

2018 Water-Level Data Acquisition Statistics

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

The 2018 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 2018 are provided in tabular form as part of this report and can be found online under the heading "2018 Reports" at www.kgs.ku.edu/Hydro/Levels/index.html.

2018 Water-Level Data Acquisition Statistics

Summary

The field-measurement phase of the 2018 annual cooperative water-level measurement program was successfully completed by the Kansas Geological Survey (KGS) and the Division of Water Resources (DWR), Kansas Department of Agriculture, prior to March 1, 2018. 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 97.3% of the 1,399 network wells in 2018. The KGS measured 554 wells and the three DWR offices (Garden City, Stafford, and Stockton) measured 807 wells. Data acquisition by KGS staff was completed in January.

A spatial analysis of the 2017 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 28 wells designated to replace existing wells or fill gaps in the network, 20 were measured and were incorporated into the network for 2019. They will be measured in all 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 2018 Acquisition	KGS	DWR	Total
Number of network wells in 2018	564	835	1,399
Number of counties	16	32	48
2018 provisional (new) wells	10	18	28
# provisional wells measured	10	10	20
# wells successfully measured	554	807	1,361
# wells MIA*	11	29	40
# wells measured for quality assurance (QA)	56	—	56
# wells targeted for removal	1	5	6

*Wells with zero depth reading, where measurement failed, or that were marked for removal.

KGS Field Crew, January 2018

Joe Anderson, Brett Bennett, Andrea Brookfield, Rex Buchanan, Rick Miller, Jeremy Scobee, Brett Wedel, and Brownie Wilson

Wells Measured in 2018

Type of Well	KGS	DWR	Total
Irrigation	469	619	1,088
Unused (monitor or abandoned)	68	152	220
Stock	11	47	58
Household	6	2	8
Depth to Water			
Less than 100 ft	119	510	629
100 to 200 ft	271	197	468
200 to 300 ft	145	57	202
More than 300 ft	18	43	61
Drill Depth of Well			
Unknown	63	120	183
Less than 100 ft	47	257	304
100 to 200 ft	116	232	348
200 to 300 ft	171	119	290
300 to 400 ft	85	38	123
More than 400 ft	82	69	151
Measurement Characteristics			
Oil on the water	60 (10.6%)	41 (4.9%)	101 (7.2%)
Difficult measurement			
(restrictions, snags, catches)	35 (6.2%)	22 (2.6%)	57 (4.1%)

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	453	769	1,222
Twice	90	33	123
Three times	9	5	14
Four times	2	0	2
Total Measurements			
Primary and Quality Assurance (QA)	726	878	1,604
Measurements Judged			
Excellent	495	583	1,078
Good	44	201	245
Fair	15	29	44

2018 Provisional Wells

KGS (10 new wells—10 measured)

04S 40W 26DAB 01	Cheyenne
24S 42W 08CBD 01	Hamilton
11S 33W 28ADA 01	Logan
32S 30W 35CBA 01	Meade
34S 43W 07BDD 01	Morton
02S 36W 31BDA 01	Rawlins
03S 32W 27BCC 01	Rawlins
32S 33W 08A 01	Seward
08S 42W 06DAC 01	Sherman
16S 37W 24BCB 01	Wichita

DWR (18 new wells—10 measured)

22S 34W 29DBB 01	Finney
22S 33W 22ACC 01	Finney
23S 32W 05CAA 01	Finney
22S 31W 13DDB 01	Finney
23S 33W 10CCDD 01	Finney
23S 32W 03CDD 01	Finney
23S 33W 19DCC 01	Finney
22S 34W 23BBBB 01	Finney
29S 38W 31DCD 01	Grant
29S 31W 19CCC 01	Haskell
30S 32W 31BBC 01	Haskell
23S 35W 28DDD 01	Kearny
25S 36W 19CDB 01	Kearny
28S 20W 01DCB 01	Kiowa
28S 11W 34D 01	Pratt
29S 12W 12BAD 01	Pratt
28S 14W 32C 01	Pratt
21S 09W 18AAB 01	Rice

Wells Tagged in 2018 for Removal from the Network and Reason

KGS (1 well)

34S 39W 15CAD 01	Morton	Submersible pump installed limiting access.
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DWR (5 wells)

01S 16W 31CBB 01	Phillips	Dry well; new well measured.
24S 08W 18BAC 01	Reno	Well no longer exists.
24S 28W 31DD 01	Gray	Well no longer exists.
27S 30W 08BBA 01	Gray	Well no longer exists.
30S 38W 15DBC 01	Grant	Well is plugged.

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 2018 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 the DWR. This appendix includes county, well legal description (ID), and 2018 depth of water below ground surface (BGS). 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. 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 "2018 Reports."

APPENDIX A
Water Levels in Wells Measured by the KGS by County, 2018
Including Provisional Well (PROV) and Quality Assurance (QA) Measurements

Well ID	Level	QA Meas	Well ID	Level	QA Meas
CHEYENNE COUNTY			CLARK COUNTY		
01S 38W 02CDC 01	27.71		30S 23W 18D 01	119.73	
01S 38W 08DCC 01	15.71		30S 24W 08DBA 01	63.23	
01S 38W 30CAB 01	12.23		FORD COUNTY		
01S 39W 25CBC 01	10.35		25S 22W 20AAA 01	51.06	
02S 37W 17CDD 01	216.55		25S 22W 27CCD 01	37.90	
02S 37W 33DCC 01	219.14		25S 23W 11CCC 01	64.65	
02S 38W 27DAD 01	230.36		25S 25W 32CDD 01	221.45	
02S 39W 26DAA 01	84.91		25S 25W 32DAD 01	78.64	* 78.64
02S 40W 28DBA 01	109.24		25S 26W 20ABC 01	124.82	
02S 40W 32BCB 01	129.14		25S 26W 25CDD 01	91.39	
02S 41W 29AAC 01	247.16	* 247.16	26S 21W 25CCC 01	7.08	
02S 41W 33DBC 01	236.79		26S 22W 21DCD 01	31.88	
03S 37W 19BBC 01	241.21		26S 22W 24AAB 01	38.57	
03S 37W 21DDD 01	234.28		26S 23W 02ABB 02	196.86	
03S 37W 36ADB 01	223.77		26S 23W 10DAD 01	192.29	
03S 38W 04BCC 01	220.97	* 220.97	26S 24W 29DDD 01	165.34	
03S 38W 21BCB 01	249.56		26S 24W 31DDA 01	43.35	
03S 38W 25BBB 01	234.05		26S 25W 16DCC 01	166.44	
03S 39W 04CCC 01	66.26		26S 26W 18CCB 01	69.60	
03S 39W 20DAC 01	144.86		26S 26W 36DCC 01	73.00	
03S 39W 24DDD 01	231.69		27S 21W 10BDD 01	5.96	
03S 39W 32BDB 01	159.67		27S 21W 18CDC 01	70.48	
03S 40W 29ABC 02	9.28	* 9.28	27S 23W 24BCB 02	73.96	
03S 40W 35AAC 01	102.03		27S 23W 28AAA 01	89.15	
03S 41W 33ABB 01	159.14		27S 23W 36CCC 01	61.26	
04S 37W 17AAC 01	212.21		27S 24W 03BBD 01	40.09	
04S 37W 25DCA 01	171.91		27S 24W 03CDD 01	35.10	
04S 38W 04BAC 01	231.18		27S 24W 09AAD 01	46.82	
04S 38W 20CCC 01	170.87		27S 24W 16BAC 01	101.86	
04S 38W 21ADC 01	199.03		27S 24W 26DAA 01	115.07	
04S 39W 15CCA 01	150.24		27S 25W 09ADB 01	95.39	
04S 40W 08BCA 01	74.39		27S 25W 25BBB 01	141.40	
04S 40W 26DAB 01	PROV18	NMT	27S 26W 04BBD 01	133.98	
04S 41W 16DAA 01	17.20		28S 21W 10DDD 01	58.34	
04S 41W 23AAA 01	126.70		28S 21W 23DBC 01	92.29	
04S 41W 25BCB 02	146.50		28S 21W 25ABB 01	85.48	
04S 41W 29DCD 01	65.99		28S 22W 05ADD 01	25.37	
04S 42W 02BCC 01	216.76		28S 22W 12CAC 01	71.89	
04S 42W 16CCD 01	93.86		28S 22W 32BAB 01	136.12	
05S 37W 15DBB 01	159.15		28S 23W 18BAB 01	158.99	
05S 38W 13BAD 01	91.46		28S 24W 08DCC 01	162.53	
05S 38W 22ACB 01	114.16	* 114.16	28S 24W 22CDA 01	128.26	
05S 39W 06DAA 01	226.84		28S 24W 35CAB 01	122.71	
05S 39W 11CBC 01	169.09		28S 25W 06ABB 01	172.26	
05S 39W 25CDA 01	147.95		28S 25W 19BBB 01	169.14	
05S 40W 14BCD 01	243.86		28S 26W 06ABB 01	203.42	
05S 40W 18ADB 01	249.20	* 249.20	28S 26W 13CAA 01	164.17	
05S 40W 27BBA 01	231.03		29S 21W 05BBB 01	110.32	
05S 41W 34CBB 01	214.59		29S 21W 20CAD 01	146.40	
05S 42W 04AAB 01	18.16		29S 22W 17DAD 01	142.19	
05S 42W 14DCC 01	145.26	* 145.22	29S 22W 36ACA 01	147.31	
			29S 23W 16DDB 01	214.95	

