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OPEN-FILE REPORT 2001-6**

Year 2001 Mapping of Water Levels in the
High Plains Aquifer of Kansas and
Analysis of the Monitoring Network

by

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Summary

The Division of Water Resources measured 775 wells in the High Plains aquifer of Kansas during December 2000–February 2001, and the Kansas Geological Survey contributed measurements of another 459 wells made during January 2001. Measurements are stored in the WIZARD database maintained by the Kansas Geological Survey. The Kansas Geological Survey has maximized precautions to archive reliable data and extract measurements devoid of extraneous effects that might mask the true variations in water-table elevation.

The Division of Water Resources and the Kansas Geological Survey have made significant improvements that enhance the reliability of estimates of the water level by placing additional observation wells at locations where the aquifer has been undersampled.

Between February 2000 and February 2001, the High Plains aquifer experienced an average decline of 1.2 ft. More areas of the aquifer continue to decline, compared to areas that are recovering.

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YEAR 2001 MAPPING OF WATER LEVELS IN THE HIGH PLAINS AQUIFER OF KANSAS AND ANALYSIS OF THE MONITORING NETWORK

1. INTRODUCTION

The Kansas Geological Survey (KGS) is responsible for measuring groundwater observation wells in the High Plains aquifer and other Kansas aquifers that until 1996 were measured by the United States Geological Survey. The Division of Water Resources (DWR) continues to measure wells that it was already monitoring prior to the time the Kansas Geological Survey began measuring wells.

The objective of this report is:

- To detect possible inaccuracies in field measurements and transcriptions of depth to water;
- To detect possible errors in the three spatial coordinates required from each observation well—latitude, longitude, and surface elevation;
- To report abnormal measurement possibly resulting from wells in poor mechanical conditions or improperly completed;
- To assess the present reliability of the observation well network;
- To investigate the possibility of improving the reliability of the monitoring network;
- To provide a summary of results of the year 2001 measurements of depth to water in the High Plains aquifer; and
- To provide preliminary assessments of the changes in water table, the primary reason for the existence of the monitoring network.

2. YEAR 2001 OBSERVATION NETWORK

The extraction of data from the WIZARD database was performed at the KGS by Kurt Look (Appendix A). The extraction comprised 1361 observation wells. Several improvements were noted relative to previous years.

- For the first time, all observations wells were properly coded so that wells monitoring aquifers other than the High Plains aquifer could be deleted automatically, without resorting to a preliminary posting as in previous years;

- For the year 2001, extraction included the period 1 December 2000 through 28 February 2001. For convenience, we refer to this period as the 2001 season, even though it extends from the last month of 2000 through the end of February of the current year. The same 3-month periods of the year were used to extract measurements for 1996 and 2000.
- The shallowest reading was extracted if more than one reading per season was archived;
- Measurements with a non-null value for WATER_LEVELS.STATUS were ignored.

The new extraction procedure significantly enhanced the quality of data available for analysis by improving the likelihood that bad measurements, such as those coded as being taken near a flowing well, had been eliminated.

There were 124 wells that monitored aquifers other than the High Plains. As shown in Table 1, three pairs of wells in the observation network are so close together that they have the same legal description for their locations. The second well of each pair was not considered in the analysis because the geostatistical techniques employed here do not allow for multiple measurements at the same site. Hence the number of wells of interest for the present study was only 1234.

TABLE 1. Pairs of well with the same legal description of location.

Seq. No.	USGS ID	KGS ID	Elev. (ft)	Measurements (in ft)			Agency
				2001	2000	1996	
380	374403098372301	26S 12W 34CDC 01	1884	42.64	43.92	44.3	DWR
381	374403098372302	26S 12W 34CDC 02	1884	42.5	43.14	43.4	DWR
602	375832100571001	24S 33W 09CCD 01	2865	47.06	43.8	48.14	KGS
603	375832100571002	24S 33W 09CCD 02	2865	12.05	10.95	12.47	KGS
762	381022098570001	22S 15W 03AAA 01	1970	31.7	31.3	32.18	DWR
763	381022098570002	22S 15W 03AAA 02	1970	33.23	32.59	34.73	DWR

Appendix B lists all of the 2001 High Plains aquifer observations. Plates 1 and 2 contain postings of the observation wells with and without measurements for the 2001 season. Note that the labels are arbitrary sequential numbers,

rather than the longer USGS or KGS official well names. Out of the 1234 wells, 775 were the responsibility of the DWR and 459 were measured by KGS personnel.

Observation wells may also be subdivided on the basis of their classification as official or provisional network observation wells. An official observation well is one that has passed a screening process to insure that it can be employed to monitor the water table. Provisional wells are those which have been measured, but approval for status as an official observation well is still pending. Provisional wells are more recent additions to the network, so their histories are short. In 2001, there were 1181 official observation wells and 53 provisional wells. Table 2 subdivides the wells according to whether they were measured during the 2001 season. Coincidentally, 1176 wells were also measured during the 1999–2000 season.

TABLE 2. Classification of observation wells by availability of measurements during the 2001 season.

<u>Well Status</u>	<u>Measured</u>	<u>Not Measured</u>	<u>Total</u>
Official	1132	49	1181
Provisional	44	9	53
Total	1176	58	1234

3. SEMIVARIOGRAM MODELING

We analyze three attributes:

- Depth to the water table during the 2001 season;
- Difference in depth to water between the 2000 and the 2001 seasons; and
- Difference in depth to water between the 1996 and the 2001 seasons.

Our analysis is based on geostatistics (Olea, 1999), an adaptation of classical statistics to accommodate the autocorrelation of spatial data, such as water-table elevations. Central to any geostatistical analysis is the modeling of spatial continuity by use of a semivariogram or equivalent function. Figure 1 shows the semivariograms for the three attributes of interest.

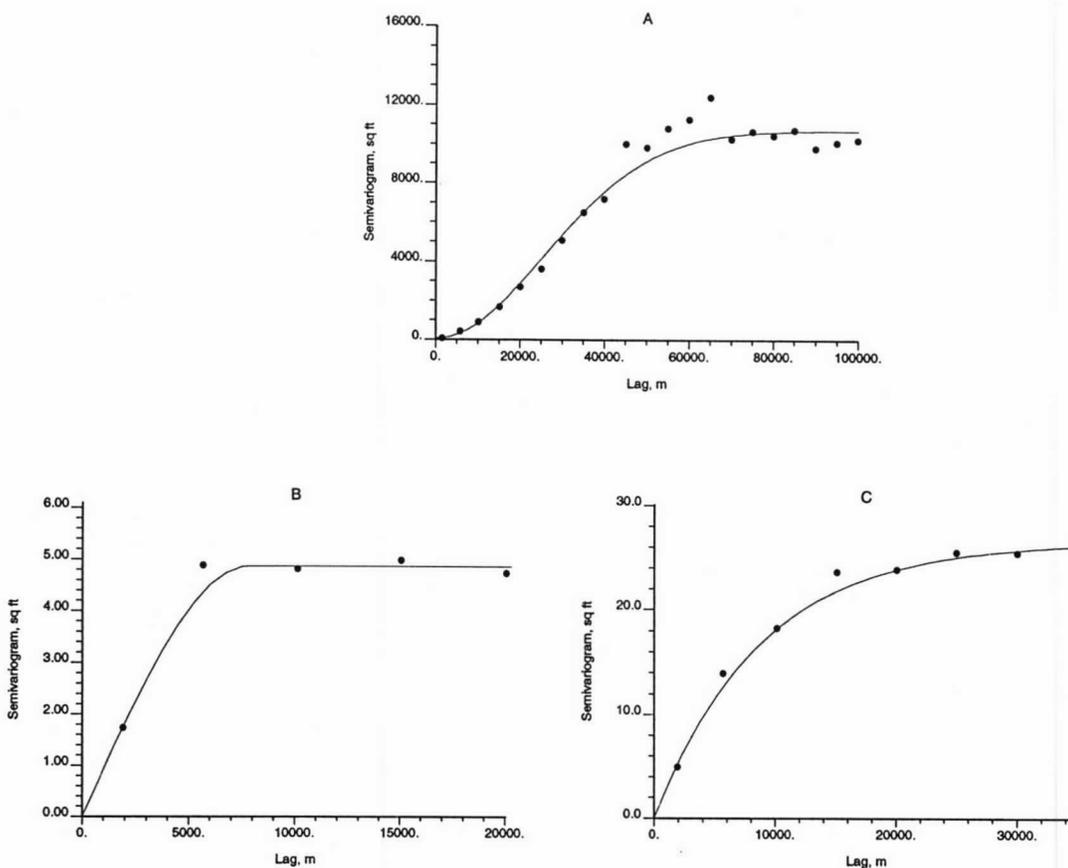


FIGURE 1. Semivariograms for the attributes of interest: (A) Semivariogram for the 2001 water-table elevation along N12E, the trend-free direction. The best model is Gaussian with a nugget of 68 sq ft, range of 62701 m, and (sill-nugget) of 10630 sq ft; (B) Semivariogram for the 2000–2001 difference in water table. The best model is an isotropic spherical model with a range of 7852 m and (sill-nugget) of 4.9 sq ft; (C) Semivariogram for the 1996–2001 difference in the water table. The best model is an isotropic exponential semivariogram with a range of 26412 m and (sill-nugget) of 26.6 sq ft.

4. CROSSVALIDATION OF YEAR 2001 MEASUREMENTS

Crossvalidation is a geostatistical verification procedure that takes advantage of the spatial stochastic continuity of surfaces such as water-table elevation (Olea, 1999, Chapter 7). The method consists of removing one well from the data set and using the remaining measurements to estimate the elevation of the water table at the location of the deleted well. Then, the actual value observed at the well is compared to the estimate, thus obtaining what is called

a "crossvalidation error." The process is repeated, with replacement, for all observations of water-table elevation—1176 for year 2001. The results are useful for analyzing data outliers, the quality of the sampling procedure, and the power of the estimation method to predict unsampled locations.

For the 2001 water-table elevations, crossvalidation indicated that the following two measurements were likely to be in error:

<u>Seq. No.</u>	<u>USGS ID</u>	<u>KGS ID</u>	<u>Elev. (ft)</u>	<u>2001 Depth (ft)</u>
797	381557101014701	20S 34W 36CCD 01	2962	171.62
893	383130100383801	18S 30W 04BAB 01	2872	178.19

Brett Bennet of KGS compared the data extracted from WIZARD with the original field records and noted that the depth to water measurements had transcription errors. The leading 1 was erroneous, as the field notes read 71.62 ft and 78.19 ft. The data base and the extraction were corrected. Consequently, the remaining analyses were done with the correct readings for these two wells. Table 3 summarizes the results of crossvalidation after correction of wells 797 and 893.

TABLE 3. Crossvalidation errors for the year 2001 water-table measurements.

Maximum absolute error:	143.6 ft
90th percentile for the absolute value:	30.5 ft
Upper quartile for the absolute value:	16.5 ft
Average error for the absolute value:	12.4 ft

5. WATER-TABLE ELEVATION IN THE HIGH PLAINS AQUIFER

Plate 3 shows estimated water-table elevations in the High Plains aquifer for the 2001 season. The grid of values used for contouring was generated using universal kriging and the semivariogram shown in Figure 1A.

The water-table surface does not appear much different from the one observed in previous years (Miller, Davis, and Olea, 1998; Olea and Davis, 1999a; Olea and Davis, 2000a), which is partly the reason for mapping the annual differences as described in Section 7.

6. KRIGING STANDARD DEVIATION MAP FOR YEAR 2001

Plate 4 shows the kriging standard deviation associated with the estimated water-table elevations which can be considered as a measure of the reliability of the map in Plate 3. Improving the reliability of the estimates is costly because reducing the kriging standard deviation requires the addition of observations, the number of which is inversely proportional to the fourth power of the sampling density (Olea, 1984). Because of this, the Kansas Geological Survey has decided to limit the kriging standard deviation to the existing average kriging standard deviation in areas with good control, rather than attempting to significantly reduce the kriging standard deviation. The areas with good control have kriging standard deviations of 10 ft or smaller.

Areas of below 10 ft in kriging standard deviation are shown in yellow on Plate 4. Disregarding marginal areas, such as those near the boundaries of the major aquifer, there are 23 areas that have kriging standard deviations above 10 ft. In Section 8, recommendations are made for bringing 100% of the central portion of the major aquifer to kriging standard deviations below 10 ft.

7. WATER-TABLE FLUCTUATIONS

Plate 5 is a rendition of changes in water-table elevation for the 5-yr period 1996–2001. The contour lines represent water depth in 1996 minus the present water depth. Hence, negative values (shown in shades of blue and green) indicate areas where the aquifer has been depleted. The plate was prepared using ordinary kriging and the semivariogram shown in Figure 1C. It is based on a total of 1058 observations.

The general trends are the same as those observed previously for 5-yr periods (Miller, Davis, and Olea, 1998; Olea and Davis, 1999a; Olea and Davis, 2000a). The average increase in depth to the water table in a well is 1.7 ft, an accelerated rate of decline compared to the 1.1 ft noted over the previous 5-yr period of 1995–2000.

The only suspect anomaly is the large recharge in Wichita County supported solely by well 875, whose extracted record is given in Table 4. As shown in Table 5, the well has a history of erratic annual readings over the last decade. Well 875 is also anomalous for the 2000–2001 period shown on Plate 6, which was produced using ordinary kriging and the semivariogram in Figure 1B. There were 1148 observations used to produce this map of 2000–2001 changes in water level. As expected, the differences are smaller in magnitude but more erratic. As shown in Tables 6 and 7, there are more suspect wells for this period than for the longer 1996–2001 period. Wells 43 and 131 also received a bad review in the quality control and assurance program run by John Davis (2001).

TABLE 4. Record of well 875 (18S 38W 23BAB 01).

Seq. No.	USGS ID	KGS ID	Elev. (ft)	Measurements (in ft)			Agency
				2001	2000	1996	
875	382851101291601	18S 38W 23BAB 01	3340	34.98	66.99	71.62	DWR

TABLE 5. Time series of well 875 (18S 38W 23BAB 01).

<u>Date</u>	<u>Water depth (ft)</u>	<u>Date</u>	<u>Water depth (ft)</u>
07-JAN-1991	47.14	06-JAN-1997	71.1
06-JAN-1992	35.98	05-JAN-1998	56.96
02-FEB-1993	45.66	04-JAN-1999	51.48
03-JAN-1994	74.05	03-JAN-2000	66.99
09-JAN-1995	76.02	02-JAN-2001	34.98
08-JAN-1996	71.62		

TABLE 6. Time series of well 131 (30S 32W 31BAB 01).

<u>Date</u>	<u>Water depth (ft)</u>	<u>Date</u>	<u>Water depth (ft)</u>
15-JAN-1991	274.07	12-JAN-1995	284.25
22-MAR-1991	274.92	10-MAR-1995	282.67
10-SEP-1991	281.11	20-SEP-1995	293.96
09-JAN-1992	276.75	17-JAN-1996	284.45
13-MAR-1992	276.06	11-SEP-1996	300.97
02-FEB-1993	279.5	07-JAN-1997	288.19
16-APR-1993	279.3	06-JAN-1998	289.63
07-SEP-1993	281.3	05-JAN-1999	292.73
04-JAN-1994	280.4	06-JAN-2000	292.06
14-SEP-1994	286.86	06-JAN-2001	317.9

TABLE 7. Time series of well 43 (33S 37W 35ACD 01).

<u>Date</u>	<u>Water depth (ft)</u>
07-JAN-2000	183.72
06-JAN-2001	207.19

Year 2000 was unfavorable in terms of sustainability of the High Plains aquifer. With the exception of three areas in and around Gove, Kiowa and Pratt counties, the aquifer shows the most widely spread annual drop in water level of the last 5 yr, compromising the 5-yr gains shown on Plate 5. The average increase in depth to water per well was 1.2 ft, a greater decline than the average drop of 0.34 ft for 1999–2000.

8. NETWORK ANALYSIS

As we have seen in Section 3 (Table 3), 10% of the wells have crossvalidation errors greater than 30.5 ft. Ten percent of 1176 is 118, thus removal of the 118 most critical wells from the network would result in the elimination of errors of 30.5 ft or larger. Conversely, if wells are added to the network at critical locations, comparable improvements should be noted.

In Section 6 we have seen that 23 areas of various sizes that have kriging standard deviations of 10 ft or more were unidentified inside the major High Plains aquifer. This is a relatively high value for the standard deviation. These areas should have relatively large estimation errors. One way to verify this assessment is to see what would happen to the network if the 44 provisional wells measured this year—posted in Plate 7—were removed. These wells were added to eliminate other areas which previously had kriging standard deviations above 10 ft.

Table 8 lists estimates for the 44 locations of the provisional wells measured this year, based only on the 1132 official wells. Figure 2 shows the cumulative distribution for the resulting errors. The average error is close to the average crossvalidation error for the entire network while the maximum error is smaller, primarily because new provisional observation wells tend to be located away from the boundaries of the aquifer where the largest crossvalidation errors occur. A comparison of Tables 3 and 9 shows that the error distribution for the provisional wells is less concentrated near zero. 25% of the errors are larger than 28.2 ft—compared to 16.5 ft for the network—and 10% of the errors are larger than 57.5 ft—compared to 30.5 ft for the network.

The errors in Table 8 and Figure 2 are lower than they would be if the estimates were made by any other estimation method. Geostatistical estimates are optimal in the sense that they have lower estimation errors than any other linear estimates—a statement substantiated on both theoretical and empirical grounds worldwide. The culprit is not our estimation method—it is clearly the reliability of the observation network.

TABLE 8. Errors in mapping the water-table elevation
if provisional wells are not included.

Seq. No.	USGS ID	KGS ID	True ft	Estimated ft	Error ft
42	370758101272501	33S 38W 33CAA 01	2992.10	3039.353	47.253
43	370804101182801	33S 37W 35ACD 01	2892.81	2940.095	47.285
48	370843101210301	33S 37W 28CAC 01	2977.54	2965.393	-12.147
50	370949101125501	33S 36W 22ADC 01	2799.30	2856.765	57.465
51	370954100424701	33S 31W 20ACA 01	2541.23	2535.389	-5.841
64	371237100455301	33S 32W 02AAC 01	2563.73	2571.427	7.698
66	371252101084201	32S 35W 32DCD 01	2793.21	2811.065	17.855
86	371641101254101	32S 38W 11CBB 01	2987.16	2959.669	-27.491
89	371713101125601	32S 36W 03DDC 01	2805.42	2854.144	48.724
107	372109101174101	31S 37W 13BDD 01	2818.49	2840.364	21.874
109	372117101280901	31S 38W 17ADB 01	2901.06	2972.429	71.369
112	372200100214002	31S 28W 10BCB 02	2484.91	2480.208	-4.702
118	372236101324601	31S 39W 03DCB 01	2985.46	3051.840	66.380
123	372306100446001	31S 32W 01ABC 01	2569.17	2569.823	0.653
130	372405100473901	30S 32W 35BBA 01	2582.22	2572.799	-9.421
149	372616101213801	30S 37W 15CBB 01	2852.76	2845.611	-7.149
156	372642101013501	30S 34W 15BAA 01	2653.51	2652.004	-1.506
207	373209100035801	29S 30W 08CCB 01	2613.76	2600.831	-12.929
212	373222100432601	29S 31W 09CBB 01	2605.42	2617.526	12.106
262	373607101121001	28S 36W 24AAD 01	2775.83	2779.795	3.965
287	373748101205501	28S 37W 10ADB 01	2819.46	2828.204	8.744
322	374035099500101	27S 23W 28AAA 01	2370.82	2396.627	25.807
390	374417097281301	26S 01W 31DCC 01	1326.86	1333.281	6.421
408	374544101074601	26S 35W 27AAC 01	2784.88	2788.829	3.949
419	374638101203801	26S 37W 23BBC 01	2907.36	2927.522	20.162
552	375536100465501	24S 32W 36ACB 01	2786.84	2768.418	-18.422
634	380056100554001	23S 33W 34ABC 01	2811.50	2808.571	-2.929
644	380106100434402	23S 31W 28CDD 02	2741.51	2765.350	23.840
653	380135100475901	23S 32W 26ACC 01	2747.42	2779.870	32.450
673	380245101071102	23S 35W 24BBB 02	2891.54	2901.878	10.338
692	380417101021301	23S 34W 10ACB 01	2792.96	2814.837	21.877
793	381456098412802	21S 12W 06CCB 02	1845.88	1846.046	0.166
961	384149101311701	16S 38W 04ABC 01	3313.06	3326.023	12.963
1123	392143100264501	08S 28W 16AAC 01	2620.24	2615.678	-4.562
1198	393039099423702	06S 21W 19CDC 02	2210.50	2152.200	-58.300
1205	393104100272301	06S 28W 21BCD 01	2638.38	2631.536	-6.844
1232	393329101172201	06S 36W 01CAC 01	3165.73	3166.138	0.408
1237	393429101550401	05S 41W 34CBB 01	3527.39	3528.148	0.758
1260	393719101505501	05S 40W 18ADB 01	3438.39	3453.083	14.693
1262	393738101132801	05S 35W 11CCC 01	3052.77	3091.313	38.543
1274	394006100442101	04S 30W 31BBB 01	2738.28	2709.326	-28.954
1290	394205101413101	04S 39W 15CCA 01	3349.29	3344.886	-4.404
1311	394607101495502	03S 40W 29ABC 02	3298.65	3375.741	77.091
1324	394740101175601	03S 35W 18CBB 01	3093.75	3080.551	-13.199

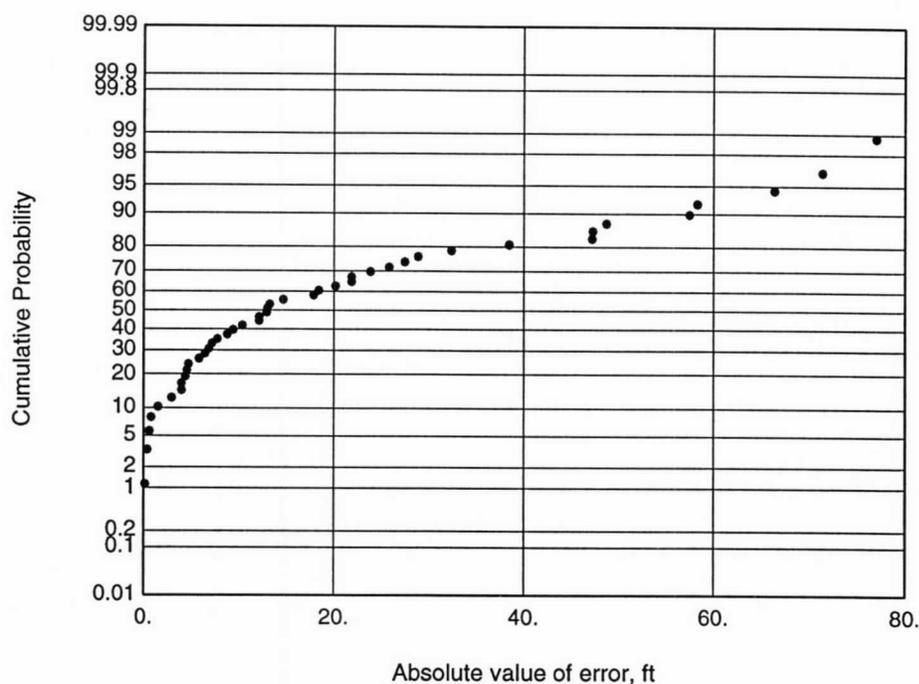


FIGURE 2. Cumulative distribution of absolute errors in the water-table elevation map if the provisional wells are not included.

