1$
Δs = change in drawdown over one log cycle of time on a semi-log Plot, in feet
S = storage coefficient
$t_\circ$ = straight-line intercept of zero drawdown, in minutes
r = radius of well, in feet

A straight line is fitted to the semi-log plot of drawdown versus time (log scale) to obtain transmissivity. Jacob suggested the u values less than 0.01 are needed before his straight-line method is useful. However, a plot of W(u) versus 1/u on semi-log paper indicates that this method should be applicable for values of u as large as 0.1. Kruseman and de Rider (1991) suggest the use of a u of less than 0.1 to meet the Jacob condition[4].

D6J.1.1.2 THEIS RECOVERY EQUATION

Theis' equation can be modified to handle recharge of a well or multiple pumping periods by summation of the well functions. The following equation is the solution of Theis' equation for one pumping and recharge cycle (Recovery equation) of a non-leaky confined aquifer using a log-log match format:

$$T = 114.6\ Q\ [W(u) - W(u')]s'$$
$$u^1 = 2693\ r^2\ S/Tt'$$
$$T = 114.6\ Q\ [W(u) - W(u) + W(u')]\ sr$$
$$= 114.6\ Q\ W(u')/sr$$
$$s_r = s - s'$$

where: s_r = recovery, in feet

s' = residual drawdown (static water level – water level @ t'), in feet

$W(u')$ = recovery well function
u' = recovery well function variable
t' = time since pumping stopped, in minutes

The recovery data sets are analyzed by matching the log-log plot of the recovery versus time since pumping stopped to Theis' type curve. The type curve variables are $W(u')$ and $1/u'$ for the recovery match. The recovery is computed by estimating the drawdown which would have occurred if pumping had continued, and subtracting this predicted drawdown from the residual drawdown. For example, the recovery at 100 minutes after pumping has stopped is computed by estimating the drawdown had the pumping continued uninterrupted, and subtracting the estimated drawdown from the residual drawdown. The straight-line fit of the drawdown is normally extended to obtain these estimates of drawdown.

The well functions of the residual-drawdown form of Theis' equation were approximated by using the first two terms in the well function series. The following equations present the semi-log form of the Theis recovery equation:

$$T = 264\ Q\ [\log (t/t')]/s'$$

or

$$T = 264\ Q/\Delta s'$$

where: t = time since pumping started, in minutes
t' = time since pumping stopped, in minutes
s' = residual drawdown, in feet
and $\Delta s'$ = change in residual drawdown over one log cycle of t/t' on a semi-log plot, in feet

Therefore, when residual drawdown is plotted on an arithmetic scale versus t/t' on a logarithmic scale, the above equation can be used for the straight line fit[5]. The Theis equations were used to analyze data from the PW1 test.

D6J.1.1.3 MULTI-WELL THEIS EQUATION

The Theis equation can be modified to predict drawdown from more than one pumping well. Stallman[6] used the well function summation theory to develop type curves for a variable discharge pump test. HYDRO has used the well summation theory to analyze numerous pump tests with more than one pumping well. The sum of the $W(u)$ times Q values that are plotted versus $1/u_1$, on log-log paper to create the type curves. The following equations are for two pumping wells that start pumping at the same time:

$$T = 114.6/s\ [W(u_1)Q_1 + W(u_2)Q_2]$$
$$W(u1) = -0.577216 - \ln u_1 + u_1 - u_1^2/2.2! + u_1^3/3.3! - u_1^4/4.4!$$
$$u_1 = 1.87 r_1^2 S/Tt$$

where: parameters are the same as before, plus:

u_1 = well function variable for pumping well 1
u_2 = well function variable for pumping well 2
Q_1 = discharge for pumping well 1, in gpm
Q_2 = discharge for pumping well 2, in gpm

r_1 = observation well radius from pumping well 1, in ft.
r_2 = observation well radius from pumping well 2, in ft.

The summation of the product of the well functions and their corresponding discharge

$$\left(\sum_{i=1} [W(ui)Qi]\right)$$

are plotted against the inverse of the well function variable for the first pumping well (1/u1). If the discharge for each pumping well is the same, Q can be extracted from the summation term and taken as constant.

$$\frac{114.6Q}{s}\sum_{i=1}^{2} W(u_i)$$

The log-log plot of drawdown versus time for each observation well is then matched to its individual type curve to obtain the aquifer properties.

