

2019 Water-Level Data Acquisition Statistics

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The 2019 water-level data were published on the Web and not in paper form. Both the current year's measurements and historical water-level data are archived and maintained on the KGS website in the WIZARD database at www.kgs.ku.edu/Magellan/WaterLevels/index.html. The township-range-section identifier and the depth to water for each well measured in 2019 are provided in tabular form as part of this report and can be found online under the heading "2019 Reports" at www.kgs.ku.edu/Hydro/Levels/index.html.

2019 Water-Level Data Acquisition Statistics

Summary

The Kansas Geological Survey (KGS) and the Division of Water Resources (DWR), Kansas Department of Agriculture successfully completed the field-measurement phase of the 2019 annual cooperative water-level measurement program prior to March 1, 2019. The annual program is designed to regionally sample the High Plains aquifer in Kansas so trends can be established and evaluated for effective incorporation into water-resource management strategies. Water levels were recorded in 97.6% of the 1,411 network wells in 2019. The KGS measured 571 wells and the three DWR offices (Garden City, Stafford, and Stockton) measured 840 wells. Data acquisition by KGS staff was completed in January.

A spatial analysis of the 2018 annual network well distribution identified nine locations that required additional water-level data to permit continuous and uniform sampling of the High Plains aquifer. Researchers then identified wells in these locations that have sufficient construction and historical information and landowner cooperation to attempt a water-level measurement. Of the 24 wells designated to replace existing wells or fill gaps in the network, 23 were measured and have been incorporated into the network for 2020. They will be measured in future measurement campaigns unless the wells become unreliable or are plugged. Yearly geostatistical studies will define undersampled areas and assist in selecting optimum locations for replacement wells to eliminate holes in the hexagonal network used to assure uniform sampling of the aquifer.

January 2019 Acquisition	KGS	DWR	Total
Number of network wells in 2019	571	840	1,411
Number of counties	16	32	48
2019 provisional (new) wells	11	13	24
# provisional wells measured	10	13	23
# wells successfully measured	554	823	1,377
# wells MIA*	17	17	34
# wells measured for quality assurance (QA)	68	—	68
# wells targeted for removal	1	1	2

*Wells with zero depth reading or where measurement failed.

KGS Field Crew, January 2019

Joe Anderson, Brett Bennett, Andrea Brookfield, Rex Buchanan, Clint Hutchins, Rick Miller, Ed Reboulet, Brett Wedel, and Brownie Wilson

Wells Measured in 2019

Type of Well	KGS	DWR	Total
Irrigation	477	623	1,100
Unused (monitor or abandoned)	67	154	221
Stock	12	46	58
Household	5	2	7
Depth to Water			
Less than 100 ft	117	522	639
100 to 200 ft	271	195	466
200 to 300 ft	148	57	205
More than 300 ft	18	48	66
Drill Depth of Well			
Unknown	62	121	183
Less than 100 ft	47	258	305
100 to 200 ft	116	232	348
200 to 300 ft	176	119	295
300 to 400 ft	88	39	127
More than 400 ft	82	71	153
Measurement Characteristics			
Oil on the water	56 (9.7%)	50 (5.8%)	106 (7.4%)
Difficult measurement			
(restrictions, snags, catches)	34 (5.9%)	39 (4.6%)	73 (5.1%)

In-field confidence in a particular measurement was qualitatively determined through inspection of chalk cut while general accuracy was quantitatively appraised using historical and local trends.

Measurement Confidence

Wells Measured Only	KGS	DWR	Total
Once	491	769	1,260
Twice	59	44	103
Three times	4	10	14
Four times	0	0	0
Total Measurements			
Primary and Quality Assurance (QA)	792	900	1,692
Measurements Judged			
Excellent	476	553	1,029
Good	64	243	307
Fair	21	30	51

2019 Provisional Wells

KGS (11 new wells—10 measured)

24S 41W 19AAC 01	Hamilton
32S 28W 16BBB 01	Meade
31S 40W 29DCB 01	Morton
32S 42W 16CCB 01	Morton
28S 41W 31BDD 01	Stanton
33S 33W 12AAD 02	Seward
32S 35W 35BBD 01	Stevens
33S 38W 10ACD 01	Stevens
35S 36W 08AAA 01	Stevens
35S 38W 16ADD 01	Stevens
10S 31W 17BBB 01	Thomas

DWR (13 new wells—13 measured)

04S 30W 29BAB 01	Decatur
24S 31W 14DDB 01	Finney
27S 38W 31CAC 01	Grant
25S 29W 33ADC 01	Gray
26S 30W 32DBD 01	Gray
27S 31W 24CDC 03	Haskell
29S 32W 05CCB 01	Haskell
29S 32W 24CCA 01	Haskell
27S 09W 17CAA 01	Kingman
03S 24W 35ADB 01	Norton
21S 15W 31BAD 02	Pawnee
26S 08W 14BCC 01	Reno
21S 09W 08BDB 01	Rice

Wells Tagged in 2019 for Removal from the Network and Reason

KGS (1 well)

32S 34W 20BAD 01	Seward	Unable to measure 2018, 2019. Grease on tape.
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DWR (1 well)

05S 26W 05ADD 01	Decatur	Well no longer exists.
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Appendices

The two appendices to this report are summary tables.

Appendix A Contains a summary of information for all wells measured by the KGS. This appendix includes county, well legal description (ID), and 2019 depth of water below ground surface (BGS). Quality Assurance measurements (QA), Provisional wells (PROV), No Measurement Taken (NMT), and Unable to Measure (UTM) are also identified.

Appendix B Contains a summary of information for all wells measured by the DWR. This appendix includes county, well legal description (ID), and 2019 depth of water below ground surface (BGS). Provisional wells (PROV), No Measurement Taken (NMT), and Unable to Measure (UTM) are also identified.

Both the current year's measurements and historical water-level data are archived and maintained at the KGS in a centralized database (WIZARD) that can be accessed at the KGS website at www.kgs.ku.edu/Magellan/WaterLevels/index.html. The township-range-section identifier and the water level for each well measured are also provided in tabular form as part of this report, which can be found online at www.kgs.ku.edu/Hydro/Levels/index.html under the heading "2019 Reports."

APPENDIX A
Water Levels in Wells Measured by the KGS by County, 2019
Including Provisional Well (PROV), Quality Assurance (QA) Measurements,
No Measurement Taken (NMT), and Unable to Measure (UTM)

Well ID	Level	QA Meas	Well ID	Level	QA Meas
CHEYENNE COUNTY			CLARK COUNTY		
01S 38W 02CDC 01	-----	26.57	30S 23W 18D 01	-----	119.22
01S 38W 08DCC 01	-----	15.72	30S 24W 08DBA 01	--QA--	64.10 * 64.10
01S 38W 30CAB 01	-----	12.08	FORD COUNTY		
01S 39W 25CBC 01	-----	9.57	25S 22W 20AAA 01	-----	50.39
02S 37W 17CDD 01	-----	216.82	25S 22W 27CCD 01	-----	37.82
02S 37W 33DCC 01	-----	219.30	25S 23W 11CCC 01	-----	64.42
02S 38W 27DAD 01	-----	230.47	25S 25W 32CDD 01	-----	217.10
02S 39W 26DAA 01	-----	85.03	25S 25W 32DAD 01	-----	77.90
02S 40W 28DBA 01	--QA--	109.27 * 109.27	25S 26W 20ABC 01	-----	122.17
02S 40W 32BCB 01	-----	129.13	25S 26W 25CDD 01	-----	86.92
02S 41W 29AAC 01	-----	247.40	26S 21W 25CCC 01	-----	4.91
02S 41W 33DBC 01	-----	235.98	26S 22W 21DCD 01	-----	33.26
03S 37W 19BBC 01	-----	236.15	26S 22W 24AAB 01	-----	34.54
03S 37W 21DDD 01	-----	233.89	26S 23W 02ABB 02	-----	196.63
03S 37W 36ADB 01	-----	224.60	26S 23W 10DAD 01	--QA--	192.33 * 192.33
03S 38W 04BCC 01	-----	221.34	26S 24W 29DDD 01	-----	165.89
03S 38W 21BCB 01	--QA--	249.90 * 249.90	26S 24W 31DDA 01	-----	43.43
03S 38W 25BBB 01	-----	234.11	26S 25W 16DCC 01	-----	166.63
03S 39W 04CCC 01	-----	66.39	26S 26W 18CCB 01	-----	66.98
03S 39W 20DAC 01	-----	144.24	26S 26W 36DCC 01	-----	73.57
03S 39W 24DDD 01	-----	231.01	27S 21W 10BDD 01	-----	NMT
03S 39W 32BDB 01	-----	158.28	27S 21W 18CDC 01	-----	69.64
03S 40W 29ABC 02	-----	10.47	27S 23W 24BCB 02	--QA--	68.48 * 68.48
03S 40W 35AAC 01	-----	101.38	27S 23W 28AAA 01	-----	92.44
03S 41W 33ABB 01	-----	158.81	27S 23W 36CCC 01	-----	61.55
04S 37W 17AAC 01	-----	212.63	27S 24W 03BBD 01	-----	43.34
04S 37W 25DCA 01	-----	172.47	27S 24W 03CDD 01	-----	34.71
04S 38W 04BAC 01	--QA--	231.32 * 231.32	27S 24W 09AAD 01	-----	46.53
04S 38W 20CCC 01	-----	171.26	27S 24W 16BAC 01	-----	101.14
04S 38W 21ADC 01	-----	199.23	27S 24W 26DAA 01	-----	114.70
04S 39W 15CCA 01	-----	150.61	27S 25W 09ADB 01	-----	95.17
04S 40W 08BCA 01	-----	72.70	27S 25W 25BBB 01	--QA--	141.06 * 141.06
04S 40W 26DAB 01	PROV18	164.85	27S 26W 04BBD 01	-----	134.23
04S 41W 16DAA 01	-----	17.30	28S 21W 10DDD 01	--QA--	58.10 * 58.10
04S 41W 23AAA 01	-----	128.80	28S 21W 23DBC 01	-----	89.97
04S 41W 25BCB 02	-----	147.50	28S 21W 25ABB 01	-----	83.30
04S 41W 29DCD 01	-----	66.40	28S 22W 05ADD 01	-----	24.99
04S 42W 02BCC 01	-----	215.85	28S 22W 12CAC 01	-----	71.60
04S 42W 16CCD 01	-----	94.57	28S 22W 32BAB 01	-----	136.23
05S 37W 15DBB 01	-----	159.69	28S 23W 18BAB 01	-----	159.62
05S 38W 13BAD 01	-----	91.67	28S 24W 08DCC 01	-----	163.54
05S 38W 22ACB 01	-----	113.89	28S 24W 22CDA 01	-----	NMT
05S 39W 06DAA 01	-----	227.16	28S 24W 35CAB 01	-----	121.09
05S 39W 11CBC 01	-----	169.87	28S 25W 06ABB 01	-----	172.39
05S 39W 25CDA 01	--QA--	150.26 * 150.26	28S 25W 19BBB 01	-----	168.69
05S 40W 14BCD 01	--QA--	243.88 * 243.88	28S 26W 06ABB 01	-----	201.67
05S 40W 18ADB 01	-----	251.26	28S 26W 13CAA 01	-----	164.26
05S 40W 27BBA 01	-----	230.02	29S 21W 05BBB 01	-----	110.45
05S 41W 34CBB 01	-----	214.74	29S 21W 20CAD 01	-----	144.60
05S 42W 04AAB 01	-----	18.17	29S 22W 17DAD 01	-----	141.20
05S 42W 14DCC 01	--QA--	144.81 * 144.81	29S 22W 36ACA 01	-----	147.70
			29S 23W 16DDB 01	-----	215.20