TABLE 9. Summary of errors in mapping the water-table elevation if provisional wells are not included

Maximum absolute error:	77.1 ft
90th percentile for the absolute value:	57.5 ft
Upper quartile for the absolute value:	28.2 ft
Average error for the absolute value:	12.9 ft

Tables 10 and 11 and Figure 3 have results after repeating the previous analysis now to investigate errors in the 2000–2001 variation in water depth for 36 provisional wells based on the 1112* official wells with measurements for the period. The errors are certainly smaller than those for the 2001 water-table elevation. Yet note that the estimation fails to correctly predict the sign of the fluctuation for 7 wells.

*This number, which is slightly smaller than the 1132 official wells with measurements in 2001, refers to official wells with measurements for the 2000–2001 difference.

TABLE 10. Errors in mapping the change in depth to water over the last year if provisional wells are not included.

Seq. No.	USGS ID	KGS ID	True ft	Estimate ft	Error ft
42	370758101272501	33S 38W 33CAA 01	-5.33	-4.424	0.906
43	370804101182801	33S 37W 35ACD 01	-23.47	-3.718	19.752
48	370843101210301	33S 37W 28CAC 01	-3.07	-4.116	-1.046
50	370949101125501	33S 36W 22ADC 01	-8.61	-3.967	4.643
51	370954100424701	33S 31W 20ACA 01	-1.41	-1.097	0.313
64	371237100455301	33S 32W 02AAC 01	-0.96	-1.195	-0.235
66	371252101084201	32S 35W 32DCD 01	-6.44	-2.980	3.460
86	371641101254101	32S 38W 11CBB 01	-4.25	-3.335	0.915
89	371713101125601	32S 36W 03DDC 01	-8.47	-2.563	5.907
112	372200100214002	31S 28W 10BCB 02	-2.45	-2.818	-0.368
118	372236101324601	31S 39W 03DCB 01	-3.29	-1.632	1.658
123	372306100446001	31S 32W 01ABC 01	-1.47	-4.951	-3.481
149	372616101213801	30S 37W 15CBB 01	-1.77	-2.155	-0.385
156	372642101013501	30S 34W 15BAA 01	-4.38	-1.978	2.402
207	373209100035801	29S 30W 08CCB 01	-0.84	-2.219	-1.379
262	373607101121001	28S 36W 24AAD 01	0.63	-2.062	-2.692
322	374035099500101	27S 23W 28AAA 01	5.55	-1.194	-6.744
390	374417097281301	26S 01W 31DCC 01	-0.76	-1.904	-1.144
408	374544101074601	26S 35W 27AAC 01	-7.26	-5.771	1.489
419	374638101203801	26S 37W 23BBC 01	-1.80	-2.711	-0.911
552	375536100465501	24S 32W 36ACB 01	-0.58	-1.437	-0.857
634	380056100554001	23S 33W 34ABC 01	-1.51	-0.053	1.457
644	380106100434402	23S 31W 28CDD 02	2.010	-1.505	-3.515
653	380135100475901	23S 32W 26ACC 01	-1.40	-1.177	0.223
673	380245101071102	23S 35W 24BBB 02	0.660	1.453	0.793
793	381456098412802	21S 12W 06CCB 02	-1.84	-0.853	0.987
961	384149101311701	16S 38W 04ABC 01	-3.65	0.382	4.032
1123	392143100264501	08S 28W 16AAC 01	-1.86	-1.389	0.471
1198	393039099423702	06S 21W 19CDC 02	0.37	-0.781	-1.151
1205	393104100272301	06S 28W 21BCD 01	-0.48	-0.977	-0.497
1232	393329101172201	06S 36W 01CAC 01	-2.06	-1.411	0.649
1260	393719101505501	05S 40W 18ADB 01	-12.31	-1.247	11.063
1274	394006100442101	04S 30W 31BBB 01	-2.17	-2.310	-0.140
1290	394205101413101	04S 39W 15CCA 01	-0.50	-0.856	-0.356
1311	394607101495502	03S 40W 29ABC 02	0.08	-0.402	-0.482
1324	394740101175601	03S 35W 18CBB 01	2.11	-0.459	-2.569

TABLE 11. Summary of errors in change in depth to water over the last year if provisional wells are not included.

Maximum error:	19.75 ft
90th percentile for the absolute value:	5.91 ft
Upper quartile for the absolute value:	3.08 ft
Average error for the absolute value:	2.47 ft

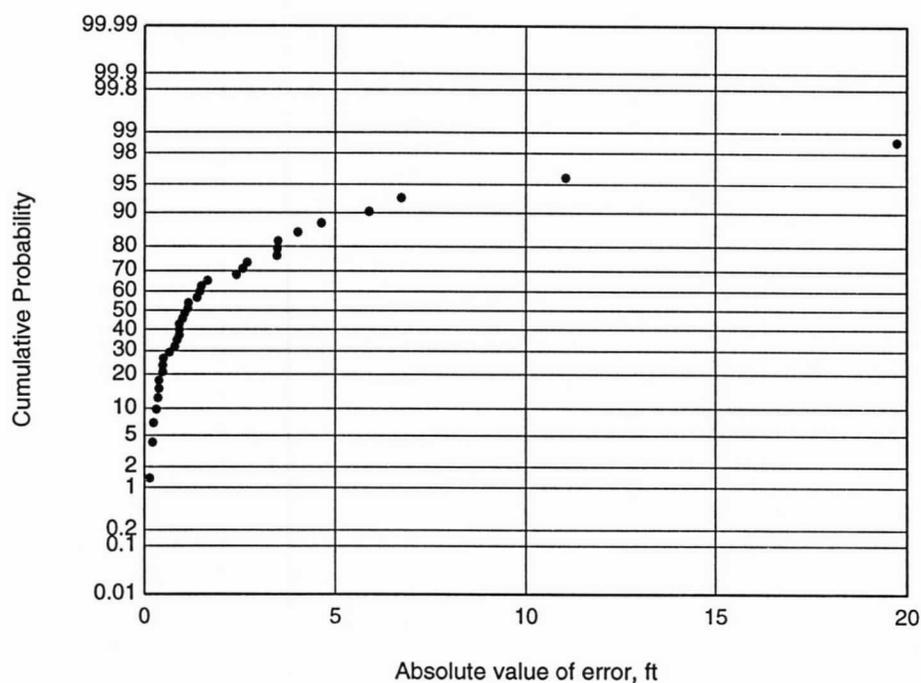


FIGURE 3. Cumulative distribution of absolute errors in change in depth to water over the last year if provisional wells are not included.

9. NETWORK ADDITIONS

Errors in Tables 3, 9, and 11 are significant enough to be worthwhile to try to prevent them. As shown in Table 2, 58 wells—9 KGS and 49 DWR—were not measured for various reasons that are not discussed here. Table 12 lists 17 of those wells that because of their strategic locations should be brought back into the category of observation wells that are actually measured.

Table 12. Observation wells that should be measured next year.

<u>Seq. No.</u>	<u>USGS ID</u>	<u>KGS ID</u>	<u>Elev. (ft)</u>	<u>Agency</u>
41	370752101073701	33S 35W 33DBD 01	2987	KGS
92	371801101363101	32S 39W 06BBB 01	3265	DWR
177	372944100474902	29S 32W 26CBB 02	2895	KGS
214	373228100595702	29S 34W 11ADD 02	2960	KGS
235	373412101180101	28S 36W 31BDD 01	3080	KGS
669	380217098071401	23S 07W 20BCA 01	1600	DWR
769	381120098434802	21S 13W 27DDD 02	1877	DWR
795	381504098465101	21S 13W 05CBD 01	1893	DWR
947	383841101363801	16S 39W 22DCB 01	3529	DWR
960	384139101354901	16S 39W 02BDC 01	3520	DWR
978	384657101535501	15S 41W 05ACB 01	3794	DWR
980	384710101501101	15S 41W 02AAA 01	3766	DWR
1103	391940100521901	08S 32W 27DAB 01	3078	DWR
1186	392901101093401	06S 34W 31CDB 01	3255	DWR
1202	393045101054701	06S 34W 22DCA 01	3207	DWR
1243	393526101081201	05S 34W 28ADC 01	3207	DWR
1293	394230101100901	04S 34W 18ADA 01	3015	DWR

Table 13 lists four official observation wells that were not found in the 2001 data extraction from WIZARD. These wells should be reactivated or replaced by nearby wells. Based on past experience in inserting new observation wells into the network to lower the kriging standard deviation, there is some leeway in locating wells. Usually a replacement well in the same section or in any of the contiguous sections is almost equally effective in reducing the kriging standard deviation.

TABLE 13. Wells removed from the network that should be reactivated.

<u>Seq. No.</u>	<u>USGS ID</u>	<u>KGS ID</u>	<u>Elev. (ft)</u>	<u>Agency</u>
2001	372128101035901	31S 34W 18BBB 01	2951	KGS
2001	372855100335801	29S 30W 35ACD 01	2805	KGS
2003	372816100441901	30S 31W 05BBB 01	2855	KGS
2615	375811097373001	24S 03W 14BBB 01	1430	DWR

It is important to give consideration to obtaining a measurement at location 3013 (26S 31W 26) still pending from previous proposals (Olea and Davis, 1999b; Olea and Davis, 2000b). Finally, it is necessary to add 13 new observation wells at the sites listed in Table 14 to completely eliminate areas

inside the major High Plains aquifer that have kriging standard deviations above 10 ft.

TABLE 14. Ideal locations for new observation wells.

<u>Seq. No.</u>	<u>UTM X (m)</u>	<u>UTM Y (m)</u>	<u>Legal Location</u>
4001	355500.	4391800.	4S 30W 33ADA
4002	364400.	4394800.	4S 29W 21ADB
4003	361400.	4387400.	5S 29W 7DCD
4004	314800.	4366700.	7S 34W 19CDA
4005	297000.	4174800.	27S 36W 18BAC
4006	278000.	4131100.	31S 39W 36CDD
4007	382000.	4370400.	7S 27W 6BDA
4008	340000.	4131100.	31S 32W 33BBA
4009	570400.	4205200.	24S 8W 4DDA
4010	595500.	4209600.	23S 5W 19BCD
4011	319000.	4203000.	24S 34W 21BAB
4012	334800.	4198000.	25S 32W 6ABB
4013	352200.	4360000.	8S 30W 7ABB

Well 3013 (26S 31W 26) and wells in Tables 12–14 are posted on Plate 8, which shows the kriging standard deviation that would be obtained if the recommended wells were used in addition to the wells actually measured in 2001. It can be seen that the additional wells actually reduce the kriging standard deviation below 10 ft in all areas of the High Plains aquifer that are of economic importance.

10. CONCLUSIONS AND RECOMMENDATIONS

Upon concluding our geostatistical analysis of 1176 measurements of water-table elevation in the Kansas High Plains aquifer during the 2001 season, 1148 measurements of the difference in water depth for the period 2000–2001, and 1058 measurements of difference in water depth for the 5-yr period 1996–2001, we draw the following conclusions:

- Extraction of data from the WIZARD data base has finally been done in a manner that fits the needs of a geostatistical analysis when adequate precautions are taken to avoid retrieval of unreliable measurements still in the data base;
- Crossvalidation allowed detection of transcription errors in water depth for two wells;

- The year 2001 extraction had 44 measurements of provisional wells recently added to the network. Without these wells, the 2001 water-table elevation at these locations would have had errors in excess of 28 ft for 25% of the locations;
- Review of provisional wells should be accelerated to give them the status of official observation wells;
- Complete elimination of areas having more than 10 ft of kriging standard deviation (except near the aquifer boundary) requires reactivation of annual measurements of 17 observation wells, reactivation or replacement of 4 official wells that have been removed from the network, implementation of one additional observation well pending from previous years recommendations, and the selection of 13 new observation wells;
- On average, measurements of depth to water in the High Plains aquifer increased 1.2 ft last year, an accelerated annual rate relative to the 0.34 ft/year rate for 1999–2000.

ACKNOWLEDGMENTS

We are grateful to Kurt Look for his diligence in polishing and releasing the code to produce the best possible extraction of the data, and to Marios Sophocleous for reading a preliminary draft and making suggestions to improve the report.

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APPENDIX A

**ORACLE PL/SQL CODE USED
TO PREPARE THE EXTRACTION**

Following is the main Oracle PL/SQL program used by KGS staff member Kurt Look to select wells and water levels for the 5-yr study period. The program is a PL/SQL "package" with a "procedure" called LoadUTM() that does the actual well selection according to criteria set over the years.

The steps in the process are:

- Call LoadUTM() to build an Oracle table (KLOOK.UTM).
- Run a process to generate the UTMs for each well in LKOOK.UTM
- Run an SQL script (extract.sql) to select the first and last year in the study period in a format that imports directly into Microsoft Excel.

```

rem File: $PACKAGES/wizard/utm/extract.spb
rem
rem This package is used to extract from WIZARD for Ricardo.
rem
rem 02/15/99 kkl Initial draft
rem 02/16/99 kkl TheLat,TheLong
rem 02/22/99 kkl Do the proper select to get network wells
rem 03/17/99 kkl Specs changed - now want 5 years
rem 03/07/00 kkl Prep for 2000
rem 02/01/01 kkl Prep for 2001
rem 03/12/01 kkl Ricardo and I made a lot of changes
rem
rem
rem This package is used to extract from WIZARD for the UTM work that is
rem done by Ricardo Olea.
rem
rem
rem Load YEAR, YEAR-1, YEAR-5:
rem
set scan on
set verify off
@dates.s
rem
rem For every well in "the network", select the 'YEAR-5,YEAR-1,YEAR'
rem readings.
rem
create or replace package body EXTRACT
is
  /*
  *****
  ** LoadUTM()
  *****
  **
  ** Extract the 'InFirstYear' to 'InLastYear' first water level readings.
  */

  procedure LoadUTM(InFirstYear in INTEGER,
                   InLastYear in INTEGER,
```

```

                InCounter  in INTEGER,
                InEcho     in BOOLEAN := FALSE)
IS
    DateAndTimeTable      PLVtab.date_table;
    DepthToWaterTable     PLVtab.number_table;
    LatitudeTable         PLVtab.number_table;
    Longitudetable        PLVtab.number_table;

    TheLatitude           number;
    TheLongitude          number;

    TheCounter            integer := 0;
    InHighPlainsAquifer  integer;

    Year                  integer;

    TheCountKGS           integer := 0;
    TheCountDWR           integer := 0;
    TheCountOther         integer := 0;

    TheAgencyString      varchar2(200);
    TheAgencyInteger     integer;

    TheWellTypeString     varchar2(200);
    TheWellTypeInteger    integer;
    TheWarning            varchar2(200);

BEGIN

    PLVexc.nolog;  -- Log to screen
    p.1('EXTRACT::LoadUTM()');

    PLVcmt.init_counter;
    PLVcmt.commit_after(1000);

    /*
    ** Select every well in the network.
    **
    ** NOTE: I return the results ordered by SEQ# because Dana discovered
    ** that some of the QA readings in '99 were taken before the "real"
    ** reading. So, he suggested a SEQUENCE_NUMBER sort. This is based on
    ** the assumption that I'll run the normal wells into WIZARD (from WW)
    ** before the QA run. I commented the routines there, too.
    **
    **
    ** Wells in the network meet this criteria. The problem with this code
    is we add provisionals every
    year. So,
    ** to avoid editing in PROV-2001, PROV-2002, etc, I'm using an idea
    from Jeff (below):
    **
    **   where      O.OTHER_IDENTIFIER_ASSIGNOR = 'KSNET002'
    **   and        O.OTHER_IDENTIFIER in ('ANNUAL NW',
    **                                     'ANNUAL SC',
    **                                     'ANNUAL SW',
    **                                     'ANNUAL WC',
    **                                     'ANNUAL EB',
    **                                     'PROV-1998',

```

```

**          'PROV-1999',
**          'PROV-2000')
*/

FOR Header IN
  (select  S.USGS_ID,
           S.LAND_SURFACE_ALTITUDE,
           S.LATITUDE,
           S.LONGITUDE,
           S.LOCAL_WELL_NUMBER,           -- KGS_ID
           S.GEOLOGICAL_UNIT1,
           S.GEOLOGICAL_UNIT2,
           S.GEOLOGICAL_UNIT3
  from    WIZARD.SITES S
  where   exists (select USGS_ID
                    from  WIZARD.OTHER_IDS
                    where  USGS_ID = S.USGS_ID
                    and    OTHER_IDENTIFIER_ASSIGNOR = 'KSNET002'
                    and (
                        OTHER_IDENTIFIER like 'ANNUAL%'
                        or
                        OTHER_IDENTIFIER like 'PROV%'
                    )
                )
  order by S.USGS_ID
  )
LOOP

/*
** Counts to help verify this is working.
*/

begin
  select OTHER_IDENTIFIER,
         RESPONSIBLE_AGENCY
  into   TheWellTypeString,
         TheAgencyString
  from   WIZARD.OTHER_IDS
  where  USGS_ID = Header.USGS_ID
        and OTHER_IDENTIFIER_ASSIGNOR = 'KSNET002'
        and (
            OTHER_IDENTIFIER like 'ANNUAL%'
            or
            OTHER_IDENTIFIER like 'PROV%'
        );
  exception
  when others
  then
    p.l('LoadUTM(): USGS_ID=' || Header.USGS_ID || ' Problem
selecting from WIZARD.OTHER_IDS' || ' ['
|| SQLERRM || ']');
    exit;
end;

/*
**
*/

```

```

if TheWellTypeString like 'ANNUAL%'
then
  TheWellTypeInteger := 1;                                -- 1 = ANNUAL

elsif TheWellTypeString like 'PROV%'
then
  TheWellTypeInteger := 0;                                -- 0 = PROVISIONAL

else
  TheWellTypeInteger := NULL;                             -- Should not happen
  p.1('USGS_ID=' || HEADER.USGS_ID || ' [' ||
HEADER.LOCAL_WELL_NUMBER || '] ' || 'TheWellTypeString='
|| TheWellTypeString);
end if;

/*
**
*/

TheAgencyInteger := NULL;
if TheAgencyString = 'KGS'
then
  TheAgencyInteger := 1;                                  -- 1 = KGS
  TheCountKGS := TheCountKGS + 1;

elsif TheAgencyString like 'DWR%'                        -- DWR, DWR-BASIN
then
  TheAgencyInteger := 0;                                  -- 0 = DWR
  TheCountDWR := TheCountDWR + 1;

else
  TheAgencyInteger := NULL;                               -- Bad Agency
  TheCountOther := TheCountOther + 1;                    -- Should not happen
  p.1('USGS_ID=' || HEADER.USGS_ID || ' [' ||
HEADER.LOCAL_WELL_NUMBER || '] ' || 'TheAgencyString=' ||
TheAgencyString);
end if;

/*
** Is this well in the High Plains Aquifer? To determine this, I got
this code from John Davis sometime in
** the spring of 1999. Jeff Schloss says there are some minor
problems here because some subtle things are missing.
** Along the Arkansas River where it enters Kansas from the west,
there is a stretch of 4-5 counties along the river
** where any well that is within some distance of the river and is
less than 50' deep is not part of the aquifer because
** there is a clay layer that gives false readings in that area.
Also, Jeff says that High Plains are any combination
** (with at least one non-null value) of QA,QU,TO and no KD,KJ,JM,
OU,KN,PL. 02/01/01-KKL.
**
** There are still some wells that Ricardo never wants to see again.
See below. 03/12/01-KKL.
*/

InHighPlainsAquifer := 0;
if Header.GEOLOGICAL_UNIT1 = 'QA' and

```

```

        Header.GEOLOGICAL_UNIT2 is null and
        Header.GEOLOGICAL_UNIT3 is null
    then
        InHighPlainsAquifer := 1;

    elsif Header.GEOLOGICAL_UNIT1 = 'QA' and
        Header.GEOLOGICAL_UNIT2 = 'QU' and
        Header.GEOLOGICAL_UNIT3 is null
    then
        InHighPlainsAquifer := 1;

    elsif Header.GEOLOGICAL_UNIT1 = 'QA' and
        Header.GEOLOGICAL_UNIT2 = 'QU' and
        Header.GEOLOGICAL_UNIT3 = 'TO'
    then
        InHighPlainsAquifer := 1;

    elsif Header.GEOLOGICAL_UNIT1 = 'QA' and
        Header.GEOLOGICAL_UNIT2 = 'TO' and
        Header.GEOLOGICAL_UNIT3 is null
    then
        InHighPlainsAquifer := 1;

    elsif Header.GEOLOGICAL_UNIT1 = 'QU' and
        Header.GEOLOGICAL_UNIT2 is null and
        Header.GEOLOGICAL_UNIT3 is null
    then
        InHighPlainsAquifer := 1;

    elsif Header.GEOLOGICAL_UNIT1 = 'QU' and
        Header.GEOLOGICAL_UNIT2 = 'TO' and
        Header.GEOLOGICAL_UNIT3 is null
    then
        InHighPlainsAquifer := 1;

    elsif Header.GEOLOGICAL_UNIT1 = 'TO' and
        Header.GEOLOGICAL_UNIT2 is null and
        Header.GEOLOGICAL_UNIT3 is null
    then
        InHighPlainsAquifer := 1;

    end if;

    /*
    ** After reviewing the 2001 extract, Ricardo determined that these
wells were not in the High Plains Aquifer in spite
    ** of what we computed above. See his email:
    **
    ** Re: WIZARD extract with UTMs
    ** Date: Thu, 08 Mar 2001 11:44:56 -0600 (CST)
    ** From: Ricardo Olea <olea@kgs.ukans.edu>
    */

    if InHighPlainsAquifer = 1
    then
        if Header.USGS_ID in (
            381728099470701, -- 20S 22W 20CCC 01
            2189 QA O KGS

```

2538	QA	O	KGS	381946100141801, -- 20S 26W 07BDC 01
2220	QA	O	KGS	382447099534801, -- 19S 23W 08CBB 01
2122	QA	O	KGS	382632099411501, -- 18S 21W 31CAA 01
2235	QA	O	KGS	382645099551201, -- 18S 24W 36ADB 01
2402	QA	O	KGS	382656100055901, -- 18S 25W 33BBC 01
2085	QA	O	KGS	382749099352001, -- 18S 21W 25AAB 01
1910	QA	P	DWR	384259099191202, -- 15S 18W 27CBC 02
1937	QA	O	DWR	384305099232201, -- 15S 19W 25CAB 01
2245	QA	O	DWR	385026100025601, -- 14S 25W 13ABC 01
2000	QU	O	DWR	385115099155401, -- 14S 18W 12AAD 01
2000	QU	O	DWR	385313099211601, -- 13S 18W 29CCC 01
3322	QA	O	DWR	385314101395701, -- 13S 39W 33BBB 01
3023	QA	O	DWR	385421101210001, -- 13S 36W 20CCB 01
2432	QA	O	DWR	385423100142501, -- 13S 26W 20CBC 01
2490	QA	O	DWR	385519100193402, -- 13S 27W 16CA 02
2538	QU	O	DWR	385532100234301, -- 13S 28W 14AC 01
2242	QA	O	DWR	392038099575401, -- 08S 24W 23ACC 01
2302	TO	O	DWR	392058100035201, -- 08S 25W 24BAB 01
2122	QA	O	DWR	392105099491801, -- 08S 22W 18CDC 01
2398	QA	O	DWR	392123100105401, -- 08S 26W 14DAA 01
2035	QA	O	DWR	392151099410501, -- 08S 21W 17ABB 01
1531	QU	O	DWR	392518098393601, -- 07S 12W 28ABA 01
1878.5	QA	O	DWR	392533099243701, -- 07S 19W 23CDB 01
1735	QA	O	DWR	392618099110701, -- 07S 17W 14CDD 01
1648	QA	O	DWR	392710098591901, -- 07S 15W 10CCC 01
1505.8	QU	O	DWR	393038098374501, -- 06S 12W 23CDC 01
2250	QU	O	DWR	393709099594501, -- 05S 24W 14BDC 01
1770	QA	O	DWR	394013099194801, -- 04S 18W 27DDD 01
				393643099505401, -- 05S 22W 18CCD 01 Added

03/14/01-KKL

```

393822099395801, -- 05S 21W 10AAA 01 ""
393922099253001 -- 04S 19W 35DDD 01 ""
)
then
  InHighPlainsAquifer := 0;
end if;
end if;

/*
** Loop on each of the years. The only reason we need the tables is
** to compute the same LAT/LONG for each record. Seed the LAT/LONG
** pair with the worst reading (from SITES).
*/

TheLatitude := Header.LATITUDE;
TheLongitude := Header.LONGITUDE;

for Year in InFirstYear .. InLastYear
loop

  DateAndTimeTable(Year) := NULL;
  DepthToWaterTable(Year) := NULL;
  LatitudeTable(Year) := NULL;
  LongitudeTable(Year) := NULL;

  begin

    /*
    ** 1. NOTE/WARNING: This logic used to grab the FIRST well in the
    season. So, for 1996, the first well
    ** coming in >= 12/01/95 and before 03/01/96 gets chosen.
    Today, I changed the > 12/01/xx to
    ** >=. See my email to Ricardo Olea from today. This means the
    season is all of DEC,JAN,FEB only.
    ** 03/09/01-KKL. Then, after discussions with Jeff Schloss and
    Ricardo, we changed this routine to
    ** follow the GH rule and return the "most recovered" or
    "shallowest depth to water" value found for
    ** the season. 03/12/01-KKL.
    **
    ** 2. Subject: Re: You'll love this one
    ** Date: Fri, 09 Mar 2001 11:26:00 -0600 (CST)
    ** From: Jeff Schloss <jeff@kgs.ukans.edu>
    **
    ** The upshot of this email is that if WATER_LEVELS.STATUS is
    not NULL, then we have to skip
    ** the measurement. If the well is being pumped or something,
    then the measurement cannot be
    ** trusted. A non-null STATUS thus means skip. Sample codes:
    **
    ** Codes used when a water-level is recorded:
    ** (no code is assigned for static water-level measurements)
    **
    ** E - The site was flowing recently.
    ** G - A nearby site that taps the same aquifer was flowing.
    ** H - A nearby site that taps the same aquifer had been
    flowing recently.

