

APPENDIX B

Aquifer Pump Test Inventory
(in Excel File “pump tests.xls”)

AB

Appendix Summary of aquifer pump tests

well number	basin	perforated interval or well depth (ft bgl)	estimated total sand thickness in screened interval (ft)	test date	length of test (hours)	pumping rate (gpm)	type of test	ft/d	(gal/day)/ft	ft/d	(gal/day)/ft	ft/d	reference	remarks
19S.2W.26.223	P	130-150	19	06/13/1975	0.5	11	R	150	1100	8	1100	8	Wilson et al. (1981)	testhole
19S.2W.26.223	P	260-280	16	06/13/1975	0.5	16	R	330	2500	21	2500	21	Wilson et al. (1981)	Hatch village well
19S.4W.33.244	P	138-318		03/19/1973	24	250	D	550	4100		4100		Wilson et al. (1981)	
19S.4W.33.244	P	138-318		03/20/1973	57	250	R	570	4300		4300		Wilson et al. (1981)	observation well for pumping well 19S.4W.33.244, storage coefficient, 0.0002
19S.4W.34.131	P	143		03/19/1973	81	550	D	680	5100	15	5100	15	Wilson et al. (1981)	observation well for pumping well 20S.2E.35.143, storage coefficient, 0.0006
20S.2E.35.143	J	350-550		11/09/1976	24	550	D	4630	34600		34600		Wilson et al. (1981)	
20S.2E.35.143	J	561-700		11/10/1976	2	550	R	2620	19600		19600		Wilson et al. (1981)	
20S.2E.35.244	J	422-791		11/09/1976	24	1160	D	4410	33000	13	33000	13	Wilson et al. (1981)	
20S.2E.35.244	J	422-791		11/22/1976	7.7	1160	D	4700	35200		35200		Wilson et al. (1981)	
20S.2E.35.244	J	422-791		11/22/1976	1.7	1160	R	2270	17000		17000		Wilson et al. (1981)	
20S.3E.30.333	J	430-850	310	05/01/1963	24	1000	R	6480	48500	21	48500	21	Wilson et al. (1981)	Apollo well I from Doby, 1963, p. 4c
20S.3E.31.123	J	400-840	370	05/30/1963	24	1000	R	10700	79700	29	79700	29	Wilson et al. (1981)	Apollo well I from Doby, 1963, p. 4d
22S.1E.5.142	M	210-230	11	06/02/1975	0.7	25	R	320	2400	29	2400	29	Wilson et al. (1981)	testhole
22S.1E.5.142	M	300-320	20	06/02/1975	0.5	27	R	1300	10000	67	10000	67	Wilson et al. (1981)	north well, Dona Ana community; observation well for pumpint well 22S.1E.14.341a; storage coefficient, 0.002.