Well ID	Level	QA Meas	Well ID	Level	QA Meas
29S 24W 01ABA 01	-----	162.17	LOGAN COUNTY		
29S 24W 13BCA 01	-----	124.06	11S 32W 01BCC 01	-----	120.80
29S 24W 18BAA 01	-----	163.28	11S 32W 19AAB 01	-----	110.39
29S 25W 10BBBC01	-----	178.86	11S 32W 31CCD 01	-----	65.88
29S 26W 29ABB 01	-----	138.99	11S 32W 36ABA 01	-----	98.59
29S 26W 36BBB 02	--QA--	52.09 * 52.09	11S 33W 10BDD 01	-----	118.28
GREELEY COUNTY			11S 33W 28ADA 01	PROV18	111.64
16S 39W 15CDC 01	--QA--	168.10 * 168.10	11S 34W 13AAB 01	-----	142.69
16S 40W 15ACC 01	--QA--	178.99 * 178.99	11S 34W 16CDB 01	-----	116.60
16S 40W 26ADA 01	-----	133.35	11S 34W 33DDC 01	-----	136.55
16S 41W 11CCB 01	-----	210.58	11S 35W 12ABC 01	-----	160.43
16S 42W 12CAA 01	-----	242.85	12S 32W 16ACA 01	-----	25.98
16S 42W 22BCB 01	-----	206.86	12S 32W 35DAA 01	-----	20.86
16S 42W 25AAA 01	-----	209.04	13S 36W 20CCB 01	--QA--	8.07 * 8.07
17S 39W 02BAA 01	-----	136.91	MEADE COUNTY		
17S 39W 22ABB 01	-----	146.79	30S 26W 04CBB 02	-----	129.46
17S 39W 31DAB 01	-----	128.72	30S 26W 32DDD 01	-----	32.40
17S 40W 15CCB 01	-----	148.39	30S 27W 20ABA 01	--QA--	142.02 * 142.02
17S 40W 17BBA 01	-----	191.04	30S 27W 23ABB 04	-----	124.62
17S 40W 31BBA 01	-----	167.32	30S 27W 27BBB 01	-----	104.02
17S 42W 28DAB 01	-----	26.56	30S 28W 17ABB 01	-----	224.30
18S 39W 07BBD 01	-----	119.06	30S 29W 28BBB 01	-----	218.99
18S 39W 19CDA 01	-----	78.29	30S 30W 04DBB 01	-----	288.73
18S 39W 24AAC 01	-----	146.77	30S 30W 28ABB 01	-----	281.12
HAMILTON COUNTY			31S 26W 30BBB 01	-----	116.35
21S 39W 07CBA 01	--QA--	173.31 * 173.31	31S 27W 20AAA 02	-----	100.86
23S 42W 26DCA 02	-----	23.79	31S 28W 02CCC 01	-----	190.84
23S 42W 27DDB 01	-----	21.48	31S 28W 10BCB 02	-----	201.42
23S 42W 34CBB 01	-----	10.57	31S 28W 26ABB 01	--QA--	102.40 * 102.10
23S 43W 21ABA 03	--QA--	13.59 * 13.59	31S 29W 02DBB 01	-----	239.75
23S 43W 23BCB 01	-----	20.76	31S 29W 24DCC 01	-----	243.24
23S 43W 25CBD 03	-----	7.61	31S 29W 30AAA 01	-----	227.68
23S 43W 26BCC 01	-----	6.19	31S 30W 16BCD 01	-----	282.30
24S 39W 19CBC 01	-----	8.47	32S 28W 16BBB 01	PROV19	119.93
24S 39W 35BAC 01	-----	8.37	32S 29W 22DCC 01	-----	197.10
24S 39W 35CBA 01	-----	16.74	32S 30W 09CCC 01	-----	265.83
24S 40W 07CBB 01	-----	13.68	32S 30W 35CBA 01	PROV18	261.65
24S 40W 17BBB 01	--QA--	13.35 * 13.35	33S 28W 29BCB 01	-----	25.59
24S 40W 23AAB 01	-----	24.62	33S 29W 19D 01	-----	197.57
24S 40W 31BBB 01	--QA--	61.38 * 61.38	33S 30W 22ADD 01	--QA--	252.20 * 252.20
24S 41W 01DAD 01	-----	19.25	34S 28W 05BDA 01	-----	NMT
24S 41W 19AAC 01	PROV19	47.19	34S 29W 32BA 01	-----	160.23
24S 42W 08CBD 01	PROV18	58.99	34S 30W 22CBC 01	-----	231.81
24S 43W 03BDD 01	-----	46.70	35S 30W 10CDA 01	-----	31.35
25S 39W 23BDD 01	-----	86.62	MORTON COUNTY		
25S 40W 01CA 01	--QA--	49.79 * 49.79	31S 39W 18CCC 01	--QA--	240.12 * 240.12
25S 40W 26BBB 01	--QA--	230.40 * 230.40	31S 40W 11A 01	-----	277.20
25S 43W 03ABB 01	-----	272.29	31S 40W 29DCB 01	PROV19	183.29
25S 43W 35ADD 01	PROV18	338.09	31S 41W 07CDD 01	-----	135.16
26S 41W 20BCD 01	-----	73.34	31S 41W 31CBC 01	-----	96.37
26S 42W 10BBB 04	-----	200.12	31S 42W 29AAB 01	--QA--	113.25 * 113.25
26S 42W 17CBB 02	-----	264.84	31S 43W 03CB 01	-----	64.25
26S 42W 22DCC 02	-----	281.49	31S 43W 20CBC 01	-----	117.80
26S 43W 25DCC 01	-----	315.45	32S 39W 06BBB 01	-----	236.14
			32S 40W 07BDC 01	-----	123.48