```

```

**      I - Injector site (recharge water being injected into the
aquifer).
**      J - Injector site monitor (a nearby site that taps the
same aquifer is
**          injecting recharge water).
**      R - The site had been pumped recently.
**      S - A nearby site that taps the same aquifer was being
pumped.
**      T - A nearby site that taps the same aquifer had been
pumped recently.
**      V - A foreign substance was present on the surface of the
water.
**      X - The water level was affected by stage in nearby
surface water site.
**      Z - Other conditions that would affect the measured water
level.
**
**      Codes used when no water-level is recorded:
**
**      D - The site was dry.
**      F - The site was flowing but the head could not be
measured.
**      * N - The measurement was discontinued.
**      O - An obstruction was encountered in the well above the
water surface.
**      P - The site was being pumped.
**      * W - The well was destroyed.
*/

```

```

FOR YEARLY IN
  (select W.MEASUREMENT_DATE_AND_TIME,
         W.DEPTH_TO_WATER,
         W.LATITUDE_GPS,
         W.LONGITUDE_GPS
  from   WIZARD.WATER_LEVELS W
  where  W.USGS_ID = Header.USGS_ID
  and    W.STATUS is null
  --
  See #2 above
  and    W.DEPTH_TO_WATER > 0
  --
  Paranoia?
  and    W.MEASUREMENT_DATE_AND_TIME >= to_date('12/01/' ||
to_char(Year-1), 'MM/DD/YYYY') --
  See #1 above
  and    W.MEASUREMENT_DATE_AND_TIME < to_date('03/01/' ||
to_char(Year), 'MM/DD/YYYY') --
  See #1 above
  and    nvl(W.DEPTH_TO_WATER,0) > 0
  order by W.USGS_ID,
         W.SEQUENCE_NUMBER
  )
LOOP

/*
** As you can read above, we used to just take the first
measurement for the season. After
discussions with

```

```

        ** Jeff Schloss and Ricardo, we changed this routine to follow
the GH rule and return the "most
recovered" or
        ** "shallowest depth to water" value found for the season.
03/12/01-KKL.
        */

        if YEARLY.DEPTH_TO_WATER < nvl(DepthToWaterTable(Year),9999)
-- DEPTH_TO_WATER > 0 (see
SELECT above)
        then
            DateAndTimeTable(Year) := YEARLY.MEASUREMENT_DATE_AND_TIME;
            DepthToWaterTable(Year) := YEARLY.DEPTH_TO_WATER;
            LatitudeTable(Year) := YEARLY.LATITUDE_GPS;
            LongitudeTable(Year) := YEARLY.LONGITUDE_GPS;
        end if;

        END LOOP;

    exception
        when NO_DATA_FOUND
        then
            NULL;
        end;

        TheLatitude := nvl(LatitudeTable(Year), TheLatitude);
        TheLongitude := nvl(LongitudeTable(Year), TheLongitude);

    end loop;

    if TheLatitude is null or TheLongitude is null
    then
        p.l('WARNING: Header.USGS_ID=' || Header.USGS_ID || ' missing
lat/long. ');
    end if;

    /*
    ** Lat long and the table loaded - output a record for each year.
    */

    for Year in InFirstYear .. InLastYear
    loop

        INSERT INTO KLOOK.UTM values
        (Header.USGS_ID,
        Header.LAND_SURFACE_ALTITUDE,
        Header.LOCAL_WELL_NUMBER,
        Header.GEOLOGICAL_UNIT1,
        Header.GEOLOGICAL_UNIT2,
        Header.GEOLOGICAL_UNIT3,
        DateAndTimeTable(Year),
        DepthToWaterTable(Year),
        TheLatitude,
        TheLongitude,
        NULL,
        NULL,
        NULL,
        InHighPlainsAquifer,
        -- 0 = Not in, 1 = In

```

```

        Year,
        TheWellTypeInteger,           -- 0 = Provisional, 1 =
Annual    TheAgencyInteger);         -- 0 = DWR, 1 = KGS
    end loop;

    TheCounter := TheCounter + 1;

    PLVcmt.increment_and_commit;

    if TheCounter >= nvl(InCounter,999999999)
    then
        exit;
    end if;

END LOOP;

PLVcmt.perform_commit;      -- The final commit

/*
** Exit message
*/

TheWarning := NULL;
if TheCountOther > 0
then
    TheWarning := ' *** WARNING: This value should be 0.
WIZARD.OTHER_IDS.RESPONSIBLE_AGENCY for ANNUAL or
PROV wells should be DWR or KGS only.';
end if;

p.l('');
p.l('TheCounter: ' || to_char(TheCounter) || ' sites processed.');
```

```

p.l('');
p.l('KGS = ' || TheCountKGS);
p.l('DWR = ' || TheCountDWR);
p.l('Other=' || TheCountOther || TheWarning);
p.l('');

EXCEPTION
    WHEN OTHERS
    THEN
        PLVexc.bailout;
END LoadUTM;

/*
*****
** Checker()
*****
**
** Compare this year's file with last year's.
*/

procedure Checker(InEcho in BOOLEAN := FALSE)
IS
    TheID varchar2(200);
BEGIN
```

```

PLVexc.nolog; -- Log to screen
p.l('EXTRACT::Checker()');

PLVcmt.init_counter;
PLVcmt.commit_after(1000);

/*
**
*/

p.l('Wells in KLOOK.UTM that are not in KLOOK.&&LAST_UTM.:');

FOR NEW IN
  (select distinct(USGS_ID) USGS_ID
   from KLOOK.UTM
   order by USGS_ID
  )
LOOP

  begin
    select distinct(USGS_ID)
    into TheID
    from KLOOK.&&LAST_UTM.
    where USGS_ID = NEW.USGS_ID;

    exception
    when NO_DATA_FOUND
    then
      p.l(NEW.USGS_ID);

    when others
    then
      p.l('Checker(): USGS_ID=' || NEW.USGS_ID || ' Problem selecting
from KLOOK.&&LAST_UTM.' || '[' ||
SQLERRM || ']');
      exit;
    end;

  END LOOP;

/*
**
*/

p.l('Wells in KLOOK.&&LAST_UTM. that are not in KLOOK.UTM.:');

FOR OLD IN
  (select distinct(USGS_ID) USGS_ID
   from KLOOK.&&LAST_UTM.
   order by USGS_ID
  )
LOOP

  begin
    select distinct(USGS_ID)
    into TheID
    from KLOOK.UTM

```

```
        where      USGS_ID = OLD.USGS_ID;

exception
  when NO_DATA_FOUND
  then
    p.l(OLD.USGS_ID);

  when others
  then
    p.l('Checker(): USGS_ID=' || OLD.USGS_ID || ' Problem selecting
from KLOOK.UTM.' || ' [' || SQLERRM
|| ']');
    exit;
  end;

END LOOP;

p.l('Success');

EXCEPTION
  WHEN OTHERS
  THEN
    PLVexc.bailout;
END Checker;

end EXTRACT;
/

exec PLVvu.err('BODY:EXTRACT');
exit;
```

APPENDIX B

**HIGH PLAINS AQUIFER
OBSERVATION WELLS**

Seq.No.	USGS ID	KGS ID	Elevation ft	2001 depth ft	2000 depth ft	1996 depth ft	UTM X m	UTM Y m	Status	Agency
1	370001101472201	35S 41W 16CCD 01	3520		224.59	224.73	251945	4097979	official	DRW
2	370012101070901	35S 35W 15BCC 01	2978	142.14	140.17	126.91	311469	4097137	official	KGS
3	370014101211601	35S 37W 16BCC 01	3138	166.43	163.35	150.09	290368	4097623	official	KGS
4	370023100550801	35S 33W 16BCA 01	2838	142.73	142.45	139.08	329415	4097034	official	KGS
5	370027101565601	35S 43W 13BDB 01	3615	207.26	205.09	197.6	237646	4099433	official	DRW
6	370048100342101	35S 30W 10CDA 01	2393	25.21	25.35	25.4	360286	4097743	official	KGS
7	370057101324601	35S 39W 10CAD 01	3302	227.06	224.23	213.15	273469	4099428	official	KGS
8	370123100402401	35S 31W 10AAC 01	2690	197.84	197.43		351130	4098286	official	KGS
9	370128101004001	35S 34W 10BBB 01	2912	98.54	96.64	90.5	321024	4099324	official	KGS
10	370136101360401	35S 39W 06CDD 01	3330	234.18	234.52	229.6	268667	4100642	official	DRW
11	370157100505901	35S 32W 06CBB 01	2780	184.3	184.31	171.7	335532	4099826	official	KGS
12	370159101511101	35S 42W 02DBB 01	3554		178.14	176.23	246265	4101961	official	DRW
13	370217101593801	35S 43W 04AAC 01	3554	100.35	98.43	94.41	233726	4102818	official	DRW
14	370218101103301	35S 36W 01AAA 01	3022	162.32	159.01	144.56	306467	4101101	official	KGS
15	370224101394602	35S 40W 03BBB 02	3369	189.59	188.98	183.64	263178	4102397	official	DRW
16	370246101261701	34S 38W 34CAA 01	3194	201.51	195.75	180.14	283203	4102604	official	KGS
17	370301100454001	34S 32W 35ADA 01	2734	199.07	199.29		343532	4101772	official	KGS
18	370304101180901	34S 37W 35AAD 01	3111	152.65	149	141.74	295292	4102744	official	KGS
19	370322101443201	34S 41W 26DCD 01	3360	160.38	161.99	164.62	256188	4104237	official	DRW
20	370342101471501	34S 41W 28CBA 01	3435	122.33	122.16	131.38	252137	4105125	official	DRW
21	370352101055301	34S 35W 26ACC 01	2977	181.4	172.93	147.84	313775	4103577	official	KGS
22	370355100592301	34S 34W 26BCA 01	2908	146.47	142.13	127.43	323128	4103734	official	KGS
23	370356101193902	34S 37W 27ABC 02	3132	152.71	149.12	139.78	292922	4104436	official	KGS
24	370356101221301	34S 37W 29BBB 01	3170	181.99	177.37	162.56	289275	4104477	official	KGS
25	370407100442701	34S 31W 30BBB 01	2731	218.06	217.87	216	345229	4103610	official	KGS
26	370407100492901	34S 32W 29BAA 01	2765	180.83	178.93	175.27	337762	4103831	official	KGS
27	370422101140501	34S 36W 21DBD 01	3079	202.86	198.96	185.79	301388	4105021	official	KGS
28	370422101523401	34S 42W 22CDB 01	3492	82.29	82.12	80.9	244285	4106555	official	DRW
29	370423100344401	34S 30W 22CBC 01	2675	209.52	209.5	204.69	359649	4103836	official	KGS
30	370517101324601	34S 39W 15CAD 01	3280	148.56	147.13	141.96	273777	4107272	official	KGS
31	370523101004901	34S 34W 16DAA 01	2943	174.67	169.95	156.27	321122	4106511	official	KGS
32	370552101401901	34S 40W 16ABB 01	3363	147.68	146.88	144.45	262629	4108844	official	DRW
33	370602100572601	34S 33W 07CCB 01	2901	154.8	153.02		326105	4107515	official	KGS
34	370604101132901	34S 36W 10CAC 01	3065	196.35	192.48	177.52	302264	4108215	official	KGS
35	370655101315801	34S 39W 02CCA 01	3248	107.05	106.23	103.78	274966	4110479	official	KGS
37	370706100384201	34S 31W 01CAA 01	2720	223.77	222.81	217.85	353735	4108953	official	KGS
38	370712100232201	34S 28W 05BDA 01	2350	27.14	26.3	26.77	376148	4108894	official	KGS
39	370714101244701	34S 38W 02ADC 01	3171	186.52	179.95	164.64	285428	4110639	official	KGS
41	370752101073701	33S 35W 33 DBD 01	2987				311054	4111322	prov.	KGS
42	370758101272501	33S 38W 33CAA 01	3202	209.9	204.57		281761	4112241	prov.	KGS
43	370804101182801	33S 37W 35ACD 01	3100	207.19	183.72		295072	4112001	prov.	KGS
44	370819100250601	33S 29W 36AAB 01	2463	91	89.78	89.23	373889	4111177	official	KGS
45	370833100482402	33S 32W 28CDD 02	2630	61.85	61.73	60.81	339453	4111820	official	KGS
46	370835101394701	33S 40W 27CCC 01	3308	83.49	82.94	82.67	263393	4113879	official	DRW
47	370842100515101	33S 33W 25DCC 01	2810	210.36	209.93	206.61	334915	4111992	official	KGS
48	370843101210301	33S 37W 28CAC 01	3125	147.46	144.39		291158	4113324	prov.	KGS
49	370857100234601	33S 28W 29BCB 01	2371.3	16.45	16.45	16.4	375806	4112280	official	KGS
50	370949101125501	33S 36W 22ADC 01	3035	235.7	227.09		303206	4115045	prov.	KGS
51	370954100424701	33S 31W 20ACA 01	2750	208.77	207.36		347796	4114260	prov.	KGS
52	370958101055501	33S 35W 23CBB 01	2968	189.1	182.32	157.47	313275	4114752	official	KGS
53	371000100561001	33S 33W 20BCC 01	2866	215.9	216.26	208.83	327708	4114556	official	KGS
54	371000101535601	33S 42W 21BCB 01	3527	93.67	92.99	91.17	242545	4116905	official	DRW
55	371015101222101	33S 37W 17CCC 01	3124	138.86	134.2	121.11	289159	4116191	official	KGS
56	371026101020701	33S 34W 17DCC 01	2918	152.75	150.2	139.5	318916	4115544	official	KGS
59	371135101260901	33S 38W 10ACC 01	3166	175.94	172.31	159.9	283921	4118822	official	KGS
60	371148100510701	33S 33W 12AAD 01	2626	20.4	19.5		335771	4118038	official	KGS
61	371154100412801	33S 31W 09AAB 01	2766	224.83	223.28	216.76	349693	4118051	official	KGS
62	371221101334301	33S 39W 04DBB 01	3237	117.33	114.84	116.78	272625	4120633	official	DRW
63	371235101452101	33S 41W 03ADA 01	3430	165.12	165.25	167.23	255506	4121516	official	DRW
64	371237100455301	33S 32W 02AAC 01	2790	226.27	225.31		343379	4119378	prov.	KGS
65	371246101290701	33S 38W 06AAB 01	3203	98.4	97.85	96.43	279274	4121115	official	KGS
66	371252101084201	32S 35W 32DCD 01	2985	191.79	185.35		309532	4120539	prov.	KGS
68	371306100554201	32S 33W 32DBD 01	2830	180.85	180.08	173.22	328993	4120528	official	KGS
69	371339101025301	32S 34W 32BBB 01	2921	201.71	201.05	191.26	318210	4121916	official	KGS
71	371403100394301	32S 31W 26CAA 01	2783	241.08	239.56	233.23	352543	4122050	official	KGS
72	371420101185501	32S 37W 26BAC 01	3118	139.14	137.83	127.72	294567	4123690	official	KGS

Seq.No.	USGS ID	KGS ID	Elevation ft	2001 depth ft	2000 depth ft	1996 depth ft	UTM X m	UTM Y m	Status	Agency
73	371425100272002	32S 29W 27AAB 02	2688	161.62	161.45	157.7	370811	4122481	official	KGS
75	371511101400401	32S 40W 21ADB 01	3342	195.72		196.15	263269	4126205	official	DRW
76	371516101135901	32S 36W 21AAC 01	3067	205.3	203.65	192.55	301782	4125123	official	KGS
77	371524100504201	32S 32W 19BAB 01	2854	238.86	237.9	233.7	336311	4124781	official	KGS
78	371530101320601	32S 39W 14DDD 01	3202	91.7	89.04	80.86	276081	4126315	official	KGS
81	371618100354701	32S 30W 09CCC 01	2764	224.47	222.38	215.38	358300	4126132	official	KGS
82	371621101082601	32S 35W 08DDD 01	3012	196.27	194.03	186.75	310255	4126975	official	KGS
83	371621101194001	32S 37W 10DCC 01	3120	179.65	179.31	181.2	293530	4127357	official	KGS
85	371641100594601	32S 34W 10DAA 01	2925.4	255.74	254.28	245.73	323004	4127427	official	KGS
86	371641101254101	32S 38W 11CBB 01	3175	187.84	183.59		284691	4128357	prov.	KGS
88	371706100432201	32S 31W 08BBB 01	2815	237.71	236.57	230.35	347056	4127773	official	KGS
89	371713101125601	32S 36W 03DDC 01	3060	254.58	246.11		303546	4128812	prov.	KGS
90	371732100214701	32S 28W 04ADD 01	2546	79.14	78.58	77.88	379160	4128014	official	KGS
91	371733100402001	32S 31W 03DAA 01	2790	228.25	226.26	219.85	351574	4128487	official	KGS
92	371801101363101	32S 39W 06BBB 01	3265				268773	4131182	prov.	DRW
94	371852100505801	31S 32W 31BBB 01	2864	241.96	239.39	234.06	336055	4131218	official	KGS
95	371904101223801	31S 37W 30DDB 01	3138	275.99	270.38	247.17	289113	4132739	official	KGS
96	371931100115501	31S 26W 30BBB 01	2516	103.3	102.88		393747	4131826	official	KGS
97	371936100200301	31S 28W 26ABB 01	2496	53	45.59	49.94	381805	4131999	official	KGS
98	371938100250102	31S 29W 25AAA 02	2698	200.98	198.71	194.96	374477	4132089	official	KGS
99	371938100302901	31S 29W 30AAA 01	2741	191.78	189.8	185.02	366362	4132265	official	KGS
100	371945101412701	31S 40W 29ABB 01	3331	190.14	189.84	188.68	261600	4134628	official	DRW
102	372010100555101	31S 33W 20DBB 01	2897	236.81	234.83	228.9	328871	4133696	official	KGS
103	372016101201201	31S 37W 22BCC 01	3096	274.66	267.02	252.84	292831	4134622	official	KGS
104	372026100162402	31S 27W 20AAA 02	2466	42.98	34.66	44.71	387283	4133468	official	KGS
107	372109101174101	31S 37W 13 BDD 01	3083	264.51			296853	4136322	prov.	KGS
108	372117100354701	31S 30W 16BBC 01	2770	230.88	228.84	216.7	358570	4135311	official	KGS
109	372117101280901	31S 38W 17 ADB 01	3162	260.94			281222	4136867	prov.	KGS
110	372128101065001	31S 35W 15BAA 01	3009	312.41	310.55		312881	4136516	official	KGS
112	372200100214002	31S 28W 10BCB 02	2643	158.09	155.64		379361	4136419	prov.	KGS
114	372214101211701	31S 37W 09BBC 01	3102	264.94	260.94	247.24	291274	4138319	official	KGS
115	372220100203501	31S 28W 02CCC 01	2623	145.37	142.84	140.35	380980	4136970	official	KGS
116	372227101121501	31S 36W 02CDD 01	3019	194.83	194.67	194.1	304789	4138373	official	KGS
117	372234100410001	31S 31W 03CCC 01	2817	251.3	249.41		350519	4137431	official	KGS
118	372236101324601	31S 39W 03DCB 01	3190	204.54	201.25		274499	4139371	prov.	KGS
119	372240100572101	31S 33W 06CBD 01	2948	274.24	272.09	265	326790	4138494	official	KGS
120	372241100263201	31S 29W 02DBB 01	2720	193.68	191.61	185.93	372225	4137799	official	KGS
122	372304100104601	30S 26W 32DDD 01	2488	17.38	15.94	23.68	395530	4138308	official	KGS
123	372306100446001	31S 32W 01ABC 01	2830	260.83	259.36		344981	4138797	prov.	KGS
124	372307100171401	30S 27W 32DDD 01	2475	10.25	7.55	7.44	385925	4138444	official	KGS
125	372326101422301	30S 40W 33CCB 01	3309	195.19	194.82	193.01	260336	4141566	official	DRW
126	372338098311401	30S 11W 33ADA 01	1780	16.32	16.53		542445	4138482	official	DRW
128	372357101171501	30S 36W 32BBC 01	3064	212.76	206.47	194.98	297563	4141477	official	DRW
130	372405100473901	30S 32W 35 BBA 01	2848	265.78			341211	4140779	prov.	KGS
131	372405100515601	30S 32W 31BAB 01	2906	317.9	292.06	284.45	334890	4140895	official	KGS
132	372408098243901	30S 10W 28DAC 01	1730	16.8	19.04	20.66	551957	4139551	official	DRW
133	372442101304601	30S 38W 30ACA 01	3152		223.77	207.33	277602	4143437	official	DRW
134	372446100160201	30S 27W 27BBB 01	2518	48.11	50.78	43	387605	4141609	official	KGS
135	372454100361701	30S 30W 28ABB 01	2803	225.99	221.6	214.33	357888	4142084	official	KGS
136	372454100404001	30S 31W 26ABB 01	2834	267.32	264.79	238.46	351373	4142117	official	KGS
137	372455100301701	30S 29W 28BBB 01	2758	209.62	208.01	200.83	366711	4141905	official	KGS
140	372515101235102	30S 37W 20CBC 02	3125	250.83	250.6	241.06	287824	4144124	official	DRW
141	372528101114301	30S 35W 19BCD 01	3004	207.51	206.93	204.26	305834	4144046	official	DRW
142	372539100142501	30S 27W 23ABB 01	2531	68.68	65.86	65.35	390023	4143038	official	KGS
143	372539100171401	30S 27W 20ABA 01	2564	87.71	86.94	80.58	385619	4143269	official	KGS
144	372549100485501	30S 32W 22BBB 01	2876	300.96	297.74	286.95	339405	4144036	official	KGS
145	372550101333801	30S 39W 23BBB 01	3179	160.65	159.95	160.92	273357	4145648	official	DRW
147	372556101454002	30S 41W 13CCC 02	3347	198.05	199.53	198.5	255660	4146209	official	DRW
148	372608101273901	30S 38W 15DBC 01	3144	222.81	220.25	212.1	282217	4145806	official	DRW
149	372616101213801	30S 37W 15CBB 01	3100	247.24	245.47		291222	4145802	prov.	DRW
150	372621098322701	30S 11W 17AAC 01	1825	50.03	50.01		540612	4143500	official	DRW
151	372622098213001	30S 10W 13AAC 01	1750	68.81	68.83		556774	4143618	official	DRW
152	372628100064701	30S 26W 13ABB 01	2575	68.72	69.4	70.22	401342	4144589	official	KGS
154	372638100241701	30S 28W 17ABB 01	2697	175.98	173.64	166.08	375606	4144812	official	KGS
155	372641098295101	30S 11W 11CCA 01	1810	37	37.28		544448	4144123	official	DRW
156	372642101013501	30S 34W 15BAA 01	2970	316.49	312.11		320734	4146065	prov.	KGS