22S.1E.14.341	M	308-369	61	05/17/1974	2	200	R	2530	18900	41	18900	41	Wilson et al. (1981)	
22S.1E.14.341	M	308-369	61	05/16/1974	2		D	2850	21300	47	21300	47	Wilson et al. (1981)	
22S.1E.14.341a	M	324		05/16/1974	2	121	D	2930	21900		21900		Wilson et al. (1981)	
22S.1E.14.341a	M	324		05/17/1974	2		D	3210	24000		24000		Wilson et al. (1981)	
22S.1E.22.444	M	252-273	10	04/11/1974	0.4	7	R	36	270		270		Wilson et al. (1981)	testhole
22S.1E.22.444	M	504-525	10	04/11/1974	0.4	40	R	370	2800	37	2800	37	Wilson et al. (1981)	
22S.1E.22.444	M	672-693		04/11/1974	0.5	25	R	82	610		610		Wilson et al. (1981)	
22S.2E.13.443	J	570-670	100	06/03/1975	5.7	145	D	790	5900	7.9	5900	7.9	Wilson et al. (1981)	Jornada water systems well
22S.2E.13.443	J	570-670	100	06/03/1975	1.7		R	440	3300	4.4	3300	4.4	Wilson et al. (1981)	
22S.2E.24.422	J	1120-1140		08/30/1973	20.4	1.5	R	1.3	10		10		Wilson et al. (1981)	testhole, screen probably sat in silt and clay
22S.2E.31.444	M	456-596		03/21/1975	30.6	315	R	2270	17000		17000		Wilson et al. (1981)	Las Cruces city well 23, discharge estimated
22S.3E.8.144	J	500-590	90	08/02/1973	1.7	182	D	3370	25200	37	25200	37	Wilson et al. (1981)	irregular drawdown graph
23S.1E.4.434	M	335-355	16	05/26/1975	0.5	21	R	495	3700	31	3700	31	Wilson et al. (1981)	testhole near Picacho
23S.1E.11.214	M	384-404	18	08/07/1975	1	12.4	R	130	980	6.7	980	6.7	Wilson et al. (1981)	irregular recovery graph
23S.1E.11.214	M	510-530	13	08/06/1975	2	6.6	R	131	980	10	980	10	Wilson et al. (1981)	
23S.1E.11.214	M	640-660	15	08/06/1975	1	12	R	170	1270	11	1270	11	Wilson et al. (1981)	
23S.1E.11.214a	M	465-585	132	05/13/1975	2	1210	D	6100	45600	46	45600	46	Wilson et al. (1981)	Las Cruces city well 31
23S.1E.11.214a	M	465-585	132	05/13/1975	1	1210	R	6460	49100	50	49100	50	Wilson et al. (1981)	Testhole on Valley Drive in Las Cruces
23S.1E.13.411	M	600-620	15	09/06/1974	1.7	24	R	370	2800	25	2800	25	Wilson et al. (1981)	
23S.1E.13.411	M	961-981	14	09/05/1974	4.8	11.5	R	370	2800	27	2800	27	Wilson et al. (1981)	

