

2012 Water Level Data Acquisition Statistics

Brett Bennett and Mary Brohammer
Exploration Services Section
Kansas Geological Survey
1930 Constant Avenue
Lawrence, Kansas 66047

The 2012 Water Level data were published on the Web and not in paper form. You can search for specific wells on the Kansas Geological Survey website at www.kgs.ku.edu/Magellan/WaterLevels/index.html

2012 Water Level Data Acquisition Statistics

Summary

The field-measurement phase of the 2012 annual cooperative water-level measurement program was successfully completed by both the Kansas Geological Survey (KGS) and the Division of Water Resources (DWR), Kansas Department of Agriculture, prior to March 1, 2012. 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 97.9% of the 1,393 network wells in 2012. The KGS measured 498 wells and the three DWR offices (Garden City, Stafford, and Stockton) measured 895 wells. Data acquisition by KGS staff was completed in January.

Based on spatial analysis of the 2011 annual network-well distribution, 13 locations were identified that required additional water-level data to permit continuous and uniform sampling of the High Plains aquifer. Wells were identified in these locations with sufficient construction and historical information and landowner cooperation to attempt a water-level measurement. All 13 wells were measured. These 13 provisional wells were incorporated into the network for 2013 and will be measured in all future measurement campaigns unless the wells become unreliable or are plugged. Yearly geostatistical studies will define undersampled areas and will be used to select optimum locations for replacement wells to eliminate extraneous holes in the hexagonal network.

January 2012 Acquisition	KGS	DWR	Total
Number of network wells in 2012	498	895	1,393
Number of counties	14	33	47
2012 provisional (new) wells	5	8	13
# provisional wells measured	5	8	13
# wells successfully measured	477	882	1,359
# wells MIA	16	13	29
# QA wells	49	93	142
# wells targeted for removal	0	1	1

KGS Field Crew, January 2012

Joe Anderson, Brett Bennett, Rex Buchanan, Rick Miller, Ed Reboulet, Justin Schwarzer, Brett Wedel, Tony Wedel, and Brownie Wilson

Wells Measured in 2012

Type of Well	KGS	DWR	Total
Irrigation	408	644	1,052
Unused (monitor or abandoned)	59	178	237
Stock	15	54	69
Household	6	6	12
Depth to Water			
Less than 100 ft	93	556	649
100 to 200 ft	242	233	475
200 to 300 ft	132	61	193
More than 300 ft	10	32	42
Drill Depth of Well			
Unknown	60	128	188
Less than 100 ft	44	270	314
100 to 200 ft	99	255	354
200 to 300 ft	141	130	271
300 to 400 ft	81	43	124
More than 400 ft	68	69	137
Measurement Characteristics			
Oil on the water	58 (11.6%)	79 (8.8%)	137 (9.8%)
Difficult measurement (restrictions, snags, catches)	29 (5.8%)	47 (5.3%)	76 (5.5%)

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	424	852	1,276
Twice	49	29	78
Three times	3	1	4
Four times	1	0	1
Total Measurements			
Primary, QA, and QC	556	932	1,488
Measurements Judged			
Excellent	406	641	1,047
Good	64	251	279
Fair	7	24	31

2012 Provisional Wells

KGS (5 new wells—5 measured)

33S 30W 22ADD 01	Meade
32S 42W 35CBC 01	Morton
09S 40W 10BBA 01	Sherman
27S 42W 36BCB 01	Stanton
18S 38W 12CCB 02	Wichita

DWR (8 new wells—8 measured)

25S 34W 08CAB 01	Finney
27S 26W 04BBD 01	Ford
29S 23W 16DDB 01	Ford
28S 34W 35CBB 01	Haskell
27S 18W 09ABD 01	Kiowa
17S 29W 07DAA 01	Lane
03S 23W 34ADD 02	Norton
06S 27W 25ABA 01	Sheridan

Wells Tagged in 2012 for Removal from the Network and Reason

KGS (0 wells)

DWR (1 well)

27S 27W 10CDB 01	Gray	No MP
------------------	------	-------

Appendices

The two appendices to this report are summary tables.

Appendix A Contains a summary of information for all wells measured by KGS. This appendix includes only county, well legal description (ID), and 2012 depth of water below ground surface (BGS). Quality Assurance measurements (QA) and Provisional wells (PROV) are also identified.

Appendix B Contains a summary of information for all wells measured by DWR. This appendix includes only county, well legal description (ID), and 2012 depth of water below ground surface (BGS). Quality Assurance measurements (QA) and Provisional wells (PROV) 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. Just the Township-Range-Section identifier and the water level for each well measured are also provided in tabular form at www.kgs.ku.edu/Hydro/Levels/index.html.

APPENDIX A
Water Levels in Wells Measured by KGS by County, 2012
Including Provisional Wells (PROV) and Quality Assurance Measurements (QA)

Well ID	Level	QA Meas	Well ID	Level	QA Meas
CHEYENNE COUNTY			16S 40W 26ADA 01	129.77	
01S 38W 02CDC 01	26.38		16S 41W 11CCB 01	200.25	
01S 38W 08DCC 01	13.80		16S 42W 12CAA 01	233.92	
01S 38W 30CAB 01	10.58	* 10.60	16S 42W 22BCB 01	206.03	
01S 39W 25CBC 01	9.00		16S 42W 25AAA 01	197.75	
02S 37W 17CDD 01	215.68		17S 39W 02BAA 01	132.83	* 132.84
02S 37W 33DCC 01	219.47		17S 39W 22ABB 01	145.00	
02S 38W 27DAD 01	229.98		17S 40W 15CCB 01	147.33	
02S 39W 26DAA 01	84.26		17S 40W 17BBA 01	190.51	
02S 40W 28DBA 01	109.30		17S 40W 31BBA 01	167.48	* 167.46
02S 40W 32BCB 01	129.26		17S 42W 28DAB 01	27.17	
02S 41W 27BBD 01	199.86		18S 39W 07BBD 01	116.78	
02S 41W 33DBC 01	236.46	* 236.56	18S 39W 19CDA 01	77.23	
03S 37W 19BBC 01	239.48		18S 39W 24AAC 01	143.88	
03S 37W 21DDD 01	231.01		HAMILTON COUNTY		
03S 37W 36ADB 01	219.92		21S 39W 07CBA 01	175.92	* 175.59
03S 38W 04BCC 01	217.74		23S 42W 19CBB 01	25.05	
03S 38W 21BCB 01	245.92		23S 42W 26DCA 02	25.56	
03S 38W 25BBB 01	231.98		23S 42W 27ddb 01	22.41	
03S 39W 04CCC 01	65.48		23S 42W 34CBB 01	11.16	
03S 39W 20DAC 01	143.72		23S 43W 21ABA 03	14.97	
03S 39W 24DDD 01	229.14		23S 43W 23BCB 01	22.04	
03S 39W 32BDB 01	158.16		23S 43W 25CBD 03	9.51	
03S 40W 29ABC 02	9.87	* 9.89	23S 43W 26BCC 01	8.29	
03S 40W 35AAC 01	100.74		24S 39W 19CBC 01	9.72	
03S 41W 33ABB 01	158.38		24S 39W 22CCB 01	12.13	
04S 37W 17AAC 01	210.97		24S 39W 35BAC 01	8.99	
04S 37W 25DCA 01	167.29		24S 39W 35CBA 01	16.90	
04S 38W 04BAC 01	228.43		24S 40W 07CBB 01	15.24	
04S 38W 20CCC 01	167.30		24S 40W 17BBB 01	15.05	
04S 38W 21ADC 01	195.58		24S 40W 23AAB 01	26.76	
04S 39W 15CCA 01	147.47		24S 40W 31BBB 01	61.87	
04S 41W 16DAA 01	18.14		24S 41W 01DAD 01	26.49	
04S 41W 23AAA 01	126.65		25S 39W 02CAD 01	30.50	
04S 41W 25BCB 02	149.50		25S 39W 23BDD 01	85.55	
04S 42W 02BCC 01	214.37		25S 40W 01CA 01	49.50	
04S 42W 16CCD 01	94.59		25S 40W 26BBB 01	231.55	
05S 37W 15DBB 01	155.88		25S 43W 03ABB 01	274.14	
05S 38W 13BAD 01	86.04		25S 43W 25CCD 02	295.04	PROV12
05S 38W 22ACB 01	109.31		26S 41W 20BCD 01	62.51	
05S 39W 06DAA 01	223.22	* 223.25	26S 41W 32DAC 01	236.67	
05S 39W 11CBC 01	165.32		26S 42W 10BBB 04	181.71	
05S 39W 25CDA 01	143.85		26S 42W 17CBB 01	NMT	
05S 40W 14BCD 01	240.08		26S 42W 22DCC 02	250.97	
05S 40W 18ADB 01	245.85		26S 43W 25DCC 01	288.38	
05S 40W 27BBA 01	227.85		LOGAN COUNTY		
05S 41W 34CBB 01	209.34		11S 32W 01BCC 01	118.36	
05S 42W 04AAB 01	18.29		11S 32W 19AAB 01	109.51	
05S 42W 14DCC 01	142.01		11S 32W 31CCD 01	65.85	
GREELEY COUNTY			11S 32W 36ABA 01	96.88	
16S 39W 02BDC 01	174.39		11S 33W 10BDD 01	119.06	
16S 40W 15ACC 01	173.51		11S 33W 14DCC 01	135.12	
16S 40W 17CBC 01	195.51				