Well ID	Level	QA Meas	Well ID	Level	QA Meas
32S 40W 21ADB 01	-----	195.75	04S 34W 33CBC 01	-----	120.00
32S 41W 15CDC 01	-----	24.08	04S 35W 09AB 01	-----	186.12
32S 41W 35DCC 01	-----	188.10	04S 35W 29DDD 01	-----	149.84
32S 42W 16CCB 01	PROV19	140.94	04S 36W 23CBB 01	-----	226.09
32S 42W 32CAA 01	--QA--	55.30 * 55.30	04S 36W 23DCA 01	-----	222.66
32S 42W 35ABD 02	-----	156.30	05S 31W 10DDA 01	-----	42.96
32S 43W 08CBD 01	-----	141.40	05S 31W 20CCA 01	-----	38.69
32S 43W 28BBC 01	-----	90.15	05S 32W 14CDD 01	-----	127.81
33S 39W 16ABB 01	-----	100.11	05S 33W 10DAA 01	-----	109.28
33S 40W 23ADD 01	-----	91.38	05S 33W 29BDA 01	-----	25.85
33S 40W 27CCC 01	-----	84.86	05S 34W 15AAA 01	-----	174.26
33S 41W 03ADA 01	-----	174.58	05S 35W 11CCC 01	-----	150.22
33S 41W 33AAC 01	-----	61.62	05S 35W 30CBC 01	-----	180.87
33S 42W 21BCB 01	-----	105.37	05S 36W 21BCD 01	-----	27.16
33S 43W 09DBA 01	-----	114.15			
34S 39W 06CCA 01	-----	130.70	SEWARD COUNTY		
34S 40W 16ABB 01	-----	154.97	31S 31W 03CCC 01	-----	281.37
34S 40W 27BBB 01	--QA--	187.39 * 187.39	31S 32W 01ABC 01	-----	295.66
34S 41W 06CCA 01	-----	42.50	31S 32W 28DCA 01	-----	287.18
34S 41W 26DCD 01	-----	162.33	31S 32W 31BBB 01	-----	276.45
34S 41W 28CBA 01	-----	127.18	31S 33W 06CBD 01	-----	322.55
34S 42W 05BDC 01	-----	41.40	31S 33W 20DBB 01	-----	272.61
34S 42W 22CDB 01	-----	86.59	31S 34W 15ADA 01	-----	292.21
34S 43W 07BDD 01	PR18/QA	154.05 * 154.05	31S 34W 30DBA 01	--QA--	276.46 * 276.46
34S 43W 19DBD 01	-----	NMT	32S 31W 01DBB 01	-----	277.16
35S 39W 06CDD 01	-----	265.42	32S 31W 08BBA 01	-----	274.90
35S 40W 03BBB 03	-----	197.90	32S 31W 26CAA 01	-----	281.14
35S 41W 16CCD 01	-----	222.73	32S 32W 14BBB 02	-----	288.62
35S 42W 16DCC 01	-----	262.96	32S 32W 19BAB 02	-----	274.17
35S 43W 04AAC 01	-----	120.15	32S 33W 32DBD 01	-----	212.94
35S 43W 13BDB 01	-----	242.18	32S 34W 10DAA 01	-----	286.99
			32S 34W 20BAD 01	-----	UTM
RAWLINS COUNTY			33S 31W 09AAB 01	-----	246.90
01S 33W 24DADD01	-----	196.62	33S 31W 28BBC 01	-----	233.47
01S 35W 24CCA 01	-----	115.99	33S 32W 02AAC 01	-----	256.63
02S 31W 03CAD 01	-----	19.04	33S 32W 28CDD 02	-----	74.43
02S 32W 13ACAA01	-----	16.50	33S 33W 12AAD 02	PROV19	44.96
02S 32W 20DCD 01	-----	17.26	33S 33W 20BCC 01	--QA--	244.45 * 244.45
02S 33W 26DCC 01	-----	28.08	33S 34W 17DCC 01	-----	249.46
02S 35W 13BAA 01	-----	169.18	34S 31W 01CAA 01	-----	251.35
02S 36W 11BBCC01	-----	192.41	34S 31W 22BDD 03	--QA--	54.83 * 54.83
02S 36W 31BDA 01	PROV18	216.43	34S 31W 30BBB 01	-----	226.20
02S 36W 36BAA 01	-----	180.34	34S 32W 29BAA 01	-----	215.15
03S 31W 07CBD 01	--QA--	141.27 * 141.27	34S 32W 35ADA 01	-----	208.39
03S 32W 27BCC 01	PROV18	177.21	34S 33W 02CBA 01	-----	236.07
03S 33W 03DCC 02	-----	33.91	34S 33W 07CCB 01	-----	195.99
03S 33W 08CDC 01	-----	21.81	35S 31W 10AAC 01	-----	208.56
03S 34W 03ABB 01	-----	13.38	35S 33W 15ABC 02	--QA--	165.00 * 165.00
03S 34W 27CAD 01	-----	5.60	35S 33W 16BCA 01	--QA--	175.60 * 175.18
03S 35W 18CBB 01	-----	209.25	35S 34W 10BBB 01	--QA--	169.05 * 169.05
03S 35W 24CBB 01	-----	24.30			
03S 36W 14CBB 01	-----	216.61	SHERMAN COUNTY		
03S 36W 17CCC 01	-----	228.96	06S 37W 07BBA 01	-----	15.80
03S 36W 21DBC 01	-----	216.99	06S 37W 16CDD 01	-----	188.65
04S 31W 16ABD 01	-----	11.09	06S 37W 19ABB 02	-----	171.63
04S 32W 09CCC 01	-----	69.03	06S 38W 09ABD 01	-----	174.31
04S 33W 10ABC 01	-----	139.88	06S 38W 18DBD 01	-----	145.43
04S 33W 14DAC 01	-----	22.12	06S 40W 10AAC 01	-----	189.90
04S 33W 19BCB 01	-----	84.21	06S 40W 13CBC 01	-----	170.35
04S 34W 08ABA 02	-----	19.25			

Well ID	Level	QA Meas	Well ID	Level	QA Meas	
06S 40W 30DCC 01	-----	190.88	27S 42W 17CCC 01	-----	270.30	
06S 41W 27DBD 01	-----	191.85	27S 42W 36BCB 01	-----	298.79	
06S 42W 02AAA 01	-----	220.67	27S 43W 09CBB 01	-----	269.20	
06S 42W 22DCC 01	-----	231.71	28S 39W 36ABB 02	-----	253.44	
06S 42W 30ADA 01	-----	231.83	28S 40W 12DDD 02	-----	252.57	
07S 37W 04BBC 01	-----	166.95	28S 41W 02CCC 01	-----	265.15	
07S 37W 05CCB 01	-----	166.39	28S 41W 17CDD 01	-----	277.20	
07S 38W 28DAA 01	-----	167.88	28S 41W 31BDD 01	PROV19	223.65	
07S 39W 01DCD 01	-----	149.85	28S 41W 34BDD 01	-----	326.71	
07S 39W 09BBB 01	--QA--	135.56	* 135.56	28S 42W 20BCC 01	-----	256.10
07S 39W 27BDC 01	-----	185.55	28S 42W 32BBB 01	-----	222.00	
07S 40W 06ADB 01	-----	193.00	28S 43W 01BAA 01	-----	277.00	
07S 40W 29BBA 01	-----	164.78	29S 39W 21DBD 01	-----	304.80	
07S 40W 35BBB 01	-----	150.68	29S 40W 02CCB 02	-----	381.45	
07S 40W 36BAB 01	-----	159.46	29S 40W 06BCC 01	-----	357.20	
07S 41W 07BCB 01	-----	229.80	29S 40W 28ABB 01	-----	337.10	
07S 41W 28DBB 01	-----	153.88	29S 41W 14CDC 01	-----	315.81	
07S 42W 07DAA 01	-----	218.92	29S 42W 27DAD 01	-----	237.46	
07S 42W 27AAB 01	-----	193.73	29S 43W 21DCDD01	-----	115.00	
08S 37W 03ADB 01	-----	180.36	29S 43W 33CDB 01	-----	151.20	
08S 37W 21CCC 01	-----	158.85	30S 39W 23BBB 02	--QA--	302.54	* 302.54
08S 37W 32ABB 01	--QA--	113.28	* 113.28	30S 40W 12BBB 02	-----	348.02
08S 38W 17CDD 01	-----	194.38	30S 40W 33CCB 01	-----	198.97	
08S 38W 24AAB 01	-----	142.49	30S 41W 13CCC 02	-----	205.20	
08S 39W 15CCC 02	-----	193.93	30S 41W 23DDB 01	-----	196.00	
08S 40W 12DBA 01	-----	192.79	30S 42W 16BDB 01	-----	185.01	
08S 40W 17CDB 01	-----	161.78				
08S 41W 17CBA 01	-----	172.02				
08S 41W 25BBC 01	-----	151.19				
08S 42W 06DAC 01	PROV18	226.56				
08S 42W 15DDB 01	-----	165.33				
08S 42W 31DCD 01	-----	112.24				
09S 37W 07DDB 01	-----	91.07				
09S 38W 13BCC 01	--QA--	77.34	* 77.34			
09S 39W 01DBA 01	-----	166.49				
09S 39W 03ACA 01	-----	197.68				
09S 39W 10CCB 01	-----	173.08				
09S 39W 19CCC 02	-----	164.21				
09S 40W 10BBA 01	-----	188.75				
09S 40W 13CDC 01	-----	193.08				
09S 40W 29BBB 01	-----	204.10				
09S 41W 05DCC 01	-----	212.23				
09S 41W 14BBC 01	-----	229.60				
09S 41W 34BAB 01	-----	205.97				
09S 42W 14AAA 01	-----	211.97				
09S 42W 35ABB 01	-----	194.30				
10S 37W 23CDD 01	-----	151.86				
10S 40W 10ADC 01	-----	25.51				
10S 41W 01DAA 01	-----	175.82				
10S 41W 15CAD 01	-----	45.36				
10S 41W 28ACD 01	-----	133.03				
10S 42W 20ABB 01	-----	153.70				
10S 42W 24BAB 01	-----	128.67				
STANTON COUNTY						
27S 39W 27BBA 01	-----	293.46				
27S 40W 10CAA 01	-----	206.83				
27S 40W 25CBC 01	-----	245.55				
27S 41W 07DCC 01	-----	230.94				
27S 41W 35CCC 01	--QA--	208.86	* 208.86			
STEVENS COUNTY						
31S 35W 21CCC 01	-----	352.55				
31S 36W 02CDD 01	-----	209.45				
31S 37W 09BBC 01	-----	323.44				
31S 37W 13BDD 01	-----	332.76				
31S 37W 22BCC 01	-----	336.40				
31S 38W 17ADB 01	-----	278.20				
31S 39W 03DCC 01	-----	233.94				
31S 39W 25ABB 01	-----	212.15				
32S 35W 08DDD 01	--QA--	229.36	* 229.36			
32S 35W 35BBD 01	PROV19	186.03				
32S 36W 03DDC 01	-----	317.30				
32S 36W 21AAA 01	-----	320.13				
32S 37W 10DCC 01	-----	200.45				
32S 37W 26BAC 01	-----	159.69				
32S 38W 11CBB 01	-----	240.58				
32S 39W 14DDD 01	--QA--	118.93	* 118.93			
33S 35W 23CBB 01	-----	272.26				
33S 36W 25CDD 01	-----	297.00				
33S 37W 08BCB 01	-----	204.00				
33S 37W 28CAC 01	--QA--	200.94	* 200.94			
33S 37W 35ACD 01	-----	238.12				
33S 38W 06AAB 01	-----	UTM				
33S 38W 10ACD 01	PROV19	NMT				
33S 38W 33CAA 01	-----	279.03				
34S 35W 26ACC 01	-----	266.56				
34S 36W 10CAC 01	-----	260.00				
34S 37W 27ABC 03	-----	211.57				
34S 37W 35AAD 01	-----	188.99				
34S 38W 02ADC 01	-----	257.33				
34S 38W 21DCCB01	-----	316.69				
34S 39W 15CAD 01	--QA--	173.78	* 173.78			
35S 35W 15BCC 01	-----	210.54				