Well ID	Level	QA Meas	Well ID	Level	QA Meas
29S 24W 01ABA 01	-----	161.82	LOGAN COUNTY		
29S 24W 13BCA 01	-----	124.01			
29S 24W 18BAA 01	--QA--	163.58 * 163.58	11S 32W 01BCC 01	-----	120.69
29S 25W 10BBBC01	-----	179.42	11S 32W 19AAB 01	--QA--	110.22 * 110.22
29S 26W 29ABB 01	-----	138.60	11S 32W 31CCD 01	-----	65.12
29S 26W 36BBB 02	-----	48.57	11S 32W 36ABA 01	-----	98.39
GREELEY COUNTY			11S 33W 10BDD 01	-----	118.18
16S 39W 15CDC 01	-----	173.08	11S 33W 28ADA 01	PROV18	NMT
16S 40W 15ACC 01	-----	178.30	11S 34W 13AAB 01	-----	142.67
16S 40W 26ADA 01	-----	131.62	11S 34W 16CDB 01	-----	116.73
16S 41W 11CCB 01	-----	208.18	11S 34W 33DDC 01	-----	136.79
16S 42W 12CAA 01	-----	241.90	11S 35W 12ABC 01	PROV17	161.07
16S 42W 22BCB 01	-----	206.33	12S 32W 16ACA 01	-----	25.26
16S 42W 25AAA 01	-----	208.52	12S 32W 35DAA 01	-----	21.45
17S 39W 02BAA 01	-----	137.60	13S 36W 20CCB 01	-----	8.24
17S 39W 22ABB 01	-----	145.38	MEADE COUNTY		
17S 39W 31DAB 01	--QA--	128.48 * 128.48	30S 26W 04CBB 02	-----	128.68
17S 40W 15CCB 01	-----	148.07	30S 26W 32DDD 01	-----	30.14
17S 40W 17BBA 01	-----	191.79	30S 27W 20ABA 01	-----	140.36
17S 40W 31BBA 01	--QA--	167.80 * 167.80	30S 27W 23ABB 04	-----	123.60
17S 42W 28DAB 01	-----	25.95	30S 27W 27BBB 01	-----	104.01
18S 39W 07BBD 01	-----	118.32	30S 28W 17ABB 01	-----	223.52
18S 39W 19CDA 01	-----	76.20	30S 29W 28BBB 01	-----	217.87
18S 39W 24AAC 01	-----	146.53	30S 30W 04DBB 01	-----	287.68
HAMILTON COUNTY			30S 30W 28ABB 01	--QA--	277.59 * 277.59
21S 39W 07CBA 01	-----	180.59	31S 26W 30BBB 01	-----	115.23
23S 42W 26DCA 02	-----	24.01	31S 27W 20AAA 02	-----	100.56
23S 42W 26DCA 02	--QA--	24.01 *	31S 28W 02CCC 01	--QA--	186.38 * 186.38
23S 42W 27DDB 01	-----	21.45	31S 28W 10BCB 02	-----	200.97
23S 42W 34CBB 01	-----	9.70	31S 28W 26ABB 01	-----	104.40
23S 43W 21ABA 03	-----	12.96	31S 29W 02DBB 01	-----	238.55
23S 43W 23BCB 01	-----	20.78	31S 29W 24DCC 01	-----	241.45
23S 43W 25CBD 03	-----	7.60	31S 29W 30AAA 01	-----	227.20
23S 43W 26BCC 01	--QA--	6.48 * 6.48	31S 30W 16BCD 01	-----	279.29
24S 39W 19CBC 01	-----	8.43	32S 29W 22DCC 01	-----	194.80
24S 39W 35BAC 01	-----	8.21	32S 30W 09CCC 01	-----	264.79
24S 39W 35CBA 01	-----	16.59	32S 30W 35CBA 01	PROV18	NMT
24S 40W 07CBB 01	-----	13.75	33S 28W 29BCB 01	-----	20.10
24S 40W 17BBB 01	-----	13.56	33S 29W 19D 01	-----	195.70
24S 40W 23AAB 01	-----	25.02	33S 30W 22ADD 01	-----	246.80
24S 40W 31BBB 01	-----	UTM	34S 28W 05BDA 01	-----	28.55
24S 41W 01DAD 01	-----	20.47	34S 29W 32BA 01	-----	160.03
24S 42W 08CBD 01	PROV18	NMT	34S 30W 22CBC 01	-----	229.58
24S 43W 03BDD 01	-----	48.17	35S 30W 10CDA 01	-----	31.55
25S 39W 23BDD 01	--QA--	86.98 * 86.98	MORTON COUNTY		
25S 40W 01CA 01	-----	50.27	31S 39W 18CCC 01	-----	239.60
25S 40W 26BBB 01	-----	230.16	31S 40W 11A 01	-----	276.19
25S 43W 03ABB 01	-----	272.85	31S 41W 07CDD 01	-----	134.79
25S 43W 35ADD 01	PROV18	NMT	31S 41W 31CBC 01	--QA--	99.17 * 99.17
26S 41W 20BCD 01	-----	71.78	31S 42W 29AAB 01	-----	110.67
26S 41W 32DAC 01	--QA--	324.22 * 343.43	31S 43W 03CB 01	-----	63.69
26S 42W 10BBB 04	-----	208.05	31S 43W 20CBC 01	-----	114.85
26S 42W 17CBB 02	-----	263.77	32S 39W 06BBB 01	-----	236.25
26S 42W 22DCC 02	-----	281.96	32S 40W 07BDC 01	-----	122.98
26S 43W 25DCC 01	PROV17	314.62	32S 40W 21ADB 01	--QA--	195.87 * 195.87
			32S 41W 15CDC 01	--QA--	22.43 * 22.43
			32S 41W 35DCC 01	-----	188.37

Well ID	Level	QA Meas	Well ID	Level	QA Meas
32S 42W 32CAA 01	-----	NMT	04S 36W 23DCA 01	-----	222.59
32S 42W 35ABD 02	-----	156.00	05S 31W 10DDA 01	-----	42.85
32S 43W 08CBD 01	-----	149.70	05S 31W 20CCA 01	-----	37.94
32S 43W 28BBC 01	-----	87.50	05S 32W 14CDD 01	-----	128.94
33S 39W 16ABB 01	--QA--	100.82 * 100.82	05S 33W 10DAA 01	-----	108.99
33S 40W 23ADD 01	-----	92.39	05S 33W 29BDA 01	-----	25.82
33S 40W 27CCC 01	-----	85.99	05S 34W 15AAA 01	-----	173.64
33S 41W 03ADA 01	-----	175.19	05S 35W 11CCC 01	-----	150.53
33S 41W 33AAC 01	-----	61.14	05S 35W 30CBC 01	-----	180.60
33S 42W 21BCB 01	-----	104.76	05S 36W 21BCD 01	-----	26.74
33S 43W 09DBA 01	-----	111.37			
34S 39W 06CCA 01	-----	131.13	SEWARD COUNTY		
34S 40W 16ABB 01	-----	155.84	31S 31W 03CCC 01	-----	280.42
34S 40W 27BBB 01	--QA--	187.15 * 187.47	31S 32W 01ABC 01	-----	295.08
34S 41W 06CCA 01	-----	42.63	31S 32W 28DCA 01	--QA--	287.59 * 287.59
34S 41W 26DCD 01	-----	162.24	31S 32W 31BBB 01	-----	274.94
34S 41W 28CBA 01	-----	127.12	31S 33W 06CBD 01	-----	322.68
34S 42W 05BDC 01	-----	40.01	31S 33W 20DBB 01	-----	270.73
34S 42W 22CDB 01	-----	85.88	31S 34W 15ADA 01	-----	290.54
34S 42W 22CDB 01	--QA--	85.88	31S 34W 30DBA 01	-----	276.02
34S 43W 07BDD 01	PROV18	NMT	32S 31W 01DBB 01	PROV17	274.98
35S 39W 06CDD 01	-----	265.28	32S 31W 08BBA 01	-----	273.60
35S 40W 03BBB 03	-----	197.66	32S 31W 26CAA 01	--QA--	280.24 * 280.24
35S 41W 16CCD 01	-----	221.59	32S 32W 14BBB 02	-----	284.29
35S 42W 16DCC 01	-----	263.05	32S 32W 19BAB 02	-----	272.63
35S 43W 04AAC 01	-----	119.53	32S 33W 32DBD 01	-----	211.45
35S 43W 13BDB 01	-----	241.76	32S 34W 10DAA 01	-----	286.41
			32S 34W 20BAD 01	-----	UTM
RAWLINS COUNTY			33S 31W 09AAB 01	-----	246.50
01S 33W 24DADD01	-----	197.00	33S 31W 28BBC 01	-----	232.70
01S 35W 24CCA 01	-----	116.05	33S 32W 02AAC 01	-----	255.51
02S 31W 03CAD 01	-----	19.06	33S 32W 28CDD 02	-----	74.32
02S 32W 13ACAA01	--QA--	16.45 * 16.45	33S 33W 12AAD 01	-----	44.16
02S 32W 20DCD 01	-----	17.01	33S 33W 20BCC 01	-----	242.69
02S 33W 26DCC 01	-----	28.59	33S 34W 17DCC 01	--QA--	248.33 * 248.33
02S 35W 13BAA 01	PROV17	168.45	34S 31W 01CAA 01	-----	250.46
02S 36W 11BBCC01	--QA--	192.44 * 192.44	34S 31W 22BDD 03	-----	54.88
02S 36W 31BDA 01	PROV18	NMT	34S 31W 30BBB 01	-----	225.68
02S 36W 36BAA 01	-----	180.19	34S 32W 29BAA 01	-----	214.60
03S 31W 07CBD 01	-----	141.18	34S 32W 35ADA 01	-----	207.85
03S 32W 27BCC 01	PROV18	NMT	34S 33W 02CBA 01	-----	234.40
03S 33W 03DCC 02	-----	33.56	34S 33W 07CCB 01	--QA--	195.15 * 195.15
03S 33W 08CDC 01	-----	23.04	34S 34W 16DAA 01	-----	252.23
03S 34W 03ABB 01	--QA--	13.65 * 13.65	35S 31W 10AAC 01	-----	208.32
03S 34W 27CAD 01	--QA--	6.65 * 6.65	35S 33W 15ABC 02	-----	164.08
03S 35W 18CBB 01	-----	208.96	35S 33W 16BCA 01	-----	172.92
03S 35W 24CBB 01	-----	24.02	35S 34W 10BBB 01	-----	167.57
03S 36W 14CBB 01	--QA--	216.04 * 216.04			
03S 36W 17CCC 01	-----	228.14	SHERMAN COUNTY		
03S 36W 21DBC 01	-----	216.49	06S 37W 07BBA 01	-----	15.59
04S 31W 16ABD 01	-----	11.79	06S 37W 16CDD 01	-----	188.25
04S 32W 09CCC 01	PROV17	68.72	06S 37W 19ABB 02	PROV17	172.50
04S 33W 10ABC 01	-----	140.51	06S 38W 09ABD 01	-----	173.64
04S 33W 14DAC 01	-----	22.72	06S 38W 18DBD 01	-----	145.84
04S 33W 19BCB 01	PROV17	84.67	06S 40W 10AAC 01	-----	185.52
04S 34W 08ABA 02	-----	20.20	06S 40W 13CBC 01	-----	169.70
04S 34W 33CBC 01	--QA--	121.20 * 121.20	06S 40W 30DCC 01	--QA--	191.04 * 191.04
04S 35W 09AB 01	-----	185.96	06S 41W 27DBD 01	-----	192.25
04S 35W 29DDD 01	-----	149.73	06S 42W 02AAA 01	-----	217.62
04S 36W 23CBB 01	-----	226.99			