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
157	372659097491801	30S 05W 12CCA 01	1484	18.99	20.03	22.27	604201	4144946	official	DRW
159	372734101390601	30S 40W 12BBB 01	3274	296.13	291.87	268.89	265480	4148970	official	DRW
160	372740100390101	30S 30W 06CCC 01	2824.6	237.69	234.79	226.58	353894	4147045	official	KGS
161	372746100103701	30S 26W 04CBB 01	2525	75.03	68.59	75.32	395685	4147144	official	KGS
162	372754101065801	30S 35W 02DBC 01	3020	337.88		310.86	313058	4148333	official	DRW
164	372803098262201	30S 10W 05BBD 01	1770	41	41.31	44.06	549279	4146777	official	DRW
165	372825101041201	30S 34W 05BBB 01	3006	332.48	329.6	323.01	316948	4149367	official	KGS
167	372826101125501	30S 36W 01BBB 01	2973	228.61	227.15	232.72	304043	4149619	official	DRW
168	372832101265901	29S 38W 35CCD 01	3124	205.49	202.88	200.66	283414	4150292	official	DRW
169	372833100543001	29S 33W 34DDD 01	2950	356.44	354.36	344.79	331265	4149077	official	KGS
170	372838098470601	29S 13W 31CAA 01	1893	28.2	28.19	29.99	519019	4147576	official	DRW
172	372841099401201	29S 22W 36ACA 01	2445	140.33	141.88	140.01	440782	4147938	official	KGS
173	372904101152101	29S 36W 33ADB 01	3011	253.98	255.43	245.44	300491	4150913	official	DRW
174	372906100072001	29S 26W 36BBB 01	2532	31.95	30.63	37.58	400692	4149467	official	KGS
175	372922100232701	29S 28W 28CDC 01	2688	152.47	152.24	143.7	376920	4149862	official	KGS
176	372942100192201	29S 27W 30BCC 01	2655	158.67	157.47	153.42	383120	4150600	official	KGS
177	372944100474902	29S 32W 26CBB 02	2895		295.36	287.6	341305	4151285	official	KGS
179	372948098322001	29S 11W 29AAD 01	1849	56.17	55.44	63.54	540784	4149915	official	DRW
180	372951101091001	29S 35W 28ACC 01	2975		288.79	277.66	309788	4152029	official	DRW
181	372952098542102	29S 15W 25AAB 02	1960		33.12	34.35	508325	4149977	official	DRW
182	372957100110901	29S 26W 29ABB 01	2558	104.79	102.94	104.99	394896	4151226	official	KGS
183	372957100291101	29S 29W 27BCB 01	2739	164.54	163.6	157.58	368477	4151152	official	KGS
184	372958100563301	29S 33W 28BCB 01	2963	345.48	346.08	334.75	328216	4151792	official	KGS
185	373000098394501	29S 12W 20CCD 01	1907	95.41	96.08	98.47	529922	4150248	official	DRW
186	373005099381801	29S 21W 20CAD 01	2445	137.67	136.3	139.02	443590	4150421	official	KGS
187	373008098264801	29S 10W 19DDB 01	1765	23.27	24.76	25.04	548636	4150605	official	DRW
188	373009101234301	29S 37W 29BBA 01	3094.5	294.82	292.09	290.89	288284	4153173	official	DRW
191	373018100521101	29S 32W 19CCC 01	2923.4	333.19	331.45	329.8	334699	4152255	official	KGS
193	373031101350901	29S 39W 21DBD 01	3183	229.43	225.37	215.19	271466	4154173	official	DRW
194	373038099230801	29S 19W 22BAA 01	2340	157.02	157.52	157.29	465994	4151527	official	DRW
195	373048101182401	29S 36W 19BCB 01	2995	222.24		223.96	296147	4154185	official	DRW
196	373054099441601	29S 22W 17DAD 01	2475	133.23	132.73	133.12	434716	4152133	official	KGS
197	373054100354401	29S 30W 22BBC 01	2816	232.95	229.9	218.39	358833	4152920	official	KGS
198	373104101060001	29S 35W 24BAA 01	3037	374.94		356.47	314525	4154234	official	DRW
199	373107098521801	29S 14W 17DBD 01	2012	97.08	96.95	98.42	511350	4152224	official	DRW
201	373124098594001	29S 15W 18ADA 01	2050	85.93	86.03	103.83	500361	4152777	official	DRW
202	373127099540701	29S 24W 13BCA 01	2530	118.42	118.09	117.73	420307	4153228	official	KGS
203	373131099283501	29S 20W 11CDD 01	2398	166.44	166.55	166.48	457951	4153362	official	DRW
204	373131099591001	29S 24W 18BAA 01	2610	162.98	162.38	162.59	412692	4153991	official	KGS
205	373202099071801	29S 17W 12DAA 01	2100	48.93	49.15	48.18	489145	4153988	official	DRW
207	373209100035801	29S 30W 08CCB 01	2825	211.24	210.4		355654	4155176	prov.	KGS
208	373213098311301	29S 11W 09ADD 01	1830	48.76	49.58	55.98	542357	4154345	official	DRW
209	373214101114301	29S 35W 07CBD 01	3036	254.54	253.02	250.86	306065	4156614	official	DRW
210	373218100432101	29S 31W 09CB 01	2871		260.22	252.3	347607	4155919	official	KGS
211	373220099200801	29S 18W 07BBD 01	2311	154.47	154.91	154.67	470387	4154591	official	DRW
212	373222100432601	29S 31W 9CBB 01	2867	261.58			347704	4155919	prov.	KGS
213	373223099472101	29S 23W 12BAC 01	2545	184.82	184.13	183.65	430271	4154834	official	KGS
214	373228100595702	29S 34W 11ADD 02	2960				323405	4156596	prov.	KGS
215	373231098480401	29S 14W 12ABB 01	1988	99.01	98.02	99.6	517523	4154836	official	DRW
216	373231100025401	29S 25W 10BBBC01	2617	165.56	163.6	170.39	407075	4155675	official	KGS
217	373233098411501	29S 13W 12ABB 01	1906		69.5	71.35	527225	4154923	official	DRW
220	373309099384901	29S 21W 05BBB 01	2418	103.4	102.93	99.46	443054	4156592	official	KGS
221	373310099015901	29S 16W 02ADB 01	2040	51.37	51.6	51.29	496907	4155966	official	DRW
222	373310100015601	29S 25W 03ADA 01	2630	181.78	179.65		408609	4156975	official	KGS
223	373315099105901	29S 17W 04ABC 01	2125	51.37	51.91	52.72	483779	4156203	official	DRW
224	373318099532701	29S 24W 01ABA 01	2560	150.63	150.06	149.86	421121	4157005	official	KGS
225	373324098332601	29S 11W 06AAA 01	1828	39.41	39.68	46.35	539111	4156535	official	DRW
226	373331098033301	28S 07W 35CCD 01	1585	18.86	20.15	20.99	583113	4157401	official	DRW
228	373334099243001	28S 19W 33CBD 01	2325	136.05	136.23	135.38	463943	4157031	official	DRW
229	373340100490201	29S 32W 04AAA 01	2914	300.69	296.41	286.7	339579	4158560	official	KGS
230	373340100522701	29S 33W 01AAB 01	2946	367.27	364.77		334349	4158663	official	KGS
231	373341099062501	28S 16W 31DCA 01	2110	70.55	71.07	71.1	490308	4156762	official	DRW
232	373352100411301	28S 31W 35CCB 01	2863	245.19	243.49	235.03	350907	4158584	official	KGS
233	373358099550801	28S 24W 35CAB 01	2528	110.31	112.23	112.09	418828	4157895	official	KGS
234	373404099445801	28S 22W 32BAB 01	2485	128.7	127.82	127.1	433518	4158302	official	KGS
235	373412101180101	28S 36W 31 BDD 01	3080				296848	4160393	prov.	KGS

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
236	373417098170201	28S 09W 34AAB 01	1690	40.2	40.79	43.46	563123	4158338	official	DRW
237	373417101290201	28S 38W 33BDB 01	3125	241.82	234.88	230.3	280715	4161009	official	KGS
238	373422098063301	28S 07W 29CDD 01	1601	24.21	25.2	26.44	578656	4158941	official	DRW
239	373422098200201	28S 09W 29CCC 01	1708	31.18	31.72	33.27	558674	4158476	official	DRW
240	373423101473701	28S 41W 34BDD 01	3371	317.93	317.15	337.38	253707	4161602	official	DRW
241	373426101055101	28S 35W 36ABC 01	3032	344.52	343.15	336	314646	4160414	official	KGS
242	373429099143301	28S 18W 25CAC 01	2220	110.95	111.59	115.58	478586	4158454	official	DRW
243	373432098423701	28S 13W 26DCB 01	1916	90.64	90.34	90.34	525586	4158544	official	DRW
244	373433101320202	28S 39W 36ABB 02	3145	232.18	233.84	233.61	276220	4161491	official	DRW
246	373442099324101	28S 20W 30ACA 01	2319	44.93	44.45	44.71	451924	4159311	official	DRW
247	373503098094301	28S 08W 26ABC 01	1652	67.29	63.26	59.79	574034	4160057	official	DRW
248	373510099335801	28S 21W 25ABB 01	2365	74.99	73.7	75.8	450016	4159837	official	KGS
249	373513099350001	28S 21W 23DBC 01	2370	80.96	79.95	81.4	448500	4160323	official	KGS
250	373514098560801	28S 15W 23CCD 01	2071	115.85	108.31	115.4	505550	4159824	official	DRW
251	373517099201701	28S 18W 19CCB 01	2268	92.6	92.69	91.76	470141	4160112	official	DRW
252	373528099553501	28S 24W 22CDA 01	2500	115.38	113.68	117.68	417496	4160690	official	KGS
253	373529098330001	28S 11W 20CAC 01	1840	65.97	66.37	70.67	539693	4160391	official	DRW
254	373556098382201	28S 12W 21BAD 01	1882	80.59	80.98	81.81	531828	4161200	official	DRW
255	373556100464201	28S 32W 24BCC 01	2910	239.75	239.57	238.07	342906	4162546	official	KGS
256	373558101563001	28S 42W 20BCC 01	3553	252.97	252.54	253.13	240331	4165338	official	DRW
257	373601098175901	28S 09W 21AAA 01	1666	26.64	27.06	28.86	561669	4161542	official	DRW
258	373601100061301	28S 25W 19BBB 01	2635	155.3	153.56	154.85	402383	4162450	official	KGS
259	373602098123001	28S 08W 21BBB 01	1562	1.63	1.95	2.13	569977	4161756	official	DRW
260	373602099470101	28S 23W 24ABB 01	2465	99.31	98.79	98.02	430835	4161595	official	KGS
261	373607100565301	28S 33W 20ACD 01	2976	382.68	380.55	375.98	327915	4162876	official	KGS
262	373607101121001	28S 36W 24AAD 01	3080	304.17	304.8		305842	4163703	prov.	KGS
263	373609098494301	28S 14W 14CCC 01	1984	79.3	78.78	79.18	515037	4161479	official	DRW
264	373612099093801	28S 17W 15DDB 01	2178	97.63	98.19	100.23	485703	4161663	official	DRW
265	373614100331601	28S 30W 24BAB 01	2804	188.36	189.01	182.55	362634	4162999	official	KGS
266	373624100503901	28S 32W 17CDD 01	2948	336.77	333.35	324.76	337290	4163492	official	KGS
268	373632100065401	28S 26W 13CAA 01	2635	150.4	148.86		401543	4163086	official	KGS
269	373632101004301	28S 34W 14CCC 01	3013	390.24	388.94	381.96	322285	4163939	official	KGS
270	373641098252501	28S 10W 16BCB 01	1756	48.65	48.93	51.11	550564	4162693	official	DRW
271	373644099354101	28S 21W 10DDD 01	2349	47.5	46.6	48.44	447530	4163233	official	KGS
272	373648099051601	28S 16W 17AAC 01	2165	118.53	119.18	120.59	491964	4162615	official	DRW
273	373651100294301	28S 29W 16ACC 01	2799	173.68	173.39	171.19	367864	4163747	official	KGS
274	373652099575901	28S 24W 08DCC 01	2578	149.1	148.39	160.25	414432	4163784	official	KGS
275	373658098452901	28S 13W 17AAA 01	1938	70.33	70.59	70.77	521311	4162957	official	DRW
276	373659099404301	28S 22W 12CAC 01	2405	65.97	65.97	65.72	440044	4163739	official	KGS
278	373702099525701	28S 23W 18BAB 01	2547	144.74	144.19	142.56	422108	4163520	official	KGS
279	373703101334001	28S 39W 14BBC 01	3158	171.51	169.64	163.35	273964	4166288	official	DRW
280	373709100374701	28S 30W 17BBA 01	2817	200.02	198.41	186.85	356208	4164704	official	KGS
281	373714100344601	28S 30W 10DDD 01	2814	192.65	191.03	186.06	360455	4164701	official	KGS
282	373716101380902	28S 40W 12DDD 02	3225.2	225.85	224.75	228.04	267372	4166886	official	DRW
283	373724099274801	28S 20W 12BBD 01	2288	60.36	60.04	59.59	459122	4164424	official	DRW
284	373728098281801	28S 11W 12ACC 01	1755	32.73	32.96	36.25	546532	4164062	official	DRW
285	373729099224501	28S 19W 10AAC 01	2270	100.92	100.65	99.73	466500	4164397	official	DRW
286	373732099013501	28S 16W 12BCA 01	2111	102.59	102.92	104.23	497409	4163998	official	DRW
287	373748101205501	28S 37W 10 ADB 01	3068	248.54			292687	4167186	prov.	KGS
288	373748101260301	28S 38W 12BCB 01	3087	213.32	210.7	210.6	285131	4167354	official	KGS
289	373756098422001	28S 13W 02DDC 01	1827	12.31	12.94	13.09	525976	4164804	official	DRW
290	373808101422201	28S 40W 04CCC 01	3289	248.04	239	250.2	261170	4168693	official	DRW
291	373808101464301	28S 41W 02CCC 01	3343	246.24	241.5	236.86	254826	4168943	official	DRW
292	373809099080001	28S 17W 01CAB 01	2135	61.49	61.89	64.6	488036	4165288	official	DRW
293	373819098154001	28S 09W 01BCC 01	1580	6.93	7.79	7.74	565064	4165815	official	DRW
294	373820099442701	28S 22W 05ADD 01	2370	20.67	19.77	20.66	434638	4165766	official	KGS
295	373825101565801	28S 42W 06DBB 01	3529			257.84	239641	4170094	official	DRW
296	373828101080401	28S 35W 03DBB 01	3079	314.09	312.28	302.86	311758	4167854	official	KGS
297	373831099473901	27S 23W 36CCC 01	2428	50.9	49.79	49.28	429767	4166746	official	KGS
298	373838100053901	28S 25W 06ABB 01	2643	158.54	157.58	165.17	403331	4167273	official	KGS
299	373841100115601	28S 26W 06ABB 01	2685	176.86	175.26	173.78	393689	4167430	official	KGS
300	373848100155901	28S 27W 03BBB 01	2755	198.69	197.22	194.55	388079	4167516	official	KGS
301	373851098592501	27S 15W 32CCA 01	2068	53.23	53.22	56.94	500583	4166419	official	DRW
303	373859098101701	27S 08W 35CBC 01	1610	20.48	21.17	21.88	573151	4167193	official	DRW
304	373900100354401	27S 30W 34CCC 01	2807	184.65	182.23	172.38	359089	4167931	official	KGS
305	373901101464301	27S 41W 35CCC 01	3340	189.88	189	192.79	254883	4170553	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
306	373905098332501	27S 11W 31DAA 01	1726	4.84	5.24	5.01	539042	4167072	official	DRW
307	373907098383801	27S 12W 33CBA 01	1777	3.24	4.01	3.72	531465	4167048	official	DRW
308	373910099313701	27S 20W 32ABD 01	2308	49.36	49.5	49.45	453480	4167745	official	DRW
309	373911098541401	27S 15W 36ADD 01	2050	75.84	76.31	81.46	508313	4167106	official	DRW
310	373917099140101	27S 18W 35AAC 01	2160	36.1	35.82	37.87	477706	4167652	official	DRW
311	373929100453601	27S 31W 31BCC 01	2895	234.88	234.89	234.4	344665	4169208	official	KGS
312	373938099043601	27S 16W 28CDD 01	2120	65.48	65.62	68.93	492996	4167855	official	DRW
313	373950099541801	27S 24W 26DAA 01	2512	98.89	98.13	97.94	419930	4169329	official	KGS
314	373951097521902	27S 05W 33ABB 02	1460	6.55	6.21	7.18	599635	4168502	official	DRW
315	374001099282201	27S 20W 26ABD 01	2274	46.69	46.79	46.66	458296	4169356	official	DRW
316	374001100254501	27S 28W 30CCA 01	2738	135.83	133.91		373993	4169704	official	KGS
317	374006101390601	27S 40W 25CBC 01	3228	208.6	194.83	199.23	266108	4172168	official	DRW
318	374011101020902	27S 34W 28DAA 02	3042	298.58	294.69	279.3	320512	4170960	official	KGS
319	374013101060801	27S 35W 25BDC 01	3046	281.59	277.58	261.8	314648	4171158	official	KGS
320	374014100284601	27S 29W 27CAA 01	2760	143.9	140.48	131.17	369184	4170182	official	KGS
321	374023098190401	27S 09W 29AAA 01	1700	24.12	24.28	25.32	559974	4169585	official	DRW
322	374035099500101	27S 23W 28AAA 01	2421	50.18	55.73		426496	4170042	prov.	KGS
323	374039101343701	27S 39W 27BBA 01	3175	236.13	227.93		272716	4172964	official	DRW
324	374040100004601	27S 25W 25BBB 01	2574	125.72	125.21	125.61	410697	4170358	official	KGS
325	374044100395001	27S 31W 24CDC 01	2816	191.57	187.86	177.42	353357	4171217	official	KGS
326	374045098211401	27S 10W 24DAD 01	1692		17.06		556789	4170184	official	DRW
327	374046100520101	27S 32W 19CCD 01	2906	259.19	253.04		335263	4171682	official	KGS
328	374046100582701	27S 33W 19CDC 01	3009	283.24	282.45	275.45	325931	4171815	official	KGS
329	374047101153401	27S 36W 21DCC 01	3132	317	313.81	305.2	300899	4172305	official	KGS
331	374050097491601	27S 05W 24CDC 01	1477	14.14	13.9	14.08	604123	4170375	official	DRW
332	374050099161301	27S 18W 22ADC 01	2175	27.76	27.71	28.32	476085	4170514	official	DRW
333	374052098513901	27S 14W 21CAB 01	1998	42.4	42.93	47.11	512271	4170246	official	DRW
334	374054099104501	27S 17W 21ADC 01	2140	35.47	35.46	38.81	484050	4170443	official	DRW
335	374055098034401	27S 07W 23BCC 01	1567	6.87	7.37	6.71	582725	4170912	official	DRW
337	374111099070401	27S 16W 19BBB 01	2112	32.14	32.2	36.03	489437	4170708	official	DRW
338	374117099193001	27S 18W 18DDC 01	2192	25.01	24.84	23.61	471258	4171327	official	DRW
339	374123098092701	27S 08W 14DDC 01	1610	0.42		1.37	574318	4171560	official	DRW
340	374123098253201	27S 10W 17DDD 01	1755	63.7	63.69	64.65	550350	4171337	official	DRW
341	374125100344101	27S 30W 23BBC 01	2773	157.46	152.38	138.7	360770	4172414	official	KGS
342	374126098411501	27S 13W 13DDC 01	1897	57.02	57.08	58.5	527729	4171300	official	DRW
343	374136101020902	27S 34W 16DDD 02	2995	244.92	240.39		320523	4173497	official	KGS
345	374139097591601	27S 06W 16CCB 01	1462	2.2	3.47	2.86	589107	4172032	official	DRW
346	374143098124601	27S 08W 17DAB 01	1665	36.93	37.34	38.41	569465	4172115	official	DRW
347	374146099571101	27S 24W 16BDB 01	2515	82.41	80.29	86.25	415807	4173045	official	KGS
348	374201099135401	27S 18W 13AAA 01	2152	26.67	26.46	28.84	479486	4172725	official	DRW
349	374203101095101	27S 35W 17ADD 01	3086	295.97	291.78	278.74	309265	4174611	official	KGS
350	374214099360301	27S 21W 10DBB 01	2291	5.99	5.84	5.55	446660	4173720	official	KGS
352	374217098474101	27S 14W 12DDD 01	1983	61.15	61.74	63.63	518137	4172954	official	DRW
354	374225097555101	27S 06W 12CCD 01	1488	7.96	8.99	8.56	594102	4173501	official	DRW
355	374230098285101	27S 11W 12CBC 01	1783	47.35	46.28	47.99	545705	4173334	official	DRW
356	374231100154201	27S 27W 10CDB 01	2712	165.29	164.1	158.45	388558	4174209	official	KGS
357	374238098343001	27S 12W 12DAA 01	1838			56.72	537466	4173511	official	DRW
358	374240101501901	27S 41W 07DCC 01	3369	203.33		202.3	249377	4177152	official	DRW
359	374245099563001	27S 24W 09AAD 01	2448	26.23	23.4	31.54	416894	4174772	official	KGS
360	374251100182601	27S 27W 07ADC 01	2686	123.3	121.38	115.02	384555	4174845	official	KGS
361	374255099033901	27S 16W 10BAC 01	2088	26.12	25.79	30.38	494466	4173877	official	DRW
362	374255101251501	27S 38W 12ADC 01	3076	212.52	210.41	207.15	286653	4176695	official	KGS
363	374258099555701	27S 24W 03CDD 01	2445	16.8	14.5	21.78	417533	4175114	official	KGS
364	374304100032201	27S 25W 09ACA 01	2546	75.33	74.33	76.24	406946	4174850	official	KGS
365	374309098232301	27S 10W 03DDD 01	1743	53.37	53.48	54.28	553514	4174585	official	DRW
366	374314098591801	27S 15W 05CDB 01	2070	26.53	25.24	32.44	500900	4174640	official	DRW
367	374317100375501	27S 30W 08BBB 01	2790	148.96	145.93	137.44	356009	4176025	official	KGS
368	374323098500101	27S 14W 03DAC 01	1995	43.09	43.57	47.96	514717	4174960	official	DRW
369	374332098040102	27S 07W 03ADC 02	1545	9	9.92		582259	4175723	official	DRW
370	374337099561401	27S 24W 03BBB 01	2455.2	28.93	29.95	33.05	417178	4176388	official	KGS
371	374337099572801	27S 24W 04BBC 01	2453	23.41	22.9	30.63	415384	4176380	official	KGS
372	374343100520801	27S 32W 06CBB 01	2905	218.19	211.65	192.4	335180	4177275	official	KGS
373	374347098554501	27S 15W 02ABC 01	2036	28.92	26.52	36.1	506196	4175689	official	DRW
374	374354099202001	26S 18W 31CCC 01	2215	52.45	52.04	51.73	470087	4176212	official	DRW
376	374356099584201	26S 24W 31DDA 01	2463.3	11.92	9.7	25.38	413607	4177044	official	KGS
377	374357099570301	26S 24W 33CDA 01	2466.4	37.92	35.61	44.14	416168	4176987	official	KGS

