

Table 4  
Results of Lithologic, Geophysical, and Laboratory Data Analysis

Well	County	North latitude ° ' "	West longitude ° ' "	Surface elevation (feet)	Depth (feet)	Depth to base of aquifer (feet)	Elevation of base of aquifer (feet)	Depth to static water level (feet)	Elevation of static water level (feet)	Saturated thickness (feet)	Transmissivity T <sup>1 2</sup> [(gal/d)/ft]	Average specific yield Sy <sup>1 2</sup> (percent)	1st Moment T <sup>1 2</sup> (percent)	2nd Moment T <sup>1 2</sup> (percent)	1st Moment Sy <sup>1 2</sup> (percent)	2nd Moment Sy <sup>1 2</sup> (percent)	Average <sup>1</sup> permeability [(gal/d)/ft <sup>2</sup> ]	Clastic ratio <sup>1</sup> gravel+sand gravel+sand+clay	Lithofacies type <sup>1, 2</sup>	Remarks	
27-38-402	ANDREWS #1	32 26 07	102 20 37	3,026	125	119	2,907	73	2,953	46	44,353	18.02	53	19.43	50	28.68	964	.80	A	40 ft to 115 ft Cretaceous	
27-45-903	ANDREWS #2	32 17 24	102 23 19	3,039	121	115	2,924	53	2,986	62	7,894	7.23	10	17.23	35	38.26	127	.93	—		
06-62-608	ARMSTRONG	35 04 28	101 15 55	3,344	316	310	3,034	250	3,094	60	2,295	13.98	56	25.74	58	26.05	38	.74	D		
10-50-204	BAILEY	34 14 36	102 49 02	3,831	200	180	3,651	85	3,746	95	7,610	18.37	51	25.92	49	27.78	80	.95	C		
06-47-707	CARSON	35 16 50	101 14 21	3,362	518	490	2,872	320	3,042	170	50,173	18.43	29	16.65	49	24.99	295	.86	A		
10-31-804	CASIRO	34 32 21	102 10 11	3,785	350	342	3,443	240	3,545	102	9,486	18.53	44	23.39	52	26.95	93	.89	A		
24-19-202	COCHRAN	33 43 10	102 41 01	3,711	280	265	3,446	149	3,562	116	36,268	16.97	38	18.07	50	24.64	313	.87	A		
33-21-304	CROSBY	33 44 24	101 24 36	3,120	360	340	2,780	208	2,912	132	17,274	17.55	54	16.58	54	26.26	131	.87	C		
02-44-602	DALLAM #1	36 17 42	102 32 12	4,130	452	445	3,685	265	3,865	180	5,069	11.63	52	33.89	56	30.80	28	.67	—	280 ft to 445 ft Triassic	
02-41-102	DALLAM #2	36 21 03	102 59 29	4,560	310	302	4,258	120	4,440	182	12,747	19.12	50	24.02	51	26.49	70	.87	—	133 ft to 302 ft Cretaceous 302 ft to 310 ft Jurassic	
28-17-803	DAWSON	32 39 29	101 56 05	2,940	188	183	2,757	80	2,860	103	29,966	16.83	79	29.63	48	29.09	291	.79	A		
10-05-602	DEAF SMITH #1	34 57 28	102 24 08	3,888	420	411	3,477	152	3,736	259	24,833	19.54	57	22.46	50	28.59	95	.94	C		
10-12-403	DEAF SMITH #2	34 49 30	102 36 10	3,952	240	230	3,722	195	3,757	35	2,100	15.00	50	25.61	50	25.61	60	.89	B		
05-49-605	DONLEY	35 10 57	100 54 25	3,196	640	620	2,575	310	2,885	310	68,534	15.00	56	20.07	49	29.54	221	.83	A		
23-05-101	FLOYD	33 57 45	101 28 45	3,223	426	425	2,798	187	3,036	298	17,278	14.17	51	29.97	46	26.80	73	.88	D		
27-26-402	GAINES #1	32 33 17	102 51 07	3,400	224	224	3,176	—	3,243	67	7,919	14.96	61	36.79	46	39.38	118	.92	B		
27-11-915	GAINES #2	32 46 35	102 38 22	3,324	121	98	3,226	—	—	0	—	—	—	—	—	—	—	—	—	No water encountered	
05-26-408	GRAY	35 32 54	100 50 34	3,182	540	525	2,657	360	2,822	165	8,036	19.26	60	18.10	51	26.50	49	.92	C		