Well ID	Level	QA Meas	Well ID	Level	QA Meas
11S 34W 13AAB 01	-----	144.88	33S 41W 03ADA 01	-----	171.94
11S 34W 16CDB 01	-----	117.53	33S 41W 33AAC 01	-----	62.72
11S 34W 33DDC 01	-----	137.69	33S 42W 21BCB 01	-----	99.44
12S 32W 16ACA 01	-----	26.56	33S 43W 09DBA 01	-----	105.36
12S 32W 35DAA 01	-----	UTM	34S 39W 06CCA 01	-----	131.28
13S 36W 20CCB 01	--QA--	8.76 * 8.80	34S 40W 16ABB 01	-----	153.41
MEADE COUNTY			34S 40W 27BBB 01	-----	NMT
30S 26W 04CBB 02	-----	119.98	34S 41W 06CCA 01	-----	41.73
30S 26W 32DDD 01	-----	29.35	34S 41W 26DCD 01	-----	159.84
30S 27W 20ABA 01	-----	124.45	34S 41W 28CBA 01	-----	125.74
30S 27W 23ABB 01	-----	110.94	34S 42W 05BDC 01	-----	40.94
30S 27W 27BBB 01	-----	91.99	34S 42W 22CDB 01	--QA--	84.35 * 84.22
30S 28W 17ABB 01	-----	208.65	34S 43W 08DCA 01	-----	130.05
30S 29W 28BBB 01	--QA--	221.72 * 222.95	35S 39W 06CDD 01	-----	255.05
30S 30W 04DBB 01	-----	271.59	35S 40W 03BBB 03	--QA--	194.77 * 194.73
30S 30W 28ABB 01	-----	261.69	35S 41W 16CCD 01	-----	220.14
31S 26W 30BBB 01	-----	111.72	35S 42W 16DCC 01	-----	254.32
31S 27W 20AAA 02	--QA--	96.06 * 95.98	35S 43W 04AAC 01	-----	115.39
31S 28W 02CCC 01	-----	175.67	35S 43W 13BDB 01	-----	232.62
31S 28W 10BCB 02	-----	186.85	RAWLINS COUNTY		
31S 28W 26ABB 01	-----	102.80	01S 33W 24DADD01	-----	195.66
31S 29W 02DBB 01	-----	224.48	01S 33W 29CCC 01	-----	108.84
31S 29W 24DCC 01	PROV12	225.04	01S 35W 24CCA 01	-----	117.05
31S 29W 30AAA 01	-----	215.90	02S 31W 03CAD 01	-----	19.66
31S 30W 16BCD 01	-----	266.40	02S 32W 13ACAA01	-----	15.96
32S 28W 04ADD 01	-----	93.65	02S 32W 20DCD 01	-----	16.68
32S 29W 22DCC 01	-----	185.77	02S 33W 26DCC 01	-----	26.75
32S 30W 09CCC 01	--QA--	249.13 * 249.15	02S 35W 13ABB 01	-----	165.75
32S 30W 25A 02	-----	211.15	02S 36W 11BBCC01	-----	191.20
33S 28W 29BCB 01	-----	18.77	02S 36W 36BAA 01	-----	177.89
33S 29W 19D 01	-----	185.71	03S 31W 07CBD 01	-----	142.15
33S 29W 36AAB 01	-----	95.96	03S 33W 03DCC 02	-----	29.31
33S 30W 22ADD 01	PROV12	234.16	03S 33W 08CDC 01	-----	20.19
34S 28W 05BDA 01	-----	28.55	03S 34W 03ABB 01	--QA--	14.00 * 13.90
34S 29W 32BA 01	-----	159.74	03S 34W 26BAC 01	-----	UTM
34S 30W 22CBC 01	-----	220.66	03S 35W 18CBB 01	-----	206.69
35S 30W 10CDA 01	-----	30.16	03S 35W 24CBB 01	--QA--	25.05 * 24.94
MORTON COUNTY			03S 36W 14CBB 01	-----	212.10
31S 39W 18CCC 01	-----	237.36	03S 36W 17CCC 01	-----	223.05
31S 40W 11A 01	-----	260.81	03S 36W 21DBC 01	-----	212.74
31S 40W 29ABB 01	--QA--	201.98 * 199.47	04S 31W 16ABD 01	-----	9.81
31S 41W 07CDD 01	-----	134.10	04S 33W 10ABC 01	-----	139.77
31S 41W 31CBC 01	-----	104.13	04S 33W 14DAC 01	-----	19.36
31S 42W 29AAB 01	-----	112.01	04S 34W 08ABA 02	-----	20.59
31S 43W 03CB 01	-----	63.45	04S 34W 33CBC 01	--QA--	118.09 * 122.72
32S 39W 06BBB 01	-----	233.81	04S 35W 09AB 01	-----	185.75
32S 40W 07BDC 01	-----	122.22	04S 35W 29DDD 01	--QA--	149.68 * 149.60
32S 40W 21ADB 01	-----	192.06	04S 36W 23CBB 01	-----	223.98
32S 41W 15CDC 01	-----	28.21	04S 36W 23DCA 01	-----	220.88
32S 41W 35DCC 01	-----	184.61	05S 31W 10DDA 01	-----	41.90
32S 42W 32CAA 01	-----	48.02	05S 31W 20CCA 01	-----	31.87
32S 42W 35CBC 01	PROV12	142.05	05S 32W 14CDD 01	-----	128.06
32S 43W 08CBD 01	-----	129.27	05S 33W 29BDA 01	-----	23.78
32S 43W 28BBC 01	-----	83.69	05S 34W 01BBB 01	-----	111.13
33S 39W 04DBB 02	-----	132.99	05S 35W 11CCC 01	--QA--	149.57 * 149.45
33S 39W 16ABB 01	--QA--	97.98 * 98.34	05S 35W 30CBC 01	-----	178.75
33S 40W 27CCC 01	-----	85.95	05S 36W 21BCD 01	-----	24.33