Well ID	Level	QA Meas	Well ID	Level	QA Meas
35S 36W 01AAA 01	-----	215.60	09S 35W 20DCA 01	-----	129.96
35S 36W 08AAA 01	PROV19	213.93	10S 31W 17BBB 01	PROV19	121.05
35S 37W 02DDD 02	-----	187.25	10S 31W 26AAA 01	-----	14.49
35S 37W 16BCC 02	-----	236.38	10S 32W 11BAA 01	-----	138.74
35S 38W 07CCC 01	-----	311.00	10S 32W 29DCB 01	-----	113.70
35S 38W 16ADD 01	PROV19	285.93	10S 33W 06BBC 02	--QA--	205.93 * 205.93
THOMAS COUNTY			10S 33W 11BAB 01	-----	177.47
06S 31W 03ADB 01	-----	120.09	10S 33W 19CBD 01	-----	107.73
06S 31W 14BCA 01	-----	98.20	10S 34W 12BCD 01	--QA--	179.05 * 179.05
06S 31W 19ABA 01	--QA--	126.67 * 126.62	10S 35W 09ABB 01	-----	107.95
06S 31W 33CCD 01	-----	53.42	10S 36W 16CCC 01	-----	145.14
06S 32W 12CBC 01	-----	123.35	WALLACE COUNTY		
06S 32W 29CDC 01	-----	137.43	11S 38W 35CCC 02	--QA--	129.52 * 129.52
06S 33W 02CDD 01	-----	126.11	11S 42W 08DDC 01	-----	123.35
06S 33W 07BBB 01	--QA--	147.00 * 147.00	11S 42W 10AAD 01	-----	140.00
06S 33W 23DDD 01	-----	20.16	13S 39W 33BBB 01	-----	23.70
06S 34W 11CDD 01	-----	173.35	13S 42W 22CDB 01	-----	78.14
06S 34W 17CBC 01	-----	169.91	13S 43W 36ABB 02	-----	240.88
06S 35W 02CDD 01	-----	141.25	14S 39W 28CAA 01	-----	167.43
06S 35W 26ACB 01	-----	170.39	14S 40W 14CCC 01	-----	141.65
06S 36W 01CAC 01	-----	183.62	14S 41W 22BBC 02	--QA--	207.90 * 207.90
06S 36W 07BBB 01	-----	196.97	14S 42W 10BAA 01	-----	274.76
06S 36W 11ACC 01	-----	193.28	14S 42W 10CAA 01	--QA--	266.08 * 266.08
06S 36W 30DCB 01	-----	180.26	14S 42W 13AAD 01	-----	249.25
06S 36W 34DDB 01	-----	122.68	14S 42W 27BAB 01	-----	265.69
07S 31W 01DCA 01	-----	141.80	14S 42W 32DBB 01	-----	251.60
07S 32W 07ACA 01	-----	95.07	14S 43W 25ACC 01	-----	259.07
07S 32W 13DBD 01	-----	137.81	15S 38W 05CCB 01	-----	111.26
07S 32W 33BCB 01	-----	141.05	15S 38W 14CCD 01	-----	120.86
07S 33W 07BDA 01	-----	170.20	15S 38W 21CCC 01	-----	171.34
07S 34W 08DDD 01	-----	56.69	15S 39W 02BCA 01	-----	166.29
07S 34W 25AAA 01	-----	135.88	15S 39W 06CBC 01	--QA--	196.71 * 196.71
07S 34W 26DBD 01	-----	137.09	15S 39W 08ACC 01	-----	197.48
07S 35W 09CCC 01	-----	148.68	15S 39W 26ACC 01	-----	192.90
07S 36W 17CCC 01	-----	169.72	15S 40W 03BAB 01	--QA--	181.48 * 181.48
08S 31W 03CDD 01	-----	170.59	15S 40W 06BDB 01	-----	212.38
08S 31W 20CDD 01	-----	152.59	15S 40W 09DCB 01	-----	197.40
08S 32W 07BAA 01	-----	148.50	15S 40W 22ADC 01	-----	184.33
08S 32W 12DBC 01	-----	153.91	15S 40W 31ABC 01	PROV18	196.72
08S 32W 30AAA 01	PROV18	NMT	15S 41W 09BDD 01	--QA--	198.75 * 198.75
08S 32W 32DAA 01	-----	131.42	15S 41W 27CBC 01	--QA--	240.41 * 240.41
08S 33W 34BBC 01	-----	178.69	15S 41W 36DDB 02	-----	201.70
08S 34W 01BAC 01	-----	151.03	WICHITA COUNTY		
08S 34W 06CBC 01	-----	153.02	16S 35W 06AAB 01	-----	77.87
08S 34W 23CBD 01	--QA--	207.43 * 207.43	16S 35W 18CBB 01	-----	141.95
08S 34W 29CCC 01	-----	227.97	16S 35W 24CCC 02	PROV18	171.05
08S 35W 04CCC 01	--QA--	101.29 * 101.29	16S 35W 32ACB 02	-----	168.78
08S 36W 15CBB 01	-----	94.74	16S 36W 27BBB 02	-----	166.77
08S 36W 31BCD 01	--QA--	47.14 * 47.14	16S 36W 34CCC 02	-----	157.98
09S 31W 10BDD 01	-----	106.88	16S 37W 17BBB 01	-----	173.80
09S 31W 17CCC 01	-----	109.50	16S 37W 24BCB 01	PROV18	172.66
09S 31W 36AAB 01	-----	163.96	16S 37W 30BAB 01	-----	183.07
09S 32W 03AAA 01	-----	117.86	16S 37W 35ACC 01	-----	177.18
09S 32W 27BCD 01	-----	142.25	16S 38W 04ABC 01	-----	179.18
09S 33W 10BAD 01	--QA--	150.90 * 150.92	16S 38W 16CCC 01	--QA--	159.90 * 159.90
09S 33W 33BBB 01	-----	217.15	17S 35W 02ABC 01	-----	171.37
09S 33W 35AAD 01	-----	189.68	17S 35W 18DCC 01	--QA--	174.76 * 174.76
09S 34W 12ADA 01	--QA--	195.91 * 195.59			
09S 34W 17ABA 01	--QA--	169.30 * 169.30			

Well ID	Level	QA Meas	Well ID	Level	QA Meas
17S 35W 27CCC 01	-----	169.25	18S 38W 12CCB 02	-----	178.56
17S 35W 30CBB 02	-----	182.69	18S 38W 20ACC 02	-----	147.76
17S 36W 34BCD 01	--QA--	184.02 * 184.02	18S 38W 31DBC 01	--QA--	117.32 * 117.32
17S 37W 08BAA 02	-----	157.89	19S 35W 01ABB 01	-----	110.77
17S 37W 13CDD 01	-----	151.58	19S 35W 08BBB 01	-----	105.19
17S 37W 28CBC 01	-----	171.37	19S 36W 15BAA 01	-----	82.67
17S 37W 36BCC 01	-----	159.41	19S 37W 22AAB 01	-----	102.62
17S 38W 03ACA 01	PROV18	111.10	19S 38W 24DAB 01	--QA--	94.14 * 94.14
17S 38W 21BBB 01	-----	135.48	19S 38W 31CBC 01	-----	144.66
17S 38W 28CCC 01	-----	156.47	20S 38W 02ACD 01	-----	104.36
18S 35W 08BBC 02	-----	141.30	20S 38W 17CBD 01	-----	139.57
18S 35W 14DCD 01	--QA--	117.63 * 117.63	20S 38W 28DAB 01	-----	130.05
18S 35W 31DDD 01	-----	103.88			
18S 36W 15DBD 01	-----	103.05			
18S 37W 25ABC 01	-----	130.86			
18S 38W 02BCC 01	-----	171.73			

END APPENDIX A

APPENDIX B
Water Levels in Wells Measured by the DWR by County, 2019
Including Provisional Well Measurements (PROV),
No Measurement Taken (NMT), and Unable to Measure (UTM)