D6J.1.1.4 MULTI-WELL STRAIGHT-LINE EQUATION

The above Theis equation for two pumping wells can be modified using Jacob's approximation (see pp. 98-100 of Ferris, 1962) to obtain a straight-line (semi-log plot) for the drawdown data from two pumping wells. The u value of all wells must meet the straight-line assumptions before the straight-line method is applicable for the combined drawdown. An adequate straight-line will be developed at some observation wells early in the test when only the close pumping well has an influence. As with the single-well tests, u values should be less than 0.1 before the use of the straight-line method. The following is the derivation of the straight-line equation that is equivalent to Jacob's equation for two pumping wells at the same pumping rate:

$$s = \left(\frac{264Q}{T}\right)\left[\log\left(\frac{0.3Tt}{r_1^2 S}\right) + \log\left(\frac{0.3Tt_a}{r_2^2 S}\right)\right]$$

For drawdown at times of t_a and t_b:

$$s_b - s_a = \left(\frac{264Q}{T}\right)\left[\log\left(\frac{0.3Tt_b}{r_1^2S}\right) + \log\left(\frac{0.3Tt_b}{r_2^2S}\right) - \log\left(\frac{0.3Tt_a}{r_1^2S}\right) - \log\left(\frac{0.3Tt_a}{r_2^2S}\right)\right]$$

after multiplication and simplification of the log terms:

$$s_b - s_a = \frac{264Q}{T}\left[\log\left(\frac{t_b^2}{t_a^2}\right)\right]$$

$$s_b - s_a = \frac{264Q}{T}\left[\log\left(\frac{t_b}{t_a}\right)\right]$$

$$T = \frac{264Q(2)}{\Delta s} \text{ for } \Delta s = s_b - s_a \text{ for one log cycle}$$

The straight line equation is the same as the Jacob equation except the numerator is multiplied by two. The following is our derivation of the storage coefficient equation for two pumping wells starting at the same time:

$$s = o = \left(\frac{Q}{4\pi T}\right)\left[\ln\left(\frac{2.25Tt_o}{r_a^2S}\right) + \ln\left(\frac{2.25Tt_o}{r_b^2S}\right)\right]$$

$$o = \ln\left[\left(\frac{2.25Tt_o}{r_a^2S}\right)\left(\frac{2.25Tt_o}{r_b^2S}\right)\right]$$

$$1 = \left(\frac{2.25Tt_o}{S}\right)^2\left(\frac{1}{r_a^2r_b^2}\right)$$

$$S^2 = \left(\frac{2.25Tt_o}{(r_ar_b)}\right)^2$$

$$S = \left(\frac{2.25Tt_o}{(r_ar_b)}\right)$$

or in the usual USGS units

$$S = \frac{(0.3Tt_o)}{(r_ar_b)}$$

where: parameters are the same as before, plus:

s_b = drawdown, in feet, at time since pumping started, t_b, in days
s_a = drawdown, in feet, at time since pumping started, t_a, in days
t_o = time when drawdown equals zero (extension of straight-line fit to s = 0), in days

The drawdown data for an observation well are plotted on semi-log paper against times since the two wells began pumping. The slope of the straight-line fit is used with the discharge to compute the transmissivity, and the intercept of the straight line is used with the well radii to compute the storage coefficient. The multi-well equations were used to analyze data from the test in which both B12 and B14 were pumped.

D6J.1.2 HANTUSH'S MODIFIED METHOD

Hantush (1960) presents a modification of the theory of leaky confined aquifers which had previously been described by Hantush and Jacob (1955). The modification took into account the storage of water in the semipervious confining bed. Equations developed are as follows:

$$T = \frac{114.6Q}{s} H(u, BETA)$$

where: H(u, BETA) = the integral from u to infinity of (e^-y)/y [complementary error of the function of (BETA/Square Root U) / Square Root (y(y-u))]dy

u = [(2693)r^2(S)]/Tt

And BETA = r/4b Square Root (K' Ss' / K Ss)

The main parameters are as follows:

T = transmissivity, gal/day/ft.
Q = discharge, gpm
s = drawdown, ft.
y = variable of integration
r = radius, ft.
S = storage coefficient
t = time, min.
b = aquifer thickness, ft.
K = aquifer permeability, ft/day
K' = confining layer permeability, ft/day
Ss = aquifer specific storage, 1/ft.
and Ss' = confining layer specific storage, 1/ft.