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency	
			ft	ft	ft	ft	m	m			
378	374357101121001	27S 36W 01ADB 01	3088	278.69	274.93		305874	4178212	official	KGS	
379	374358098203301	26S 09W 31DCC 01	1735	54.83	54.38	57.18	557703	4176230	official	DRW	
380	374403098372301	26S 12W 34CDC 01	1884	42.64	43.92	44.3	533366	4176121	official	DRW	
381	374403098372302	26S 12W 34CDC 02	1884	42.5	43.14	43.4	533366	4176121	official	DRW	
382	374403100110601	26S 26W 32DCC 01	2616	105.98	103.92	101.54	395348	4177109	official	KGS	
383	374403100132401	27S 27W 01BAA 01	2631			110.55	392175	4177115	official	KGS	
384	374404099104601	26S 17W 33DDB 01	2127	24.62	23.9	27.42	484034	4176356	official	DRW	
385	374404100064401	26S 26W 36DCC 01	2543	51.13	49.97	50.32	401789	4177063	official	KGS	
386	374406101221501	27S 37W 04ABB 01	3080			192.53	194.1	290918	4178970	official	KGS
387	374408099070401	26S 16W 31CCA 01	2110	31.4	31.66	34.01	489470	4176338	official	DRW	
388	374411100235101	27S 28W 05AAA 01	2707	129.86	124.17	115.93	376913	4177324	official	KGS	
389	374412098170901	26S 09W 34DBD 01	1685	25.21	25.49	27.3	562719	4176669	official	DRW	
390	374417097281301	26S 01W 31DCC 01	1360	33.14	32.38		634782	4177637	prov.	DRW	
391	374417100280401	26S 29W 35CCC 01	2742	149.67	145.3		370781	4177512	official	KGS	
392	374417100451901	26S 31W 31CDC 01	2841	184.28	178.55		345400	4177838	official	KGS	
394	374427099232901	26S 19W 34BBB 01	2232	43.86	43.98	44.65	465477	4177500	official	DRW	
395	374428099260501	26S 19W 31AAC 01	2250	41.4	40.75	42.1	461660	4177550	official	DRW	
396	374434099343001	26S 21W 25CCC 01	2270	8.18	7.16	7.66	449126	4177913	official	KGS	
397	374438098441601	26S 13W 34BCB 01	1950	48.1	49.02	52.13	523102	4177178	official	DRW	
398	374439098262101	26S 10W 32BBB 01	1760	26.84	28.36	28.15	549044	4177390	official	DRW	
399	374440099032401	26S 16W 34ABC 01	2079	19.8	19.2	23.1	494898	4177312	official	DRW	
400	374442099573601	26S 24W 29DDD 01	2575	148.32	142.68	152.54	415405	4178560	official	KGS	
401	374449097581101	26S 06W 34BBC 01	1545	17.13	17.01	18.15	590615	4177865	official	DRW	
402	374502100153401	26S 27W 27CDD 01	2612	79.31	76.68	71.78	388966	4179014	official	KGS	
404	374512098134301	26S 08W 30DAA 01	1679	45.66	45.13	46.3	567941	4178517	official	DRW	
405	374526098331501	26S 11W 29BCB 01	1830	15.69	15.49	15.65	539200	4178797	official	DRW	
407	374533098301301	26S 11W 27AAC 01	1808	24.85	23.57	25.23	543629	4178983	official	DRW	
408	374544101074601	26S 35W 27AAC 01	3020	235.12	227.86		312346	4181330	prov.	KGS	
409	374544101103701	26S 35W 29BBB 01	3045	234.53	227.19	212.02	308276	4181405	official	KGS	
410	374557100323401	26S 30W 24DDD 01	2754	135.99	131.43	115.8	364146	4180799	official	KGS	
411	374558099321601	26S 20W 20BBC 01	2251	10.71	8.7		452389	4180808	official	DRW	
412	374559101534602	26S 42W 22DCC 02	3413	215.2	205.8	196.62	244895	4183748	official	KGS	
413	374600097331401	26S 02W 29AAA 01	1384	22.29	21.75	24.78	627319	4180379	official	DRW	
414	374606101145401	26S 36W 22CCA 01	3090	219.27	215.85	205.85	301996	4182346	official	KGS	
415	374631098472501	26S 13W 19BBB 01	1953	21.28	21.9	27.14	518465	4180634	official	DRW	
416	374637098272501	26S 10W 18CDC 01	1797	26.03	25.06	24.81	547640	4181040	official	DRW	
417	374637099163101	26S 18W 15DCB 01	2174	36.88	36.57	37.08	475695	4181256	official	DRW	
418	374638101025601	26S 34W 21BBB 01	2955	192.06	187.8	170.3	319598	4182813	official	KGS	
419	374638101203801	26S 37W 23BBC 01	3110	202.64	200.84		293884	4183320	prov.	KGS	
420	374638101495001	26S 41W 20BCD 01	3317	50.26	49.15	47.74	250808	4184458	official	KGS	
421	374645100481901	26S 32W 22ABB 01	2899	170.51	168.57	163.4	340921	4182782	official	KGS	
422	374646098394401	26S 12W 17CCA 01	1906	33.88	33.75	34.84	529722	4181229	official	DRW	
423	374649100035201	26S 25W 16DCC 01	2619	142.47	141.7	147.85	406822	4181758	official	KGS	
424	374653098523101	26S 14W 17DBC 01	2010	23.67	23.16	31.63	510990	4181374	official	DRW	
425	374653099070201	26S 16W 18CAC 01	2092	15.07	14.64	16.95	489683	4181377	official	DRW	
426	374657100124101	26S 26W 18CCB 01	2558	16.42	13.04	15.14	393051	4182159	official	KGS	
427	374658099244301	26S 19W 16BCB 01	2231	39.83		42.13	463670	4182170	official	DRW	
428	374659097280201	26S 01W 19ABA 01	1351.7	7.51	4.55	7.15	634864	4182285	official	DRW	
429	374701100565001	26S 33W 17DBD 01	2900	167.74	162.54		328441	4183449	official	KGS	
430	374703098442401	26S 13W 16DAA 01	1929	19.94	21.7	26.84	522870	4181625	official	DRW	
432	374717098593501	26S 15W 17BBC 01	2050	18.16	17.65	21.69	500532	4182135	official	DRW	
433	374720099090001	26S 17W 14BAA 01	2109	23.7	22.47	25.5	486690	4182413	official	DRW	
434	374721098200701	26S 09W 18AAA 01	1668	7.61	8.98	9.28	558266	4182501	official	DRW	
436	374728098020801	26S 07W 12DCC 01	1582	32.99	32.15	32.38	584948	4183055	official	DRW	
437	374731099035701	26S 16W 10CCC 01	2065	8.29	8.3	9.76	494099	4182572	official	DRW	
438	374732097554401	26S 06W 13BAB 01	1475	7.38	9.64	9.05	594187	4182969	official	DRW	
439	374735098170001	26S 09W 10DDB 01	1686	24.09	22.67	20.95	562908	4182942	official	DRW	
440	374746100132901	26S 27W 12CDD 01	2592	40.8	38.29	40.88	392108	4183447	official	KGS	
441	374747100552101	26S 33W 10CCD 01	2890	163.64	158.37	142.37	330764	4184594	official	KGS	
442	374803099205402	26S 19W 12ABB 02	2210	53.38		54.51	469342	4184119	official	DRW	
443	374820100220502	26S 28W 10ACB 02	2632	32.14	28.35		379819	4185024	official	KGS	
444	374823098140501	26S 08W 06DCC 01	1670	7.89	8.09	8.43	567269	4184425	official	DRW	
445	374826101541402	26S 42W 10BB 02	3405	144.15	139.61	137.69	244166	4188364	official	KGS	
446	374833098280001	26S 11W 01DDB 01	1801	25.78	25.09	24.3	546824	4184542	official	DRW	
447	374837097225301	26S 01W 12BAD 01	1341	15.88		14.5	642443	4185522	official	DRW	
448	374837097332301	26S 02W 08AAB 01	1397	29.05	27.6	30.5	626970	4185249	official	DRW	

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
449	374840100391301	26S 31W 01DDA 01	2811	137.25	135.29	126.49	354564	4186106	official	KGS
450	374848100250301	26S 28W 06DDB 01	2647	13.86	11.89	14.14	375122	4185919	official	KGS
451	374905101032801	26S 34W 05ADC 01	2960	182.8	175.85		318053	4188260	official	KGS
452	374908098542801	26S 15W 01AAB 01	2020	18.89	18.66	24.04	508225	4186098	official	DRW
453	374917101242701	26S 37W 06ACB 01	3092	27.53	27.02	28.74	288239	4188266	official	KGS
454	374918098355201	26S 12W 02ABA 01	1880	33.87	33.17	34.14	535335	4186059	official	DRW
455	374923098420201	25S 13W 36DCC 01	1902	12.78	13.41	15.19	526397	4186300	official	DRW
456	374924100325901	26S 30W 01ABC 01	2740	81.8	79.89	79.59	363902	4187423	official	KGS
457	374926099071601	25S 16W 31DCC 01	2089		19.91	16.98	489252	4186331	official	DRW
458	374927097362801	26S 03W 02AAC 01	1409	18.58	17.44	21.22	622223	4186768	official	DRW
460	374930098470601	25S 13W 31DDA 01	1973	20.4	20.29	25	518946	4186550	official	DRW
461	374931099182901	25S 18W 33CDC 01	2182	38.08	37.84	37.72	472858	4186382	official	DRW
462	374931100453501	26S 31W 06BBB01	2832	122.88	120.52	111.37	345087	4187878	official	KGS
463	374933098025301	25S 07W 36CCC 01	1570	27.49	27.86	27.7	583723	4186684	official	DRW
464	374935099304801	25S 20W 34CCC 01	2219	7.86	7.81	8.1	454774	4186482	official	DRW
466	374948100045601	25S 25W 32DAD 01	2593	74.71	73.71	74.57	404772	4187303	official	KGS
467	374948100515802	25S 32W 31DDC 01	2871	151.63	147.43		335578	4188356	official	KGS
468	374951101144601	25S 36W 35CCA 01	3025	138.44	133.95	125.43	302464	4189330	official	KGS
469	374954099270701	25S 19W 31CAB 01	2220	18.4	16.54	19.18	459950	4187083	official	DRW
470	375002101020401	25S 34W 34DBD 01	2945	180.12	173.75	153.96	320967	4189048	official	KGS
471	375008099141501	25S 17W 31BBD 01	2148	29.9	29.03	29.06	479081	4187572	official	DRW
472	375018100171901	25S 27W 33ABB 01	2728	144.69	144.03	143.17	386393	4188565	official	KGS
473	375020100474201	25S 32W 35ADB 01	2857	133.71	131.08	123.25	342016	4189346	official	KGS
474	375025098542401	25S 14W 30CDB 01	2004	13.55	13.87	16.65	508239	4188146	official	DRW
475	375026100074001	25S 26W 25CDD 01	2623	79.69	78.98	78.64	400810	4188678	official	KGS
477	375030098203901	25S 09W 30DDA 01	1693	18.21	18.57	17.65	557701	4188261	official	DRW
478	375031101594501	25S 43W 25CCD 01	3490	173.85	167.97	160.26	236404	4192320	official	KGS
479	375032099222001	25S 19W 26DDB 01	2206	39.06	39.44	41.38	467237	4188253	official	DRW
480	375045097255201	25S 01W 28DBA 01	1364	13.57	11.48	14.91	637925	4189660	official	DRW
481	375049101165801	25S 36W 28CBD 01	3050		112.47	118.82	299300	4191045	official	KGS
482	375059098595801	25S 15W 29BBD 01	2034	8.86	9.38	10.45	499937	4189147	official	DRW
483	375059099034201	25S 16W 27AAC 01	2063	12.2	14.7	15.9	494502	4189145	official	DRW
484	375112098293101	25S 11W 23DDD 01	1796	19.04	17.89	15.85	544750	4189572	official	DRW
486	375117098350901	25S 12W 24DDB 01	1840	13.64	13.7	13.92	536491	4189703	official	DRW
487	375118098513901	25S 14W 21DDB 01	1980	12.4	13.03	14.6	512274	4189766	official	DRW
488	375124101080201	25S 35W 26BAB 01	3005	198.45	190.54	175.84	312264	4191977	official	KGS
489	375131097301402	25S 02W 23DBD 02	1380	12.6	11.52	16.03	631423	4191016	official	DRW
490	375145100485701	25S 32W 22DBC 01	2865	129.05	126.71	119.6	340120	4191863	official	KGS
491	375149101341601	25S 39W 23BDD 01	3286	87.08	87.61	88.79	273940	4193718	official	KGS
493	375153098274401	25S 10W 19ABD 01	1790	31.46	30.48	29.2	547561	4190804	official	DRW
494	375159100384101	25S 30W 20BCB 01	2734	10.61	9.2	12.8	355208	4192671	official	KGS
495	375201099190201	25S 18W 20AAB 01	2185	42.14	41.7	42.23	472128	4191016	official	DRW
496	375204097320001	25S 02W 22BBB 01	1388.44	7.29	5.6	9.32	628782	4191974	official	DRW
497	375206099451001	25S 22W 20AAA 01	2437.9	55.47	55.7	57.85	433740	4191334	official	KGS
498	375210097232601	25S 01W 14DDD 01	1360	14.79	11.68	14.11	641505	4192352	official	DRW
499	375210098383501	25S 12W 16DCA 01	1868	13.8	13.55	14.7	531459	4191310	official	DRW
500	375211097383301	25S 03W 15CCC 01	1428	20.23	19.38	21.34	619131	4192004	official	DRW
501	375226100564601	25S 33W 16DCC 01	2920	92.78	91.21	91.38	328779	4193338	official	KGS
502	375228098451901	25S 13W 16AAC 01	1940	27.69	27.8	29.7	521965	4192385	official	DRW
503	375239100552401	25S 33W 15DAC 01	2915	171.03	165.02		330757	4193695	official	KGS
504	375245099123501	25S 17W 17AAC 01	2129	33.74	33.14	34.36	481645	4192403	official	DRW
505	375247098202401	25S 09W 17BBD 01	1705		19.42		558046	4192484	prov.	DRW
506	375252098235701	25S 10W 14BBB 01	1748	27.12	26.83	25.92	552982	4192669	official	DRW
507	375257101144301	25S 36W 14B 01	3050	98.29	94.08	92.9	302617	4194964	official	KGS
508	375258100281701	25S 29W 14ABB 01	2776.3	151.63	149.23	143.19	370432	4193912	official	KGS
509	375305101215502	25S 37W 15ABA 02	3050	8.31	7.74	8.03	291895	4195607	official	KGS
511	375307101103901	25S 35W 17AAA 01	2995	139.34	133.35	119.8	308581	4195242	official	KGS
513	375329099260101	25S 19W 08BDD 01	2185	5.42	4.59	6.06	461891	4193763	official	DRW
514	375330098565101	25S 15W 11BCB 01	2020	13.58	13.3	12.29	504594	4193796	official	DRW
515	375339100331401	25S 29W 07BCB 01	2830	165.05	163.64	156.88	363301	4195216	official	KGS
516	375341098081801	25S 07W 07BBD 01	1602	22.01	22.18	21.8	575776	4194302	official	DRW
517	375342097280201	25S 01W 07ABD 01	1377	22.21	20.94	30.96	634597	4195068	official	DRW
518	375342098360701	25S 12W 11AAA 01	1846	13.69	14.13	16.65	535092	4194125	official	DRW
519	375346099174801	25S 18W 09AAA 01	2161	34.9	34.14	33.93	473914	4194261	official	DRW
520	375353098153101	25S 09W 01DCD 01	1658	13.58	13.03	13.3	565277	4194602	official	DRW
522	375356097373601	25S 03W 03DDD 01	1423.39	11.09	10.27	11.25	620496	4195267	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
523	375357100563701	25S 33W 09ABD 01	2909	149.62	142.57	136.91	329207	4196138	official	KGS
524	375404101021201	25S 34W 10ABB 01	2962	115.1	113.18	111.4	320825	4196652	official	KGS
525	375406099303401	25S 20W 03BCD 01	2237	26.45	26.69	29.73	455096	4195382	official	DRW
526	375411099080701	25S 17W 01DAB 01	2102	26.79	25.93	30.44	488079	4195001	official	DRW
527	375413101341701	25S 39W 02CAD 01	3156	29.45	31.47	32.01	274079	4198125	official	KGS
528	375416101394401	25S 40W 01CA 01	3218	48.6	48.78		266902	4198880	official	KGS
529	375428098513101	25S 14W 04AAD 01	1969	13.01	13.33	13.5	512460	4195627	official	DRW
530	375433101100601	25S 35W 04BDD 01	2990	93.85	86.3	80.8	309378	4197700	official	KGS
531	375436099032701	25S 16W 02BBB 01	2069	17.1	17.86	23.45	494947	4195824	official	DRW
532	375436100561301	25S 33W 03BCC 01	2902		52	55.38	329584	4197365	official	KGS
533	375439098413701	24S 13W 36DDD 01	1907	20.98	20.2	21.22	527051	4195972	official	DRW
534	375441097433301	25S 04W 02ABB 01	1449	8.13	7.66	9.4	611827	4196550	official	DRW
536	375449100574301	25S 33W 05ABD 01	2920	144.52	144.1	141.6	327641	4197805	official	KGS
537	375451100254401	24S 28W 31DD 01	2754	151.14	137.56	131.93	374385	4197060	official	KGS
538	375454101075401	25S 35W 02BAA 01	2990	129.2	123.72	118.11	312745	4198396	official	KGS
539	375456098593401	24S 15W 32DBC 01	2044	20.4	20.99	24.3	500581	4196425	official	DRW
540	375456101050301	25S 34W 06AAA 01	2972	153.54	146.36	135.26	316780	4198301	official	KGS
541	375457098281801	24S 10W 31CBC 01	1750	10.12	9.77	10.28	546547	4196432	official	DRW
542	375459098105401	24S 08W 34DAC 01	1590	5.09	5.03	4.8	571906	4196675	official	DRW
543	375459100195001	24S 27W 31CDD 01	2709	99.93	97.99	95.34	383264	4196955	official	KGS
544	375507097474502	24S 04W 31DAB 02	1487	24.96	24.42	25.65	605763	4197255	official	DRW
545	375512101343401	24S 39W 35CBA 01	3146	14.66	14.35	15.25	273663	4199914	official	KGS
546	375513099231701	24S 19W 34ADD 01	2160	9.22	8.53	8.03	465942	4196979	official	DRW
547	375516100555601	24S 33W 34CAC 01	2910	145.94	139.86	136.8	330066	4198540	official	KGS
548	375520098373701	24S 12W 34ABC 01	1880	18.95	18.79	20.94	532868	4197145	official	DRW
549	375521098543201	24S 14W 31BBD 01	1998	18.79	18.92	19.5	508010	4197238	official	DRW
550	375521100363801	24S 30W 33ADD 01	2857	180.22	171.24	166.24	358499	4198253	official	KGS
551	375531101342601	24S 39W 35BAC 01	3143	8	7.56	8.24	273838	4200539	official	KGS
552	375536100465501	24S 32W 36ACB 01	2795	8.16	7.58		343434	4199090	prov.	KGS
553	375538101453401	24S 40W 31BBB 01	3287	61.27	61.98	62.1	257403	4201167	official	KGS
554	375540097320901	24S 02W 28DDD 01	1403	26.69	23.57	33.66	628501	4198595	official	DRW
556	375550099175601	24S 18W 28DAC 01	2158	36.9	36.25	37.73	473735	4198115	official	DRW
557	375558100430401	24S 31W 27CCB 01	2883	141.64	139.75	141.45	349010	4199607	official	KGS
558	375607100185701	24S 27W 29BCC 01	2702.7	99.19	96.21	91.23	384214	4199441	official	KGS
559	375613100472702	24S 32W 25CBB 02	2800	12.22	11.03		342533	4200214	official	KGS
560	375614100562101	24S 33W 28DAA 01	2886	111.66	106.27	105.05	329578	4200468	official	KGS
561	375619097425301	24S 04W 25BBD 01	1448	5.73	4.68	5.3	612782	4199601	official	DRW
562	375625098051701	24S 07W 28AAA 01	1588	10.22	10.49	10.05	580148	4199380	official	DRW
563	375625098463401	24S 13W 20CDD 01	1932	21.92	21.78	22.14	519704	4199243	official	DRW
564	375626100241701	24S 28W 28BBA 01	2750	119.98	118.6	114.25	376447	4200221	official	KGS
565	375629099075901	24S 17W 24DDD 01	2100	31.26	30.19	34.53	488298	4199247	official	DRW
566	375636099592101	24S 24W 20CCC 01	2511	62.99	62.8	63.99	412933	4199795	official	KGS
567	375637098205201	24S 09W 19DDB 01	1704	23.2	22.79	23.2	557395	4199537	official	DRW
568	375643101355001	24S 39W 22CCB 01	3152	11.62	11.08	11.55	271887	4202822	official	KGS
569	375650101390001	24S 39W 19CBC 01	3175	8.76	8.92	8.95	267250	4203070	official	KGS
570	375652097571701	24S 06W 23CBA 01	1555	11.71	11.04	10.45	591812	4200236	official	DRW
572	375654100553201	24S 33W 22DCA 01	2905	116.25	112.11	113.5	330943	4201821	official	KGS
573	375655099123501	24S 17W 20ADC 01	2126	36.76	36.72	35.3	481683	4200048	official	DRW
574	375658097252701	24S 01W 22BCC 01	1390	27.89	24.17	26.62	638332	4201180	official	DRW
575	375658097284601	24S 01W 19BCC 01	1383	18.85	17.96	23.26	633488	4201086	official	DRW
576	375702101145602	24S 36W 23CBB 02	3014	30.7	30.08	30.34	302463	4202463	official	KGS
579	375718101071301	24S 35W 24BCB 01	2941.4	31.19	28.35	28.83	313681	4202814	official	KGS
580	375719100033001	24S 25W 22BAB 01	2545	84.32	82.41	85.64	407105	4201331	official	KGS
581	375721098263301	24S 10W 17DDC 01	1755	15.85	15.24	16.46	549299	4200897	official	DRW
582	375722101402101	24S 40W 23AAB 01	3204	25.31	24.59	26.29	265208	4204264	official	KGS
583	375727098325701	24S 11W 17DDB 01	1833	21.3		21.9	539658	4201003	official	DRW
584	375732099144301	24S 18W 13DAC 01	2130	36.32	35.28	34.44	478569	4201294	official	DRW
585	375732100363002	24S 30W 15CCA 02	2846	157.77	156.36	149.91	358632	4202387	official	KGS
586	375735100302001	24S 29W 16DCA 01	2787	122.71	121.94	119.2	367718	4202330	official	KGS
587	375736100331301	24S 29W 18CCB 01	2814	144.44	142.5	136.98	363597	4202384	official	KGS
588	375738098400601	24S 12W 17CAB 01	1893	25.38	24.8	25.2	529233	4201415	official	DRW
590	375750098451101	24S 13W 16ACA 01	1915		19.5	20.37	521746	4201843	official	DRW
591	375759098524501	24S 14W 17AAC 01	1982	32.51	33.03	34.18	510588	4202085	official	DRW
592	375801099191001	24S 18W 17ABD 01	2147	31.48	30.29	31.49	471945	4202185	official	DRW
593	375802098144501	24S 08W 18BAC 01	1649	5.39	5.75	6.1	566233	4202259	official	DRW
594	375811100145901	24S 27W 14ABB 01	2654	64.5	64.03	64.62	389899	4203214	official	KGS