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App. Cont.

well number	basin	perforated interval or well depth (ft bgl)	estimated total sand thickness in screened interval (ft)	test date	length of test (hours)	pumping rate (gpm)	type of test	r2/d	(gal/day)/ft	fld	(gal/dy)/ft	reference	remarks
23S.1E.13.411	M	1260-1280	12	09/05/1974	2	11.7	R	52	390	4.4	33	Wilson et al. (1981)	Las Cruces city well 29
23S.1E.13.411	M	1448-1468		09/05/1974	5.4	3.1	R	4.9	37			Wilson et al. (1981)	Las Cruces city well 25; discharge estimated
23S.1E.13.411b	M	429-629	101	04/01/1976	2	1248	R	3880	29000	38	290	Wilson et al. (1981)	Las Cruces city well 11
23S.1E.13.411b	M	429-629	101	09/27/1976	187	1000	R	3800	28400	38	280	Wilson et al. (1981)	Las Cruces city well 10; irregular recovery graph
23S.2E.5.321	M	382-620	193	03/20/1975	25	850	R	4550	34000	24	180	Wilson et al. (1981)	Las Cruces city well 24; discharge estimated
23S.2E.7.122	M	213-360		05/28/1974	10	1050	D	3800	28400			Wilson et al. (1981)	Las Cruces city well 26; discharge estimated
23S.2E.7.411	M	281-381		03/17/1975	48.6	460	R	4390	32800	12	91	Wilson et al. (1981)	Las Cruces City well 12; irregular recovery graph
23S.2E.8.433	M	430-716	270	03/21/1975	48.6	1160	R	3300	24700			Wilson et al. (1981)	Las Cruces city well 18
23S.2E.16.314	M	381-591		03/26/1975	27.8	700	R	2710	20300			Wilson et al. (1981)	Las Cruces city well 24; discharge estimated
23S.2E.17.243	M	410-700	304	03/21/1975	49	800	R	2940	22000	9.7	72	Wilson et al. (1981)	Las Cruces city well 26; discharge estimated
23S.2E.21.223	M	526		03/19/1975	5.8	765	R	19300	144300			Wilson et al. (1981)	Las Cruces City well 12; irregular recovery graph
23S.2E.29.331	MM	243-458		04/28/1976	3	1200	D	10800	81000	54	400	Wilson et al. (1981)	Las Cruces city well 30; assume 200 feet of sand for hydraulic conductivity calculations
23S.2E.29.331	M	243-458		04/28/1976	1.7	1200	R	10300	77000	51	380	Wilson et al. (1981)	testhole on University Blvd in Las Cruces
23S.2E.30.243a	M	205-225	16	12/03/1975	0.5	38	R	520	3900	32	240	Wilson et al. (1981)	testhole on West Mesa; perforated interval not developed
23S.2E.30.243a	M	310-330	20	12/03/1975	0.5	41	R	935	7000	47	350	Wilson et al. (1981)	
23S.2E.30.243a	M	430-450	18	12/03/1975	0.6	38	R	950	7100	53		Wilson et al. (1981)	EBID well 5; analyzed early data
23S.2E.30.243a	M	650-670	18	12/02/1975	0.7	35	R	95	700			Wilson et al. (1981)	EBID well 2; analyzed early data
24S.1E.8.123	M	568-588	20	02/02/1975	1.7	2	R	7	52			Wilson et al. (1981)	testhole near Mesquite
24S.1E.8.123	M	5754-774	17	02/01/1975	1	2	R	8.8	66			Wilson et al. (1981)	EBID well 3; analyzed early data
24S.1E.8.123	M	1383-1403	12	01/31/1975	1.3	14	R	56	420	4.7	35	Wilson et al. (1981)	drawdown test
24S.1E.13.221a	M	140-370	170	07/31/1975	26	2550	D	13600	102000	80	600	Wilson et al. (1981)	analyzed early data; well is screened in both Santa Fe and alluvial gravel
24S.1E.13.221a	M	140-370	170	07/02/1976	24.5	2600	D	14200	106000	83	620	Wilson et al. (1981)	EBID well 4; analyzed early data
24S.2E.7.231	M	170-460	200	07/31/1976	21.5	2670	D	13500	101000	68	500	Wilson et al. (1981)	
24S.2E.14.122	M	160-512	20	09/18/1972	6	1285	D	15400	115000			Wilson et al. (1981)	
24S.2E.15.231a	M	463-484	20	04/05/1974	0.4	20	R	775	5800	39	290	Wilson et al. (1981)	
24S.2E.17.322	M	180-464	190	07/12/1976	30.3	3000	D	10900	81600	57	430	Wilson et al. (1981)	EBID well 1; data from step-drawdown test
24S.2E.17.423a	M	310-680	250	07/24/1973	55	3400	D	17400	130000	64	480	Wilson et al. (1981)	
24S.2E.17.423a	M	310-680	250	07/12/1976	384	3310	D	12900	96400	52	390	Wilson et al. (1981)	
24S.2E.18.244	M	55-199		07/30/1975	1.7	2240	R	17500	131000			Wilson et al. (1981)	
24S.2E.21.123	M	170-480	240	07/31/1975	28.5	3180	D	21100	158000	88	660	Wilson et al. (1981)	
24S.2E.21.123	M	170-480	240	07/10/1976	385.1	3190	D	20100	150000	84	620	Wilson et al. (1981)	
24S.2E.36.131	M	392-412	16	07/18/1975	0.5	25	R	150	1100	9	69	Wilson et al. (1981)	testhole by Eastside canal near Mesquite
24S.2E.36.131	M	507-527	12	07/17/1975	0.5	25	R	240	1800	20	150	Wilson et al. (1981)	