Well ID	Level	Well ID	Level
BARBER COUNTY		04S 28W 30DDD 01 -----	85.98
30S 11W 11CCA 01 -----	42.07	04S 30W 06CCC 02 -----	18.92
30S 11W 33ADA 01 -----	17.04	04S 30W 29BAB 01 PROV19	4.74
30S 12W 04CCC 01 -----	66.23	05S 26W 26DDA 01 -----	21.31
BARTON COUNTY		05S 26W 33DCC 01 -----	16.94
18S 14W 27CDD 01 -----	37.06	05S 27W 21CCA 01 -----	98.78
18S 15W 28CCC 03 -----	9.45	05S 28W 07BBC 01 -----	19.54
19S 11W 19BDD 01 -----	19.28	05S 28W 10BBB 01 -----	8.25
19S 11W 26BDA 01 -----	12.91	05S 28W 14ADD 01 -----	130.19
19S 12W 28DBC 02 -----	12.23	05S 28W 17DAC 01 -----	96.68
19S 13W 08BAD 01 -----	14.15	05S 29W 22CBB 01 -----	15.97
19S 13W 33DDB 01 -----	7.86	05S 30W 15CCB 01 -----	90.00
19S 14W 06BBB 02 -----	10.03	05S 30W 25BBC 01 -----	115.40
19S 14W 23BBC 02 -----	12.72	05S 30W 35BCB 01 -----	120.88
19S 14W 32B 01 -----	28.77	EDWARDS COUNTY	
19S 14W 36BBC 01 -----	8.74	24S 16W 12CBD 01 -----	27.82
20S 11W 06CCC 01 -----	8.26	24S 17W 20ADC 01 -----	45.18
20S 11W 26AAC 01 -----	8.50	24S 17W 24DDD 01 -----	41.20
20S 12W 03DAC 01 -----	5.25	24S 18W 13DAC 01 -----	44.44
20S 12W 23CCA 01 -----	12.21	24S 18W 17ABD 01 -----	32.90
20S 13W 17DDC 01 -----	11.71	24S 18W 28DAC 01 -----	44.99
20S 13W 24DCB 02 -----	19.61	24S 19W 34ADD 01 -----	6.91
20S 13W 31D 01 -----	22.42	25S 16W 02BBB 01 -----	28.88
20S 14W 22CDC 01 -----	14.36	25S 16W 27AAC 01 -----	19.29
20S 15W 24DBD 01 -----	12.48	25S 17W 01DAB 01 -----	42.30
20S 15W 33ADD 01 -----	17.75	25S 17W 17AAC 01 -----	46.93
DECATUR COUNTY		25S 17W 26B 01 -----	29.30
01S 27W 17ADA 01 -----	89.31	25S 17W 31BBD 02 -----	44.00
01S 27W 26BBA 01 -----	27.68	25S 18W 09AAA 01 -----	46.05
01S 28W 15BBC 01 -----	149.45	25S 18W 20AAB 01 -----	52.29
01S 29W 03DDB 01 -----	29.60	25S 18W 33CDC 01 -----	49.63
01S 29W 19ACD 01 -----	21.43	25S 19W 08BDD 01 -----	3.29
01S 30W 20CDC 01 -----	76.95	25S 19W 26DDB 01 -----	47.20
01S 30W 34DDD 01 -----	39.12	25S 20W 03BCD 01 -----	26.06
02S 26W 11BBA 01 -----	74.26	25S 20W 19CDA 01 -----	62.29
02S 28W 13ABA 01 -----	28.39	25S 20W 26AAC 01 -----	3.02
02S 29W 01DDD 02 -----	126.50	26S 16W 10CCC 01 -----	15.87
02S 30W 18ACC 01 -----	26.99	26S 16W 18CAC 01 -----	25.40
03S 26W 05CAD 01 -----	157.13	26S 16W 31CCA 01 -----	42.13
03S 28W 06DCB 01 -----	29.65	26S 16W 34ABC 01 -----	29.19
03S 28W 32BCA 01 -----	120.35	26S 17W 14BAA 01 -----	38.40
03S 29W 12BBB 01 -----	17.34	26S 17W 33DDB 01 -----	37.11
03S 29W 17DCB 01 -----	26.26	26S 18W 15DCB 01 -----	51.05
03S 29W 31DCC 01 -----	31.84	26S 19W 16BCB 02 -----	48.74
03S 30W 03CAB 01 -----	90.18	26S 19W 34BBD 01 -----	57.09
03S 30W 26BBB 01 -----	11.87	26S 20W 20BBC 01 -----	11.95
04S 26W 08DDD 01 -----	28.87	ELLIS COUNTY	
04S 26W 19DCA 01 -----	13.77	13S 18W 29CCC 01 -----	17.49
04S 27W 17DAC 01 -----	95.30	14S 18W 12AAD 01 -----	25.03
04S 27W 33BBB 01 -----	17.38	15S 18W 27CBC 02 -----	9.92
04S 28W 15AAA 01 -----	83.35	15S 19W 25CAB 01 -----	15.16

Well ID	Level	Well ID	Level
FINNEY COUNTY		25S 32W 35ACA 01	189.96
21S 31W 26CCC 01	77.44	25S 33W 05ABD 01	235.47
21S 32W 20CBD 01	141.45	25S 33W 09ABD 01	226.72
21S 32W 26DAA 01	116.97	25S 33W 15DAC 01	257.41
21S 33W 29BBC 01	106.11	25S 33W 16DCC 01	97.87
21S 34W 14DBB 01	103.11	25S 34W 08CAB 01	273.90
22S 27W 14ADC 01	185.01	26S 31W 01DDA 02	199.98
22S 31W 08CCC 01	127.52	26S 31W 06BBB 02	178.84
22S 31W 13DDB 01	PROV18 UTM	26S 31W 15BCC 01	206.62
22S 33W 04DDCD02	125.56	26S 32W 27DAC 01	289.68
22S 33W 22ACC 01	PROV18 141.89	26S 33W 10CCD 01	264.10
22S 33W 32ABC 01	173.48	26S 33W 20ACC 02	301.82
22S 33W 36BCCC01	155.49	26S 33W 30ADC 01	310.20
22S 34W 18CDD 01	148.95	26S 34W 03BBB 01	287.95
22S 34W 23BBB01	PROV18 146.61	GOVE COUNTY	
22S 34W 26CCC 01	183.88	11S 26W 04CDC 01	72.40
23S 27W 22DAB 01	76.66	11S 27W 08DBB 01	114.30
23S 28W 22DCD 01	77.19	11S 27W 13ABB 01	149.61
23S 29W 30BBB 01	85.16	11S 27W 36BCC 01	77.75
23S 29W 34CDD 01	98.54	11S 28W 08AAA 02	116.31
23S 30W 04ACC 01	80.83	11S 28W 26ABB 01	92.91
23S 30W 19CCB 01	97.59	11S 29W 04DAD 01	110.90
23S 31W 03DCD 01	122.66	11S 29W 33BBA 01	102.59
23S 31W 17ABA 01	131.57	11S 30W 27ABB 01	126.54
23S 31W 28CDD 02	161.32	11S 30W 28CBA 01	125.01
23S 32W 03CAA 01	PROV18 179.25	11S 30W 36CBB 01	104.76
23S 32W 26ACC 01	207.22	11S 31W 12AAB 01	107.57
23S 32W 31CCA 01	149.93	11S 31W 27ADC 01	56.58
23S 33W 07BBC 01	209.62	11S 31W 35BDC 01	101.68
23S 33W 10CCDD01	PROV18 168.97	12S 26W 12BCC 01	34.50
23S 33W 19DCC 01	PROV18 181.68	12S 26W 24CBA 01	8.88
23S 33W 26ABB 02	172.44	12S 27W 10CCB 01	77.91
23S 33W 28CDC 02	180.07	12S 27W 14DDD 01	91.60
23S 33W 34ABC 01	177.36	12S 28W 07DDD 01	48.73
23S 34W 06AADA02	213.97	12S 28W 13ABA 01	70.69
23S 34W 10ACB 01	201.48	12S 29W 10BBB 01	89.76
23S 34W 17CCC 01	180.46	12S 30W 13CCB 01	14.32
23S 34W 21DDC 01	175.48	12S 31W 21CAA 01	10.74
23S 34W 32BCC 02	140.32	13S 26W 20CBC 01	9.14
24S 31W 14DDB 01	PROV19 192.84	13S 27W 16BDD 01	10.17
24S 31W 27CCB 01	201.22	13S 28W 14AC 01	10.21
24S 32W 10ACA 01	UTM	13S 30W 08ABC 01	40.44
24S 32W 19CAB 01	93.76	13S 31W 05CAB 01	35.18
24S 32W 25CBB 02	55.87	GRAHAM COUNTY	
24S 32W 36ABC 01	58.99	06S 21W 19CDC 02	95.38
24S 33W 09CCD 01	122.82	06S 21W 33DDD 01	26.60
24S 33W 09CCD 02	20.93	06S 22W 19CCC 01	99.50
24S 33W 09CCD 03	138.52	06S 23W 13BBB 01	45.99
24S 33W 18BDB 01	141.20	06S 23W 17CCA 01	58.43
24S 33W 18BDB 02	161.81	06S 24W 14AAA 01	105.10
24S 33W 19DBB 02	219.12	06S 24W 28BAB 01	89.60
24S 33W 28DAA 01	192.19	06S 25W 12CCC 01	138.50
24S 33W 34CAC 01	227.74	06S 25W 28CBC 01	111.46
24S 34W 01BCBB01	135.98	07S 22W 10BBC 01	8.85
24S 34W 17DCA 01	141.50	07S 22W 19BBB 01	33.88
25S 31W 16ACA 01	71.09	07S 23W 17BBB 01	98.69
25S 32W 07CAC 01	219.46		
25S 32W 22DBC 01	197.63		
25S 32W 31DDC 01	242.03		