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
597	375815101442401	24S 40W 17BBB 01	3221	14.17	12.82	15.78	259102	4205971	official	KGS
598	375819100185601	24S 27W 08CCC 01	2697	84.02	82.34		384251	4203347	official	KGS
599	375823097514501	24S 05W 10CCA 01	1509	20.36	20.18	21.05	599859	4203200	official	DRW
600	375826099022201	24S 16W 12CBD 01	2055	22	21.92	26.08	496571	4202897	official	DRW
601	375828101103101	24S 35W 09CCC 01	2998	38.4	38.89	36.79	308897	4205000	official	KGS
602	375832100571001	24S 33W 09CCD 01	2865	47.06	43.8	48.14	328390	4204586	official	KGS
603	375832100571002	24S 33W 09CCD 02	2865	12.05	10.95	12.47	328390	4204586	official	KGS
605	375841101453401	24S 40W 07CBB 01	3233	13.84	13.71	14.9	257569	4206749	official	KGS
606	375849098062502	24S 07W 08ADA 02	1633	41.3	41.5	41.35	578493	4203819	official	DRW
607	375859098574001	24S 15W 10BAB 01	2024	29.33	29.75	30.69	503355	4203927	official	DRW
608	375905100484901	24S 32W 10ACA 01	2860	81.6	80.12	82.5	340676	4205529	official	KGS
609	375910098385901	24S 12W 04CDB 01	1875	19.99	18.75	18.9	530808	4204227	official	DRW
610	375911099560301	24S 24W 02CCC 01	2478	69.35	67.19	71.69	418205	4204485	official	KGS
611	375912099503201	24S 23W 03CCC 01	2422	63.16	60.93	61.85	425861	4204464	official	KGS
612	375915097471301	24S 04W 05CDB 01	1480	9.25	8.02	9.14	606457	4204954	official	DRW
613	375926098275201	24S 10W 06DBB 01	1797	20.76	19.21	20.48	547266	4204691	official	DRW
614	375927101454301	24S 41W 01DAD 01	3254	22.74	20.44	22.55	257481	4208227	official	KGS
615	375955097264801	24S 01W 05AAB 01	1394	23.27	21.45	24.07	636225	4206568	official	DRW
616	375955097574301	24S 06W 03AAB 01	1554	28.24	28.14	28.05	591163	4205927	official	DRW
617	375957101003501	24S 34W 01BCBB01	2894	43.68	41.76	49.28	323417	4207507	official	KGS
618	375958099032002	23S 16W 35CCD 02	2060	28.05	27.51	31.84	495109	4205589	official	DRW
620	380000098171701	23S 09W 35CCC 01	1718	19.85	16.73	19.98	562577	4205861	official	DRW
621	380001097313001	23S 02W 34DCC 01	1398.5	33.34	32.84	16.22	629383	4206673	official	DRW
622	380002097401703	23S 03W 32DCC 03	1444	8.2	8.39	8.32	616499	4206500	official	DRW
623	380002098433201	23S 13W 35CCA 01	1897	18.14	17.29	17.75	524136	4205867	official	DRW
624	380003100223001	23S 28W 34DDC 01	2738	95.78	95.44	94.92	379204	4206621	official	KGS
625	380004098291501	23S 11W 36CCA 01	1803	17.2	14.83	16.33	545053	4205871	official	DRW
626	380005099121102	23S 17W 33CCA 02	2109	33.93	33.68	33.17	482408	4205995	official	DRW
627	380005100130401	23S 26W 31CDD 01	2621	67.92	67.53	68.63	393068	4206417	official	KGS
628	380006100293001	23S 29W 34CDD 01	2772	91.78	91.2	89.4	369118	4206939	official	KGS
629	380008098011901	23S 06W 31DCB 01	1577	30.22	30.32	30.1	585924	4206261	official	DRW
630	380013099143901	23S 18W 36DAC 01	2116	28.98	28.29	28.68	478503	4206034	official	DRW
631	380025101553001	23S 42W 34CBB 01	3307	9.98	9.68	10.86	243082	4210548	official	KGS
632	380033100523501	23S 32W 31CBD 01	2876	77.43	76.15	86.55	335019	4208224	official	KGS
633	380036098355801	23S 12W 36BBC 01	1849	13.95	13.2	13.84	535204	4206803	official	DRW
634	380056100554001	23S 33W 34ABC 01	2895	83.5	81.99		330661	4209013	prov.	KGS
635	380057098264301	23S 10W 29DCA 01	1783	16.34	14.62	14.32	549046	4207522	official	DRW
636	380057101181401	23S 36W 32BBB 01	3234	240.05	238.43	242.8	297787	4209978	official	KGS
637	380058101145601	23S 36W 35BBB 01	3193	211.43	211.26	212.15	302598	4209862	official	KGS
639	380104098223701	23S 10W 25CAC 01	1752	12.29	11.09	10.4	554857	4207777	official	DRW
640	380105099174801	23S 18W 28DAD 01	2102	9.55	8.35	7.74	474091	4207814	official	DRW
642	380105101534401	23S 42W 26DCA 01	3309	25.83	24.78	25.97	245761	4211616	official	KGS
643	380105101544101	23S 42W 27DDB 01	3311	21.73	21.57	22.27	244500	4211748	official	KGS
644	380106100434402	23S 31W 28CDD 02	2885	143.49	145.5		348166	4209096	prov.	KGS
645	380108098480501	23S 13W 30CBB 01	1906	11.92	13.3	13.55	517433	4207917	official	DRW
646	380108101234301	23S 37W 28CCB 01	3303	250.04	248.49	252.99	289771	4210502	official	KGS
647	380109100570201	23S 33W 28CDC 01	2904	80.64	81.67	99.6	328711	4209428	official	KGS
648	380111101594702	23S 43W 25CBD 02	3335	7.83	6.87	8.27	237050	4212131	official	KGS
649	380124102010201	23S 43W 26BCC 01	3343	7.92	6.97	7.85	235125	4212404	official	KGS
650	380131099080901	23S 17W 25AAC 01	2075	25.92	25.75	26.23	488012	4208402	official	DRW
651	380133097253501	23S 01W 28AAD 01	1403	19.47	17.52	18.87	637996	4209635	official	DRW
652	380135100081001	23S 26W 26AAD 01	2590	68.27	67.95	66.6	400390	4209167	official	KGS
653	380135100475901	23S 32W 26ACC 01	2915	167.58	166.18		342020	4210060	prov.	KGS
654	380136098544001	23S 14W 30BBB 01	1988	42.7	43.23	43.24	507757	4208772	official	DRW
655	380139097481201	23S 04W 30BAA 01	1491	8.28	7.12	8.35	605018	4209327	official	DRW
656	380146097315501	23S 02W 22CCD 01	1395	14.69	12.93	15.06	628747	4209898	official	DRW
657	380146100331301	23S 29W 30BBB 01	2794	79.47	78.94	78.17	363595	4210152	official	KGS
658	380149100122201	23S 26W 20CCC 01	2594	44.21	42.38	44.66	393998	4209674	official	KGS
659	380149100223801	23S 28W 22DCD 01	2729	73.4	73.68	74.9	379191	4209902	official	KGS
660	380151098184301	23S 09W 21DDB 01	1732	10.13	6.79	10.75	560503	4209265	official	DRW
661	380153101071303	23S 35W 25BBB 03	3000	78.95	82.25	103.33	313873	4211230	official	KGS
662	380155100543401	23S 33W 26ABB 01	2890	91.2	90.22	101.4	332334	4210901	official	KGS
663	380201101030101	23S 34W 21DDC 01	2961	100.24	100.24	117.37	319932	4211194	official	KGS
664	380202100394701	23S 30W 19CCB 01	2862	91.77	91.57	91.03	354000	4210699	official	KGS
665	380208098381001	23S 12W 22BCC 01	1853	12.2	10.89	11.95	531962	4209654	official	DRW
666	380208100155501	23S 27W 22DAB 01	2654	72.78	72.47	75.85	388801	4210304	official	KGS