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 App A. cont

well number	basin	perforated interval or well depth (ft bgl)	estimated total sand thickness in screened interval (ft)	test date	length of test (hours)	pumping rate (gpm)	type of test	ft/d	(gal/day)/ft	ft/d	(gal/d)/ft ²	reference	remarks
25S.1E.16.114	M	600-1650	630	06/30/1972	22.9	1002	D	13000	97300	21	1554	Wilson et al. (1981)	Data for analyses taken from private report to American Smelting & Refining Co., by Halpanny, Babcock and Greene, Tucson, AZ, 1972
25S.1E.16.114	M	600-1650	630	07/01/1972	14.4	1046	R	11700	89100	19	141	Wilson et al. (1981)	
25S.2E.3.224a	M	298-318	20	11/07/1974	24.5	8	R	120	920			Wilson et al. (1981)	testhole beside Rio Grande west of Mesquite, irregular recovery graph
25S.2E.3.224a	M	598-618	19	11/07/1974	1.7	13.3	R	87	650			Wilson et al. (1981)	
25S.2E.4.141	M	242-262	12	08/03/1974	0.4	20	R	94	700			Wilson et al. (1981)	Testhole near San Miguel
25S.2E.4.141	M	505-525	14	08/03/1974	0.5	36	R	94	700			Wilson et al. (1981)	
25S.2E.4.141	M	660-680	13	08/03/1974	0.6	30	R	45	340			Wilson et al. (1981)	testhole near La Mesa
25S.2E.26.114	M	251-272	13	04/20/1974	0.6	40	R	150	1100	11	85	Wilson et al. (1981)	
25S.2E.26.114	M	503-524	12	04/20/1974	0.6	55	R	330	2500	28	210	Wilson et al. (1981)	Testhole near Vado
25S.2E.26.114	M	651-672	9	04/20/1974	0.5	40	R	170	1300	19	140	Wilson et al. (1981)	
25S.3E.17.111a	M	497-457	7	07/29/1973	0.2	12	R	41	310	2.5	44	Wilson et al. (1981)	Testhole near Vado
25S.3E.17.111a	M	675-685	4	07/29/1973	0.2	4	R	15	110	3.7	28	Wilson et al. (1981)	
25S.3E.28.434	M	225-245	15	12/15/1975	0.6	57	R	900	6700	60	450	Wilson et al. (1981)	sand thickness is assumed
25S.3E.28.434	M	730-750	16	12/14/1975	0.7	45	R	270	2000	17	130	Wilson et al. (1981)	
25S.3E.28.434	M	1200-1220	19	12/13/1975	0.6	33	R	110	790	5.6	42	Wilson et al. (1981)	irregular graph
26S.1W.25.414	M	443-563	71	03/03/1977	2	31.5	D	3700	27700	52	390	Wilson et al. (1981)	
26S.1W.25.414	M	443-563	71	03/03/1977	0.5	1420	R	2900	21900	41	310	Wilson et al. (1981)	testhole near Berino; irregular recovery graph
26S.3E.6.441	M	93-193	227	10/04/1972	92	2360	D&R	8350	62500			Wilson et al. (1981)	
26S.3E.6.442	M	307-597	227	1972	60	2360	R	9800	73000	43	320	Wilson et al. (1981)	testhole
26S.3E.6.143	M	400-420	16	09/04/1975	0.5	8	R	61	460			Wilson et al. (1981)	
26S.3E.8.143	M	945-965	20	09/03/1975	0.7	6	R	27	200			Wilson et al. (1981)	testhole
26S.3E.8.143	M	1410-1430	18	09/02/1975	0.7	19	R	670	5000	37	280	Wilson et al. (1981)	
26S.3E.8.143	M	1660-1680	20	09/01/1975	0.5	3.5	R	32	240			Wilson et al. (1981)	testhole
26S.3E.15.322	M	310-330	15	12/19/1975	0.3	34	R	200	1500	13	100	Wilson et al. (1981)	
26S.3E.15.322	M	565-585	20	12/19/1975	0.4	46	R	2000	15000	100	750	Wilson et al. (1981)	testhole
26S.3E.15.322	M	670-690	14	12/18/1975	0.7	60	R	570	4300	41	310	Wilson et al. (1981)	
26S.3E.15.322	M	820-840	17	12/18/1975	0.5	38	R	64	480	3.7	28	Wilson et al. (1981)	testhole
26S.3E.15.322	M	1050-4070	16	12/18/1975	0.5	30	R	250	1900	16	120	Wilson et al. (1981)	
26S.3E.15.322	M	1170-1190	12	12/18/1975	0.5	30	R	98	730	8.2	61	Wilson et al. (1981)	Santa Theresa well 4; observation well for pumping well 28S.3E.28.114; storage coefficient, 0.0004.
27S.3E.20.432	M	195-215	17	07/24/1975	0.4	23	R	240	1800	15	110	Wilson et al. (1981)	
27S.3E.20.432	M	450-470	17	07/24/1975	0.4	32	R	360	2700	21	160	Wilson et al. (1981)	Santa Theresa well 22; observation well for pumping well 28S.3E.28.114; storage coefficient, 0.0003.
27S.3E.20.432	M	640-660	19	07/24/1975	0.5	30	R	280	2100	15	110	Wilson et al. (1981)	
28S.3E.20.432	M	163-320	102	11/05/1975	114		D	3620	28600	37	280	Wilson et al. (1981)	
28S.3E.21.441	M	245		11/05/1975	114		D	4000	29600	31	230	Wilson et al. (1981)	