Well ID	Level	QA Meas	Well ID	Level	QA Meas
SEWARD COUNTY			07S 41W 28DBB 01	-----	149.38
31S 31W 03CCC 01	-----	272.49	07S 42W 07DAA 01	-----	210.17
31S 32W 01ABC 01	-----	288.95	07S 42W 27AAB 01	-----	188.65
31S 32W 28DCA 01	-----	274.27	08S 37W 03ADB 01	--QA--	175.33 * 174.99
31S 32W 31BBB 01	-----	263.27	08S 37W 21CCC 01	-----	158.17
31S 33W 06CBD 01	--QA--	303.60 * 303.56	08S 37W 32ABB 01	-----	114.71
31S 33W 20DBB 01	-----	259.27	08S 38W 17CDD 01	-----	187.49
31S 34W 30DBA 01	-----	267.11	08S 38W 24AAB 01	--QA--	138.12 * 140.78
32S 31W 03DAA 01	-----	264.50	08S 39W 15CCC 02	--QA--	186.23 * 186.14
32S 31W 08BBB 01	-----	262.70	08S 40W 12DBA 01	-----	185.32
32S 31W 26CAA 01	-----	269.38	08S 40W 17CDB 01	-----	159.00
32S 32W 14BBB 02	-----	274.70	08S 41W 17CBA 01	-----	169.64
32S 32W 19BAB 01	--QA--	258.10 * 258.15	08S 41W 25BBC 01	--QA--	143.10 * 143.07
32S 33W 32DBD 01	-----	217.41	08S 42W 15DDB 01	-----	155.08
32S 34W 10DAA 01	-----	275.73	08S 42W 31DCD 01	-----	105.17
32S 34W 29CCC 01	-----	268.40	09S 37W 07DDB 01	-----	95.13
33S 31W 09AAB 01	-----	237.90	09S 38W 13BCC 01	-----	82.98
33S 32W 02AAC 01	-----	244.99	09S 39W 01DBA 01	-----	164.43
33S 32W 28CDD 02	-----	68.54	09S 39W 02BAB 01	--QA--	199.09 * 199.02
33S 33W 12AAD 01	-----	36.00	09S 39W 10CCB 01	-----	167.02
33S 33W 20BCC 01	-----	249.22	09S 39W 19CCC 02	-----	162.21
33S 34W 17DCC 01	--QA--	222.35 * 222.32	09S 40W 10BBA 01	PROV12	180.74
34S 31W 01CAA 01	-----	240.94	09S 40W 13CDC 01	-----	186.54
34S 31W 22BDD 01	-----	NMT	09S 40W 29BBB 01	-----	192.33
34S 31W 30BBB 01	-----	222.35	09S 41W 05DCC 01	-----	206.47
34S 32W 29BAA 01	-----	202.81	09S 41W 14BBC 01	-----	220.78
34S 32W 35ADA 01	-----	204.12	09S 41W 34BAB 01	-----	187.71
34S 33W 07CCB 01	-----	185.37	09S 42W 14AAA 01	-----	208.53
34S 34W 16DAA 01	-----	231.04	09S 42W 35ABB 01	--QA--	191.56 * 191.72
35S 31W 10AAC 01	-----	204.72	10S 40W 10ADC 01	-----	25.79
35S 33W 15ABC 01	-----	NMT	10S 41W 15CAD 01	-----	41.44
35S 33W 16BCA 01	--QA--	156.99 * 157.05	10S 42W 20ABB 01	-----	148.35
35S 34W 10BBB 01	-----	149.30	10S 42W 24BAB 01	-----	118.11
SHERMAN COUNTY			STANTON COUNTY		
06S 37W 07BBA 01	-----	12.60	27S 39W 27BBA 01	--QA--	274.20 * 274.22
06S 37W 16CDD 01	-----	185.25	27S 40W 10CAA 01	-----	191.18
06S 37W 19ABB 01	-----	170.18	27S 40W 25CBC 01	-----	238.66
06S 38W 09ABD 01	-----	171.81	27S 41W 07DCC 01	-----	225.90
06S 38W 18DBD 01	-----	145.06	27S 41W 35CCC 01	-----	203.39
06S 40W 10AAC 01	-----	181.06	27S 42W 17CCC 01	-----	261.50
06S 40W 13CBC 01	-----	164.23	27S 42W 36BCB 01	PROV12	284.59
06S 40W 30DCC 01	-----	185.20	27S 43W 09CBB 01	-----	271.00
06S 41W 19DBD 01	-----	207.18	28S 39W 16CCC 01	-----	235.31
06S 41W 27DBD 01	-----	183.24	28S 39W 36ABB 02	-----	248.82
06S 42W 02AAA 01	-----	214.66	28S 40W 04CCC 01	-----	273.33
06S 42W 22DCC 01	-----	220.33	28S 40W 12DDD 02	-----	249.63
06S 42W 30ADA 01	-----	227.45	28S 41W 02CCC 01	-----	253.43
07S 37W 04BBC 01	-----	159.23	28S 41W 17CDD 01	-----	273.79
07S 37W 05CCB 01	-----	160.44	28S 41W 34BDD 01	-----	324.39
07S 38W 28DAA 01	-----	164.56	28S 42W 20BCC 01	-----	255.70
07S 39W 01DCD 01	-----	145.86	28S 42W 32BBB 01	-----	220.50
07S 39W 09BBB 01	--QA--	129.93 * 130.77	28S 43W 01BAA 01	-----	272.80
07S 39W 24BAA 01	-----	164.89	29S 39W 21DBD 01	-----	272.88
07S 40W 06ADB 01	-----	185.14	29S 40W 06BCC 01	-----	352.30
07S 40W 29BBA 01	-----	159.63	29S 40W 28ABB 01	-----	326.99
07S 40W 35BBB 01	--QA--	145.41 * 145.85	29S 41W 14CDC 01	-----	313.28
07S 40W 36BAB 01	-----	152.97	29S 42W 27DAD 01	-----	235.50
07S 41W 07BCB 01	-----	221.84	29S 43W 21DCDD01	-----	108.99
			29S 43W 33CDB 01	-----	139.15

Well ID	Level	QA Meas	Well ID	Level	QA Meas
30S 39W 23BBB 02	-----	275.08	06S 34W 11CDD 01	-----	170.61
30S 40W 12BBB 02	-----	338.60	06S 34W 17CBC 01	-----	166.57
30S 40W 33CCB 01	-----	197.04	06S 35W 02CDD 01	-----	137.24
30S 41W 13CCC 02	-----	198.70	06S 35W 26ACB 01	-----	169.15
30S 41W 23DDB 01	-----	196.96	06S 36W 01CAC 01	-----	181.09
30S 42W 16BDB 01	-----	178.65	06S 36W 07BBB 01	--QA--	194.77 * 194.76
30S 43W 34BBA 01	-----	82.40	06S 36W 11ACC 01	-----	188.69
			06S 36W 30DCB 01	-----	172.27
STEVENS COUNTY			06S 36W 34DDB 01	-----	117.13
31S 35W 21CCC 01	--QA--	342.68 * 342.67	07S 31W 01DCA 01	-----	135.08
31S 36W 02CDD 01	-----	204.60	07S 32W 07ACA 01	-----	89.67
31S 37W 09BBC 01	-----	299.49	07S 32W 13DBD 01	-----	130.77
31S 37W 13BDD 01	-----	305.73	07S 32W 33BCB 01	-----	134.77
31S 37W 22BCC 01	-----	308.10	07S 33W 07BDA 01	--QA--	168.13 * 168.17
31S 37W 30DDB 01	-----	332.90	07S 34W 08DDD 01	-----	54.35
31S 38W 17ADB 01	-----	280.85	07S 34W 25AAA 01	-----	130.69
31S 39W 03DCC 01	-----	223.95	07S 34W 26DBD 01	-----	129.37
31S 39W 25ABB 01	-----	207.09	07S 35W 09CCC 01	-----	145.21
32S 35W 08DDD 01	-----	218.30	07S 36W 17CCC 01	-----	163.34
32S 35W 32DCD 01	-----	252.40	08S 31W 03CDD 01	-----	166.85
32S 36W 03DDC 01	-----	297.82	08S 31W 20CDD 01	-----	147.25
32S 36W 21AAC 01	-----	217.59	08S 32W 07BAA 01	-----	140.98
32S 37W 10DCC 01	-----	195.55	08S 32W 12DBC 01	-----	147.86
32S 37W 26BAC 01	-----	154.15	08S 32W 32DAA 01	-----	127.92
32S 38W 11CBB 01	-----	219.50	08S 33W 34BBC 01	-----	172.28
32S 39W 14DDD 01	-----	105.11	08S 34W 01BAC 01	-----	143.18
33S 35W 23CBB 01	-----	249.71	08S 34W 06CBC 01	-----	149.38
33S 36W 02CACC01	-----	261.15	08S 34W 23CBD 01	-----	203.32
33S 37W 17CCC 01	--QA--	178.35 * 178.05	08S 34W 29CCC 01	--QA--	227.17 * 228.11
33S 37W 28CAC 01	-----	187.36	08S 35W 04CCC 01	-----	98.65
33S 37W 35ACD 01	--QA--	UTM * 233.32	08S 36W 15CBB 01	--QA--	92.41 * 92.00
33S 38W 06AAB 01	-----	102.40	08S 36W 31BCD 01	-----	46.04
33S 38W 10ACC 01	-----	218.65	09S 31W 10BDD 01	-----	102.14
33S 38W 33CAA 01	-----	257.92	09S 31W 17CCC 01	-----	105.98
34S 35W 10BCC 01	-----	295.50	09S 31W 36AAB 01	-----	159.54
34S 35W 26ACC 01	-----	263.20	09S 32W 03AAA 01	-----	112.04
34S 36W 10CAC 01	-----	241.60	09S 32W 27BCD 01	-----	138.45
34S 37W 27ABC 03	-----	185.83	09S 33W 10BAD 01	--QA--	146.50 * 145.94
34S 37W 29BBD 01	-----	229.67	09S 33W 33BBB 01	--QA--	214.88 * 214.42
34S 37W 35AAD 01	-----	172.29	09S 33W 35AAD 01	--QA--	185.60 * 185.28
34S 38W 02ADC 01	-----	234.55	09S 34W 12ADA 01	-----	190.27
34S 38W 21DCCB01	-----	295.16	09S 34W 17ABA 01	--QA--	167.12 * 167.18
34S 39W 15CAD 01	-----	163.95	09S 35W 20DCA 01	-----	131.02
35S 35W 15BCC 01	-----	190.37	10S 31W 26AAA 01	-----	14.61
35S 36W 01AAA 01	-----	204.49	10S 31W 29AAB 01	-----	96.57
35S 37W 02DDD 01	-----	NMT	10S 32W 11BAA 01	-----	134.54
35S 37W 16BCC 01	-----	212.97	10S 32W 29DCB 01	-----	109.42
35S 38W 07CCC 01	-----	299.74	10S 33W 06BBC 02	PROV12	202.90
THOMAS COUNTY			10S 33W 11BAB 01	--QA--	175.15 * 174.25
06S 31W 03ADB 01	-----	118.77	10S 33W 19CBD 01	-----	108.86
06S 31W 14BCA 01	--QA--	94.50 * 95.30	10S 34W 12BCD 01	--QA--	180.95 * 178.32
06S 31W 19ABA 01	-----	124.71	10S 34W 29BBC 01	-----	UTM
06S 31W 33CCD 01	-----	46.12	10S 35W 09ABB 01	-----	109.58
06S 32W 12CBC 01	-----	121.56	10S 36W 16CCC 01	-----	142.67
06S 32W 29CDC 01	-----	132.34	WALLACE COUNTY		
06S 33W 02CDD 01	-----	124.27	11S 38W 35CCC 02	-----	126.26
06S 33W 07BBB 01	-----	144.40	11S 42W 08DDC 01	-----	120.43
06S 33W 23DDD 01	-----	17.92	11S 42W 10AAD 01	-----	137.35
			13S 39W 33BBB 01	-----	26.70