Well ID	Level	QA Meas	Well ID	Level	QA Meas
06S 42W 22DCC 01	-----	UTM	27S 43W 09CBB 01	-----	269.22
06S 42W 30ADA 01	-----	230.69	28S 39W 16CCC 01	-----	240.52
07S 37W 04BBC 01	-----	167.21	28S 39W 36ABB 02	-----	254.25
07S 37W 05CCB 01	-----	166.84	28S 40W 12DDD 02	--QA--	251.10 * 251.10
07S 38W 28DAA 01	--QA--	169.53 * 169.53	28S 41W 02CCC 01	--QA--	266.14 * 266.14
07S 39W 01DCD 01	-----	149.78	28S 41W 17CDD 01	-----	275.08
07S 39W 09BBB 01	-----	136.12	28S 41W 34BDD 01	-----	326.30
07S 39W 27BDC 01	--QA--	186.62 * 186.62	28S 42W 20BCC 01	-----	256.24
07S 40W 06ADB 01	-----	190.25	28S 42W 32BBB 01	-----	222.47
07S 40W 29BBA 01	-----	164.28	28S 43W 01BAA 01	-----	273.97
07S 40W 35BBB 01	-----	150.06	29S 39W 21DBD 01	-----	301.76
07S 40W 36BAB 01	-----	159.72	29S 40W 02CCB 02	-----	379.89
07S 41W 07BCB 01	-----	229.26	29S 40W 06BCC 01	-----	356.05
07S 41W 28DBB 01	-----	154.22	29S 40W 28ABB 01	-----	337.35
07S 42W 07DAA 01	-----	217.86	29S 41W 14CDC 01	-----	316.61
07S 42W 27AAB 01	-----	195.21	29S 42W 27DAD 01	-----	237.31
08S 37W 03ADB 01	-----	179.94	29S 43W 21DCDD01	-----	114.85
08S 37W 21CCC 01	-----	157.77	29S 43W 33CDB 01	-----	162.70
08S 37W 32ABB 01	-----	114.25	30S 39W 23BBB 02	-----	299.88
08S 38W 17CDD 01	-----	192.56	30S 40W 12BBB 02	-----	347.76
08S 38W 24AAB 01	-----	142.59	30S 40W 33CCB 01	-----	198.48
08S 38W 24AAB 01	--QA--	142.59	30S 41W 13CCC 02	-----	204.88
08S 39W 15CCC 02	-----	193.18	30S 41W 23DDB 01	-----	196.56
08S 40W 12DBA 01	-----	192.71	30S 42W 16BDB 01	-----	184.72
08S 40W 17CDB 01	-----	160.32			
08S 41W 17CBA 01	-----	172.47	STEVENS COUNTY		
08S 41W 25BBC 01	-----	150.60			
08S 42W 06DAC 01	PROV18	NMT	31S 35W 21CCC 01	-----	351.57
08S 42W 15DDB 01	-----	164.89	31S 36W 02CDD 01	-----	209.94
08S 42W 31DCD 01	-----	111.54	31S 37W 09BBC 01	-----	321.55
09S 37W 07DDB 01	-----	92.66	31S 37W 13BDD 01	-----	330.07
09S 38W 13BCC 01	-----	79.60	31S 37W 22BCC 01	-----	333.35
09S 39W 01DBA 01	-----	167.87	31S 38W 17ADB 01	--QA--	280.21 * 280.21
09S 39W 03ACA 01	PROV17		31S 39W 03DCC 01	--QA--	232.53 * 232.53
09S 39W 10CCB 01	--QA--	172.86 * 172.86	31S 39W 25ABB 01	-----	212.07
09S 39W 19CCC 02	-----	168.77	32S 35W 08DDD 01	-----	226.76
09S 40W 10BBA 01	-----	188.85	32S 36W 03DDC 01	-----	315.84
09S 40W 13CDC 01	-----	192.78	32S 36W 21AAA 01	PROV17	319.11
09S 40W 29BBB 01	--QA--	203.64 * 203.64	32S 37W 10DCC 01	--QA--	199.93 * 199.93
09S 41W 05DCC 01	-----	213.34	32S 37W 26BAC 01	-----	155.86
09S 41W 14BBC 01	-----	231.13	32S 38W 11CBB 01	-----	238.22
09S 41W 34BAB 01	-----	206.78	32S 39W 14DDD 01	-----	119.13
09S 42W 14AAA 01	-----	212.09	33S 35W 23CBB 01	-----	271.70
09S 42W 35ABB 01	-----	197.95	33S 36W 02CCC 01	-----	240.40
10S 37W 23CDD 01	-----	153.24	33S 36W 25CDD 01	-----	294.62
10S 40W 10ADC 01	-----	25.29	33S 37W 08BCB 01	-----	200.29
10S 41W 01DAA 01	PROV17	NMT	33S 37W 28CAC 01	-----	199.45
10S 41W 15CAD 01	-----	45.18	33S 37W 35ACD 01	-----	242.79
10S 41W 28ACD 01	PROV17		33S 38W 06AAB 01	-----	104.64
10S 42W 20ABB 01	-----	153.95	33S 38W 10ACC 01	-----	236.86
10S 42W 24BAB 01	-----	126.73	33S 38W 33CAA 01	-----	277.45
			33S 38W 33CAA 01	--QA--	277.45
STANTON COUNTY			34S 35W 26ACC 01	-----	269.03
			34S 36W 10CAC 01	-----	258.75
27S 39W 27BBA 01	-----	292.14	34S 37W 27ABC 03	-----	210.00
27S 40W 10CAA 01	-----	206.03	34S 37W 35AAD 01	-----	195.59
27S 40W 25CBC 01	-----	243.50	34S 38W 02ADC 01	-----	249.98
27S 41W 07DCC 01	-----	230.64	34S 38W 21DCCB01	-----	315.69
27S 41W 35CCC 01	-----	208.31			UTM
27S 42W 17CCC 01	-----	271.65	35S 35W 15BCC 01	-----	208.24
27S 42W 36BCB 01	-----	297.19	35S 36W 01AAA 01	-----	213.60