b.
 All Cont

well number	basin	perforated interval or well depth (ft. bgl)	estimated total sand thickness in screened interval (ft)	test date	length of test (hours)	pumping rate (gpm)	type of test	r2/d	(gal/day)/ft	ft/d	(gal/d)/ft2	reference	remarks
28S.3E.28.114	M	240-350	88	11/05/1975	114	748	D	2800	21000	24	180	Wilson et al. (1981)	Santa Theresa Well 20; pumping well
28S.3E.28.114	M	240-350	88	11/10/1975	117		R	2800	21000	224	180	Wilson et al. (1981)	
28S.3E.28.241	M	135-285	109	11/05/1975	114		D	7600	57100	70	520	Wilson et al. (1981)	Santa Theresa well 1; observation well for pumping well 28S.3E.28.114; storage coefficient, 0.0018.
28S.3E.28.444	M	325		11/05/1975	114		D	3700	27700			Wilson et al. (1981)	Santa Theresa well 32; observation well for pumping well 28S.3E.28.114; storage coefficient, 0.00003.
28S.3E.28.442	M	268		11/05/1975	114		D	3580	26800	22	160	Wilson et al. (1981)	Santa Theresa well 17; observation well for pumping well 28S.3E.28.114; tesinolo
29S.3E.13.223	M	300-320	16	07/31/1975	0.5	5.7	R	16	120			Wilson et al. (1981)	
29S.3E.13.223	M	390-410	12	07/31/1975	0.5	8.7	R	150	1100			Wilson et al. (1981)	
29S.3E.29.231	M	201-350	97	11/10/1975	114		D	3800	28600	25	190	Wilson et al. (1981)	Santa Theresa well 2; observation well for pumping well 28S.3E.28.114; storage coefficient, 0.0004.

M = Mesilla
 P = Palomas
 H = Hueco
 J = Jornada del Muerto

← "D R"
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AB

Appendix 4 Estimated specific capacity and hydraulic conductivities in the shallow aquifer