Well ID	Level	QA Meas	Well ID	Level	QA Meas
13S 43W 36ABB 02 --QA--	228.70	* 228.66	16S 38W 26BBB 01 -----	160.36	
14S 39W 28CAA 01 --QA--	162.39	* 162.34	17S 35W 02ABC 01 -----	167.39	
14S 40W 14CCC 01 -----	133.17		17S 35W 18DCC 01 -----	170.57	
14S 41W 22BBC 02 -----	191.48		17S 35W 27CCC 01 -----	162.26	
14S 42W 10BAA 01 -----	250.50		17S 35W 30CBB 02 -----	179.80	
14S 42W 13AAD 01 -----	228.78		17S 36W 33BCB 01 --QA--	177.08	* 176.52
14S 42W 32DBB 01 -----	240.54		17S 37W 08BAA 02 --QA--	154.00	* 154.14
14S 43W 25ACC 01 PROV11	248.00		17S 37W 13CDD 01 -----	143.59	
15S 38W 05CCB 01 -----	111.08		17S 37W 28CBC 01 -----	169.27	
15S 38W 14CCD 01 -----	119.79		17S 38W 21BBB 01 -----	133.50	
15S 38W 21CCC 01 -----	168.45		17S 38W 28CCC 01 -----	154.84	
15S 39W 02BCA 01 -----	162.53		18S 35W 08BBC 02 -----	138.48	
15S 39W 06CBC 01 -----	190.88		18S 35W 14DCD 01 -----	115.27	
15S 39W 08ACC 01 -----	190.95		18S 35W 31DDD 01 -----	103.81	
15S 39W 26ACC 01 -----	190.49		18S 36W 15DBD 01 -----	101.10	
15S 40W 03BAB 01 -----	173.52		18S 37W 21BBB 01 -----	163.23	
15S 40W 09DCB 01 -----	184.89		18S 37W 25ABC 01 -----	127.17	
15S 40W 22ADC 01 -----	176.85		18S 38W 02BCC 01 -----	167.45	
15S 41W 09BDD 01 -----	193.43		18S 38W 12CCB 02 PROV12	175.42	
15S 41W 27CBC 01 -----	228.09		18S 38W 20ACC 02 -----	144.31	
15S 41W 36DDB 02 -----	188.58		18S 38W 31DBC 01 -----	119.49	
15S 42W 32BDA 01 -----	243.70		19S 35W 01ABB 01 -----	109.12	
			19S 35W 08BBB 01 -----	104.65	
WICHITA COUNTY			19S 36W 15BAA 01 -----	81.74	
16S 35W 06AAB 01 -----	77.00		19S 37W 22AAB 01 -----	104.39	
16S 35W 13CCC 01 -----	164.50		19S 38W 24DAB 01 -----	94.16	
16S 35W 18CBB 01 -----	139.91		19S 38W 31CBC 01 -----	144.20	
16S 36W 27BBB 02 -----	163.75		20S 36W 24ACC 01 -----	UTM	
16S 36W 34CCC 02 -----	155.48		20S 38W 02ACA 01 -----	105.12	
16S 37W 17BBB 01 -----	169.43		20S 38W 17CBD 01 -----	141.43	
16S 37W 30BAB 01 --QA--	177.43	* 177.49			
16S 38W 04ABC 01 -----	176.17				
			END APPENDIX A		

APPENDIX B
Water Levels in Wells Measured by DWR by County, 2012
Including Provisional Wells (PROV) and Quality Assurance Measurements (QA)

Well ID	Level	QA Meas	Well ID	Level	QA Meas
BARBER COUNTY			05S 26W 33DCC 01	17.04	
30S 11W 11CCA 01	44.80		05S 27W 21CCA 01	98.73	
30S 11W 33ADA 01	20.98		05S 28W 07BBC 01	14.83	
30S 12W 04CCC 01	67.13		05S 28W 10BBB 01	8.36	
BARTON COUNTY			05S 28W 14ADD 01	129.93	
18S 14W 27CDD 01	37.45		05S 28W 17DAC 01	95.71	
18S 15W 28CCC 03	8.90		05S 29W 09CAB 01	71.11	
19S 11W 19BDD 01	20.55		05S 29W 22CBB 01	12.29	
19S 11W 26BDA 01	15.09		05S 30W 15CCB 01	89.08	
19S 12W 28DBC 02	16.19		05S 30W 25BBC 01	113.81	
19S 13W 08BAD 01	17.58		05S 30W 35BCB 01	118.34	
19S 13W 33DDB 01	10.48		EDWARDS COUNTY		
19S 14W 06BBB 02	15.70		24S 16W 12CBD 01	27.12	
19S 14W 36BBC 01	11.78		24S 17W 20ADC 01	42.17	
20S 11W 06CCC 01	10.62		24S 17W 24DDD 01	37.67	
20S 11W 26AAC 01	11.54		24S 18W 13DAC 01	40.46	
20S 12W 03DAC 01	7.64		24S 18W 17ABD 01	32.98	
20S 12W 23CCA 01	13.42		24S 18W 28DAC 01	41.14	
20S 13W 17DDC 01	15.55		24S 19W 34ADD 01	8.95	
20S 13W 24DCB 02	18.62	PROV12	25S 16W 02BBB 01	25.55	
20S 13W 31D 01	23.36		25S 16W 27AAC 01	17.67	
20S 14W 22CDC 01	17.35		25S 17W 01DAB 01	37.14	
20S 15W 24DBD 01	14.60		25S 17W 17AAC 01	42.85	
20S 15W 33ADD 01	18.97		25S 17W 31BBD 01	40.11	
DECATUR COUNTY			25S 18W 09AAA 01	42.17	
01S 27W 17ADA 01	89.77		25S 18W 20AAB 01	48.38	
01S 27W 26BBA 01	26.98		25S 18W 33CDC 01	45.15	
01S 28W 15BBC 01	150.80		25S 19W 08BDD 01	8.09	
01S 29W 03DDB 01	28.23		25S 19W 26DDB 01	44.11	
01S 29W 19BDD 01	19.01		25S 19W 31CAB 01	20.94	
01S 30W 20CDC 01	76.76		25S 20W 03BCD 01	29.81	
01S 30W 34DDD 01	34.56		25S 20W 34CCC 01	10.27	
02S 26W 11BBA 01	75.24		26S 16W 10CCC 01	15.19	
02S 28W 13ABA 01	27.78		26S 16W 18CAC 01	22.60	
02S 29W 01DDD 01	142.66		26S 16W 31CCA 01	40.58	
03S 28W 06DCB 01	30.23		26S 16W 34ABC 01	29.76	
03S 28W 32BCA 01	121.25		26S 17W 14BAA 01	32.42	
03S 29W 12BBA 01	18.94		26S 17W 33DDB 01	34.00	
03S 29W 17DCB 01	21.34		26S 18W 15DCB 01	46.04	
03S 29W 31DCC 01	27.61		26S 19W 16BCB 02	47.05	
03S 30W 03CAB 01	89.22		26S 19W 31AAC 01	49.63	
03S 30W 26BBB 01	12.59		26S 19W 34BBD 01	52.44	
04S 26W 08DDD 01	28.32		26S 20W 20BBC 01	15.77	
04S 26W 19DCA 01	14.15		ELLIS COUNTY		
04S 27W 17DAC 01	94.70		12S 20W 07ABA 01	30.48	
04S 27W 33BBB 01	17.03		13S 18W 29CCC 01	22.23	
04S 28W 15AAA 01	84.07		14S 18W 12AAD 01	26.96	
04S 28W 30DDD 01	85.93		15S 18W 27CBC 02	13.08	
04S 30W 06CCC 02	15.71		15S 19W 25CAB 01	16.51	
05S 26W 05ADD 01	119.57				
05S 26W 26DDA 01	20.96				