Well ID	Level	QA Meas	Well ID	Level	QA Meas
35S 37W 02DDD 02	-----	185.74	10S 32W 11BAA 01	-----	138.34
35S 37W 16BCC 02	-----	240.57	10S 32W 29DCB 01	-----	113.90
35S 38W 07CCC 01	-----	312.66	10S 33W 06BBC 02	--QA--	204.65 * 205.83
			10S 33W 11BAB 01	--QA--	178.49 * 178.98
THOMAS COUNTY			10S 33W 19CBD 01	-----	108.45
06S 31W 03ADB 01	-----	120.09	10S 34W 12BCD 01	--QA--	179.78 * 183.20
06S 31W 14BCA 01	-----	97.67	10S 35W 09ABB 01	-----	108.52
06S 31W 19ABA 01	-----	125.91	10S 36W 16CCC 01	-----	145.33
06S 31W 33CCD 01	-----	52.50	WALLACE COUNTY		
06S 32W 12CBC 01	-----	123.76	11S 38W 35CCC 02	-----	130.04
06S 32W 29CDC 01	-----	137.44	11S 42W 08DDC 01	-----	123.30
06S 33W 02CDD 01	-----	126.16	11S 42W 10AAD 01	-----	139.58
06S 33W 07BBB 01	--QA--	149.80 * 149.57	13S 39W 33BBB 01	-----	25.44
06S 33W 23DDD 01	-----	21.35	13S 42W 22CDB 01	-----	79.40
06S 34W 11CDD 01	-----	172.55	13S 43W 36ABB 02	-----	241.00
06S 34W 17CBC 01	-----	169.69	14S 39W 28CAA 01	-----	165.74
06S 35W 02CDD 01	-----	141.19	14S 40W 14CCC 01	-----	140.90
06S 35W 26ACB 01	-----	170.28	14S 41W 22BBC 02	-----	207.05
06S 36W 01CAC 01	-----	183.17	14S 42W 10BAA 01	--QA--	272.50 * 272.50
06S 36W 07BBB 01	-----	197.35	14S 42W 10CAA 01	--QA--	263.70 * 264.30
06S 36W 11ACC 01	-----	192.13	14S 42W 13AAD 01	-----	248.15
06S 36W 30DCB 01	-----	179.36	14S 42W 27BAB 01	-----	263.22
06S 36W 34DDB 01	-----	122.14	14S 42W 32DBB 01	-----	249.65
07S 31W 01DCA 01	-----	141.14	14S 43W 25ACC 01	-----	257.70
07S 32W 07ACA 01	-----	95.12	15S 38W 05CCB 01	-----	111.47
07S 32W 13DBD 01	-----	138.05	15S 38W 14CCD 01	-----	120.72
07S 32W 33BCB 01	-----	143.45	15S 38W 21CCC 01	-----	170.99
07S 33W 07BDA 01	-----	171.75	15S 39W 02BCA 01	-----	165.44
07S 34W 08DDD 01	-----	56.77	15S 39W 06CBC 01	-----	197.12
07S 34W 25AAA 01	-----	134.74	15S 39W 08ACC 01	--QA--	196.94 * 197.39
07S 34W 26DBD 01	-----	135.63	15S 39W 26ACC 01	-----	193.07
07S 35W 09CCC 01	-----	148.48	15S 40W 03BAB 01	-----	181.85
07S 36W 17CCC 01	-----	168.85	15S 40W 06BDB 01	-----	211.85
08S 31W 03CDD 01	-----	170.70	15S 40W 09DCB 01	-----	192.85
08S 31W 20CDD 01	-----	152.71	15S 40W 22ADC 01	-----	184.26
08S 32W 07BAA 01	-----	149.86	15S 40W 31ABC 01	PROV18	NMT
08S 32W 12DBC 01	-----	152.92	15S 41W 09BDD 01	-----	197.78
08S 32W 30AAA 01	PROV18	NMT	15S 41W 27CBC 01	-----	237.25
08S 32W 32DAA 01	-----	131.89	15S 41W 36DDB 02	-----	UTM
08S 33W 34BBC 01	-----	178.21	WICHITA COUNTY		
08S 34W 01BAC 01	-----	150.57	16S 35W 06AAB 01	-----	78.94
08S 34W 06CBC 01	-----	153.97	16S 35W 18CBB 01	-----	141.69
08S 34W 23CBD 01	-----	207.20	16S 35W 24CCC 02	PROV18	NMT
08S 34W 29CCC 01	-----	230.07	16S 35W 32ACB 02	-----	168.47
08S 35W 04CCC 01	-----	100.92	16S 36W 27BBB 02	-----	168.31
08S 36W 15CBB 01	-----	94.20	16S 36W 34CCC 02	-----	158.95
08S 36W 31BCD 01	-----	47.05	16S 37W 17BBB 01	-----	173.64
09S 31W 10BDD 01	-----	106.99	16S 37W 24BCB 01	PROV18	NMT
09S 31W 17CCC 01	-----	110.25	16S 37W 30BAB 01	-----	182.64
09S 31W 36AAB 01	-----	163.99	16S 37W 35ACC 01	-----	177.44
09S 32W 03AAA 01	-----	117.97	16S 38W 04ABC 01	-----	179.61
09S 32W 27BCD 01	-----	142.16	16S 38W 16CCC 01	-----	159.57
09S 33W 10BAD 01	-----	150.97	17S 35W 02ABC 01	-----	171.29
09S 33W 33BBB 01	--QA--	219.77 * 219.76	17S 35W 18DCC 01	-----	173.91
09S 33W 35AAD 01	--QA--	190.32 * 194.60	17S 35W 27CCC 01	-----	168.56
09S 34W 12ADA 01	-----	195.77	17S 35W 30CBB 02	-----	182.22
09S 34W 17ABA 01	-----	169.69	17S 36W 34BCD 01	-----	183.90
09S 35W 20DCA 01	-----	130.97			
10S 31W 26AAA 01	-----	14.83			
10S 31W 29AAB 01	--QA--	104.78 * 104.59			

Well ID	Level	QA Meas
17S 37W 08BAA 02	-----	158.19
17S 37W 13CDD 01	-----	150.27
17S 37W 28CBC 01	-----	173.23
17S 37W 36BCC 01	-----	160.20
17S 38W 03ACA 01	PROV18	NMT
17S 38W 21BBB 01	-----	135.19
17S 38W 28CCC 01	-----	156.74
18S 35W 08BBC 02	--QA--	140.80 * 140.80
18S 35W 14DCD 01	--QA--	117.45 * 117.45
18S 35W 31DDD 01	-----	104.14
18S 36W 15DBD 01	-----	103.07
18S 37W 21BBB 01	-----	167.13
18S 37W 25ABC 01	-----	130.90
18S 38W 02BCC 01	-----	171.55
18S 38W 12CCB 02	-----	178.39
18S 38W 20ACC 02	-----	147.30
18S 38W 31DBC 01	-----	118.49
19S 35W 01ABB 01	-----	110.69
19S 35W 08BBB 01	--QA--	105.25 * 105.25
19S 36W 15BAA 01	-----	82.64
19S 37W 22AAB 01	-----	102.59
19S 38W 24DAB 01	-----	94.26
19S 38W 31CBC 01	-----	146.25
20S 38W 02ACD 01	-----	104.89
20S 38W 17CBD 01	-----	139.57
20S 38W 28DAB 01	-----	129.70

END APPENDIX A

APPENDIX B
Water Levels in Wells Measured by the DWR by County, 2018
Including Provisional Well Measurements (PROV)

Well ID	Level	Well ID	Level
BARBER COUNTY		04S 28W 30DDD 01	86.13
30S 11W 11CCA 01	47.25	04S 30W 06CCC 02	UTM
30S 11W 33ADA 01	20.59	05S 26W 05ADD 01	119.20
30S 12W 04CCC 01	69.08	05S 26W 26DDA 01	21.47
BARTON COUNTY		05S 26W 33DCC 01	17.15
18S 14W 27CDD 01	38.19	05S 27W 21CCA 01	98.90
18S 15W 28CCC 03	10.89	05S 28W 07BBC 01	21.00
19S 11W 19BDD 01	19.64	05S 28W 10BBB 01	8.27
19S 11W 26BDA 01	13.26	05S 28W 14ADD 01	129.76
19S 12W 28DBC 02	14.40	05S 28W 17DAC 01	96.62
19S 13W 08BAD 01	16.68	05S 29W 22CBB 01	16.10
19S 13W 33DDB 01	9.45	05S 30W 15CCB 01	90.97
19S 14W 06BBB 02	13.86	05S 30W 25BBC 01	116.11
19S 14W 23BBC 02	15.57	05S 30W 35BCB 01	120.99
19S 14W 32B 01	30.32	EDWARDS COUNTY	
19S 14W 36BBC 01	10.68	24S 16W 12CBD 01	28.69
20S 11W 06CCC 01	9.52	24S 17W 20ADC 01	44.92
20S 11W 26AAC 01	9.17	24S 17W 24DDD 01	41.24
20S 12W 03DAC 01	6.90	24S 18W 13DAC 01	43.93
20S 12W 23CCA 01	13.09	24S 18W 17ABD 01	33.85
20S 13W 17DDC 01	13.65	24S 18W 28DAC 01	45.16
20S 13W 24DCB 02	20.52	24S 19W 34ADD 01	7.54
20S 13W 31D 01	22.97	25S 16W 02BBB 01	28.82
20S 14W 22CDC 01	15.53	25S 16W 27AAC 01	20.88
20S 15W 24DBD 01	13.45	25S 17W 01DAB 01	39.48
20S 15W 33ADD 01	17.63	25S 17W 17AAC 01	47.45
DECATUR COUNTY		25S 17W 26B 01	PROV17 29.76
01S 27W 17ADA 01	89.50	25S 17W 31BBD 02	44.14
01S 27W 26BBA 01	31.07	25S 18W 09AAA 01	46.60
01S 28W 15BBC 01	149.36	25S 18W 20AAB 01	52.35
01S 29W 03DDB 01	NMT	25S 18W 33CDC 01	49.66
01S 29W 19ACD 01	22.28	25S 19W 08BDD 01	5.75
01S 30W 20CDC 01	77.28	25S 19W 26DDB 01	47.82
01S 30W 34DDD 01	39.15	25S 20W 03BCD 01	28.51
02S 26W 11BBA 01	74.71	25S 20W 19CDA 01	64.65
02S 28W 13ABA 01	29.13	25S 20W 26AAC 01	5.22
02S 29W 01DDD 02	123.20	26S 16W 10CCC 01	17.52
02S 30W 18ACC 01	27.40	26S 16W 18CAC 01	26.18
03S 26W 05CAD 01	158.10	26S 16W 31CCA 01	43.29
03S 28W 06DCB 01	30.38	26S 16W 34ABC 01	31.83
03S 28W 32BCA 01	120.14	26S 17W 14BAA 01	35.82
03S 29W 12BBB 01	18.15	26S 17W 33DDB 01	37.42
03S 29W 17DCB 01	26.47	26S 18W 15DCB 01	50.59
03S 29W 31DCC 01	31.65	26S 19W 16BCB 02	49.51
03S 30W 03CAB 01	90.51	26S 19W 31AAC 01	UTM
03S 30W 26BBB 01	13.01	26S 19W 34BBD 01	57.50
04S 26W 08DDD 01	28.95	26S 20W 20BBC 01	14.09
04S 26W 19DCA 01	13.54	ELLIS COUNTY	
04S 27W 17DAC 01	95.80	13S 18W 29CCC 01	19.51
04S 27W 33BBB 01	17.21	14S 18W 12AAD 01	26.69
04S 28W 15AAA 01	83.08	15S 18W 27CBC 02	10.52
		15S 19W 25CAB 01	16.29