latitude	longitude	well number	well depth (ft)	water level (ft)	specific capacity (gpm/ft)	estimated hydraulic conductivity (ft/day)
32 28 05	106 54 06	21S.1W.24.133	100	7	39	71
32 25 52	106 51 50	21S.1E.32.344	185	11	64	63
32 24 35	106 51 25	22S.1E.8.234	178	8	83	83
32 24 06	106 50 05	22S.1E.13.144	140	8	64	82
32 22 50	106 51 20	22S.1E.20.244	142	10	80	103
32 23 00	106 51 00	22S.1E.21.113	180	10	68	68
32 22 20	106 42 10	22S.2E.26.214	100	14	102	202
32 20 27	106 49 39	23S.1E.3.213	145	15	49	64
32 20 30	106 49 20	23S.1E.3.221	145	14	82	106
32 20 30	106 51 02	23S.1E.4.114	138	38	43	73
32 18 30	106 50 40	23S.1E.16.142	111	16	71	127
32 17 35	106 50 00	23S.1E.22.133	133	10	72	100
32 17 13	106 48 32	23S.1E.23.433	120	23	120	210
32 16 07	106 50 26	23S.1E.33.214	130	18	20	30
32 16 05	106 49 50	23S.1E.34.141	120	8	46	70
32 16 00	106 49 50	23S.1E.34.143	109	7	86	143
32 15 44	106 48 08	23S.1E.35.424	80	21	151	435
32 15 40	106 48 15	23S.1E.35.442	80	19	60	167
32 15 45	106 47 40	23S.1E.36.324	225	21	44	37
32 16 45	106 45 20	23S.2E.29.234	230	95	28	35
32 14 55	106 44 55	24S.2E.4.313	160	19	49	59
32 14 18	106 45 47	24S.2E.8.114	214	18	49	43
32 13 55	106 44 05	24S.2E.9.442	140	15	51	69
32 14 30	106 43 35	24S.2E.10.122	240	81	33	35
32 14 20	106 43 20	24S.2E.10.213	240	79	31	33
32 13 25	106 43 50	24S.2E.15.132	114	14	61	104
32 13 10	106 43 30	24S.2E.15.324	150	16	43	55
32 13 05	106 44 25	24S.2E.16.431	150	14	50	63
32 13 00	106 45 35	24S.2E.17.413	90	11	50	108
32 13 05	106 45 15	24S.2E.18.244	199	13	66	60
32 12 20	106 43 47	24S.2E.22.311	191	15	45	43
32 12 40	106 42 50	24S.2E.23.112	90	13	198	437
32 11 20	106 43 20	24S.2E.27.432	85	13	63	149
32 09 50	106 41 20	25S.2E.1.233	186	10	14	14
32 09 55	106 41 05	25S.2E.1.242	350	13	24	12
32 09 40	106 41 55	25S.2E.1.313	131	12	62	89
32 09 30	106 41 10	25S.2E.1.441	120	10	55	85
32 09 44	106 44 07	25S.2E.4.422	95	15	48	102
32 09 06	106 42 36	25S.2E.11.142	130	9	62	87
32 09 05	106 41 20	25S.2E.12.213	65	14	68	227
32 06 58	106 43 49	25S.2E.22.314	200	19	47	44
32 06 50	106 41 05	25S.2E.24.444	120	10	88	136
32 05 20	106 42 10	25S.2E.35.424	116	11	21	34
32 08 14	106 40 01	25S.3E.18.224	250	8	14	10
32 07 50	106 40 15	25S.3E.18.423	156	9	95	110
32 07 30	106 39 50	25S.3E.20.112	120	9	18	28
32 07 00	106 39 20	25S.3E.20.411	125	8	34	49

Appendix A-B cont.

latitude	longitude	well number	well depth (ft)	water level (ft)	specific capacity (gpm/ft)	estimated hydraulic conductivity (ft/day)
32 05 30	106 40 55	25S.3E.31.131	125	9	154	226
32 05 48	106 38 37	25S.3E.33.112	100	11	10	19
32 03 30	106 41 05	36S.2E.12.422	100	10	135	255
32 04 05	106 38 26	26S.3E.4.433	130	9	36	51
32 04 55	106 39 20	26S.3E.5.212	80	12	51	128
32 04 35	106 40 25	26S.3E.6.233	110	12	66	117
32 04 30	106 40 55	26S.3E.6.311	120	10	44	68
32 04 15	106 40 15	26S.3E.6.441	203	12	20	18
32 02 40	106 39 55	26S.3E.17.313	116	11	163	264
32 02 35	106 39 55	26S.3E.17.331	120	8	46	70
31 59 44	106 39 14	27S.3E.5.212	139	9	84	110
31 59 30	106 39 00	27S.3E.5.242	143	12	93	121
31 59 25	106 39 00	27S.3E.5.244	148	12	110	138
31 58 30	106 38 08	27S.3E.9.243	136	9	44	59
31 57 32	106 39 24	27S.3E.17.411	120	14	59	95
31 55 30	106 39 06	27S.3E.29.441	216	11	58	48
31 54 51	106 38 35	27S.3E.33.324	130	12	58	84
31 54 02	106 39 00	28S.3E.5.422	122	9	33	50
31 58 47	106 38 09	JL-49-03-303	80	11	46	113
31 57 34	106 36 27	JL-49-04-142	150	7	39	46
31 56 17	106 36 56	JL-49-04-403	155	8	17	20
31 56 19	106 36 21	JL-49-04-406	152	8	23	27
31 55 57	106 36 18	JL-49-04-412	160	8	23	26
31 55 37	106 36 15	JL-49-04-415	122	7	28	41
31 55 57	106 36 58	JL-49-04-420	155	7	13	15