Well ID	Level	QA Meas	Well ID	Level	QA Meas
FINNEY COUNTY			26S 31W 15BCC 01	PROV11	181.10
21S 31W 26CCC 01	-----	77.10	26S 32W 27DAC 01	-----	264.90
21S 32W 20CBD 01	-----	138.30	26S 33W 10CCD 01	-----	232.60
21S 32W 26DAA 01	-----	116.30	26S 34W 05ADC 01	-----	230.40
21S 33W 29BBC 01	-----	99.60	26S 34W 21BBD 01	-----	237.65
21S 34W 14DBB 01	-----	100.30	FORD COUNTY		
22S 27W 14ADC 01	-----	187.00	25S 22W 20AAA 01	-----	53.89
22S 31W 08CCC 01	-----	122.80	25S 22W 27CCD 01	-----	40.69
22S 32W 08ACB 01	-----	122.00	25S 23W 11CCC 01	-----	79.54
22S 32W 21CDC 01	-----	164.40	25S 25W 32CDD 01	-----	224.43
22S 33W 04DDCD02	PROV11	121.40	25S 25W 32DAD 01	-----	79.49
22S 33W 32ABC 01	-----	159.60	25S 26W 20ABC 01	-----	118.87
22S 33W 36BCCC01	-----	147.80	25S 26W 25CDD 01	-----	85.51
22S 34W 18CDD 01	-----	151.40	26S 21W 25CCC 01	--QA--	9.02 * 7.92
22S 34W 26CCC 01	-----	176.20	26S 22W 21DCD 01	--QA--	UTM * 37.51
23S 27W 22DAB 01	-----	80.00	26S 22W 24AAB 01	-----	42.33
23S 28W 22DCD 01	-----	76.10	26S 23W 02ABB 02	PROV11	192.18
23S 29W 30BBB 01	--QA--	UTM * 82.93	26S 23W 10DAD 01	-----	194.76
23S 29W 34CDD 01	-----	98.80	26S 24W 29DDD 01	-----	160.59
23S 30W 04ACC 01	-----	76.85	26S 24W 31DDA 01	-----	40.62
23S 30W 19CCB 01	-----	96.35	26S 24W 33CDA 01	-----	59.02
23S 31W 03DCD 01	-----	120.40	26S 25W 16DCC 01	-----	158.72
23S 31W 17ABA 01	-----	126.35	26S 26W 18CCB 01	-----	55.24
23S 31W 28CDD 02	-----	157.60	26S 26W 36DCC 01	-----	67.32
23S 32W 26ACC 01	-----	194.50	27S 21W 10BDD 01	-----	7.74
23S 32W 31CBD 01	-----	134.70	27S 21W 18CDC 01	-----	70.68
23S 33W 26ABB 02	-----	155.10	27S 23W 24BCB 02	-----	78.98
23S 33W 28CDC 02	-----	160.05	27S 23W 28AAA 01	-----	74.27
23S 33W 34ABC 01	-----	156.30	27S 23W 36CCC 01	-----	59.44
23S 34W 10ACB 01	-----	181.80	27S 24W 03BBD 01	--QA--	43.59 * 42.91
23S 34W 17CCC 01	--QA--	156.20 * 168.31	27S 24W 03CDD 01	-----	36.80
23S 34W 21DDC 01	-----	146.90	27S 24W 09AAD 01	-----	47.94
24S 31W 27CCB 01	-----	177.90	27S 24W 16BDB 01	-----	101.09
24S 32W 10ACA 01	-----	108.05	27S 24W 26DAA 01	-----	111.68
24S 32W 25CBB 02	-----	50.80	27S 25W 09ACA 01	-----	88.28
24S 32W 36ACB 01	-----	46.10	27S 25W 25BBB 01	-----	135.92
24S 33W 09CCD 01	-----	110.20	27S 26W 04BBD 01	PROV12	125.82
24S 33W 09CCD 02	-----	37.25	28S 21W 10DDD 01	-----	54.91
24S 33W 09CCD 03	-----	120.50	28S 21W 23DBC 01	-----	90.40
24S 33W 18BDB 01	-----	123.90	28S 21W 25ABB 01	--QA--	81.66 * 81.16
24S 33W 18BDB 02	-----	163.90	28S 22W 05ADD 01	--QA--	25.10 * 25.10
24S 33W 19DBB 01	-----	186.60	28S 22W 12CAC 01	-----	70.38
24S 33W 19DBB 02	-----	216.70	28S 22W 32BAB 01	-----	133.54
24S 33W 28DAA 01	-----	165.50	28S 23W 18BAB 01	-----	157.84
24S 33W 34CAC 01	-----	200.10	28S 24W 08DCC 01	-----	159.33
24S 34W 01BCBB01	--QA--	97.20 * 99.30	28S 24W 22CDA 01	-----	123.01
24S 34W 17DCA 01	-----	103.70	28S 24W 35CAB 01	-----	117.33
25S 31W 16ACA 01	-----	49.15	28S 25W 06ABB 01	-----	168.68
25S 32W 07CAC 01	-----	188.20	28S 25W 19BBB 01	-----	167.46
25S 32W 22DBC 01	-----	172.70	28S 26W 06ABB 01	-----	191.42
25S 32W 31DDC 01	-----	210.60	28S 26W 13CAA 01	-----	162.46
25S 32W 35ACA 01	-----	161.80	29S 21W 05BBB 01	--QA--	108.04 * 108.04
25S 33W 05ABD 01	-----	213.00	29S 21W 20CAD 01	-----	150.42
25S 33W 09ABD 01	-----	210.00	29S 22W 17DAD 01	--QA--	139.67 * 139.67
25S 33W 15DAC 01	-----	229.84	29S 22W 36ACA 01	--QA--	150.71 * 150.71
25S 33W 16DCC 01	-----	150.60	29S 23W 16DDB 01	PROV12	211.78
25S 34W 08CAB 01	PROV12	247.40	29S 24W 01ABA 01	-----	164.64
25S 34W 34DAC 01	PROV11	241.00	29S 24W 13BCA 01	-----	122.45
26S 31W 01DDA 02	PROV11	173.00	29S 24W 18BAA 01	-----	162.84
26S 31W 06BBBB01	-----	156.30			

Well ID	Level	QA Meas	Well ID	Level	QA Meas
29S 25W 10BBBC01	180.57		09S 25W 05BBD 01	80.04	
29S 26W 29ABB 01	129.61		09S 25W 14DDD 01	84.67	
29S 26W 36BBB 02	49.70		09S 25W 29BBB 01	131.65	
GOVE COUNTY			09S 25W 35ADD 01	91.50	
11S 26W 04CDC 01	67.10		10S 24W 10ADD 01	41.82	
11S 26W 19AAA 01	121.80		10S 24W 23DCC 01	6.74	
11S 27W 08DBB 01	107.90		10S 25W 22AAA 01	20.84	
11S 27W 13ABB 01	136.80		GRANT COUNTY		
11S 27W 36BCC 01	75.45		27S 35W 17ADD 01	346.18	
11S 28W 08AAA 01	115.87		27S 35W 25BDC 01	323.50	
11S 28W 26ABB 01	92.40		27S 36W 01ADB 01	316.85	
11S 29W 04DAD 01	111.49		27S 36W 21DCD 01	PROV12 342.36	
11S 29W 33BBA 01	101.50		27S 37W 16AAD 01	259.89	
11S 30W 27ABB 01	125.55		27S 37W 21BDD 01	239.09	
11S 30W 28CBA 01	123.83		27S 38W 12ADC 01	227.49	
11S 30W 36CBB 01	103.83		27S 38W 21BCC 01	249.54	
11S 31W 12AAB 01	105.29		28S 35W 03DBB 01	353.07	
11S 31W 27ADC 01	56.12		28S 35W 36ABC 01	354.90	
11S 31W 35BDC 01	101.74		28S 36W 09B 01	326.60	
12S 26W 12BCC 01	34.30		28S 36W 18ABC 01	266.30	
12S 26W 24CBA 01	12.25		28S 36W 24AAD 01	361.58	
12S 27W 10CCB 01	73.50		28S 37W 02BBB 04	279.94	
12S 27W 14DDD 01	91.50		28S 37W 10ADB 01	259.44	
12S 28W 07DDD 01	48.22		28S 37W 33DDC 01	82.12	
12S 28W 13ABA 01	69.75		28S 38W 12BCB 02	257.79	
12S 29W 10BDBB01	91.14		28S 38W 33BDB 01	274.17	
12S 30W 13CCB 01	10.36		29S 35W 07CBD 01	251.17	
13S 26W 20CBC 01	13.70		29S 35W 24BAA 01	385.73	
13S 27W 16CA 02	17.00		29S 36W 04BAC 01	304.35	
13S 28W 14AC 01	18.20		29S 36W 19BCB 01	235.14	
13S 30W 08BDA 01	39.89		29S 36W 33ADB 01	268.30	
13S 31W 05CAB 01	38.93		29S 37W 29BBA 01	305.45	
GRAHAM COUNTY			29S 38W 20CDC 01	247.43	
06S 21W 19CDC 02	94.42		30S 35W 02DBC 01	340.18	
06S 21W 33DDD 01	27.49		30S 35W 19BCD 01	271.45	
06S 22W 19CCC 01	99.00		30S 36W 01BBB 01	246.60	
06S 23W 13BBB 01	45.52		30S 36W 32BBC 01	252.88	
06S 23W 17CCA 01	61.12		30S 37W 03DBA 01	330.96	
06S 24W 14AAA 01	105.35		30S 37W 15CBB 01	271.50	
06S 24W 28BAB 01	92.73		30S 38W 13CCC 01	292.98	
06S 25W 12CCC 01	140.50		30S 38W 15DBC 01	242.71	
06S 25W 28CBC 01	111.97		GRAY COUNTY		
07S 22W 10BBC 01	8.67		24S 27W 08CCC 01	93.60	
07S 22W 19BBB 01	33.44		24S 27W 14ABB 01	67.65	
07S 23W 17BBD 01	96.31		24S 27W 29BCC 01	109.46	
07S 24W 08CBA 01	124.23		24S 27W 31CDD 01	111.70	
07S 25W 24BBB 01	85.49		24S 28W 28BBA 01	129.43	
07S 25W 33DDD 01	98.79		24S 28W 31DD 01	169.07	
08S 21W 17ABB 01	23.43		24S 29W 16DCA 01	139.16	
08S 22W 18CDC 01	7.29		24S 29W 18CCB 01	162.98	
08S 24W 23ACC 01	31.25		24S 30W 15CCC 02	179.30	
08S 25W 24BAB 01	28.45		25S 27W 33ABB 01	153.53	
09S 21W 19AAB 01	18.88		25S 29W 07BCB 01	--QA-- 192.91	* 193.58
09S 21W 34BAA 01	29.48		26S 27W 12CDD 01	--QA-- 73.11	* 73.61
09S 22W 32ABAA01	46.09		26S 27W 27DCC 01	129.98	
09S 23W 26BAA 01	40.93		26S 28W 06DDB 02	--QA-- 38.29	* 38.09
09S 24W 22BAA 01	86.39		26S 28W 10ACB 02	65.25	