Well ID	Level	Well ID	Level
FINNEY COUNTY		25S 32W 07CAC 01	216.88
21S 31W 26CCC 01	77.71	25S 32W 22DBC 01	195.00
21S 32W 20CBD 01	141.32	25S 32W 31DDC 01	239.18
21S 32W 26DAA 01	118.54	25S 32W 35ACA 01	187.53
21S 33W 29BBC 01	105.61	25S 33W 05ABD 01	236.46
21S 34W 14DBB 01	99.48	25S 33W 09ABD 01	231.24
22S 27W 14ADC 01	186.38	25S 33W 15DAC 01	258.32
22S 31W 08CCC 01	127.47	25S 33W 16DCC 01	150.00
22S 31W 13DDB 01	PROV18 NMT	25S 34W 08CAB 01	271.80
22S 32W 08ACB 01	131.83	26S 31W 01DDA 02	196.16
22S 32W 21CDC 01	142.80	26S 31W 06BBB 02	175.80
22S 33W 04DDCD02	126.28	26S 31W 15BCC 01	202.45
22S 33W 22ACC 01	PROV18 NMT	26S 32W 27DAC 01	286.97
22S 33W 32ABC 01	170.55	26S 33W 10CCD 01	260.31
22S 33W 36BCCC01	155.60	26S 33W 20ACC 02	297.59
22S 34W 18CDD 01	149.52	26S 33W 30ADC 01	306.72
22S 34W 23BBBB01	PROV18 NMT	26S 34W 03BBD 01	PROV17 289.39
22S 34W 26CCC 01	183.90	GOVE COUNTY	
22S 34W 29DBB 01	PROV18 NMT	11S 26W 04CDC 01	74.50
23S 27W 22DAB 01	77.38	11S 27W 08DBB 01	119.18
23S 28W 22DCD 01	76.90	11S 27W 13ABB 01	159.44
23S 29W 30BBB 01	86.14	11S 27W 36BCC 01	80.08
23S 29W 34CDD 01	98.14	11S 28W 08AAA 02	117.59
23S 30W 04ACC 01	80.10	11S 28W 26ABB 01	95.07
23S 30W 19CCB 01	97.10	11S 29W 04DAD 01	111.45
23S 31W 03DCD 01	122.50	11S 29W 33BBA 01	103.38
23S 31W 17ABA 01	128.92	11S 30W 27ABB 01	127.39
23S 31W 28CDD 02	159.43	11S 30W 28CBA 01	125.33
23S 32W 03CAA 01	PROV18 NMT	11S 30W 36CBB 01	106.13
23S 32W 05CAA 01	PROV18 NMT	11S 31W 12AAB 01	108.57
23S 32W 26ACC 01	204.58	11S 31W 27ADC 01	55.86
23S 32W 31BCC 01	PROV17 NMT	11S 31W 35BDC 01	101.09
23S 32W 31CCA 01	149.74	12S 26W 12BCC 01	37.22
23S 33W 07BBC 01	PROV17 NMT	12S 26W 24CBA 01	12.62
23S 33W 10CCDD01	PROV18 NMT	12S 27W 10CCB 01	80.43
23S 33W 19DCC 01	PROV18 NMT	12S 27W 14DDD 01	95.33
23S 33W 26ABB 02	170.35	12S 28W 07DDD 01	50.55
23S 33W 28CDC 02	183.90	12S 28W 13ABA 01	72.40
23S 33W 34ABC 01	176.30	12S 29W 10BBD 01	93.27
23S 34W 06AADA02	209.90	12S 30W 13CCB 01	15.31
23S 34W 10ACB 01	198.50	12S 31W 21CAA 01	15.68
23S 34W 17CCC 01	180.36	13S 26W 20CBC 01	11.55
23S 34W 21DDC 01	175.52	13S 27W 16BDD 01	11.66
23S 34W 32BCC 02	142.40	13S 28W 14AC 01	15.05
24S 31W 27CCB 01	198.25	13S 30W 08ABC 01	39.91
24S 32W 10ACA 01	UTM	13S 31W 05CAB 01	36.22
24S 32W 19CAB 01	97.09	GRAHAM COUNTY	
24S 32W 25CBB 02	60.40	06S 21W 19CDC 02	95.69
24S 32W 36ABC 01	59.55	06S 21W 33DDD 01	21.58
24S 33W 09CCD 01	143.76	06S 22W 19CCC 01	99.82
24S 33W 09CCD 02	18.17	06S 23W 13BBB 01	46.55
24S 33W 09CCD 03	143.66	06S 23W 17CCA 01	59.35
24S 33W 18BDB 01	149.40	06S 24W 14AAA 01	106.06
24S 33W 18BDB 02	178.18	06S 24W 28BAB 01	93.36
24S 33W 19DBB 02	237.48	06S 25W 12CCC 01	138.87
24S 33W 28DAA 01	192.24	06S 25W 28CBC 01	112.41
24S 33W 34CAC 01	226.71	07S 22W 10BBC 01	9.26
24S 34W 01BCBB01	136.60		
24S 34W 17DCA 01	143.20		
25S 31W 16ACA 01	69.28		