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
667	380209098313501	23S 11W 22BCC 01	1802	20.54	19.65	20.15	541597	4209653	official	DRW
668	380210101584801	23S 42W 19CBB 01	3339	24.06	23.67	27.34	238487	4213640	official	KGS
669	380217098071401	23S 07W 20 BCA 01	1600				577184	4210184	prov.	DRW
670	380223102010301	23S 43W 23BCB 01	3356	20.25	19.63	22.07	235257	4214302	official	KGS
671	380236102023501	23S 43W 21ABA 01	3364	13.05	12.35	12.95	232981	4214850	official	KGS
672	380238098020201	23S 07W 13DDD 01	1604	52.24	52.24	52.63	584872	4210883	official	DRW
673	380245101071102	23S 35W 24BBB 02	3005	113.46	114.12		313901	4212811	prov.	KGS
674	380253101045501	23S 34W 17CCC 01	2974	110.93	110.66	130.3	317141	4212865	official	KGS
675	380301098502501	23S 14W 15ADD 01	1927	11.24	11.48	12.31	514010	4211358	official	DRW
676	380316098140901	23S 08W 18AAD 01	1675	10.55	11.54	11.8	567104	4211941	official	DRW
677	380318097364301	23S 03W 14AAC 01	1450	33.18	30.75	36.84	621640	4212625	official	DRW
678	380324097462401	23S 04W 16BBB 01	1570	20.16	18.44	20.55	607579	4212578	official	DRW
679	380328099031201	23S 16W 11CDC 01	2038	25.47	27.44	28.57	495298	4212046	official	DRW
680	380329098051701	23S 07W 09DDD 01	1590	7.18	7.6	7.34	579996	4212457	official	DRW
681	380329101103001	23S 35W 16BBC 01	3038	128.07	128.51	136.52	309132	4214293	official	KGS
682	380333098465901	23S 13W 08CCB 01	1895	11.72	11.59	13.3	519040	4212338	official	DRW
683	380333100442901	23S 31W 17ABA 01	2900	119.94	119.19	115.67	347209	4213801	official	KGS
685	380338098550101	23S 15W 12ddb 01	1974	31.42	30.48	30.05	507208	4212453	official	DRW
686	380340098404601	23S 12W 07DBD 01	1859	8.27	7.24	8.35	528117	4212515	official	DRW
687	380344101071302	23S 35W 12CCC 02	3010	127.05	126.75	145.98	313958	4214547	official	KGS
688	380348099135501	23S 17W 07DBB 01	2070	7.63	6.73	6.97	479633	4212872	official	DRW
692	380417101021301	23S 34W 10 ACB 01	2943	150.04			321257	4215561	prov.	KGS
693	380423097410101	23S 03W 06DDD 01	1495	69.2	64.99	72.37	615367	4214539	official	DRW
694	380423097531701	23S 05W 05DDC 01	1529	14.43	13.27	16.77	597479	4214305	official	DRW
696	380435098203301	23S 09W 05CBD 01	1740	17.29	16.28	16	557844	4214266	official	DRW
697	380435100422401	23S 31W 03DCD 01	2877	115.76	114.51	112.6	350451	4215444	official	KGS
698	380446100371901	23S 30W 04ACC 01	2846	72.04	71.56	70.25	358173	4215948	official	KGS
699	380452101170901	23S 36W 04CBB 01	3183	143.61	144.63	144.74	299701	4217098	official	KGS
700	380500101110501	23S 35W 05ACC 01	3096	152.18	151.92	151.93	308398	4217072	official	KGS
702	380506098302901	23S 11W 02BBB 01	1789	1.93	1.98	1.89	543166	4215096	official	DRW
703	380507098214903	23S 10W 01AAA 03	1740	11.79	11.29	10.58	555817	4215253	official	DRW
704	380509097450202	23S 04W 03BAB 02	1470	4.93	2	5.9	609575	4215870	official	DRW
705	380510101231101	23S 37W 04ABC 01	3281	191.06	190.69	190.88	290757	4217814	official	KGS
706	380513098580601	22S 15W 33DDD 01	2003	39.14	38.74	39.56	502580	4215298	official	DRW
707	380513099062201	22S 16W 32CDD 01	2047	36.69	35.96	37.86	490668	4215581	official	DRW
708	380514098124902	22S 08W 33CCD 02	1660	7.92	7.95	8.25	569103	4215578	official	DRW
709	380519098492701	22S 14W 35ddb 01	1930	27.4	24.2	29.45	515430	4215575	official	DRW
711	380555097473101	22S 04W 32BBC 01	1510	14.76	11.35	14.85	605892	4217209	official	DRW
712	380558098355802	22S 12W 36BBB 02	1827	4.38	3.8	4.05	535119	4216714	official	DRW
713	380600100535701	22S 33W 36BCCC 01	2869	133.6	132.31	132.7	333284	4218304	official	KGS
714	380601097363601	22S 03W 35AAA 01	1420	10.76	7.68	11.43	621753	4217659	official	DRW
715	380606101223501	22S 37W 34BBC 01	3230	135.76	137.16	136.42	291610	4219559	official	KGS
717	380614097594201	22S 06W 28CCB 01	1555	9.28	9.13	8.99	588118	4217515	official	DRW
719	380617098460101	22S 13W 29DAD 01	1902	15.61	14.62	17.43	520441	4217366	official	DRW
720	380622101014001	22S 34W 26CCC 01	2939	168.15	167.55	170.68	322092	4219248	official	KGS
721	380625098273401	22S 10W 30DAA 01	1775	10.08	8.36	8.1	547749	4217565	official	DRW
722	380644098411901	22S 12W 30BBD 01	1872	13.51	12.56	13.35	527278	4218163	official	DRW
723	380647097402901	22S 03W 29BAD 01	1430	9.89	5.09	13.52	616086	4218977	official	DRW
724	380652098160901	22S 09W 25BBA 01	1705	19.25	19.37	20.35	564270	4218570	official	DRW
725	380652099105701	22S 17W 27BAB 01	2037	7.37	6.53	7.92	484221	4218510	official	DRW
726	380653097340801	22S 02W 29BBA 01	1424	20.06	18.42	20.95	625334	4219337	official	DRW
727	380712098094801	22S 08W 23DAD 01	1651	26.46	24.38	28.05	573506	4219286	official	DRW
728	380712099090001	22S 17W 24CBC 01	2034	9.92	8.94	11.42	486929	4218921	official	DRW
729	380713101075501	22S 35W 23CDD 01	3025	131.95	133.32	136.95	313149	4221029	official	KGS
730	380715100503701	22S 32W 21CDC 01	2903	150.25	147.42	143.25	338688	4220531	official	KGS
731	380744099023201	22S 16W 23AAA 01	2011	39.9	39.8	39.94	496330	4220097	official	DRW
732	380752099414101	22S 22W 13CCC 01	2152	30.51	27.21	32.17	438959	4220431	official	KGS
733	380757098500901	22S 14W 14CCA 01	1930	21.6	20.05	22.85	514401	4220405	official	DRW
734	380758098065401	22S 07W 17DCB 01	1596	4.45	3.97	5.2	577688	4220732	official	DRW
735	380758098550501	22S 15W 13DCA 01	1976	42.66	41.67	42.18	507277	4220530	official	DRW
736	380801100554801	22S 33W 22BAA 01	2900	143.16	141.42		330849	4222281	official	KGS
737	380807101054001	22S 34W 18CDD 01	2984	141.82	140.67	151.3	316500	4222574	official	KGS
739	380825098015601	22S 06W 18BCB 01	1575	8.99	8.93	9.25	584948	4221577	official	DRW
741	380830099133401	22S 17W 18AAD 01	2047	35.3	32.59	36.18	480474	4221541	official	DRW
743	380851097424301	22S 04W 12CDA 01	1449	29.13	25.42	36.43	612865	4222756	official	DRW
744	380855098421601	22S 13W 12CAC 01	1885		14.89	16.45	525838	4222176	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
745	380903098122701	22S 08W 09DBB 01	1670	31.29	30.07	30.98	569648	4222635	official	DRW
746	380929098272701	22S 10W 08BBB 01	1764	13.11	11.92	13.2	547893	4223216	official	DRW
747	380929098345101	22S 11W 07BBB 01	1785	4.26	4.29	4.44	536658	4223182	official	DRW
750	380932100511801	22S 32W 08ACB 01	2884	110.97	108.99	105.38	337426	4224948	official	KGS
752	380935098233201	22S 10W 02DCC 01	1736	8.83	7.94	8.13	553569	4223508	official	DRW
753	380937097365501	22S 03W 02DCC 01	1450	35.29	33.48	37.46	621250	4224321	official	DRW
754	380945101014801	22S 34W 10AAA 01	2933	106.07	105.97	107.7	322145	4225650	official	KGS
755	380948098465901	22S 13W 05CBC 01	1905	15.6	14.5		518983	4223841	official	DRW
756	380949099043602	22S 16W 03CBC 02	1996	14.54	13.28	15.49	493386	4223753	official	DRW
757	380950097340901	22S 02W 05CBD 01	1468	47.36	47.56		625222	4224788	official	DRW
758	381015098182501	22S 09W 03BBD 01	1712	32.98	30.69	31.47	561003	4224785	official	DRW
759	381015098401201	22S 12W 05BBD 01	1870	14.15	12.74	15.02	528797	4224600	official	DRW
760	381015099132702	22S 17W 05BBC 02	2036	20.9	20.39	24.05	480487	4224750	official	DRW
761	381021099074601	22S 16W 06BBA 01	2010	17.97	17.25	17.47	488812	4224936	official	DRW
762	381022098570001	22S 15W 03AAA 01	1970	31.7	31.3	32.18	504474	4224935	official	DRW
763	381022098570002	22S 15W 03AAA 02	1970	33.23	32.59	33.99	504474	4224935	official	DRW
764	381048098133501	21S 08W 32DBB 01	1641	8.36	6.83	7.57	567988	4225844	official	DRW
765	381102097291201	21S 02W 36ACA 01	1475	11.52	8.15	9.74	632453	4227089	official	DRW
766	381108098531801	21S 14W 32BAC 01	1949	31.65	31.39	33	509750	4226274	official	DRW
767	381108099005301	21S 15W 31BAD 01	1972	17.75	16.83	19.54	498857	4226350	official	DRW
768	381109097395001	21S 03W 33BBC 01	1461	42.18	40.83	47.03	616969	4227044	official	DRW
769	381120098434802	21S 13W 27DDD 02	1877		5.55	7.27	523599	4226603	official	DRW
770	381120099241101	21S 19W 27CCC 01	2076.7	43.34	42.35	44.61	464520	4226801	official	DRW
771	381122097435901	21S 04W 26CDC 01	1445	29.47	27.76	35.1	610988	4227362	official	DRW
772	381134098040201	21S 07W 26CBD 01	1595	12.02	11.87	12.9	581851	4227412	official	DRW
773	381134100420001	21S 31W 26CCC 01	2900	74.9	75.5	75.26	351064	4228266	official	KGS
774	381147099272701	21S 19W 30BCC 01	2087	43.82	42.62	45.84	459725	4227663	official	DRW
775	381155100473701	21S 32W 26DAA 01	2946	112.27	112.29		343066	4229231	official	KGS
776	381203098090501	21S 08W 25ABB 01	1620	4.83	4.59	5.17	574430	4228370	official	DRW
777	381207099325201	21S 20W 29BBB 01	2104	41.2	39.76	43.47	451694	4228393	official	DRW
778	381215100582401	21S 33W 29BBC 01	2891	84.61	83.1	87.15	327080	4230178	official	KGS
779	381242100514201	21S 32W 20CBD 01	2898	121.97	120.48	115.14	337111	4230621	official	KGS
780	381253098503401	21S 14W 22AAC 01	1926	20.72	19.9	23.25	513775	4229487	official	DRW
781	381300097384401	21S 03W 22BBB 01	1450	30.04	29.44	33.15	618529	4230509	official	DRW
783	381316098595801	21S 15W 17CCC 01	1961	14.83	13.54	16.47	499659	4229816	official	DRW
784	381333099025001	21S 16W 14ADC 01	1970	14.15	13.22	16.05	496085	4230611	official	DRW
786	381344098174702	21S 09W 15AAC 02	1669	5.93	6.16		561831	4231132	official	DRW
787	381411098125601	21S 08W 09CBD 01	1647	11.03	10.53	10.8	568952	4232108	official	DRW
788	381419098565201	21S 15W 11CBB 01	1932	10.18	9.06	10.66	504478	4232204	official	DRW
789	381422101385501	21S 39W 07CBA 01	3497	185.67	180.9	190.86	268205	4235608	official	KGS
790	381444097295401	21S 02W 12BBB 01	1503			10.17	631359	4233933	official	DRW
791	381444098345101	21S 11W 07BBB 01	1808.4	15.95	13.79	14.62	536676	4232913	official	DRW
792	381453098163801	21S 09W 02DDA 01	1670	12.89	12.94	12.47	563748	4233469	official	DRW
793	381456098412802	21S 12W 06CCB 02	1860	14.12	12.28		526940	4233221	prov.	DRW
794	381504097415701	21S 03W 06CBD 01	1464	45.71	46.07	47.95	613880	4234245	official	DRW
795	381504098465101	21S 13W 05CBD 01	1893		30.08	26.55	519157	4233499	official	DRW
796	381530098053501	21S 07W 04AAC 01	1615	14.72	15.64	14.85	579541	4234615	official	DRW
797	381557101014701	20S 34W 36CCD 01	2962	71.62	69.8	74.49	322454	4236953	official	DRW
798	381609099434801	20S 22W 35BCC 01	2168	36.23	35.18	37.87	436061	4235789	official	KGS
799	381611100545501	20S 33W 36CAD 01	2925	111.73	111.9	113.72	332808	4237340	official	DRW
800	381614098583801	20S 15W 33ADD 01	1945	18.05	17.91	19.39	501861	4235567	official	DRW
801	381635101313701	20S 38W 33BBA 01	3424		136.12	137.76	278985	4239349	official	DRW
802	381643101254101	20S 37W 29DCC 01	3359		101.38	102.66	287635	4239355	official	DRW
803	381649097443601	20S 04W 27DAC 01	1467	44.8	43.82	45.4	609869	4237388	official	DRW
804	381701098190001	20S 09W 28ACD 01	1690	18.26	18.19	19.35	559660	4237272	official	DRW
805	381714098300701	20S 11W 26AAC 01	1752	9.85	8.85	9.13	543537	4237429	official	DRW
806	381716100540601	20S 32W 30BCD 01	2917	111.86	109.8	112.7	333712	4239147	official	DRW
808	381721097415901	20S 03W 30BBA 01	1476	57.45	57.62	57.13	613693	4238444	official	DRW
810	381734098372501	20S 12W 23CCA 01	1814	11.64	10.24	10.45	533040	4238234	official	DRW
811	381734098423001	20S 13W 24DCB 01	1850	16.2	15.9	17.64	525388	4238225	official	DRW
812	381734098511501	20S 14W 22DCB 01	1897	12.74	11.74	14.39	512515	4238019	official	DRW
813	381739098552101	20S 15W 24DBD 01	1915	12.48	11.63	13.57	506474	4238027	official	DRW
814	381747097375101	20S 03W 22DAA 01	1473	43.14	44.15	41.3	619706	4239349	official	DRW
815	381804101144001	20S 36W 24ACC 01	3200			100.17	303785	4241427	official	DRW
816	381813097253201	20S 01W 22BBB 01	1527	7.51	7.04	8.19	637687	4240428	official	DRW
817	381813098110101	20S 08W 22AAA 01	1644	14.5	13.91	14.45	571322	4239564	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
818	381821098463901	20S 13W 17DDC 01	1876	12.51	11.52	14.87	519376	4239388	official	DRW
819	381826100575701	20S 33W 21ABA 01	2955	134.27			328125	4241442	official	DRW
820	381840101324401	20S 38W 17CBD 01	3442	138.25	137.99	139.22	277523	4243144	official	DRW
821	381847097450101	20S 04W 15BDD 01	1474	55.6	55.83	56.46	609211	4241014	official	DRW
822	381847100510201	20S 32W 16DAD 01	2955	97.73		110.46	338272	4241829	official	DRW
823	381918098152601	20S 09W 12DDA 01	1664	10.82	10.75	11.39	564880	4241550	official	DRW
824	381920101034501	20S 34W 15BAA 01	3060	100.4		101.18	319578	4243419	official	DRW
826	382004098352101	20S 11W 06CCC 01	1788	9.63	8.86	9.95	535818	4242867	official	DRW
827	382013100583901	20S 33W 09BBB 01	2973	102.01	101.51	102.84	327078	4244827	official	DRW
828	382018098375001	20S 12W 03DAC 01	1799	6.54	5.83	7.07	532197	4243106	official	DRW
829	382044098410801	20S 12W 06AAC 01	1822	9.4	8.4	9.22	527414	4243793	official	DRW
830	382104098453301	19S 13W 33DDB 01	1847.5	9.74	9.19	10.34	520965	4244435	official	DRW
831	382110097265601	19S 01W 32DAC 01	1590	43.71	43.81	45.23	635573	4245862	official	DRW
832	382118101335801	19S 38W 31CBC 01	3463	142.66	142.06	141.26	275715	4248000	official	DRW
833	382137098493201	19S 14W 36BBC 01	1868	10.39	10.3	10.76	514920	4245380	official	DRW
834	382142097415902	19S 03W 31BBA 02	1494	85.97	85.86		613591	4246497	official	DRW
835	382144100523501	19S 32W 32ACB 01	2984	87.04	86.94	89.34	335938	4247480	official	DRW
836	382159098545001	19S 14W 30CDD 01	1905	34	32.82	34.47	507467	4245848	official	DRW
837	382202098391201	19S 12W 28DBC 01	1815	15.04	14.19	15.5	530219	4246244	official	DRW
838	382204101293301	19S 38W 26CCB 01	3408			99.54	282257	4249333	official	DRW
839	382223100594602	19S 33W 29CBB 02	2994	114.47	113.44	116.05	325485	4248811	official	DRW
840	382225098304401	19S 11W 26BDA 01	1772	12.86	12.48	12.02	542820	4247076	official	DRW
841	382255101070001	19S 34W 19DCCO1	3138	126.94	127.29	126.78	314979	4250009	official	DRW
842	382307098345601	19S 11W 19BDD 01	1791	19.3	18.99	19.35	536543	4248313	official	DRW
843	382337101231301	19S 37W 22AAB 01	3330	104.68	104.75	104.12	291394	4251995	official	DRW
844	382401100565301	19S 33W 15DBD 01	2964	109.91	106.41	110.44	329718	4251824	official	DRW
845	382406097395501	19S 03W 16BCB 01	1511	98.57	99.23	100.39	616545	4250955	official	DRW
846	382413097443601	19S 04W 15AAC 01	1494	89.17	88.12	88.82	609714	4251084	official	DRW
847	382431101170201	19S 36W 15BAA 01	3236	80.48	80.55	80.88	300616	4253458	official	DRW
849	382506098470501	19S 13W 08BAD 01	1855	16.45	15.36	15.99	518861	4251875	official	DRW
851	382526101130201	19S 35W 08BBB 01	3217	101.42	100.63	100.44	306331	4254936	official	DRW
852	382539100541601	19S 32W 06CCB 01	2937	76.99	74.31	78.45	333668	4254826	official	DRW
853	382552101002001	19S 33W 06DBB 01	3021	60.87	60.86	60.7	324824	4255380	official	DRW
854	382601098550102	19S 14W 06BBB 02	1895	12.68	11.56	12.34	507129	4253523	official	DRW
855	382618101080501	19S 35W 01ABB 01	3158	109.64	100.99	102.18	313852	4256401	official	DRW
856	382625101131101	18S 35W 31DDD 01	3210	100.78	100.47	99.44	306249	4256604	official	DRW
858	382633101332401	18S 38W 31DBC 01	3450	117.4	118.68	118.1	276894	4257702	official	DRW
861	382702097420701	18S 03W 30CCC 01	1515	112.64	112.96	113.55	613249	4256373	official	DRW
862	382704098512701	18S 14W 27CDD 01	1896	34.76	34.19	36.5	512444	4255443	official	DRW
863	382704098593803	18S 15W 28CCC 03	1912.5	9.42	9.34	10.83	500493	4255650	official	DRW
864	382704101041301	18S 34W 34BBC 01	3130	115.51	115.14	114.6	319209	4257738	official	DRW
866	382753101211901	18S 37W 25ABC 01	3302	124.98	127.49	123.7	294328	4259750	official	DRW
867	382755097463301	18S 04W 21CCC 01	1412	11.69	10.53	11.47	606829	4257891	official	DRW
868	382756101015201	18S 34W 25BBD 01	3092	113.29	113.4	114.24	322706	4259101	official	DRW
869	382801100433501	18S 31W 27ABA 01	2930	69.46	70.57	69.59	349088	4258848	official	DRW
870	382803100552301	18S 33W 25BBB 01	2972	120.04	119.68	118.45	332188	4259241	official	DRW
871	382810101400801	18S 39W 19CDA 01	3510	76.19	75.89	78.35	267081	4260970	official	DRW
872	382831101321702	18S 38W 20ACC 02	3440	135.37	134.88	135.41	278581	4261254	official	DRW
873	382841100420601	18S 31W 24BCB 01	2913	70.82	69.83	68.29	351336	4260101	official	DRW
874	382843101341301	18S 39W 24AAC 01	3467		138.1	142.97	275793	4261767	official	DRW
875	382851101291601	18S 38W 23BAB 01	3340	34.98	66.99	71.62	282963	4261831	official	DRW
876	382852101250901	18S 37W 21BBB 01	3360	157.8	157.68	160.12	288696	4261728	official	DRW
877	382853100354201	18S 30W 23AAA 01	2848	56.66	57.09	58.81	360971	4260188	official	DRW
878	382857100154501	18S 27W 13CCC 01	2674	84.8	84.86	85.2	389765	4259719	official	DRW
879	382902101090301	18S 35W 14DCD 01	3171	115.21	115.16	114.7	312318	4261407	official	DRW
880	382909101164601	18S 36W 15DBD 01	3241	98.73	98.31	104.98	301167	4261966	official	DRW
881	382925100271801	18S 28W 18ACC 01	2764	56.51	55.74	61.3	372835	4261105	official	DRW
882	382947100495001	18S 32W 14BBB 01	2980	119.8	119.25	116.98	340176	4262372	official	DRW
883	382947100522902	18S 32W 17ABA 02	2973	123.51	122.74	121.98	336416	4262409	official	DRW
884	383028101402701	18S 39W 07BBD 01	3564	114.67	115.39	127.73	266794	4265202	official	DRW
885	383033101130402	18S 35W 08BBB 02	3217	138.82	138.01	142.83	306549	4264335	official	DRW
886	383046100594901	18S 33W 05CCC 01	3041	105.18	104.39	103.56	325742	4264261	official	DRW
887	383053100573701	18S 33W 03CCB 01	3008	129.02	128.1	128.6	328957	4264489	official	DRW
888	383056100311801	18S 29W 04DDA 01	2801	68.57	67.74	70.4	367165	4263789	official	DRW
889	383106101062701	18S 34W 05CBB 01	3148	119.79	119.25	118.13	316113	4265163	official	DRW
890	383109101293201	18S 38W 02BCC 01	3414	159.33	157.75	156.87	282542	4265969	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
891	383129100142402	18S 26W 06BAB 02	2570	5.79	5.66	7.08	391789	4264206	official	KGS
892	383130100354301	18S 30W 02AAA 01	2849	86.23		86.33	361005	4265134	official	DRW
893	383130100383801	18S 30W 04BAB 01	2872	78.19	76.8	77.63	356655	4265228	official	DRW
894	383141101371201	17S 39W 34CCB 01	3505	99.37	99.8	98.8	271506	4267302	official	DRW
895	383144100431201	17S 31W 35CCB 01	2925	101.71	100.21	100.57	349828	4265754	official	DRW
896	383155100243401	17S 28W 34CBB 01	2747	93.54	93.22	96.24	376968	4265522	official	DRW
897	383202101215201	17S 37W 36BCC 01	3316	147.96	146.91	144.41	293809	4267390	official	DRW
898	383210101183401	17S 36W 33BCB 01	3286	161.86	159.04	154.05	298477	4267808	official	DRW
899	383220101470801	17S 40W 31BBA 01	3663	167.19	163.7	163.85	257130	4268920	official	DRW
900	383222100283401	17S 29W 36BAA 01	2784	88.4	88.37	90.35	371282	4266548	official	DRW
901	383227100165301	17S 27W 26CCC 01	2678	94.9	94.39	94.45	388198	4266210	official	DRW
902	383227101314401	17S 38W 28CCC 01	3446	148.97	148.02		279550	4268508	official	DRW
903	383231101105201	17S 35W 27CCC 01	3195	151.64	150.94	153.33	309792	4267916	official	DRW
904	383241101250901	17S 37W 28CBC 01	3359	153.58	148.32	143.43	288838	4268754	official	DRW
905	383247101573601	17S 42W 28DAB 01	3762	28.14	27.38	32.9	242056	4270188	official	DRW
906	383250101012901	17S 34W 25DBB 01	3092	141.82	144.56	143.29	323440	4268285	official	DRW
907	383251101141001	17S 35W 30CBB 01	3235		168.76	171.65	305056	4268593	official	DRW
908	383314100225601	17S 28W 26ABB 01	2735	102.25	101.28	103.72	379392	4267842	official	DRW
909	383316100505801	17S 32W 27BBB 01	2990	157.44			338751	4268741	official	DRW
910	383320100201101	17S 27W 20CCC 01	2717	98.88	98.88	102.47	383376	4267928	official	DRW
911	383328100471201	17S 31W 19CDA 01	2960	133.78	134.32		344171	4269052	official	DRW
912	383405101363901	17S 39W 22ABB 01	3527	140	138.28	137.49	272443	4271727	official	DRW
913	383406101314401	17S 38W 21BBB 01	3446	129.4	129.27	127.73	279460	4271593	official	DRW
914	383407100400201	17S 30W 20BBB 01	2889	110.97		116.94	354642	4270120	official	DRW
915	383414101212801	17S 37W 13CDD 01	3300	123.59	122.17	118.6	294515	4271431	official	DRW
916	383416101133801	17S 35W 18DCC 01	3227	161.84	159.92	159.52	305818	4271234	official	DRW
917	383418101435701	17S 40W 15CCB 01	3607	143.7	143.16	141.2	261954	4272393	official	DRW
918	383433100353601	17S 30W 13CBB 01	2846	91.5	93.8	94.69	361145	4270746	official	DRW
919	383448100555801	17S 33W 14ACB 01	3014	148.57	148.01	149.11	331568	4271655	official	DRW
920	383448101044801	17S 34W 16ACB 01	3134	140.59	140.52		318638	4271885	official	DRW
921	383452100243601	17S 28W 15BBC 01	2760	104.45	104.84		376990	4270935	official	DRW
922	383458101460201	17S 40W 17BBA 01	3663	189.7	188.25	195.27	258970	4273816	official	DRW
923	383501100520601	17S 32W 16BBB 01	2980	140.4	141.8	146.17	337102	4272103	official	DRW
924	383545100305601	17S 29W 10BAC 01	2807	112.39	111.9	113.36	367811	4272795	official	DRW
925	383551100275501	17S 28W 07BBB 01	2785	100.79	100.53	102.2	372212	4272890	official	DRW
926	383551101255001	17S 37W 08BAA 01	3374	145.69	144.08	141.39	288027	4274719	official	DRW
927	383553101004901	17S 33W 07BBA 01	3093	153.03	151.5		324607	4273787	official	DRW
928	383559100445101	17S 31W 04DCC 01	2932	129.79	128.95	128.43	347491	4273564	official	DRW
929	383633101073401	17S 34W 06BCB 01	3163			157.64	314845	4275211	official	DRW
930	383639101091301	17S 35W 02ABC 01	3185	160.43	162.27	158.88	312341	4275414	official	DRW
931	383643101354101	17S 39W 02BAA 01	3511	124.11	123	121.58	274001	4276529	official	DRW
932	383652101172902	16S 36W 34CCC 02	3275	148.4	147.8	145.42	300344	4276167	official	DRW
933	383724100474001	16S 31W 31BCB 01	2958	136.29	135.83	138.09	343652	4276371	official	DRW
934	383736100320301	16S 29W 33BAB 01	2812.7	110.21	109.26	110.67	366301	4276282	official	DRW
935	383738100582001	16S 33W 33BAA 01	3066	159.14	158.28	156.87	328362	4277015	official	DRW
936	383743100295901	16S 29W 26CCD 01	2803	108.04	107.47	108.98	369281	4276378	official	DRW
937	383743100393801	16S 30W 29CDD 01	2884	128.8	128.42	128.93	355397	4276675	official	DRW
938	383757101204701	16S 36W 30CBC 01	3319	162.97	160.66	157.97	295544	4278284	official	DRW
939	383804101062801	16S 34W 29CBB 01	3160	169.23	168.29	173.03	316376	4278098	official	DRW
940	383815101415101	16S 40W 26ADA 01	3602	123.13	122.46	122.33	265191	4279561	official	DRW
941	383829101270401	16S 37W 30BAB 01	3404	166.12	164.58	163.19	286475	4279597	official	DRW
942	383829101293201	16S 38W 26BBB 01	3424	150.61	149.78	147.64	282883	4279482	official	DRW
943	383829101540901	16S 42W 25AAA 01	3763	191.12	191.38	190.43	247383	4280518	official	DRW
944	383836100350501	16S 30W 24DCC 01	2840	123.58	122.29	125.25	362075	4278150	official	DRW
945	383837101130601	16S 35W 20CCC 01	3228	160.86	161.72	161.23	306825	4279357	official	DRW
946	383839100081701	16S 26W 24DDA 01	2587	57.35	57.46	57.64	400926	4277482	official	KGS
947	383841101363801	16S 39W 22DCB 01	3529		148	142.68	272702	4280195	official	DRW
948	383909101572301	16S 42W 22BCB 01	3828		203.31	202.81	242798	4281855	official	DRW
949	383915101522101	16S 41W 20ABC 01	3735	174.77	175.7	179.65	250012	4281841	official	DRW
950	383916101005901	16S 33W 19BBC 01	3098	161.85	161.27	161.14	324449	4280089	official	DRW
951	383928100453301	16S 31W 17DDD 01	2931	121.32	121.05	121.19	346755	4280170	official	DRW
952	383929101084101	16S 35W 13CCC 01	3182	162.66	162.25	161.64	313292	4280694	official	DRW
953	383941101461201	16S 40W 17CBC 01	3688	174.04	172.15	166.05	259019	4282382	official	DRW
954	383954101432401	16S 40W 15ACC 01	3650	163.13	161.75	162.37	263079	4282680	official	DRW
955	384006099574601	16S 24W 15ABB 01	2500	27.06	27.23	27.97	416546	4279924	official	KGS
956	384014100515901	16S 32W 16BCA 01	2999	156.71	157	157.85	337506	4281224	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
957	384014101261501	16S 37W 17BBB 01	3399	160.11	158.98	154.6	287623	4282786	official	DRW
958	384028101052301	16S 34W 09CCB 01	3146	163.11	162.63	162.39	318065	4282308	official	DRW
959	384054101204801	16S 36W 07BCB 01	3319	125.22	124.76	123.38	295820	4283594	official	DRW
960	384139101354901	16S 39W 02BDC 01	3520			156.74	274067	4285659	official	DRW
961	384149101311701	16S 38W 04ABC 01	3475	161.94	158.29		280632	4286011	prov.	DRW
962	384200101132301	16S 35W 06AAB 01	3208	76.17	75.98	79.06	306603	4285649	official	DRW
963	384206101562901	15S 42W 36CDC 01	3844	264.04	255.55	259.73	244209	4287247	official	DRW
964	384212101491702	15S 41W 36DDB 02	3695		163.22	157.47	254705	4287128	official	DRW
965	384238102004501	15S 42W 32BDA 01	3901	252.5	259.54	250.28	238022	4288458	official	DRW
968	384310101521901	15S 41W 27CBC 01	3750	210.95	209.05	204.63	250335	4289059	official	DRW
969	384323101372101	15S 39W 26ACC 01	3561	175.93	173.12	172.099	272099	4288961	official	DRW
970	384347101332601	15S 38W 21CCC 01	3510	160.91	164.85	154.36	277793	4289671	official	DRW
971	384408101444801	15S 40W 22ADC 01	3640	154.18	146.54		261260	4290809	official	DRW
972	384441101310301	15S 38W 14CCD 01	3486	111.74	111.62	109.17	281272	4291212	official	DRW
973	384539101461101	15S 40W 09DCB 01	3653	156	154.53	147.44	259363	4293471	official	DRW
974	384558101403701	15S 39W 08ACC 01	3623	175.94	174.38	167.85	267466	4293909	official	DRW
975	384630101343101	15S 38W 05CCB 01	3531		108.79	107.48	276386	4294734	official	DRW
976	384644101420801	15S 39W 06CBC 01	3631		178.7	168.26	265085	4295166	official	DRW
977	384651101374201	15S 39W 02BCA 01	3585		154.17	155.47	271768	4295631	official	DRW
978	384657101535501	15S 41W 05ACB 01	3794		211.15	204.89	248229	4296231	official	DRW
979	384710101451901	15S 40W 03BAB 01	3636	149.9	149.18	138.97	260692	4296273	official	DRW
980	384710101501101	15S 41W 02AAA 01	3766				253595	4296534	official	DRW
981	384711101574701	15S 42W 02BBB 01	3854	213.76		210.64	242619	4296778	official	DRW
982	384828101393701	14S 39W 28CAA 01	3602		154.05	152.83	269070	4298507	official	DRW
983	384854101470601	14S 40W 29ABA 01	3702		194.28	188.65	258227	4299549	official	DRW
984	384854102023701	14S 43W 25ABA 01	3885	223	221.27	210.86	236000	4300174	official	DRW
985	384946101521301	14S 41W 22BBC 01	3729	158.91	155.18	150.34	250854	4301175	official	DRW
986	384952101442601	14S 40W 14CCC 01	3610	120.7	119.74		262103	4301274	official	DRW
987	384959101545901	14S 41W 18DCB 01	3778	185.29	182.9	171.59	246845	4301906	official	DRW
990	385130101584201	14S 42W 10BAA 01	3838	213.25	209.07	199.67	241934	4304858	official	DRW
993	385314102024201	13S 43W 36ABB 01	3894	201.67	204.01	193.74	235820	4308329	official	DRW
998	385919099542601	12S 23W 20CCC 01	2373.6	17.72	16.59	17.21	421457	4315551	official	DRW
999	390106100221301	12S 28W 12DDD 01	2741	95.4	95.22	92.23	381237	4319430	official	DRW
1000	390106100274501	12S 28W 07DDD 01	2742	46.18	45.06	47.34	373255	4319508	official	DRW
1001	390113100184501	12S 27W 10CCB 01	2700	70.85	69.76	76.67	386098	4319580	official	DRW
1002	390131100095701	12S 26W 12BCC 01	2573	33.61	32.32	35.78	399159	4319898	official	DRW
1003	390152100162401	12S 27W 12BBA 01	2625	29.98	28.78	33.8	389588	4320811	official	DRW
1004	390252100551301	11S 32W 31CCD 01	3054	69.32	68.13		333747	4323483	official	DRW
1005	390254101305402	11S 38W 35CCC 02	3372		118.35	114.97	282362	4325056	official	DRW
1006	390310100362801	11S 30W 36CBB 01	2885	101.32	103.99	103.86	360722	4323866	official	DRW
1007	390316100163201	11S 27W 36BCC 01	2676	72.43	74	78.54	389356	4323438	official	DRW
1008	390317100435701	11S 31W 35BDC 01	2951	95.48	94.87	98.42	350061	4324068	official	DRW
1009	390336100330001	11S 29W 33BBA 01	2857	99.74	100.17	102.63	365814	4324511	official	DRW
1010	390336100490501	11S 32W 36ABA 01	3009	94.01			342651	4324962	official	DRW
1011	390402100393801	11S 30W 28CBA 01	2925	119.57	118.84	122.73	356260	4325559	official	DRW
1012	390409100442901	11S 31W 27ADC 01	2913	51.19	49.86	50.04	349347	4325682	official	DRW
1013	390427100235101	11S 28W 26ABB 01	2755	87.93	98.27	90.32	379206	4325874	official	DRW
1014	390428100380701	11S 30W 27ABB 01	2922	122.17	121.64	125.77	358385	4326276	official	DRW
1015	390521100542901	11S 32W 19AAB 01	3073	106.66	105.95	104.46	334904	4328255	official	DRW
1016	390528100565901	11S 33W 14DCC 01	3117	134.64	133.74	134.24	331325	4328441	official	DRW
1017	390537101060901	11S 34W 16CDB 01	3218	119.52	119.24	123.84	318041	4328800	official	DRW
1018	390611100155701	11S 27W 13ABB 01	2671	121.33	117.95		390460	4328763	official	DRW
1019	390611100160101	11S 26W 19AAA 01	2680	117.54	118.68		392626	4327145	official	DRW
1020	390615101021601	11S 34W 13AAB 01	3184	144.27	144.38	144.68	323883	4329996	official	DRW
1021	390618102000301	11S 42W 08DDC 01	3953	113.44	112.27	113.75	240471	4332403	official	KGS
1022	390639100202901	11S 27W 08DBB 01	2725	107.39	106.07		383963	4329821	official	DRW
1023	390646100581301	11S 33W 10BDD 01	3113	117.45	117.31	118.08	329692	4330965	official	DRW
1024	390657101573901	11S 42W 10AAD 01	3948	131.5	131.2	131.64	244096	4333655	official	KGS
1025	390703100263601	11S 28W 08AAA 01	2797	113.04	113.26	120.44	375285	4330670	official	DRW
1026	390704100421401	11S 31W 12AAB 01	2959	102.27	101.3	108.85	352704	4331121	official	DRW
1027	390709100125401	11S 26W 04CDC 01	2583	63.86	61.04	63.91	394825	4330470	official	DRW
1028	390709100192401	11S 27W 04CDC 01	2703	91.42	90.72	91.79	385427	4330626	official	DRW
1029	390715101222201	11S 37W 01DCD 01	3369	170.27	169.52	170.47	295020	4332882	official	DRW
1030	390723100320801	11S 29W 04DAD 01	2844	110.74	111	113.19	367333	4331415	official	DRW
1031	390738100494401	11S 32W 01BCC 01	3040	115.23	114.55	114.38	341863	4332226	official	DRW
1032	390856100451901	22S 31W 08CCC 01	2911	109.49	108.59	106.1	346183	4223573	official	KGS