Well ID	Level
07S 24W 08CBA 01	123.64
07S 25W 24BBB 01	86.11
07S 25W 33DDD 01	99.07
08S 21W 17ABB 01	20.77
08S 22W 18CDC 01	7.70
08S 24W 23ACC 01	30.09
08S 25W 24BAB 01	28.37
09S 21W 19AAB 01	18.20
09S 21W 34BAA 01	24.52
09S 22W 32ABAA 01	42.05
09S 23W 26BAA 01	39.47
09S 24W 22BAA 01	88.96
09S 25W 05BBD 01	81.20
09S 25W 14DDD 01	83.40
09S 25W 29BBB 01	129.35
09S 25W 35ADD 01	89.60
10S 24W 10ADD 01	40.05
10S 24W 23DCC 01	4.40
10S 25W 22AAA 01	21.00

GRANT COUNTY

27S 35W 17ADD 01	362.17
27S 35W 25BDC 01	355.61
27S 36W 01ADB 01	334.03
27S 36W 21DCD 01	355.78
27S 37W 16AAD 01	307.07
27S 38W 12ADC 01	222.87
27S 38W 21BCC 01	244.93
27S 38W 31CAC 01	PROV19 347.19
28S 35W 03DBB 01	373.05
28S 35W 36ABC 01	360.38
28S 36W 09B 01	325.78
28S 36W 18ABC 01	268.06
28S 36W 24AAD 01	369.49
28S 37W 10ADB 01	261.13
28S 37W 33DDC 01	89.57
28S 38W 33BDB 01	275.43
29S 35W 07CBD 01	272.50
29S 36W 04BAC 01	301.30
29S 36W 19BCB 01	266.49
29S 36W 33ADB 01	250.99
29S 37W 29BBA 01	311.33
29S 38W 07CCB 01	255.10
29S 38W 31DCD 01	PROV18 247.12
30S 35W 02DBC 01	372.39
30S 35W 19BCD 01	311.35
30S 36W 01BBB 01	253.36
30S 36W 32BBC 01	273.92
30S 37W 15CBB 01	285.53
30S 38W 13CCC 01	303.64

GRAY COUNTY

24S 27W 08CCC 01	93.94
24S 27W 14ABB 01	67.48
24S 27W 29BCC 01	111.16
24S 27W 31CDD 01	116.03
24S 28W 28BBA 01	133.31
24S 28W 31DDD 02	PROV18 NMT

Well ID	Level
24S 29W 16DDB 01	144.70
24S 29W 18CCB 01	163.84
24S 30W 15CCC 02	182.96
24S 30W 31ABB 01	194.39
25S 27W 33ABB 01	157.18
25S 29W 07BCB 01	206.55
25S 29W 10DDC 01	198.25
25S 29W 33ADC 01	PROV19 96.65
25S 30W 25BCC 01	98.38
25S 30W 28C 01	106.38
26S 27W 12CDD 01	84.65
26S 28W 06DDB 02	50.57
26S 29W 26DBA 01	184.97
26S 30W 24DDD 01	187.82
26S 30W 32DBD 01	PROV19 187.73
27S 27W 07ADC 01	141.70
27S 28W 05AAA 01	206.93
27S 28W 26ADD 01	208.45
27S 28W 26ADD 02	322.78
27S 28W 30CDD 01	179.62
27S 29W 27CAA 01	207.42
27S 30W 23BBC 01	251.02
28S 29W 16ACC 01	181.80
28S 29W 32CCA 01	174.60
28S 30W 17BAB 01	267.50
29S 29W 27BCB 02	207.78
29S 30W 08CCB 01	259.33
29S 30W 22BBC 02	291.69

HARVEY COUNTY

22S 02W 05CBD 01	55.19
22S 02W 29BBA 01	18.79
22S 03W 02DCD 01	36.87
22S 03W 29BDB 01	8.80
22S 03W 35AAA 01	8.75
23S 01W 19BCA 01	45.65
23S 02W 22CCD 01	11.03
23S 03W 06DDD 01	67.20
23S 03W 14AAC 01	35.68
23S 03W 32DCC 03	7.49
24S 01W 05AAB 01	20.70
24S 01W 19BCC 01	13.67
24S 01W 22BCC 01	29.84
24S 02W 04CCD 01	30.30
24S 02W 28DDD 01	18.59
24S 03W 15DAA 03	9.37

HASKELL COUNTY

27S 31W 09CDB 01	258.59
27S 31W 24CDC 03	PROV19 263.16
27S 31W 36BDC 01	305.98
27S 32W 06BCC 01	305.44
27S 32W 15CAB 02	300.89
27S 33W 19CDB 01	350.04
27S 33W 26CDB 01	366.14
27S 34W 16DDD 02	307.99
27S 34W 28DAA 02	333.44
28S 31W 19AAA 01	347.74

Well ID	Level	Well ID	Level
28S 31W 35CCB 01	266.58	25S 38W 20ACC 01	69.51
28S 32W 08ADD 01	384.99	26S 35W 04AAD 01	NMT
28S 33W 07CBB 01	432.38	26S 35W 29BBD 01	283.43
28S 33W 20ACD 01	417.43	26S 35W 36DDB 01	294.45
28S 34W 35CBB 01	393.01	26S 36W 21DDB 01	304.19
29S 31W 09CBB 01	320.69	26S 37W 06ACB 01	27.60
29S 32W 05CCB 01	PROV19 375.06	26S 37W 23BBC 01	251.82
29S 32W 19CCC 01	380.78		
29S 32W 24CCA 01	PROV19 348.63	KINGMAN COUNTY	
29S 33W 28BCB 02	394.99	27S 06W 12CCD 01	7.87
30S 31W 09CBB 01	311.17	27S 06W 16CCB 01	3.03
30S 32W 22BBB 01	343.09	27S 07W 03ADC 02	3.10
30S 32W 31BBC 01	PROV18 332.95	27S 08W 17DAC 01	33.50
30S 32W 35BBA 01	307.41	27S 08W 35CBC 01	19.68
30S 33W 14CBD 01	374.88	27S 09W 17CAA 01	PROV19 56.30
30S 34W 05BBB 01	368.83	27S 10W 03DDD 01	52.79
30S 34W 11BBC 01	371.49	27S 10W 17DDD 01	64.84
30S 34W 31BDB 01	210.63	28S 07W 29CDD 01	25.39
HODGEMAN COUNTY			
22S 24W 15BDA 01	257.83	28S 07W 35CCD 01	21.65
22S 24W 26DDA 01	163.60	28S 08W 21BBB 01	2.17
22S 24W 35DAC 01	112.02	28S 09W 01BCC 01	6.32
23S 22W 07DAA 01	89.35	28S 09W 21AAA 01	28.88
23S 23W 04AAD 01	28.64	28S 09W 29CCC 01	34.00
23S 23W 04DCA 01	27.40	28S 09W 34AAB 01	43.81
23S 24W 11DAA 01	134.36	28S 10W 16BCB 01	55.15
23S 26W 07CCC 01	326.13	29S 06W 20ACC 01	19.64
23S 26W 20CCC 01	46.09	29S 06W 24CDD 01	11.59
23S 26W 20DCC 01	67.90	29S 08W 06DBC 01	19.15
23S 26W 31CDD 01	66.66	29S 09W 18DCB 01	63.39
24S 23W 03CCC 01	61.58	29S 09W 23DDD 01	11.60
24S 23W 06AAB 01	224.36	29S 10W 19DDB 01	22.20
24S 24W 02CCC 01	56.97	30S 05W 12CCA 02	21.84
24S 24W 20CCC 01	63.25	30S 10W 05BBD 01	42.99
24S 25W 22BAB 01	80.75	30S 10W 13AAC 01	73.57
KEARNY COUNTY			
		30S 10W 28DAC 01	19.42
22S 37W 34BBC 01	133.21	KIOWA COUNTY	
23S 35W 05ACC 01	163.21	27S 16W 10BAC 01	37.53
23S 35W 12CCC 02	190.63	27S 16W 19BBD 01	43.57
23S 35W 24BBB 03	PROV18 183.62	27S 16W 28CDD 01	75.29
23S 35W 25BBB 03	151.46	27S 17W 21ADC 01	48.78
23S 36W 04CBB 01	144.54	27S 18W 09ABD 01	77.10
23S 36W 32BBB 02	250.71	27S 18W 13AAA 01	41.34
23S 37W 04ABC 01	198.71	27S 18W 18DDC 01	35.27
23S 38W 36BAA 03	238.13	27S 18W 22ADC 01	42.00
24S 35W 09CCC 02	57.55	27S 18W 35AAC 01	49.82
24S 35W 11CBC 01	44.77	27S 19W 16DBD 01	76.24
24S 36W 01ADA 01	102.09	27S 20W 26ABD 02	58.00
24S 36W 23CBB 02	38.63	27S 20W 32ABD 01	58.90
25S 35W 02BAA 01	216.66	28S 16W 12BCA 01	111.38
25S 35W 26BBB 01	284.56	28S 16W 17AAC 01	127.47
25S 36W 05BCA 01	6.75	28S 16W 31DCA 01	76.92
25S 36W 14B 01	151.25	28S 17W 01CAB 01	71.39
25S 36W 19CDB 01	PROV18 131.54	28S 17W 15DDB 01	107.85
25S 36W 35CBB 01	209.11	28S 18W 19CCB 01	98.38
25S 37W 15ABA 02	1.08	28S 18W 25CAC 01	117.99
25S 38W 08CAA 01	45.53	28S 19W 10AAC 01	111.12
		28S 19W 33CBD 01	141.64
		28S 20W 01DCB 02	PROV18 82.76