Well ID	Level	Well ID	Level
07S 22W 19BBB 01	----- 34.24	24S 28W 31DD 02	PROV18 NMT
07S 23W 17BBD 01	----- 99.08	24S 29W 16DDB 01	----- 143.83
07S 24W 08CBA 01	----- 124.51	24S 29W 18CCB 01	----- 163.60
07S 25W 24BBB 01	----- 86.82	24S 30W 15CCC 02	----- 182.48
07S 25W 33DDD 01	----- 100.07	24S 30W 31ABB 01	----- 193.01
08S 21W 17ABB 01	----- 23.95	25S 27W 33ABB 01	----- 157.14
08S 22W 18CDC 01	----- 8.24	25S 28W 14CBC 01	PROV17 153.86
08S 24W 23ACC 01	----- 31.51	25S 29W 07BCB 01	----- 205.70
08S 25W 24BAB 01	----- 28.87	25S 29W 10DDC 01	----- 197.94
09S 21W 19AAB 01	----- 18.47	25S 30W 25BCC 01	----- 97.42
09S 21W 34BAA 01	----- 26.64	25S 30W 28C 01	----- 103.54
09S 22W 32ABAA 01	----- 42.77	26S 27W 12CDD 01	----- 83.87
09S 23W 26BAA 01	----- 41.35	26S 28W 06DDB 02	----- 47.20
09S 24W 22BAA 01	----- 90.63	26S 28W 25DAA 01	----- 162.93
09S 25W 05BBD 01	----- 81.72	26S 29W 26DBA 01	----- 178.78
09S 25W 14DDD 01	----- 83.70	26S 30W 24DDD 01	----- 186.25
09S 25W 29BBB 01	----- 129.78	27S 27W 07ADC 01	----- 139.04
09S 25W 35ADD 01	----- 91.57	27S 28W 05AAA 01	----- 206.42
10S 24W 10ADD 01	----- 40.87	27S 28W 26ADD 01	----- 208.23
10S 24W 23DCC 01	----- 5.55	27S 28W 26ADD 02	----- 318.79
10S 25W 22AAA 01	----- 20.98	27S 28W 30CDD 01	----- 176.95
GRANT COUNTY		27S 29W 27CAA 01	----- 226.75
27S 35W 17ADD 01	----- 361.14	27S 30W 23BBC 01	----- 247.58
27S 35W 25BDC 01	----- 352.14	28S 29W 16ACC 01	----- 182.25
27S 36W 01ADB 01	----- 331.79	28S 29W 32CCA 01	----- 173.33
27S 36W 21DCD 01	----- 358.28	28S 30W 17BAB 01	----- 265.52
27S 37W 16AAD 01	----- 293.85	29S 29W 27BCB 02	----- 206.76
27S 38W 12ADC 01	----- 221.98	29S 30W 08CCB 01	----- 257.97
27S 38W 21BCC 01	----- 239.74	29S 30W 22BBC 02	----- 290.56
28S 35W 03DBB 01	----- 384.17	HARVEY COUNTY	
28S 35W 36ABC 01	----- 359.90	22S 02W 05CBD 01	----- 54.68
28S 36W 09B 01	----- 326.72	22S 02W 29BBA 01	----- 23.88
28S 36W 18ABC 01	----- 270.79	22S 03W 02DCD 01	----- 40.34
28S 36W 24AAD 01	----- 368.75	22S 03W 29BDB 01	----- 14.89
28S 37W 10ADB 01	----- 264.92	22S 03W 35AAA 01	----- 14.69
28S 37W 33DDC 01	----- 100.45	23S 01W 19BCA 01	----- 44.20
28S 38W 12BCB 02	----- 255.92	23S 02W 22CCD 01	----- 15.82
28S 38W 33BDB 01	----- 276.28	23S 03W 06DDD 01	----- 72.13
29S 35W 07CBD 01	----- 273.58	23S 03W 14AAC 01	----- 33.35
29S 36W 04BAC 01	----- 302.50	23S 03W 32DCC 03	----- 7.89
29S 36W 19BCB 01	----- 266.53	24S 01W 05AAB 01	----- 22.52
29S 36W 33ADB 01	----- 251.36	24S 01W 19BCC 01	----- 14.93
29S 37W 29BBA 01	----- 311.82	24S 01W 22BCC 01	----- 31.90
29S 38W 07CCB 01	----- 268.19	24S 02W 04CCD 01	----- 29.29
29S 38W 31DCD 01	PROV18 NMT	24S 02W 28DDD 01	----- 17.80
30S 35W 02DBC 01	----- 370.49	24S 03W 15DAA 03	----- 9.33
30S 35W 19BCD 01	----- 311.95	HASKELL COUNTY	
30S 36W 01BBB 01	----- 255.58	27S 31W 09CDB 01	----- 256.83
30S 36W 32BBC 01	----- 279.86	27S 31W 24CDC 02	----- 265.39
30S 37W 15CBB 01	----- 286.98	27S 31W 36BDC 01	----- 304.27
30S 38W 13CCC 01	----- 308.18	27S 32W 06BCC 01	----- 304.58
GRAY COUNTY		27S 32W 15CAB 02	----- 299.31
24S 27W 08CCC 01	----- 94.07	27S 33W 19CDB 01	----- 353.62
24S 27W 14ABB 01	----- 67.47	27S 33W 26CDB 01	----- 364.74
24S 27W 29BCC 01	----- 111.25	27S 34W 16DDD 02	----- 307.07
24S 27W 31CDD 01	----- 115.85	27S 34W 28DAA 02	----- 334.12
24S 28W 28BBA 01	----- 133.66	28S 31W 19AAA 01	----- 350.01

Well ID	Level	Well ID	Level
28S 31W 35CCB 01	----- 269.69	25S 38W 08CAA 01	----- 45.70
28S 32W 08ADD 01	PROV17 386.81	25S 38W 20ACC 01	----- 68.74
28S 33W 07CBB 01	----- 430.42	26S 35W 04AAD 01	----- 265.08
28S 33W 20ACD 01	----- 415.94	26S 35W 29BBD 01	----- 282.65
28S 34W 35CBB 01	----- 400.27	26S 35W 36DDB 01	----- 294.39
29S 31W 09CBB 01	----- 321.17	26S 36W 21DDB 01	----- 303.50
29S 31W 19CCC 01	PROV18 NMT	26S 37W 06ACB 01	----- 28.07
29S 32W 19CCC 01	----- 380.56	26S 37W 23BBC 01	----- 251.45
29S 33W 28BCB 02	----- 388.31		
30S 31W 09CBB 01	----- 309.36	KINGMAN COUNTY	
30S 32W 22BBB 01	----- 343.31	27S 06W 12CCD 01	----- 10.75
30S 32W 31BBC 01	PROV18 NMT	27S 06W 16CCB 01	----- 5.72
30S 32W 35BBA 01	----- 306.37	27S 07W 03ADC 02	----- 9.96
30S 33W 14CBD 01	----- 367.01	27S 08W 14DDC 01	----- 2.55
30S 34W 05BBB 01	----- 368.79	27S 08W 17DAC 01	----- 35.28
30S 34W 11BBC 01	----- 371.06	27S 08W 35CBC 01	----- 21.24
30S 34W 31BDB 01	----- 209.12	27S 10W 03DDD 01	----- 56.10
		27S 10W 17DDD 01	----- 64.95
HODGEMAN COUNTY		28S 07W 29CDD 01	----- 26.44
22S 24W 15BDA 01	----- 277.13	28S 07W 35CCD 01	----- 22.82
22S 24W 26DDA 01	----- 162.28	28S 08W 21BBB 01	----- 2.69
22S 24W 35DAC 01	----- 120.28	28S 09W 01BCC 01	----- 7.59
23S 22W 07DAA 01	----- 94.73	28S 09W 21AAA 01	----- 29.53
23S 23W 04AAD 01	----- 39.84	28S 09W 29CCC 01	----- 34.95
23S 23W 04DCA 01	----- 34.16	28S 09W 34AAB 01	----- 45.27
23S 24W 11DAA 01	----- 139.29	28S 10W 16BCB 01	----- 52.31
23S 26W 07CCC 01	----- 327.95	29S 06W 20ACC 01	----- 19.22
23S 26W 20CCC 01	----- 44.91	29S 06W 24CDD 01	PROV17 11.15
23S 26W 20DCC 01	----- 69.59	29S 08W 06DBC 01	----- 19.18
23S 26W 31CDD 01	----- 68.56	29S 09W 18DCB 01	----- 65.47
24S 23W 03CCC 01	----- 61.31	29S 09W 23DDD 01	----- 12.46
24S 23W 06AAB 01	----- 235.16	29S 10W 19DDB 01	----- 24.59
24S 24W 02CCC 01	----- 59.92	30S 05W 12CCA 02	----- 22.08
24S 24W 20CCC 01	----- 64.58	30S 10W 05BBD 01	----- 49.54
24S 25W 22BAB 01	----- 83.16	30S 10W 13AAC 01	----- 74.58
		30S 10W 28DAC 01	----- 22.96
KEARNY COUNTY		KIOWA COUNTY	
22S 35W 23CDD 01	----- 131.56	27S 16W 10BAC 01	----- 39.65
22S 37W 34BBC 01	----- 133.55	27S 16W 19BBD 01	----- 45.00
23S 35W 05ACC 01	----- 163.15	27S 16W 28CDD 01	----- 77.24
23S 35W 09ADD 01	PROV17 NMT	27S 17W 21ADC 01	----- 49.17
23S 35W 12CCC 02	----- 190.35	27S 18W 09ABD 01	----- 76.69
23S 35W 24BBB 03	PROV18 NMT	27S 18W 13AAA 01	----- 41.19
23S 35W 25BBB 03	----- 152.43	27S 18W 18DDC 01	----- 34.67
23S 36W 04CBB 01	----- 150.30	27S 18W 22ADC 01	----- 41.56
23S 36W 32BBB 02	----- 250.07	27S 18W 35AAC 01	----- 49.62
23S 37W 04ABC 01	----- 194.49	27S 19W 16DBD 01	----- 75.30
23S 38W 36BAA 03	----- 237.84	27S 20W 26ABD 02	----- 57.61
24S 35W 09CCC 02	----- 62.04	27S 20W 32ABD 01	----- 58.52
24S 35W 11CBC 01	----- 47.45	28S 16W 12BCA 01	----- 112.08
24S 36W 01ADA 01	----- 97.13	28S 16W 17AAC 01	----- 127.84
24S 36W 23CBB 02	----- 40.40	28S 16W 31DCA 01	----- 77.48
25S 35W 02BAA 01	----- 215.86	28S 17W 01CAB 01	----- 73.02
25S 35W 26BBB 01	----- 287.26	28S 17W 15DDB 01	----- 108.15
25S 36W 05BCA 01	----- 6.60	28S 18W 19CCB 01	----- 99.32
25S 36W 14B 01	----- 151.79	28S 18W 25CAC 01	----- 118.07
25S 36W 19CDB 01	PROV18 NMT	28S 19W 10AAC 01	----- 110.82
25S 36W 35CBB 01	PROV17 208.88	28S 19W 33CBD 01	----- 140.01
25S 37W 15ABA 02	----- 1.84		