Source: Frenzel and Kaehler, 1990

AB

Appendix # Hydraulic conductivity in the Mesilla Basin (Santa Fe Group)

Basin	latitude	longitude	well number	open interval (ft bgl)	K (estimated hydraulic conductivity (ft/day)	adjusted interval (ft)*
M	32 22 23	106 49 16	22S.1E.22.444	252-273	2	
M	32 22 23	106 49 16	22S.1E.22.444	504-525	18	
M	32 22 23	106 49 16	22S.1E.22.444	672-693	4	
M	32 19 46	106 50 28	23S.1E.4.434	335-355	25	
M	32 19 17	106 48 20	23S.1E.11.214	384-404	7	
M	32 19 17	106 48 20	23S.1E.11.214	510-530	7	
M	32 19 17	106 48 20	23S.1E.11.214	640-660	9	
M	32 19 17	106 48 20	23S.1E.11.214a	465-485	55	
M	32 18 30	106 47 30	23S.1E.13.411	600-620	19	
M	32 18 30	106 47 30	23S.1E.13.411	961-981	19	
M	32 18 30	106 47 30	23S.1E.13.411	1260-1280	3	
M	32 18 30	106 47 30	23S.1E.13.411	1448-1468	1	
M	32 18 30	106 47 30	23S.1E.13.411b	429-629	19	
M	32 20 09	106 45 23	23S.2E.5.321	392-620	20	212-440
M	32 19 14	106 46 33	23S.2E.7.122	213-360	26	153-300
M	32 19 14	106 46 25	23S.2E.7.411	281-381	44	221-321
M	32 18 56	106 45 28	23S.2E.8.433	430-716	12	280-566
M	32 18 19	106 44 52	23S.2E.16.314	381-591	13	231-441
M	32 18 32	106 45 13	23S.2E.17.243	410-700	10	280-570
M	32 16 28	106 45 58	23S.2E.29.331	243-458	50	
M	32 16 42	106 46 04	23S.2E.30.243a	205-225	26	
M	32 16 42	106 46 04	23S.2E.30.243a	310-330	47	
M	32 16 42	106 46 04	23S.2E.30.243a	430-450	48	
M	32 16 42	106 46 04	23S.2E.30.243a	650-670	5	
M	32 13 35	106 47 21	24S.1E.13.221a	140-370	60	
M	32 14 10	106 46 27	24S.2E.7.231	170-460	47	
M	32 13 24	106 43 26	24S.2E.15.231a	463-484	36	
M	32 13 08	106 45 38	24S.2E.17.322	180-464	38	
M	32 13 14	106 45 10	24S.2E.17.423a	310-680	41	
M	32 12 36	106 44 45	24S.2E.21.123	170-480	68	
M	32 10 47	406 43 06	24S.2E.36.131	392-412	8	
M	32 10 47	406 43 06	24S.2E.36.131	507-527	12	
M	32 08 26	106 51 12	25S.1E.16.114	600-1650	12	250-1300
M	32 09 42	106 44 17	25S.2E.4.141	2542-262	5	
M	32 09 42	106 44 17	25S.2E.4.141	505-525	5	
M	32 09 42	106 44 17	25S.2E.4.141	660-680	2	
M	32 06 29	106 42 51	25S.2E.26.114	251-272	7	
M	32 06 29	106 42 51	25S.2E.26.114	503-524	16	
M	32 06 29	106 42 51	25S.2E.26.114	651-672	8	
M	32 07 37	106 39 57	25S.3E.17.111a	437-457	2	
M	32 07 37	106 39 57	25S.3E.17.111a	675-685	2	
M	32 05 40	106 36 40	25S.3E.28.434	225-245	45	
M	32 05 40	106 36 40	25S.3E.28.434	730-750	14	
M	32 05 40	106 36 40	25S.3E.28.434	1200-1220	6	
M	32 00 54	106 53 39	26S.1W.25.414	443-563	24	53-173

APP B cont.