Well ID	Level	Well ID	Level
28S 20W 30ACA 01	50.68	20S 22W 35BCC 01	31.63
29S 16W 02ADB 02	55.95	20S 23W 32CDA 03	36.49
29S 17W 04ABC 01	56.92	20S 26W 07BDC 01	20.92
29S 17W 12DAA 01	53.95		
29S 18W 07BBD 01	156.17	NORTON COUNTY	
29S 19W 22BAA 01	159.27		
29S 20W 11CDD 01	169.83	01S 21W 08CCD 01	140.37
		01S 21W 28CCD 01	88.00
LANE COUNTY		01S 22W 33DCC 01	92.54
		01S 24W 13BCB 01	111.39
16S 29W 26CCD 01	113.81	01S 25W 25BBB 01	36.60
16S 29W 33BAB 01	115.41	02S 21W 02DDB 01	15.73
16S 30W 29CDD 01	131.94	02S 21W 18CAA 01	12.68
17S 27W 20CCC 01	100.66	02S 21W 33CCC 01	85.69
17S 27W 26CCC 01	94.94	02S 21W 36CAA 01	115.37
17S 28W 07BBB 01	109.80	02S 22W 28DCC 01	31.98
17S 28W 15BBC 01	115.43	02S 23W 05DCA 01	93.54
17S 28W 26ABB 01	109.70	02S 23W 22AAA 01	71.15
17S 28W 34CBB 01	98.64	02S 23W 36BAC 01	23.98
17S 29W 07DAA 01	125.48	02S 24W 16ADC 01	137.29
17S 29W 36BAA 01	94.59	02S 25W 14AAA 01	130.57
17S 30W 20BBB 01	120.48	02S 25W 35DBD 01	86.33
18S 28W 18ACC 01	66.53	03S 21W 29DCC 01	102.77
18S 29W 04DDA 01	74.51	03S 22W 27BBA 01	151.05
18S 29W 23DBC 01	15.98	03S 23W 34ADD 02	81.14
18S 30W 02AAA 01	91.59	03S 24W 35ADB 01	PROV19 156.84
18S 30W 02BBB 01	85.01	03S 25W 33AAD 01	28.78
18S 30W 04BAB 01	84.03	04S 21W 35DDC 01	14.37
18S 30W 23AAA 01	55.78	04S 23W 19DDB 01	131.13
		04S 25W 28BAA 01	149.00
MCPHERSON COUNTY		04S 25W 34CDC 01	87.69
		05S 21W 25ADC 01	137.06
18S 03W 30CCC 02	117.44	05S 22W 18CCD 01	7.99
18S 04W 21CCC 01	14.60	05S 24W 14BDC 01	12.63
19S 01W 32DAC 01	47.90	05S 24W 20CCC 01	11.26
19S 04W 15AAC 01	90.26	05S 25W 28DCC 01	17.42
20S 01W 22BBB 01	7.43		
20S 02W 34CBD 01	17.84	OSBORNE COUNTY	
20S 03W 22DAA 01	49.40		
20S 03W 30BBD 01	64.52	07S 12W 28ABA 01	32.29
20S 04W 02DAD 01	78.38	07S 15W 10CCC 01	16.01
20S 04W 15BDD 01	62.70		
20S 04W 27DBD 01	52.37	PAWNEE COUNTY	
21S 02W 36ABD 01	9.87		
21S 03W 06CBD 01	53.85	21S 15W 11CBB 01	9.62
21S 03W 11AAC 01	45.94	21S 15W 17CCC 01	14.90
21S 03W 33BBC 01	49.88	21S 15W 29BAB 01	NMT
21S 04W 26CDC 03	35.90	21S 15W 31BAD 02	PROV19 19.64
		21S 19W 27CCC 01	50.86
NESS COUNTY		21S 20W 29BBB 01	50.86
		22S 15W 03AAA 01	35.81
16S 24W 15ABB 01	27.50	22S 15W 03AAA 02	37.69
16S 26W 24DDA 01	61.29	22S 15W 13DCA 02	49.99
18S 21W 25AAB 01	25.41	22S 15W 33DDD 01	41.47
18S 21W 31CAA 01	27.57	22S 16W 03CBC 02	13.81
18S 24W 36ADB 01	32.68	22S 16W 06BBA 01	15.15
18S 25W 33BBC 01	22.71	22S 16W 23AAA 01	42.02
18S 26W 06BAB 02	6.38	22S 16W 32CDD 02	38.23
19S 23W 01CCB 01	93.29	22S 17W 05BBC 02	20.15
19S 23W 08CBB 01	18.61	22S 17W 18AAD 01	33.01
20S 22W 20CCC 04	29.86	22S 17W 24CBC 01	9.95

Well ID	Level	Well ID	Level
22S 17W 27BBD 01	17.61	29S 11W 29AAD 01	66.78
22S 18W 04BCC 02	33.63	29S 12W 12BAD 01	PROV18 86.66
22S 19W 07AAA 01	69.60	29S 12W 20CCD 01	99.78
23S 15W 12DDB 01	31.24	29S 13W 12ABB 01	74.68
23S 16W 11CDC 02	30.01	29S 13W 31CAA 01	33.77
23S 16W 35CCD 02	32.62	29S 14W 12BAA 04	104.66
23S 17W 25AAC 01	28.40	29S 14W 31ACA 01	105.46
23S 17W 33CCA 02	38.73	29S 15W 22DDD 01	22.10
23S 18W 28DAD 01	8.29		
23S 18W 36DAC 01	32.28		
		RENO COUNTY	
PHILLIPS COUNTY		22S 04W 12CDA 01	33.21
01S 16W 10ABA 01	14.03	22S 06W 18BCB 01	6.31
01S 16W 31CBB 02	PROV18 42.35	22S 06W 28CCB 01	6.82
01S 17W 21DDD 01	UTM	22S 07W 16BAD 01	6.87
01S 17W 31AAA 01	16.77	22S 08W 33CCD 02	6.96
01S 18W 06BDD 01	25.79	22S 09W 03BBD 01	32.75
01S 18W 34DCD 01	80.12	22S 09W 25BBA 01	20.10
01S 20W 02CCB 01	79.15	22S 10W 02DCC 01	2.94
01S 20W 32ACB 01	16.07	22S 10W 08BBB 01	9.21
02S 18W 06BBC 01	100.01	22S 10W 30DAA 01	11.78
02S 19W 09BBB 01	116.77	23S 04W 03BAB 02	6.30
02S 20W 28BDD 01	36.55	23S 04W 16BBB 01	28.27
04S 18W 27DDD 03	9.65	23S 05W 05DDC 01	12.85
04S 19W 35DDD 01	15.49	23S 05W 31CCB 01	12.09
		23S 06W 31DCB 01	33.43
PRATT COUNTY		23S 07W 20BCC 01	2.43
26S 11W 01DDB 01	24.25	23S 08W 18AAD 01	6.96
26S 11W 27AAC 01	24.71	23S 08W 22AB 01	5.99
26S 11W 29BCB 01	18.08	23S 09W 05CBD 01	12.98
26S 12W 02ABA 01	35.72	23S 09W 21DDB 01	4.78
26S 12W 17CCA 01	43.02	23S 09W 35CCC 01	15.98
26S 12W 34CDC 01	43.23	23S 10W 01AAA 03	6.44
26S 12W 34CDC 02	42.65	23S 10W 29DCA 01	14.33
26S 13W 16DAA 02	26.95	24S 04W 05CBD 02	9.42
26S 13W 19BBD 01	29.90	24S 04W 25BBD 01	4.96
26S 13W 34BCB 01	55.17	24S 04W 31DAB 02	24.64
26S 14W 17DBC 01	33.40	24S 05W 10CCA 01	20.75
26S 15W 01AAB 01	24.05	24S 06W 03AAB 01	31.62
26S 15W 17BBC 01	27.03	24S 06W 23CBA 01	12.97
27S 11W 12CBC 01	50.11	24S 07W 28AAA 01	13.84
27S 11W 18CAA 01	66.48	24S 08W 01BBB 01	7.32
27S 12W 33CBA 01	NMT	24S 09W 19DDB 01	25.61
27S 13W 13DDC 01	61.85	24S 10W 06DBB 01	23.69
27S 13W 19A 01	64.17	24S 10W 31CBC 01	10.41
27S 14W 03DAC 01	50.52	25S 04W 02ABB 01	6.45
27S 15W 02ABC 01	40.68	25S 07W 07BBD 01	19.34
27S 15W 05CDB 01	38.39	25S 07W 36CCC 01	27.56
27S 15W 32CCA 01	62.45	25S 09W 01DCD 01	14.01
27S 15W 36ADD 01	83.49	25S 09W 17B 01	18.50
28S 11W 12ACC 01	35.11	25S 09W 30DDA 01	16.08
28S 11W 20CAC 01	70.96	25S 10W 14BBB 01	28.59
28S 11W 34D 01	PROV18 71.77	25S 10W 19ABD 01	36.89
28S 12W 21BAD 01	85.61	26S 06W 13BAB 01	6.50
28S 13W 02DDC 01	12.53	26S 07W 12DCC 02	36.18
28S 13W 17AAA 01	72.41	26S 08W 06DCC 01	3.00
28S 13W 26DCB 01	95.41	26S 08W 14BCC 01	PROV19 14.14
28S 14W 14CCC 01	83.12	26S 08W 30DBB 01	41.68
28S 15W 23CCD 01	114.29	26S 09W 18AAA 01	5.58
		26S 09W 31DCC 01	52.63
		26S 09W 34DBD 01	25.59