This form of the beta equation assumes all leakage is coming from only one of the two confining layers. Hantush (1961) presented tabulations of H(u, BETA) for varying values of u and BETA, and subsequently, a family of type curves showing H(u, BETA) vs. 1/u has been developed. Main aquifer properties can be determined by matching plots of observed drawdown versus time data to one of Hantush's type curves and using the equations presented above. The specific storage of the confining layer can be determined from laboratory measurements of the coefficient of compressibility and void ratio on a core of the aquitard (see Section F.4). The specific storage of the aquifer if the laboratory measurements are not available.

D6J.1.3 NEUMAN-WITHERSPOON METHOD

A method for determining aquitard vertical permeability has been described by Neuman and Witherspoon (1971) and Neuman and Witherspoon (1972). In this technique, referred to as the Ratio Method, the ratio of drawdown in the aquitard to the drawdown in the pumped aquifer at the same time distance is related to a dimensionless time parameter, t'D:

$$t'D = K't / Ss\ z^2$$

where: K' = aquitard vertical permeability
t = time for which drawdown ration was determined
Ss' = specific storage of the aquitard
= K' / ALPHA'
ALPHA = aquitard diffusivity,
and z = vertical distance from the center of the screened section of the well completed in the aquitard to the aquifer.

t'D is determined graphically. Therefore, aquitard diffusivity (ALPHA') can be calculated from ALPHA' = K' / Ss' = T'D Z^2 / t.

In order to determine aquitard specific storage, Ss', must be ascertained.

$$Ss' = avWw / (1 + e)$$

where: av = coefficient of compressibility
Ww = weight of water,
and e = void ratio

The values of av and e must be determined on samples of the aquitard in the laboratory or Ss' may be estimated based on published reports on similar sediments.

D6J.1.4 DIRECTIONAL TRANSMISSIVITY

Directional transmissivity of the aquifer was quantified using a method described by Papadopulos (1965). Papadopulos derived an equation for the drawdown distribution around a well discharging at a constant rate from an infinite horizontal anisotropic aquifer. Aquifer-test data from a minimum of three observation wells are analyzed to obtain principal transmissivities and the orientation of the principal axes.

The equations derived by Papadopulos for use in a type-curve matching technique are as follows:

$$s = \frac{114.6Q\ W(Uxy)}{\left[(Txx)(Tyy) - Txy^2\right]^{1/2}}$$

and

$$Uxy = \frac{(1.87S)}{(t)} \frac{\left[(Txx)(y^2) + (Tyy)(x^2) - (2Txy)(x)(y)\right]}{\left[(Txx)(Tyy) - Txy^2\right]}$$

where s = drawdown, in feet
Q = discharge, in gpm
W(Uxy) = well function
Txx, Tyy & Txy = transmissivity components, in gal/day/ft
Uxy = well function variable
S = storage coefficient
t = elapsed time, in days
x = distance from pumping well of observation well along arbitrarily selected x-axis, in feet
and y = distance from pumping well of observation well along arbitrarily selected y-axis (orthogon 1 to x-axis), in feet

For each of the three wells analyzed, observed drawdown data are matched against type curves to determine values of s, t, W(Uxy) and U(xy). Three equations with three unknowns are then solved simultaneously to determine the transmissivity components Txx, Tyy and Txy. Then principal transmissivities, Tee and Tnn, are calculated from the following equations:

$$Tee = \tfrac{1}{2}\left[(Txx + Tyy) + (Txx - Tyy)^2 + 4Txy^2\right]$$

and

$$Tnn = \tfrac{1}{2}\left[(Txx + Tyy)^2 + 4Txy^2\right]$$

where: Tee = maximum transmissivity
and Tnn = minimum transmissivity

The angle between the arbitrarily selected x-axis and the axis of maximum transmissivity (θ) is then determined by the following equation:

$$\theta = \arctan(Tee - Txx)/Txy$$

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