Well ID	Level	QA Meas	Well ID	Level	QA Meas
KINGMAN COUNTY			LANE COUNTY		
27S 05W 33ABB 02	-----	11.10	16S 29W 26CCD 01	-----	112.52
27S 06W 12CCD 01	-----	14.65	16S 29W 33BAB 01	-----	113.66
27S 06W 16CCB 01	-----	5.00	16S 30W 24DCC 01	-----	128.25
27S 07W 03ADC 02	-----	13.57	16S 30W 29CDD 01	-----	130.98
27S 08W 14DDC 01	-----	2.27	17S 27W 20CCC 01	-----	104.76
27S 08W 17DAB 01	-----	39.19	17S 27W 26CCC 01	-----	96.64
27S 08W 35CBC 01	-----	23.22	17S 28W 07BBB 01	-----	106.07
27S 10W 03DDD 01	-----	53.68	17S 28W 15BBC 01	-----	113.19
27S 10W 17DDD 01	-----	64.20	17S 28W 26ABB 01	-----	108.75
28S 07W 29CDD 01	-----	25.26	17S 28W 34CBB 01	-----	97.95
28S 07W 35CCD 01	-----	21.65	17S 29W 07DAA 01	PROV12	125.59
28S 08W 21BBB 01	-----	2.75	17S 29W 10BAC 01	-----	119.12
28S 09W 01BCC 01	-----	8.38	17S 29W 36BAA 01	-----	91.93
28S 09W 21AAA 01	-----	29.30	17S 30W 20BBB 01	-----	119.69
28S 09W 29CCC 01	-----	33.10	18S 27W 13CCC 01	-----	87.81
28S 09W 34AAB 01	-----	43.63	18S 28W 18ACC 01	-----	65.86
28S 10W 16BCB 01	-----	50.22	18S 29W 04DDA 01	-----	72.24
29S 08W 06DBC 01	-----	23.02	18S 29W 23DBC 01	-----	15.10
29S 09W 18DCB 01	PROV11	64.20	18S 30W 02AAA 01	-----	91.13
29S 10W 19DDB 01	-----	26.60	18S 30W 04BAB 01	-----	82.42
30S 05W 12CCA 01	-----	22.01	18S 30W 23AAA 01	-----	54.36
30S 10W 05BBD 01	-----	46.81	MCPHERSON COUNTY		
30S 10W 13AAC 01	-----	72.90	18S 03W 30CCC 01	-----	117.02
30S 10W 28DAC 01	-----	24.77	18S 04W 21CCC 01	--QA--	16.22 * 16.40
KIOWA COUNTY			19S 01W 32DAC 01	-----	45.48
27S 16W 10BAC 01	-----	36.36	19S 03W 16BCB 01	-----	104.59
27S 16W 19BBD 01	-----	41.22	19S 04W 15AAC 01	-----	88.29
27S 16W 28CDD 01	-----	72.41	20S 01W 22BBB 01	-----	11.56
27S 17W 21ADC 01	--QA--	45.58 * 45.58	20S 03W 22DAA 01	-----	46.94
27S 18W 09ABD 01	PROV12	72.26	20S 03W 30BBD 01	PROV11	55.74
27S 18W 13AAA 01	-----	36.26	20S 04W 15BDD 01	-----	60.55
27S 18W 18DDC 01	-----	28.55	20S 04W 27DBD 01	-----	48.51
27S 18W 22ADC 01	-----	35.77	21S 02W 36ABD 01	--QA--	13.79 * 13.81
27S 18W 35AAC 01	-----	44.59	21S 03W 06CBD 01	-----	51.53
27S 20W 26ABD 02	-----	53.82	21S 03W 11AAC 01	-----	43.57
27S 20W 32ABD 01	-----	56.45	21S 03W 33BBC 01	-----	52.05
28S 16W 12BCA 01	-----	107.84	21S 04W 26CDC 03	--QA--	41.34 * 41.97
28S 16W 17AAC 01	-----	122.81	NESS COUNTY		
28S 16W 31DCA 01	-----	74.56	16S 24W 15ABB 01	-----	27.77
28S 17W 01CAB 01	-----	67.51	16S 26W 24DDA 01	-----	60.71
28S 17W 15DDB 01	-----	102.27	18S 21W 25AAB 01	--QA--	27.50 * 27.41
28S 18W 19CCB 01	-----	96.05	18S 21W 31CAA 01	-----	28.90
28S 18W 25CAC 01	-----	114.95	18S 24W 36ADB 01	-----	33.00
28S 19W 10AAC 01	-----	107.51	18S 25W 33BBC 01	-----	24.40
28S 19W 33CBD 01	-----	138.23	18S 26W 06BAB 02	-----	7.07
28S 20W 12BBD 01	-----	65.63	19S 23W 01CCB 01	-----	92.34
28S 20W 30ACA 01	-----	49.17	19S 23W 08CBB 01	-----	19.48
29S 16W 02ADB 01	-----	54.27	20S 22W 20CCC 04	--QA--	34.07 * 34.07
29S 17W 04ABC 01	-----	55.11	20S 22W 35BCC 01	--QA--	34.14 * 34.14
29S 17W 12DAA 01	-----	53.16	20S 26W 07BDC 01	--QA--	24.65 * 24.65
29S 18W 02ACC 01	-----	146.20			
29S 18W 07BBD 01	-----	155.29			
29S 19W 22BAA 01	-----	157.69			
29S 20W 11CDD 01	-----	167.87			