Well ID	Level	Well ID	Level
28S 20W 01DCB 02	PROV18 NMT	19S 23W 01CCB 01	----- 93.41
28S 20W 30ACA 01	----- 51.61	19S 23W 08CBB 01	----- 18.71
29S 16W 02ADB 02	----- 56.37	20S 22W 20CCC 04	----- 33.14
29S 17W 04ABC 01	----- 57.74	20S 22W 35BCC 01	----- 34.09
29S 17W 12DAA 01	----- 54.83	20S 23W 32CDA 03	----- 38.50
29S 18W 07BBD 01	----- 156.50	20S 26W 07BDC 01	----- 20.86
29S 19W 22BAA 01	----- 159.28		
29S 20W 11CDD 01	----- 169.21		
LANE COUNTY		NORTON COUNTY	
16S 29W 26CCD 01	----- 113.37	01S 21W 08CCD 01	----- 142.42
16S 29W 33BAB 01	----- 114.52	01S 21W 28CCD 01	----- 88.78
16S 30W 29CDD 01	----- 132.18	01S 22W 33DCC 01	----- 95.47
17S 27W 20CCC 01	----- 100.49	01S 24W 13BCB 01	----- 111.43
17S 27W 26CCC 01	----- 94.75	01S 25W 25BBB 01	----- 36.72
17S 28W 07BBB 01	----- 109.40	02S 21W 02DDB 01	----- 23.70
17S 28W 15BBC 01	----- 115.24	02S 21W 18CAA 01	----- 13.16
17S 28W 26ABB 01	----- 109.08	02S 21W 33CCC 01	----- 85.60
17S 28W 34CBB 01	----- 99.00	02S 21W 36CAA 01	----- 115.30
17S 29W 07DAA 01	----- 127.61	02S 22W 28DCC 01	----- 32.88
17S 29W 36BAA 01	----- 94.84	02S 23W 05DCA 01	----- 94.16
17S 30W 20BBB 01	----- 124.08	02S 23W 22AAA 01	----- 71.54
18S 27W 13CCC 01	----- 89.02	02S 23W 36BAC 01	----- 24.58
18S 28W 18ACC 01	----- 66.82	02S 24W 16ADC 01	----- 137.56
18S 29W 04DDA 01	----- 74.46	02S 25W 14AAA 01	----- 130.36
18S 29W 23DBC 01	----- 15.68	02S 25W 35DBD 01	----- 87.80
18S 30W 02AAA 01	----- 91.99	03S 21W 29DCC 01	----- 102.62
18S 30W 02BBB 01	----- 84.65	03S 22W 27BBA 01	----- 151.32
18S 30W 04BAB 01	----- 83.74	03S 23W 34ADD 02	----- 83.02
18S 30W 23AAA 01	----- 55.89	03S 25W 33AAD 01	----- 29.27
MCPHERSON COUNTY		04S 21W 35DDC 01	----- 14.65
18S 03W 30CCC 02	PROV17 118.44	04S 23W 19DDB 01	----- 134.03
18S 04W 21CCC 01	----- 15.62	04S 25W 28BAA 01	----- 151.43
19S 01W 32DAC 01	----- 46.39	04S 25W 34CDC 01	----- 88.56
19S 03W 16BCB 01	----- UTM	05S 21W 25ADC 01	----- 137.45
19S 04W 15AAC 01	----- 90.04	05S 22W 18CCD 01	----- 8.84
20S 01W 22BBB 01	----- 10.68	05S 24W 14BDC 01	----- 12.65
20S 02W 34CBD 01	PROV17 17.66	05S 24W 20CCC 01	----- 11.29
20S 03W 22DAA 01	----- 49.37	05S 25W 28DCC 01	----- 18.74
20S 03W 30BBB 01	----- 64.48	OSBORNE COUNTY	
20S 04W 02DAD 01	----- 78.28	07S 12W 28ABA 01	----- 33.20
20S 04W 15BDD 01	----- 65.00	07S 15W 10CCC 01	----- 17.99
20S 04W 27DBD 01	----- 52.93	PAWNEE COUNTY	
21S 02W 36ABD 01	----- 12.34	21S 15W 11CBB 01	----- 10.46
21S 03W 06CBD 01	----- 53.94	21S 15W 17CCC 01	----- 15.42
21S 03W 11AAC 01	----- 45.86	21S 15W 31BAD 01	----- 19.51
21S 03W 33BBC 01	----- 50.40	21S 19W 27CCC 01	----- 53.79
21S 04W 26CDC 03	----- 38.29	21S 20W 29BBB 01	----- 52.39
NESS COUNTY		22S 15W 03AAA 01	----- 35.97
16S 24W 15ABB 01	----- 27.43	22S 15W 03AAA 02	----- 37.95
16S 26W 24DDA 01	----- 61.11	22S 15W 13DCA 02	----- 49.90
18S 21W 25AAB 01	----- 26.17	22S 15W 33DDD 01	----- 41.52
18S 21W 31CAA 01	----- 27.19	22S 16W 03CBC 02	----- 15.01
18S 24W 36ADB 01	----- 33.58	22S 16W 06BBA 01	----- 15.59
18S 25W 33BBC 01	----- 25.83	22S 16W 23AAA 01	----- 42.64
18S 26W 06BAB 02	----- 6.66	22S 16W 32CDD 02	----- 38.43
		22S 17W 05BBC 02	----- 21.39
		22S 17W 18AAD 01	----- 34.53

Well ID	Level	Well ID	Level
22S 17W 24CBC 01	10.48	28S 15W 23CCD 01	112.47
22S 17W 27BBD 01	18.83	29S 11W 29AAD 01	66.74
22S 18W 04BCC 02	35.33	29S 12W 12BAD 01	PROV18 NMT
22S 19W 07AAA 01	79.81	29S 12W 20CCD 01	106.84
23S 15W 12DDB 01	32.37	29S 13W 12ABB 01	74.90
23S 16W 11CDC 02	30.12	29S 13W 31CAA 01	35.20
23S 16W 35CCD 02	33.60	29S 14W 12BAA 04	104.79
23S 17W 25AAC 01	29.68	29S 14W 31ACA 01	PROV17 105.86
23S 17W 33CCA 02	38.99	29S 15W 22DDD 01	23.63
23S 18W 28DAD 01	8.78		
23S 18W 36DAC 01	32.27		
		RENO COUNTY	
PHILLIPS COUNTY		22S 04W 12CDA 01	38.78
01S 16W 10ABA 01	17.30	22S 06W 18BCB 01	10.18
01S 16W 31CBB 02	PROV18 NMT	22S 06W 28CCB 01	8.68
01S 17W 21DDD 01	45.18	22S 07W 16BAD 01	8.78
01S 17W 31AAA 01	12.20	22S 08W 33CCD 02	NMT
01S 18W 06BDD 01	25.62	22S 09W 03BBD 01	33.98
01S 18W 34DCD 01	80.00	22S 09W 25BBA 01	21.54
01S 20W 02CCB 01	77.47	22S 10W 02DCC 01	9.29
01S 20W 32ACB 01	20.68	22S 10W 08BBB 01	13.73
02S 18W 06BBC 01	99.46	22S 10W 30DAA 01	11.14
02S 19W 09BBB 01	117.00	23S 04W 03BAB 02	7.94
02S 20W 28BDD 01	37.27	23S 04W 16BBB 01	25.42
04S 18W 27DDD 03	10.43	23S 05W 05DDC 01	12.63
04S 19W 35DDD 01	18.79	23S 05W 31CCB 01	14.43
		23S 06W 31DCB 01	33.64
PRATT COUNTY		23S 07W 20BCC 01	4.92
26S 11W 01DDB 01	26.07	23S 08W 18AAD 01	7.19
26S 11W 27AAC 01	26.30	23S 08W 22AB 01	8.26
26S 11W 29BCB 01	19.48	23S 09W 05CBD 01	19.32
26S 12W 02ABA 01	37.27	23S 09W 21DDB 01	12.32
26S 12W 17CCA 01	40.44	23S 09W 35CCC 01	24.12
26S 12W 34CDC 01	46.62	23S 10W 01AAA 03	13.47
26S 12W 34CDC 02	46.79	23S 10W 29DCA 01	19.05
26S 13W 16DAA 02	29.57	24S 04W 05CBD 02	11.12
26S 13W 19BBD 01	31.42	24S 04W 25BBD 01	6.73
26S 13W 34BCB 01	56.45	24S 04W 31DAB 02	25.66
26S 14W 17DBC 01	35.30	24S 05W 10CCA 01	21.96
26S 15W 01AAB 01	UTM	24S 06W 03AAB 01	30.55
26S 15W 17BBC 01	28.10	24S 06W 23CBA 01	14.02
27S 11W 12CBC 01	51.45	24S 07W 28AAA 01	14.44
27S 11W 18CAA 01	67.92	24S 08W 01BBB 01	PROV17 9.94
27S 12W 33CBA 01	4.10	24S 09W 19DDB 01	25.86
27S 13W 13DDC 01	63.10	24S 10W 06DBB 01	25.91
27S 13W 19A 01	65.02	24S 10W 31CBC 01	11.95
27S 14W 03DAC 01	51.89	25S 04W 02ABB 01	9.04
27S 15W 02ABC 01	42.66	25S 07W 07BBD 01	24.68
27S 15W 05CDB 01	40.17	25S 07W 36CCC 01	29.63
27S 15W 32CCA 01	63.87	25S 09W 01DCD 01	UTM
27S 15W 36ADD 01	84.85	25S 09W 17B 01	UTM
28S 11W 12ACC 01	UTM	25S 09W 30DDA 01	17.08
28S 11W 20CAC 01	71.87	25S 10W 14BBB 01	29.67
28S 11W 34D 01	PROV18 NMT	25S 10W 19ABD 01	31.29
28S 12W 21BAD 01	85.90	26S 06W 13BAB 01	11.09
28S 13W 02DDC 01	15.24	26S 07W 12DCC 02	37.20
28S 13W 17AAA 01	74.16	26S 08W 06DCC 01	7.09
28S 13W 26DCB 01	95.44	26S 08W 30DBB 01	42.50
28S 14W 14CCC 01	84.15	26S 09W 18AAA 01	7.95
		26S 09W 31DCC 01	57.44
		26S 09W 34DBD 01	27.39