Well ID	Level
26S 10W 18CDC 01 -----	25.44
26S 10W 32BBD 02 -----	25.46

RICE COUNTY

19S 10W 07DDB 01 -----	7.50
19S 10W 36CDC 01 -----	8.49
20S 08W 22AAA 01 -----	10.37
20S 09W 28ACD 01 -----	19.34
20S 10W 27BBB 01 -----	32.66
21S 07W 26CCA 01 -----	10.75
21S 08W 09CBD 01 -----	10.30
21S 08W 25ABB 01 -----	3.48
21S 08W 32DBB 01 -----	5.85
21S 09W 02DDA 01 -----	11.56
21S 09W 08BDB 01 PROV19	8.87
21S 10W 07CCA 01 -----	2.30

ROOKS COUNTY

06S 19W 17BBB 01 -----	14.89
07S 17W 14CDD 01 -----	15.09
09S 17W 33BBC 01 -----	33.84
09S 19W 32DDD 01 -----	28.00
09S 20W 32AAA 01 -----	39.05
09S 20W 34AAD 01 -----	55.61

SCOTT COUNTY

16S 31W 31BCB 01 -----	140.19
16S 32W 16BCA 01 -----	154.93
16S 33W 19BBC 01 -----	168.38
16S 33W 33BAA 01 -----	165.74
16S 34W 13BBB 01 -----	168.56
16S 34W 29CBB 01 -----	175.01
17S 31W 04DCC 01 -----	136.98
17S 31W 19CDA 01 -----	150.29
17S 31W 35CCB 01 -----	107.84
17S 32W 16BBB 01 -----	162.80
17S 32W 27BBB 01 -----	162.81
17S 33W 07BBA 01 -----	157.14
17S 33W 14ACB 01 -----	163.42
17S 34W 16ACB 02 -----	149.01
17S 34W 25DBB 02 -----	149.34
18S 31W 24BCB 01 -----	69.32
18S 32W 14BBB 01 -----	125.79
18S 32W 17ABA 02 -----	146.26
18S 33W 01AAA 01 -----	139.93
18S 33W 03CCB 01 -----	138.32
18S 33W 25BBB 01 -----	137.20
18S 34W 25BBD 01 -----	113.64
18S 34W 34BBC 01 -----	113.99
19S 31W 17ADA 01 -----	69.63
19S 32W 06CCB 01 -----	88.80
19S 32W 16BCD 01 -----	65.15
19S 32W 32ACB 01 -----	97.69
19S 33W 06DBB 01 -----	62.06
19S 33W 15DBD 01 -----	131.16
19S 33W 29CBB 03 -----	119.43
19S 34W 19DCC01 -----	126.44
20S 31W 15DAB 01 -----	19.44

Well ID	Level
20S 32W 30BCD 01 -----	134.69
20S 33W 09BBB 01 -----	104.27
20S 33W 21ABA 01 -----	135.57
20S 33W 36CAD 01 -----	126.42
20S 34W 15BAA 01 -----	102.19
20S 34W 36CCD 01 -----	67.91

SEDGWICK COUNTY

25S 01W 07ABD 01 -----	18.99
25S 01W 28DBA 01 -----	14.37
25S 02W 22BBB 01 -----	7.30
25S 02W 23DBD 02 -----	12.62
25S 03W 03DDD 01 -----	10.60
25S 03W 15CCC 01 -----	19.74
26S 01W 12BAD 01 -----	15.80
26S 01W 19ABA 01 -----	7.48
26S 02W 08AAB 01 -----	29.48
26S 02W 29AAA 01 -----	22.29
26S 03W 02AAC 01 -----	19.50

SHERIDAN COUNTY

06S 26W 26CBB 01 -----	169.75
06S 27W 05CBB 01 -----	110.89
06S 27W 08DCA 01 -----	23.37
06S 27W 19ADC 01 -----	42.18
06S 27W 25ABA 01 -----	161.68
06S 28W 21BCD 01 -----	123.13
06S 28W 28CDA 01 -----	56.14
06S 29W 10DBC 01 -----	138.24
06S 29W 24ABB 01 -----	121.72
06S 30W 13BAA 01 -----	138.81
06S 30W 14CCD 01 -----	120.38
07S 26W 12BDB 01 -----	102.14
07S 26W 19BBC 01 -----	133.27
07S 26W 28CAB 01 -----	160.49
07S 27W 07A 01 -----	176.59
07S 27W 22DAC 01 -----	126.30
07S 28W 08DCC 01 -----	191.51
07S 28W 36ABA 01 -----	158.17
07S 29W 05BBB 01 -----	132.14
07S 29W 27CCC 01 -----	216.63
07S 29W 30ABA 01 -----	194.31
07S 30W 08CBB 01 -----	125.24
07S 30W 27DDD 01 -----	193.38
08S 26W 14DAA 01 -----	15.60
08S 26W 16CDD 01 -----	37.79
08S 27W 11DCD 01 -----	12.40
08S 27W 18DAA 01 -----	16.79
08S 27W 33BBD 01 -----	17.94
08S 27W 35CBB 01 -----	127.80
08S 28W 11DAA 01 -----	108.80
08S 28W 16AAC 01 -----	116.11
08S 28W 17BDA 01 -----	138.83
08S 29W 01BDD 01 -----	183.96
08S 30W 05CDD 01 -----	203.26
08S 30W 11CBC 01 -----	222.70
08S 30W 13ADA 01 -----	189.46
08S 30W 30AAB 01 -----	170.57
09S 26W 22BBB 01 -----	136.40

Well ID	Level
09S 26W 32BCD 01	85.90
09S 27W 12CCC 01	108.83
09S 27W 20CBD 01	147.22
09S 27W 31ABB 01	96.62
09S 28W 04BCC 01	31.35
09S 28W 15CBA 01	172.46
09S 29W 03AAA 01	129.14
09S 29W 17BAB 01	125.79
09S 30W 09CAA 01	158.37
09S 30W 35BBB 01	163.01
10S 26W 12AAD 01	20.88
10S 27W 20CBC 02	18.09
10S 27W 22DBA 01	18.42
10S 28W 05DDB 01	122.86
10S 29W 02DDD 01	94.77
10S 29W 20CAA 01	71.64
10S 30W 08DDD 01	105.86
10S 30W 12ADA 01	109.65
STAFFORD COUNTY	
21S 11W 07BBB 01	17.74
21S 12W 06CCB 02	25.37
21S 13W 27DDD 02	11.70
21S 14W 22AAC 02	25.35
21S 14W 32BAC 02	34.18
22S 11W 07BBB 01	UTM
22S 12W 05CBB 01	PROV18 32.41
22S 12W 36BBB 02	3.11
22S 13W 12CAC 02	25.80
22S 13W 29DAD 01	20.64
22S 14W 14CCA 01	25.68
22S 14W 35DDB 01	33.32
23S 11W 22BCC 01	22.94
23S 11W 36CCA 01	16.51
23S 12W 07DBD 02	6.95
23S 12W 22BCC 01	11.48
23S 12W 36BBC 01	14.10
23S 13W 08CCB 01	13.84
23S 13W 30CBB 01	13.35
23S 13W 35CCA 01	21.48
23S 14W 15ADD 01	13.23
24S 11W 17DDB 01	20.44
24S 12W 04CDB 01	19.14
24S 12W 17CAB 01	26.60
24S 12W 34ABC 01	20.43
24S 13W 20CDD 01	26.40
24S 13W 36DDD 01	22.84
24S 14W 17AAC 02	34.10
24S 14W 31BBD 01	22.09
24S 15W 10BAB 01	29.27
24S 15W 32DBC 01	29.71
25S 11W 23DDD 01	16.77
25S 12W 11AAA 01	10.04
25S 12W 24DDB 01	12.62
25S 13W 16AAC 01	29.19
25S 13W 31DDA 01	25.58

Well ID	Level
25S 13W 36DCC 01	14.71
25S 14W 04AAD 01	13.64
25S 14W 30CDB 01	17.02
25S 15W 29BBD 01	12.35
TREGO COUNTY	
11S 21W 29DDD 01	94.30
11S 21W 33DAA 01	68.17
11S 22W 34AAA 01	81.09
11S 24W 20CCC 01	61.81
12S 21W 05AAA 01	91.27
12S 21W 05DDD 01	75.70
12S 21W 06CBB 01	95.96
12S 21W 08DDD 01	35.40
12S 22W 08BAB 01	85.94
12S 22W 19CBB 01	89.13
12S 22W 23ABC 01	76.28
12S 23W 20CCC 01	15.76
12S 24W 21DDD 01	12.28
13S 23W 24AAB 01	26.60
14S 25W 13ABC 01	14.41

END APPENDIX B