23-01-303	HALE	33 59 34	101 52 45	3,410	342	328	3,082	175	3,235	153	38,176	18.67	55	22.28	51	25.46	250	.94	A		
03-48-702	HANSFORD	36 15 37	101 05 35	3,076	680	662	2,414	345	2,731	317	200,987	18.85	47	7.61	50	13.18	634	.95	A		
07-10-501	HARTLEY #1	35 48 55	102 49 33	4,085	400	385	3,700	175	3,910	210	15,470	17.62	65	23.13	53	28.77	74	.81	B		
07-05-503	HARTLEY #2	35 55 29	102 25 10	3,928	500	462	3,466	375	3,553	87	52,179	18.60	40	16.68	50	27.05	600	.95	A		
05-15-401	HEMPHILL	35 47 37	100 14 11	2,560	380	330	2,230	143	2,417	187	50,878	18.40	59	19.64	50	28.51	272	.87	A		
24-29-311	HOCKLEY	33 35 44	102 24 35	3,540	204	178	3,362	146	3,394	32	704	15.00	50	0	50	0	22	.92	A		
03-61-705	HUTCHINSON	36 00 30	101 27 43	3,180	362	344	2,836	75	3,105	369	12,369	8.22	41	18.21	40	23.51	46	—	B		
10-54-504	LAMB	34 11 01	102 18 21	3,657	326	314	3,343	100	3,557	214	31,957	14.50	28	33.03	45	37.84	149	.95	B		
04-62-301	LIPSCOMB	36 05 53	101 16 35	2,682	535	440	2,242	118	2,564	322	47,877	15.08	53	25.11	52	30.80	149	.82	D		
24-40-203	LUBBOCK	33 28 35	102 03 10	3,320	210	206	3,114	141	3,179	65	47,970	17.00	50	0	50	0	738	.94	A		
23-42-304	LYNN	33 20 07	101 45 30	3,138	115	112	3,026	103	3,035	9	1,224	17.00	50	0	50	0	136	.95	A		
27-48-607	MARTIN	32 18 10	102 02 14	2,822	191	185	2,637	138	2,684	47	90,900	18.00	49	23.88	50	23.69	1,934	.93	A		
45-08-311	MIDLAND	31 59 41	102 02 10	2,748	91	70	2,678	63	2,685	7	315	10.00	50	0	50	0	45	.96	D		
07-16-304	MOORE	35 51 57	102 01 13	3,689	660	645	3,044	307	3,382	338	32,350	13.92	56	33.20	56	30.30	96	.87	—	430 ft to 650 ft Triassic	
04-50-803	OCHILTREE	36 08 23	100 49 13	2,982	640	590	2,392	310	2,672	280	21,301	16.78	36	29.07	46	27.23	76	.83	A		
10-36-802	PARMER	34 23 00	102 33 06	3,886	372	366	3,520	218	3,668	148	19,515	16.78	37	28.27	47	27.85	132	.83	C		
06-35-601	POTTER	35 25 05	101 38 05	3,477	680	665	2,812	320	3,157	345	56,823	18.47	41	28.24	50	28.46	26	.92	B		
06-57-533	RANDALL	35 03 28	101 55 05	3,647	270	270	3,377	177	3,470	93	2,427	10.91	53	25.58	51	26.92	72	.92	B		
05-09-602	ROBERTS	35 49 28	100 54 40	2,942	480	468	2,474	120	2,822	348	25,156	14.03	39	28.05	55	29.67	165	.87	B		
03-50-201	SHERMAN	36 14 18	101 49 28	3,497	561	497	3,000	187	3,310	310	72,065	19.17	41	20.65	49	27.36	233	.88	A		
11-20-808	SWISHER	34 39 21	101 32 45	3,369	203	176	3,193	78	3,291	98	3,354	17.95	57	35.60	52	28.68	34	.94	B		
24-61-102	TERRY	33 05 38	102 27 47	3,371	115	97	3,274	—	—	0	—	—	—	—	—	—	—	—	—	No water encountered	
25-64-302	YOAKUM	33 06 41	103 01 01	3,745	181	167	3,578	83	3,662	84	9,840	17.77	57	11.26	55	15.16	117	.88	C		

<sup>1</sup>Determined in saturated zone only.

<sup>2</sup>T = Transmissivity, Sy = Specific yield.

<sup>3</sup>Lithofacies type designations:

- A—Fluvial channel
- B—Interdistributary
- C—Distributary mouth fan
- D—Frontal fan slope