Well ID	Level	Well ID	Level
26S 10W 18CDC 01	24.60	20S 33W 09BBB 01	105.76
26S 10W 32BBB 02	28.44	20S 33W 21ABA 01	136.28
RICE COUNTY		20S 33W 36CAD 01	126.21
19S 10W 07DDB 01	9.05	20S 34W 15BAA 01	104.17
19S 10W 36CDC 01	12.59	20S 34W 36CCD 01	68.28
20S 08W 22AAA 01	14.27	SEDGWICK COUNTY	
20S 09W 28ACD 01	19.73	25S 01W 07ABD 01	17.58
20S 10W 27BBB 01	33.58	25S 01W 28DBA 01	14.51
21S 07W 26CCA 01	13.52	25S 02W 22BBB 01	8.50
21S 08W 09CBD 01	12.16	25S 02W 23DBD 02	12.47
21S 08W 25ABB 01	5.85	25S 03W 03DDD 01	11.30
21S 08W 32DBB 01	7.94	25S 03W 15CCC 01	21.79
21S 09W 02DDA 01	13.54	26S 01W 12BAD 01	16.64
21S 10W 07CCA 01	5.30	26S 01W 19ABA 01	7.94
ROOKS COUNTY		26S 02W 08AAB 01	32.67
06S 19W 17BBB 01	15.90	26S 02W 29AAA 01	22.27
07S 17W 14CDD 01	15.24	26S 03W 02AAC 01	19.92
09S 17W 33BBC 01	33.81	SHERIDAN COUNTY	
09S 19W 32DDD 01	28.48	06S 26W 26CBB 01	170.97
09S 20W 32AAA 01	39.80	06S 27W 05CBB 01	110.85
09S 20W 34AAD 01	56.79	06S 27W 08DCA 01	22.44
SCOTT COUNTY		06S 27W 19ADC 01	41.59
16S 31W 31BCB 01	140.29	06S 27W 25ABA 01	163.31
16S 32W 16BCA 01	161.56	06S 28W 21BCD 01	122.97
16S 33W 19BBC 01	167.75	06S 28W 28CDA 01	55.58
16S 33W 33BAA 01	165.00	06S 29W 10DBC 01	138.41
16S 34W 13BBB 01	167.99	06S 29W 24ABB 01	121.65
16S 34W 29CBB 01	175.51	06S 30W 13BAA 01	135.93
17S 31W 04DCC 01	143.56	06S 30W 14CCD 01	120.37
17S 31W 19CDA 01	153.15	07S 26W 12BDB 01	102.71
17S 31W 35CCB 01	107.92	07S 26W 19BBC 01	133.88
17S 32W 16BBB 01	UTM	07S 26W 28CAB 01	161.26
17S 32W 27BBB 01	162.99	07S 27W 07A 01	175.97
17S 33W 07BBA 01	158.58	07S 27W 22DAC 01	126.57
17S 33W 14ACB 01	166.49	07S 28W 08DCC 01	190.97
17S 34W 16ACB 02	149.08	07S 28W 36ABA 01	158.28
17S 34W 25DBB 02	149.58	07S 29W 05BBB 01	131.60
18S 31W 24BCB 01	70.27	07S 29W 27CCC 01	215.70
18S 32W 14BBB 01	125.85	07S 29W 30ABA 01	193.53
18S 32W 17ABA 02	146.16	07S 30W 08CBB 01	124.86
18S 33W 01AAA 01	140.07	07S 30W 27DDD 01	193.67
18S 33W 03CCB 01	136.28	08S 26W 14DAA 01	16.75
18S 33W 25BBB 01	136.82	08S 26W 16CDD 01	37.06
18S 34W 25BBD 01	129.72	08S 27W 11DCD 01	12.72
18S 34W 34BBC 01	113.83	08S 27W 18DAA 01	16.15
19S 31W 17ADA 01	70.74	08S 27W 33BBD 01	18.13
19S 32W 06CCB 01	89.65	08S 27W 35CBB 01	127.64
19S 32W 16BCD 01	PROV17 67.01	08S 28W 11DAA 01	108.62
19S 32W 32ACB 01	102.11	08S 28W 16AAC 01	116.65
19S 33W 06DBB 01	63.28	08S 28W 17BDA 01	138.80
19S 33W 15DBD 01	136.53	08S 29W 01BDD 01	183.47
19S 33W 29CBB 03	119.52	08S 30W 05CDD 01	202.58
19S 34W 19DCCC01	127.83	08S 30W 11CBC 01	222.53
20S 31W 15DAB 01	19.49	08S 30W 13ADA 01	189.02
20S 32W 30BCD 01	134.71	08S 30W 30AAB 01	170.58
		09S 26W 22BBB 01	136.82
		09S 26W 32BCD 01	UTM

Well ID	Level
09S 27W 12CCC 01 -----	108.90
09S 27W 20CBD 01 -----	147.74
09S 27W 31ABB 01 -----	97.26
09S 28W 04BCC 01 -----	31.41
09S 28W 15CBA 01 -----	172.84
09S 29W 03AAA 01 -----	127.97
09S 29W 17BAB 01 -----	125.76
09S 30W 09CAA 01 -----	158.40
09S 30W 35BBB 01 -----	163.01
10S 26W 12AAD 01 -----	22.31
10S 27W 20CBC 02 -----	21.85
10S 27W 22DBA 01 -----	19.81
10S 28W 05DDB 01 -----	122.81
10S 29W 02DDD 01 -----	95.32
10S 29W 20CAA 01 -----	73.71
10S 30W 08DDD 01 -----	107.29
10S 30W 12ADA 01 -----	111.23

STAFFORD COUNTY

21S 11W 07BBB 01 -----	17.39
21S 12W 06CCB 02 -----	26.04
21S 13W 27DDD 02 -----	12.56
21S 14W 22AAC 02 -----	25.72
21S 14W 32BAC 02 -----	34.20
22S 11W 07BBB 01 -----	UTM
22S 12W 05CBB 01 PROV18	NMT
22S 12W 36BBB 02 -----	UTM
22S 13W 12CAC 02 -----	20.62
22S 13W 29DAD 01 -----	21.05
22S 14W 14CCA 01 -----	26.22
22S 14W 35DDB 01 -----	33.17
23S 11W 22BCC 01 -----	22.27
23S 11W 36CCA 01 -----	20.90
23S 12W 07DBD 02 -----	8.26
23S 12W 22BCC 01 -----	13.07
23S 12W 36BBC 01 -----	16.41
23S 13W 08CCB 01 -----	15.00
23S 13W 30CBB 01 -----	13.79
23S 13W 35CCA 01 -----	21.78
23S 14W 15ADD 01 -----	14.89
24S 11W 17DDB 01 -----	21.78
24S 12W 04CDB 01 -----	21.08
24S 12W 17CAB 01 -----	27.47
24S 12W 34ABC 01 -----	21.73
24S 13W 16ACA 01 -----	UTM
24S 13W 20CDD 01 -----	25.86
24S 13W 36DDD 01 -----	24.03
24S 14W 17AAC 02 -----	33.95
24S 14W 31BBD 01 -----	22.42
24S 15W 10BAB 01 -----	29.42
24S 15W 32DBC 01 -----	29.42
25S 11W 23DDD 01 -----	19.31
25S 12W 11AAA 01 -----	13.57
25S 12W 24DDB 01 -----	14.10
25S 13W 16AAC 01 -----	31.79
25S 13W 31DDA 01 -----	28.26
25S 13W 36DCC 01 -----	19.30
25S 14W 04AAD 01 -----	14.45
25S 14W 30CDB 01 -----	18.95
25S 15W 29BBD 01 -----	14.50

Well ID	Level
TREGO COUNTY	
11S 21W 29DDD 01 -----	94.64
11S 21W 33DAA 01 -----	69.06
11S 22W 34AAA 01 -----	81.78
11S 24W 20CCC 01 -----	62.12
12S 21W 05AAA 01 -----	92.38
12S 21W 05DDD 01 -----	76.29
12S 21W 06CBB 01 -----	96.47
12S 21W 08DDD 01 -----	36.69
12S 22W 08BAB 01 -----	86.54
12S 22W 19CBB 01 -----	89.89
12S 22W 23ABC 01 -----	77.60
12S 23W 20CCC 01 -----	17.87
12S 24W 21DDD 01 -----	15.11
13S 23W 24AAB 01 -----	28.64
14S 25W 13ABC 01 -----	15.39

END APPENDIX B