Well ID	Level	QA Meas	Well ID	Level	QA Meas
NORTON COUNTY			23S 16W 11CDC 02	-----	27.88
01S 21W 08CCD 01	-----	141.02	23S 16W 35CCD 02	--QA--	31.93 * 31.93
01S 21W 28CCD 01	-----	86.14	23S 17W 25AAC 01	--QA--	27.69 * 27.69
01S 22W 33DCC 01	-----	91.53	23S 17W 33CCA 02	-----	35.94
01S 24W 13BCB 01	-----	111.48	23S 18W 13DDD 01	-----	15.26
01S 25W 25BBB 01	-----	36.23	23S 18W 28DAD 01	--QA--	8.62 * 8.62
02S 21W 02DDB 01	-----	13.74	23S 18W 36DAC 01	--QA--	29.88 * 29.88
02S 21W 18CAA 01	-----	11.57	PHILLIPS COUNTY		
02S 21W 33CCC 01	-----	85.33	01S 16W 10ABA 01	-----	17.21
02S 21W 36CAA 01	-----	UTM	01S 16W 31CBB 01	-----	42.14
02S 22W 28DCC 01	-----	29.66	01S 17W 21DDD 01	-----	43.94
02S 23W 05DCA 01	-----	94.67	01S 17W 31AAA 01	-----	14.08
02S 23W 22AAA 01	-----	69.80	01S 18W 06BDD 01	-----	22.43
02S 23W 36BAC 01	-----	21.68	01S 18W 34DCD 01	-----	78.29
02S 25W 14AAA 01	-----	132.75	01S 20W 02CCB 01	-----	75.65
02S 25W 35DAA 01	-----	88.22	01S 20W 32ACB 01	-----	14.08
03S 21W 29DCC 01	-----	101.97	02S 18W 06BBC 01	-----	93.67
03S 22W 27BBA 01	-----	152.74	02S 19W 09BBB 01	-----	114.23
03S 23W 34ADD 02	PROV12	83.40	02S 20W 28BDD 01	-----	33.33
03S 25W 33AAD 01	-----	28.90	04S 18W 27DDD 03	-----	8.96
04S 21W 35DDC 01	-----	14.10	04S 19W 35DDD 01	-----	15.45
04S 23W 19DDB 01	-----	131.10	PRATT COUNTY		
04S 25W 28BAA 01	-----	148.58	26S 11W 01DDB 01	-----	25.37
04S 25W 34CDC 01	-----	86.13	26S 11W 27AAC 01	-----	25.90
05S 21W 25ADC 01	-----	136.89	26S 11W 29BCB 01	-----	16.89
05S 22W 18CCD 01	-----	9.74	26S 12W 02ABA 01	-----	33.24
05S 24W 14BDC 01	-----	13.15	26S 12W 17CCA 01	-----	34.27
05S 24W 20CCC 01	-----	11.38	26S 12W 34CDC 01	-----	43.77
05S 25W 28DCC 01	-----	17.86	26S 12W 34CDC 02	-----	43.38
OSBORNE COUNTY			26S 13W 16DAA 02	-----	23.42
06S 12W 23CDC 01	-----	18.90	26S 13W 19BBD 01	-----	25.70
07S 12W 28ABA 01	-----	33.40	26S 13W 34BCB 01	-----	51.30
07S 15W 10CCC 01	-----	17.85	26S 14W 17DBC 01	-----	31.41
PAWNEE COUNTY			26S 15W 01AAB 01	-----	24.00
21S 15W 11CBB 01	--QA--	11.39 * 11.39	26S 15W 17BBC 01	-----	24.97
21S 15W 17CCC 01	--QA--	16.37 * 16.37	27S 11W 12CBC 01	-----	50.44
21S 15W 31BAD 01	-----	UTM	27S 11W 18CAA 01	-----	66.18
21S 16W 14ADC 01	--QA--	16.69 * 16.69	27S 11W 31DAA 01	-----	5.55
21S 19W 27CCC 01	--QA--	51.88 * 51.88	27S 12W 33CBA 01	-----	3.75
21S 20W 29BBB 01	-----	51.54	27S 13W 13DDC 01	-----	60.23
22S 15W 03AAA 01	--QA--	33.28 * 33.28	27S 14W 03DAC 01	-----	48.47
22S 15W 03AAA 02	--QA--	35.23 * 35.23	27S 15W 02ABC 01	-----	39.17
22S 15W 13DCA 01	--QA--	43.32 * 43.32	27S 15W 05CDB 01	-----	36.42
22S 15W 33DDD 01	--QA--	39.57 * 39.57	27S 15W 32CCA 01	-----	59.97
22S 16W 03CBC 02	--QA--	16.91 * 16.91	27S 15W 36ADD 01	-----	81.68
22S 16W 06BBA 01	--QA--	19.17 * 19.17	28S 11W 12ACC 01	-----	35.52
22S 16W 23AAA 01	--QA--	40.97 * 40.97	28S 11W 20CAC 01	-----	69.73
22S 16W 32CDD 02	-----	36.94	28S 12W 21BAD 01	-----	82.20
22S 17W 05BBC 02	--QA--	23.68 * 23.68	28S 13W 02DDC 01	-----	17.34
22S 17W 18AAD 01	--QA--	35.50 * 36.30	28S 13W 17AAA 01	-----	73.34
22S 17W 24CBC 01	--QA--	14.19 * 14.19	28S 13W 26DCB 01	-----	92.62
22S 17W 27BBD 01	--QA--	20.96 * 20.96	28S 14W 14CCC 01	-----	82.55
22S 18W 04BCC 02	-----	35.55	28S 15W 23CCD 01	-----	110.22
22S 19W 07AAA 01	--QA--	81.23 * 81.23	29S 11W 06AAA 01	--QA--	44.93 * 44.76
22S 19W 10BBA 01	--QA--	68.81 * 68.81	29S 11W 09ADD 01	-----	55.74
23S 15W 12DDB 01	--QA--	33.89 * 33.89	29S 11W 29AAD 01	-----	62.91
			29S 12W 20CCD 01	-----	97.27

Well ID	Level	QA Meas	Well ID	Level	QA Meas
29S 13W 12ABB 01 --QA--	71.67	* 71.61	26S 09W 31DCC 01 --QA--	56.62	* 56.81
29S 13W 31CAA 01 -----	33.11		26S 09W 34DBD 01 -----	27.09	
29S 14W 12BAA 04 -----	102.50	* 102.50	26S 10W 18CDC 01 -----	26.35	
29S 14W 17DBD 01 -----	100.47		26S 10W 32BBD 01 -----	30.90	
29S 15W 18ADA 01 -----	104.06				
RENO COUNTY			RICE COUNTY		
22S 04W 12CDA 01 --QA--	45.59	* 45.20	19S 10W 07DDB 01 -----	12.20	
22S 04W 32BBC 01 -----	25.16		20S 08W 22AAA 01 -----	15.73	
22S 06W 18BCB 01 -----	11.13		20S 09W 12DDA 01 -----	13.05	
22S 06W 28CCB 01 -----	11.06		20S 09W 28ACD 01 -----	17.77	
22S 08W 33CCD 02 -----	8.84		20S 10W 27BBB 01 -----	34.21	
22S 09W 03BBD 01 -----	34.80		21S 07W 04AAC 01 -----	18.33	
22S 09W 25BBA 01 -----	21.45		21S 07W 26CBD 01 -----	15.39	
22S 10W 02DCC 01 -----	10.70		21S 08W 09CBD 01 -----	11.80	
22S 10W 08BBB 01 -----	15.99		21S 08W 25ABB 01 -----	6.47	
22S 10W 30DAA 01 -----	13.15		21S 08W 32DBB 01 -----	10.00	
23S 04W 03BAB 02 -----	9.37		21S 09W 02DDA 01 -----	13.20	
23S 04W 16BBB 01 -----	26.50		21S 10W 16CDC 01 -----	7.32	
23S 04W 30BAA 01 -----	9.70				
23S 05W 05DDC 01 -----	14.22		ROOKS COUNTY		
23S 05W 27DCB 01 -----	9.91		06S 19W 17BBB 01 -----	13.06	
23S 05W 31CCB 01 -----	13.11		07S 17W 14CDD 01 -----	14.79	
23S 06W 31DCB 01 -----	32.12		09S 17W 33BBC 01 -----	32.35	
23S 07W 13DDD 01 -----	53.13		09S 19W 32DDD 01 -----	27.29	
23S 07W 20BCC 01 -----	4.92		09S 20W 32AAA 01 -----	41.06	
23S 08W 18AAD 01 -----	2.06		09S 20W 34AAD 01 PROV12	55.70	
23S 08W 22AB 01 -----	8.95				
23S 09W 05CBD 01 -----	18.07		SCOTT COUNTY		
23S 09W 21DDB 01 -----	13.63		16S 31W 31BCB 01 -----	149.86	
23S 09W 35CCC 01 -----	24.89		16S 32W 16BCA 01 --QA--	174.01	* 155.25
23S 10W 01AAA 03 --QA--	12.51	* 12.57	16S 33W 19BBC 01 -----	165.73	
23S 10W 25CAC 01 -----	13.18		16S 33W 33BAA 01 -----	165.77	
23S 10W 29DCA 01 -----	17.25		16S 34W 09CCB 01 -----	174.74	
24S 04W 05CDB 01 -----	11.76		16S 34W 13BBB 01 -----	167.94	
24S 04W 25BBD 01 -----	7.56		16S 34W 29CBB 01 -----	172.44	
24S 04W 31DAB 02 -----	28.14		17S 31W 04DCC 01 -----	139.04	
24S 05W 10CCA 01 -----	20.86		17S 31W 19CDA 01 -----	146.52	
24S 06W 03AAB 01 -----	30.99		17S 31W 35CCB 01 -----	106.30	
24S 06W 23CBA 01 -----	14.39		17S 32W 16BBB 01 --QA--	155.31	* 155.39
24S 07W 08ADA 02 -----	43.47		17S 32W 27BBB 01 --QA--	163.92	* 160.16
24S 07W 28AAA 01 -----	13.45		17S 33W 07BBA 01 -----	158.31	
24S 08W 18BAC 01 -----	8.13		17S 33W 14ACB 01 --QA--	168.80	* 155.37
24S 09W 19DDB 01 -----	24.09		17S 34W 16ACB 02 -----	145.75	
24S 10W 06DBB 01 -----	22.31		17S 34W 25DBB 01 --QA--	161.51	* 162.18
24S 10W 17DDC 01 -----	16.79		18S 31W 24BCB 01 -----	70.46	
24S 10W 31CBC 01 --QA--	10.65	* 10.62	18S 32W 14BBB 01 -----	123.58	
25S 04W 02ABB 01 -----	9.03		18S 32W 17ABA 02 --QA--	139.54	* 138.56
25S 07W 07BBD 01 -----	24.12		18S 33W 01AAA 01 --QA--	135.33	* 137.21
25S 07W 36CCC 01 -----	31.70		18S 33W 03CCB 01 --QA--	134.03	* 133.02
25S 09W 01DCD 01 -----	15.82		18S 33W 25BBB 01 --QA--	130.98	* 130.98
25S 09W 17B 01 -----	20.59		18S 34W 05CBB 01 -----	120.12	
25S 09W 30DDA 01 -----	18.81		18S 34W 25BBD 01 -----	126.50	
25S 10W 14BBB 01 -----	27.07		18S 34W 34BBC 01 -----	116.33	
25S 10W 19ABD 01 -----	30.92		19S 31W 17ADA 01 --QA--	87.35	* 74.40
26S 06W 13BAB 01 -----	10.12		19S 32W 06CCB 01 --QA--	87.67	* 88.52
26S 06W 34BBC 01 -----	UTM		19S 32W 32ACB 01 -----	119.51	
26S 07W 12DCC 02 -----	38.15		19S 33W 06DBB 01 -----	62.77	
26S 08W 06DCC 01 -----	10.05		19S 33W 15DBD 01 -----	120.26	
26S 09W 18AAA 01 -----	9.02				