Basin	latitude	longitude	well number	open interval (ft bgl)	K (estimated hydraulic conductivity (ft/day))	adjusted interval (ft)*
M	32 04 14	106 39 58	26S.3E.6.442	307-597	35	
M	32 03 37	106 39 13	26S.3E.8.143	400-420	3	
M	32 03 37	106 39 13	26S.3E.8.143	945-965	1	
M	32 03 37	106 39 13	26S.3E.8.143	1410-4130	34	
M	32 03 37	106 39 13	26S.3E.8.143	1660-1680	2	
M	32 02 45	106 37 47	26S.3E.15.322	310-330	10	
M	32 02 45	106 37 47	26S.3E.15.322	565-585	100	
M	32 02 45	106 37 47	26S.3E.15.322	670-690	29	
M	32 02 45	106 37 47	26S.3E.15.322	820-840	3	
M	32 02 45	106 37 47	26S.3E.15.322	1050-1070	13	
M	32 02 45	106 37 47	26S.3E.15.322	1170-1190	5	
M	31 56 25	106 39 17	27S.3E.20.432	195-215	12	
M	31 56 25	106 39 17	27S.3E.20.432	450-470	18	
M	31 56 25	106 39 17	27S.3E.20.432	640-660	14	
M	31 51 11	106 39 18	28S.3E.20.432	163-320	24	53-210
M	31 50 50	106 38 49	28S.3E.28.114	240-350	25	110-220
M	31 50 44	106 38 08	28S.3E.28.241	135-285	51	75-225
M	31 50 46	106 39 29	28S.3E.29.231	201-350	26	71-220
M	31 47 24	106 35 07	29S.3E.13.223	300-320	1	120-140
M	31 47 24	106 35 07	29S.3E.13.223	390-410	8	210-230
				average =	21	

* adjusted interval is the open interval below the water table

from Frenzel + Kaehler 1990

Appendix B. Aquifer tests in unpublished consultants reports

well location	name of well	basin*	perforated interval or well depth (ft bpd)	estimated total sand thickness in screened interval (ft)	well diameter (in)	test date	length of test (hours)	pumping rate (gpd)	type of test	transmissibility m^2/d	storage coefficient	specific yield	hydraulic conductivity (ft/day)	Specific capacity (gpm/ft)	reference
22S 03E 8 4333	Lus Cruces Well # 40	J	661-724 775-840 1087-1150	200	10	December, 1988	48 (pump) 52 (recovery)	800 (8 hr) 1,000 (8 hr) 1,200 (38 hr)	step	4,830	0.00028	0.15	--	--	Shomaker, 1989
27S 02E 13 314	La Union Well	M	TD = 620 450-500 520-610	140	12	January, 1989	four 120-minute steps 24 hours	408, 589; 788, 1,000 800	step constant-rate	-- 70,000	--	--	--	15.9-17 15.8	Shomaker, 1988 (letter)
28S 03E 28 244	Anthony Well No. 6	M	TD = 527 281-500	210	14	December, 1988	four 100 minute steps 24	750, 850; 1,150; 1,400 1,200	step constant-rate	-- 40,000	--	--	--	13 12.1	Shomaker, 1988 (letter)
28S 02E 35 400	Anthony Well No. 3	M	TD = 500 260-480	200	14	December, 1988	four 100 minute steps 24	740, 840; 1,117; 1,354 1,228	step constant-rate	-- 40,000	--	--	--	11.8 to 13.1 11.7	Shomaker, 1989 (letter)

J = Jornada del Muerto Basin
M = Mesilla Basin