Well ID	Level	QA Meas	Well ID	Level	QA Meas
19S 33W 29CBB 02	-----	117.79	08S 30W 13DAA 01	-----	178.40
19S 34W 19DCCC01	-----	127.59	08S 30W 30AAB 01	-----	164.75
20S 31W 15DAB 01	-----	25.43	09S 26W 22BBB 01	-----	135.95
20S 32W 30BCD 01	--QA--	137.23 * 125.80	09S 26W 32BCD 01	-----	85.95
20S 33W 09BBB 01	-----	106.97	09S 27W 12CCC 01	-----	107.40
20S 33W 21ABA 01	-----	136.07	09S 27W 20CBD 01	-----	145.70
20S 33W 36CAD 01	-----	125.24	09S 27W 31ABB 01	-----	95.60
20S 34W 15BAA 01	-----	103.53	09S 28W 04BCC 01	-----	29.15
20S 34W 36CCD 01	-----	71.99	09S 28W 15CBA 01	-----	170.20
SEDGWICK COUNTY			09S 29W 03AAA 01	-----	122.75
25S 01W 07ABD 01	-----	26.10	09S 29W 17BAB 01	-----	121.00
25S 01W 14DDD 01	--QA--	17.48 * 17.77	09S 30W 35BBB 01	-----	158.90
25S 01W 28DBA 01	-----	17.18	10S 26W 12AAD 01	-----	22.75
25S 02W 22BBB 01	--QA--	9.75 * 9.83	10S 27W 20CBC 01	-----	16.65
25S 02W 23DBD 02	-----	15.91	10S 27W 22DBA 01	-----	19.25
25S 03W 03DDD 01	--QA--	13.75 * 13.75	10S 28W 05DDB 01	-----	119.15
25S 03W 15CCC 01	-----	23.39	10S 29W 02DDD 01	-----	90.50
26S 01W 12BAD 01	-----	17.79	10S 29W 20CAA 01	-----	68.75
26S 01W 19ABA 01	--QA--	10.13 * 8.99	10S 30W 08DDD 01	-----	105.55
26S 02W 08AAB 01	-----	31.97	10S 30W 12ADA 01	-----	108.37
26S 02W 29AAA 01	-----	23.50	STAFFORD COUNTY		
26S 03W 02AAC 01	-----	22.76	21S 11W 07BBB 01	--QA--	18.92 * 18.54
SHERIDAN COUNTY			21S 12W 06CCB 02	--QA--	25.53 * 25.60
06S 26W 26CBB 01	-----	171.40	21S 13W 27DDD 02	-----	13.28
06S 27W 05CBB 01	-----	111.15	21S 14W 22AAC 02	PROV12	23.09
06S 27W 08DCA 01	-----	18.50	22S 11W 07BBB 01	-----	5.09
06S 27W 19ADC 01	-----	39.40	22S 12W 05BBD 01	-----	20.97
06S 27W 25ABA 01	PROV12	161.35	22S 12W 30BBD 01	-----	17.86
06S 28W 21BCD 01	-----	118.75	22S 12W 36BBB 02	-----	6.39
06S 28W 28CDA 01	-----	51.00	22S 13W 12CAC 02	-----	22.72
06S 29W 10DBC 01	-----	135.55	22S 13W 29DAD 01	-----	19.06
06S 29W 24ABB 01	-----	116.90	22S 14W 14CCA 01	-----	24.10
06S 30W 13BAA 01	-----	132.90	22S 14W 35DDB 01	-----	29.34
06S 30W 14CCD 01	-----	118.55	23S 11W 02BBB 01	-----	2.01
07S 26W 12BDB 01	-----	102.20	23S 11W 22BCC 01	-----	23.04
07S 26W 19BBC 01	-----	131.35	23S 11W 36CCA 01	-----	18.87
07S 26W 28CAB 01	-----	157.95	23S 12W 07DBD 02	-----	9.10
07S 27W 07A 01	-----	172.35	23S 12W 22BCC 01	-----	14.27
07S 27W 22DAC 01	-----	122.30	23S 12W 36BBC 01	-----	16.33
07S 28W 08DCC 01	-----	186.95	23S 13W 08CCB 01	-----	13.69
07S 28W 36ABA 01	-----	157.90	23S 13W 30CBB 01	-----	13.37
07S 29W 05BBB 01	-----	126.30	23S 13W 35CCA 01	-----	19.33
07S 29W 27CCC 01	-----	213.40	23S 14W 15ADD 01	-----	11.53
07S 29W 30ABA 01	-----	188.65	24S 11W 17DDB 01	-----	23.34
07S 30W 08CBB 01	-----	118.75	24S 12W 04CDB 01	-----	21.62
08S 26W 14DAA 01	-----	13.15	24S 12W 17CAB 01	-----	27.12
08S 26W 16CDD 01	-----	37.95	24S 12W 34ABC 01	-----	19.59
08S 27W 11DCD 01	-----	11.72	24S 13W 16ACA 01	-----	20.28
08S 27W 18DAA 01	-----	14.80	24S 13W 20CDD 01	-----	21.24
08S 27W 33BBD 01	-----	18.70	24S 13W 36DDD 01	--QA--	20.15 * 19.88
08S 27W 35CBB 01	-----	125.55	24S 14W 17AAC 02	-----	32.53
08S 28W 11DAA 01	-----	105.55	24S 14W 31BBD 01	-----	20.29
08S 28W 16AAC 01	-----	113.40	24S 15W 10BAB 01	-----	29.79
08S 28W 17BAD 01	-----	140.31	24S 15W 32DBC 01	-----	25.33
08S 29W 01BDD 01	-----	178.60	25S 11W 23DDD 01	-----	18.18
08S 30W 05CDD 01	-----	196.90	25S 12W 11AAA 01	--QA--	15.55 * 17.09
08S 30W 11CBC 01	-----	219.65	25S 12W 24DDB 01	-----	13.84
			25S 13W 16AAC 01	-----	28.83
			25S 13W 31DDA 01	--QA--	24.03 * 24.20

Well ID	Level	QA Meas
25S 13W 36DCC 01 --QA--	15.74	* 15.43
25S 14W 04AAD 01 -----	14.92	
25S 14W 30CDB 01 -----	18.05	
25S 15W 29BBD 01 -----	15.53	

TREGO COUNTY

11S 21W 29DDD 01 -----	91.62	
11S 21W 33DAA 01 -----	67.04	
11S 22W 34AAA 01 -----	81.69	
11S 24W 20CCC 01 -----	62.52	
12S 21W 05AAA 01 -----	87.56	
12S 21W 05DDD 01 -----	74.22	
12S 21W 06CBB 01 -----	93.69	
12S 21W 08DDD 01 -----	35.12	
12S 21W 21ABB 01 -----	42.18	
12S 22W 08BAB 01 -----	84.95	
12S 22W 19CBB 01 -----	88.70	
12S 22W 23ABC 01 -----	77.91	
12S 23W 09CBB 01 -----	68.80	
12S 23W 20CCC 01 -----	19.36	
12S 24W 21DDD 01 -----	15.54	
13S 23W 24AAB 01 -----	26.88	
14S 25W 13ABC 01 -----	15.42	

END APPENDIX B