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
1033	390901100545201	10S 32W 29DCB 01	3064	101.84	100.63	101.3	334407	4335089	official	DRW
1034	390913100274901	10S 28W 29DAA 01	2691	25.96	30.54	35.48	373742	4334745	official	DRW
1035	390936101085301	10S 34W 29BBC 01	3208	89.13	82.49	83.29	314331	4336599	official	DRW
1036	390940100443201	10S 31W 26AAA 01	2891	12.41	8.05	10.49	349710	4336023	official	DRW
1037	390940100480901	10S 31W 29AAB 01	2997	93.29	93.45		344473	4336101	official	DRW
1038	390959100220001	10S 27W 20CBC 01	2605	18.22	18.74	17.19	381989	4335954	official	DRW
1039	391001101031001	10S 33W 19CBD 01	3161	104.26	103.83	107.05	322647	4336975	official	DRW
1040	391005100190401	10S 27W 22DBA 01	2568	19.18	17.86	17.29	386223	4336018	official	DRW
1041	391006100345201	10S 29W 20CAA 01	2820	64.72	70.41	65.63	363245	4336539	official	DRW
1042	391032101574801	10S 42W 24BAB 01	3903	107.31	106.47	112.25	243969	4340349	official	KGS
1043	391032102012201	10S 42W 21BBB 01	3963	125.15	122.63	119.15	238767	4340520	official	KGS
1044	391032102015501	10S 42W 20ABB 01	3968	128.21	125.97	122.34	237929	4340555	official	KGS
1045	391037101250601	10S 37W 23ABB 01	3421	209.09	204.99	203.7	291147	4339153	official	KGS
1046	391043101211101	10S 36W 16CCC 01	3366	135.88	135.52	133.8	296712	4339054	official	DRW
1047	391052101531101	10S 41W 15CAD 01	3762	30.47	28.7	29.65	250791	4340584	official	KGS
1048	391131100410801	10S 30W 08DDD 01	2930	98.08	95.69	97.94	354513	4339151	official	DRW
1049	391158101460401	10S 40W 10ADC 01	3624	19.4	17.59	17.85	261163	4342367	official	KGS
1050	391200101041601	10S 34W 12BCD 01	3220	176.38	170.79	178.59	321132	4340638	official	DRW
1051	391204100364101	10S 30W 12ADA 01	2874	99.43	97.45	99.8	361010	4340114	official	DRW
1052	391209100095401	10S 26W 12AAD 01	2534	23.13	22.08	22.94	399412	4339572	official	DRW
1053	391217100514101	10S 32W 11BAA 01	3072	128.06	127.4	124.94	339233	4341060	official	DRW
1054	391217100583201	10S 33W 11BAB 01	3140	163.72	160.53	158.31	329397	4341225	official	DRW
1055	391221101135301	10S 35W 09ABB 01	3290	138.59	138.21	111.45	307658	4341945	official	DRW
1056	391222100310301	10S 29W 02DDD 01	2803	84.16	82.03	79.44	368972	4340484	official	DRW
1057	391229100275701	10S 28W 05DDB 01	2789	111.6	108.32	106.33	373631	4340721	official	DRW
1058	391303101031701	10S 33W 06BBC 01	3191	186.93	182.6	177.88	322673	4342682	official	DRW
1059	391339101143501	09S 35W 32DAA 01	3361	184.35		193.69	306466	4344421	official	DRW
1060	391355100574901	09S 33W 35AAD 01	3145	174.22	172.12	168.27	330564	4344069	official	DRW
1061	391400100223301	09S 27W 31ABB 01	2700	88.03	86.52		381264	4343465	official	DRW
1062	391401100384601	09S 30W 35BBB 01	2943.9	157.9	152.59	161.72	357882	4343839	official	DRW
1063	391401100433101	09S 31W 36AAB 01	3013	140.81	147.62	156.69	351164	4343884	official	DRW
1064	391401101531801	09S 41W 34BAB 01	3841	160.44	157.56	155.34	250663	4346584	official	KGS
1065	391401101583501	09S 42W 35ABB 01	3916	164.54	159.15	149.47	243029	4346747	official	KGS
1066	391426100184601	09S 27W 27DAA 01	2705	104.95	104.42	106.73	386644	4344127	official	DRW
1067	391434100530301	09S 32W 27BCD 01	3076	129.43	127.45	124.22	337356	4345105	official	DRW
1068	391451099512701	09S 23W 26BAA 01	2380	42.03	42.28	43.57	425475	4344384	official	DRW
1069	391452100313401	09S 29W 26BAA 01	2863	138.26	140.87	138.83	368326	4345205	official	DRW
1070	391454101490901	09S 40W 29BBB 01	3782	169.89	167.38	166.25	256721	4347997	official	KGS
1071	391502101433001	09S 39W 19CCC 01	3695	144.37	142.18	140.82	264797	4347938	official	KGS
1072	391512100245301	09S 27W 20CBD 01	2740	139.05	138.72		382382	4345463	official	DRW
1073	391544100130001	09S 26W 22BBB 01	2669	134.67	134.66	137.1	394847	4346331	official	DRW
1074	391545099590901	09S 24W 22BAA 01	2491	87.08	85.57	87	414685	4346142	official	DRW
1075	391551100041901	09S 25W 14DDD 01	2534	86.48	88.61	88.85	407704	4346242	official	DRW
1076	391552100485901	09S 31W 17CCC 01	3016	95.77	93.64	90.53	343524	4347397	official	DRW
1077	391553101442101	09S 40W 13CDC 01	3722	168.19	166.55	164.33	263643	4349479	official	KGS
1078	391612100261901	09S 28W 15CBA 01	2790	140.37	136.95		375970	4347653	official	DRW
1079	391622101311101	09S 38W 13BCC 01	3510	80.69	79.35	80.73	282532	4349871	official	KGS
1080	391632101522601	09S 41W 14BBC 01	3835	194.49	193.03	187	252039	4350986	official	KGS
1081	391637100345901	09S 29W 17BAB 01	2854	111.48	108.21	106.1	363352	4348582	official	DRW
1082	391638101580901	09S 42W 14AAA 01	3901	183.77	179.9	170.55	244019	4351648	official	KGS
1083	391639101080801	09S 34W 17ABA 01	3229	160.97	160.69		315677	4349668	official	DRW
1084	391643100173001	09S 27W 12CCC 01	2678	105.93	105.35	100.63	388575	4348231	official	DRW
1085	391646101052901	09S 34W 11CCC 01	3180	136.19	134.44	131.12	319524	4349570	official	DRW
1086	391652101400901	09S 39W 10CCB 01	3661	159.61	156.4	152.26	269717	4351337	official	KGS
1087	391654101291401	09S 37W 07DDB 01	3496	93.28	92.16	93.92	285298	4350920	official	KGS
1088	391718101032301	09S 34W 12ADA 01	3199	176.36	174.47	171.25	322712	4350499	official	DRW
1089	391730102012701	09S 42W 08AAA 01	3943	172.55	168.79	162.45	239242	4353434	official	KGS
1090	391737101551301	09S 41W 05DCC 01	3860	183.62	180.14	167.77	248088	4353269	official	KGS
1091	391758101371201	09S 39W 01DBA 01	3619	153.16	150.99	147.59	274149	4353198	official	KGS
1092	391801100273801	09S 28W 04BCC 01	2677	28.08	26.69	26.2	374142	4350974	official	DRW
1093	391821100320601	09S 29W 03AAA 01	2819	114	123.33	110.3	367591	4351730	official	DRW
1094	391822100390302	09S 30W 03AAB 02	2933	158.86	158.33	156.62	357691	4351834	official	DRW
1095	391822100521201	09S 32W 03AAA 01	3051	104.68	100.04	101.35	338711	4352172	official	DRW
1096	391824101383601	09S 39W 02BAB 01	3646	184.7	182.44	181.75	271921	4354055	official	KGS
1097	391828102024901	08S 42W 31DCD 01	3872	92.86	91.4	87.13	237313	4355127	official	KGS
1098	391847100183701	08S 27W 35CBB 01	2640	124.1	120.06	124.4	386948	4352019	official	DRW

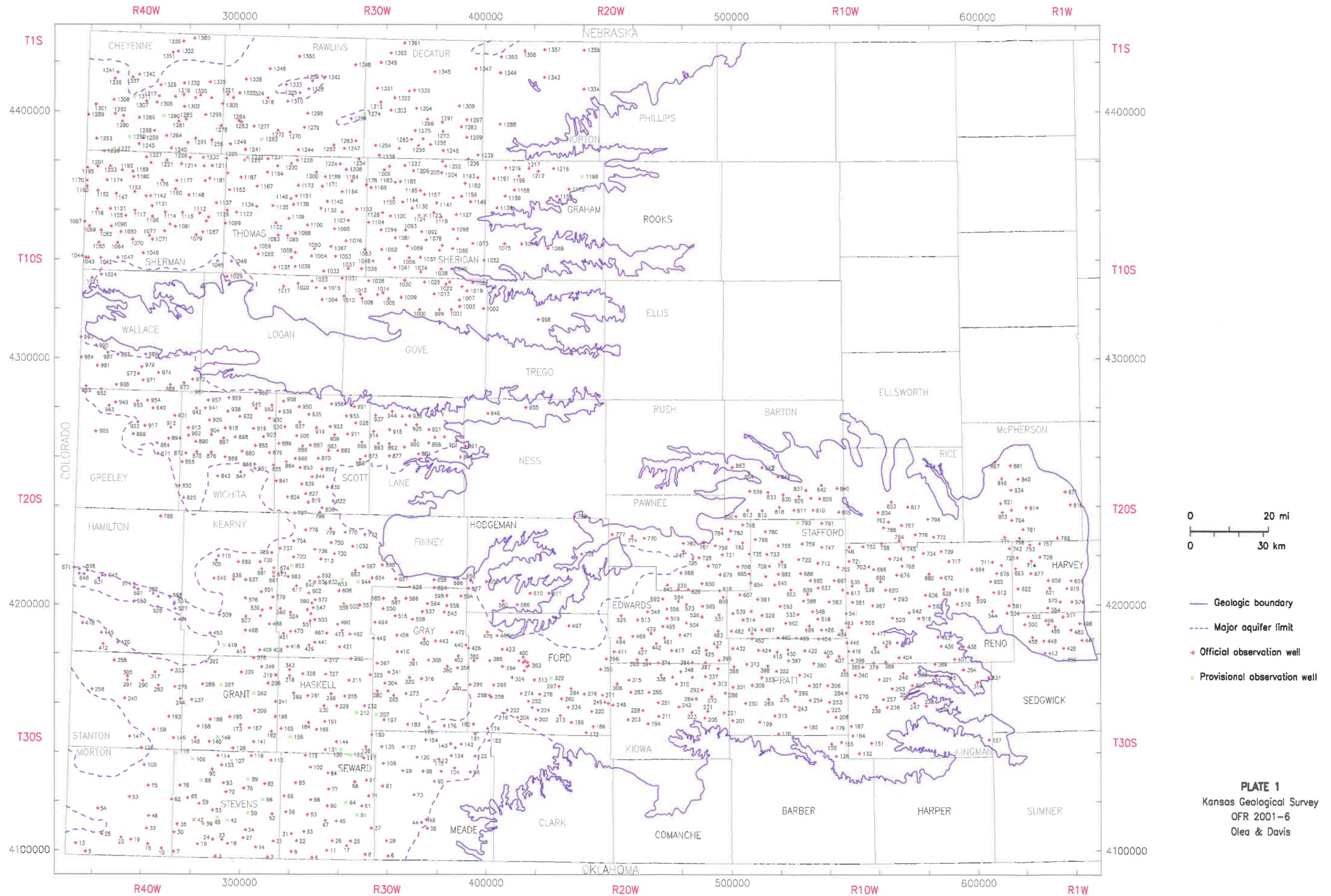
Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
1099	391858101231301	08S 36W 31BCD 01	3369	43.68	43.33	37.5	294300	4354478	official	DRW
1100	391908100595301	08S 33W 34BBC 01	3168	164.52	163.14	160.97	327669	4353771	official	DRW
1101	391917101282301	08S 37W 32ABB 01	3468	102.85	100.87	98.54	286722	4355323	official	KGS
1102	391922101084901	08S 34W 29CCC 01	3283	214.23	213.86	213.49	314827	4354578	official	DRW
1103	391940100521901	08S 32W 27DAB 01	3078			129.02	338530	4354643	official	DRW
1104	392000100424001	08S 30W 30ABC 01	2962	147.23	144.86	142.1	352625	4354886	official	DRW
1105	392000101511701	08S 41W 25BBC 01	3754	130.54	129.12	125.21	253947	4357551	official	KGS
1106	392001101434601	08S 40W 25AAC 01	3701	187.42	185.08	183.22	264811	4357285	official	KGS
1107	392013100483101	08S 31W 20CDD 01	3026	134.02	130.9	127.75	344482	4355599	official	DRW
1108	392016101274901	08S 37W 21CCC 01	3496	146.35	144.69	143.17	287551	4356933	official	KGS
1109	392027101051901	08S 34W 23CBD 01	3232	189.06	187.95	186.09	320095	4356364	official	DRW
1112	392101101302001	08S 38W 24AAB 01	3513	126.38	125.28	123.55	284008	4358587	official	KGS
1114	392107101400701	08S 39W 15CCC 01	3642	171.44	169.22	166.53	269977	4358960	official	KGS
1115	392109101351401	08S 38W 17CDD 01	3603	172.69	170.94	168.37	276977	4358840	official	KGS
1116	392112101592101	08S 42W 15DDB 01	3859	135.86	133.95	130.46	242409	4360170	official	KGS
1117	392113101484901	08S 40W 17CDB 01	3727	142.15	143.15	138.32	257695	4359570	official	KGS
1119	392123100220601	08S 27W 18DAA 01	2570	13.58	12.42		382065	4357009	official	DRW
1120	392124100364001	08S 30W 13DAA 01	2891	159.88	157.64	156.57	361438	4357388	official	DRW
1121	392125101553601	08S 41W 17CBA 01	3843	156.86	155.48	153.59	247799	4360371	official	KGS
1122	392127101195901	08S 36W 15CBB 01	3365	87.57	86.95	86.44	298919	4358912	official	DRW
1123	392143100264501	08S 28W 16AAC 01	2723	102.76	100.9		375526	4357694	prov.	DRW
1124	392143100281901	08S 28W 17BAD 01	2767	128.07	125.87		373192	4357816	official	DRW
1126	392153101223802	08S 36W 18ABA 02	3428	135.16	132.15	131.3	295131	4359784	official	DRW
1127	392156100175401	08S 27W 11DCD 01	2504	10.9	10.79	9.65	388137	4357975	official	DRW
1128	392210100384601	08S 30W 11CBC 01	2941	192.77		190.79	358291	4358722	official	DRW
1129	392210100502301	08S 32W 12DBC 01	3057	132.07	129.84		341864	4359155	official	DRW
1130	392215100242101	08S 28W 11DAA 01	2692	101.07	100.45	100.45	379051	4358811	official	DRW
1131	392218101435301	08S 40W 12DBA 01	3670	170.99	169.69	166.12	264654	4361498	official	KGS
1132	392243100560301	08S 32W 07BAA 01	3102	128.77	129.84	128.1	333239	4360484	official	DRW
1133	392249100461301	08S 31W 03CDD 01	3003	151.29	148.66	147.75	347745	4360221	official	DRW
1134	392252101142201	08S 35W 04CCC 01	3302	95.42	95.32	95.39	306961	4361264	official	DRW
1135	392303101095401	08S 34W 06CBC 01	3266	148.94	140.77	139.8	313573	4361651	official	DRW
1136	392316100302601	08S 29W 01BDD 01	2785	162.59	160.52		370290	4360558	official	DRW
1137	392324101255101	08S 37W 03ADB 01	3476	165.52	164.14	167.74	290640	4362723	official	KGS
1138	392329101040201	08S 34W 01BAC 01	3177	133.68	131.78	130.48	321952	4362139	official	DRW
1139	392340100063401	07S 25W 33DDD 01	2502	99.2	98.02	99.06	404671	4360747	official	DRW
1140	392414100541201	07S 32W 33BCB 01	3082	126.05	123.99	126.12	335891	4363257	official	DRW
1141	392426100233001	07S 28W 36ABA 01	2725	147.13	146.65	145.4	380214	4362750	official	DRW
1142	392429101441801	07S 40W 36BAB 01	3643	140.04	138.29	134.84	264061	4365551	official	KGS
1143	392429101454201	07S 40W 35BBB 01	3650	132.14	131.42		262198	4365488	official	KGS
1144	392433100330201	07S 29W 27CCC 01	2869	190.78	187.53	188.92	366414	4363052	official	DRW
1145	392448101044301	07S 34W 26DBD 01	3177	118.95	118.75	121.81	320954	4364421	official	DRW
1146	392452100134601	07S 26W 28CAB 01	2634	155	154.74	154.5	394015	4363123	official	DRW
1147	392454101540201	07S 41W 28DBB 01	3774	137.95	136.74	134.13	250164	4366560	official	KGS
1148	392456101333201	07S 38W 28DAA 01	3545	154.36	153.01	152.11	279620	4365946	official	KGS
1150	392519100354201	07S 29W 30ABA 01	2886.6	169.91	165.73	164.3	362730	4364687	official	DRW
1151	392520101031901	07S 34W 25AAA 01	3167	117.29	116.37	115.54	323115	4365534	official	DRW
1152	392520101591901	07S 42W 27AAB 01	3862	176.74	175.56	171.28	242687	4367756	official	KGS
1153	392521101485501	07S 40W 29BBA 01	3708	148.74	147.14	144.94	257641	4367255	official	KGS
1155	392538100185201	07S 27W 22DAC 01	2644	116.84	116.32	117.09	386824	4364832	official	DRW
1156	392604100162101	07S 26W 19BBC 01	2625	126.36	125.67	127.49	390327	4365378	official	DRW
1157	392610100270101	07S 28W 21ABB 01	2774	164.73	162.82	164.94	375324	4366088	official	DRW
1158	392611099493301	07S 22W 19BBB 01	2295	34.26	33.08	32.74	428964	4365447	official	DRW
1159	392611100040901	07S 25W 24BBB 01	2495	84.78	84.62	86.04	408035	4365546	official	DRW
1160	392613101372701	07S 39W 24BAA 01	3587	154.77	155.25	150.44	274220	4368413	official	KGS
1162	392618102022101	07S 42W 17CCC 01	3864	150.98	148.32	145.9	238248	4369543	official	KGS
1163	392620101221101	07S 36W 17CCC 01	3417	152.73	151.72	148.69	295994	4368018	official	DRW
1164	392631100501201	07S 32W 13DBD 01	3028	120.06	117.7	115.55	341849	4367336	official	DRW
1165	392709100280601	07S 28W 08DCC 01	2797	173.45	169.32		373595	4367759	official	DRW
1167	392712101142001	07S 35W 09CCC 01	3315	136.52	135.1	132.72	307196	4369311	official	DRW
1168	392729100013501	07S 24W 08CBA 01	2519	123.21	123.23		411669	4367911	official	DRW
1169	392729100420601	07S 30W 08CBB 01	2919	109.47	105.74	103.19	353665	4368906	official	DRW
1170	392730102022801	07S 42W 07DAA 01	3903	198.49	196.11	191.64	238220	4371806	official	KGS
1171	392736100554301	07S 32W 07ACA 01	3056	84.24	83.41	81.01	333777	4369523	official	DRW
1172	392742100102601	07S 26W 12BDB 01	2560			99.06	398914	4368399	prov.	DRW
1173	392743101024401	07S 33W 07BDA 01	3203	159.38	158.52	156.75	323918	4369799	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency	
			ft	ft	ft	ft	m	m			
1174	392744101564801	07S 41W 07BCB 01	3840	207.84	207.64	202.62	246444	4371941	official	KGS	
1175	392749099461001	07S 22W 10BBC 01	2217		9	8.36	8.35	433905	4368325	official	DRW
1176	392758101411201	07S 39W 09BBB 01	3589	121.77	121.26	117.76	268757	4371851	official	KGS	
1177	392804101371001	07S 39W 01DCD 01	3563	137.87	137.17	135.52	274746	4371711	official	KGS	
1178	392809100433901	07S 31W 01DCA 01	2956	126.37	124.81	122.5	351589	4370167	official	DRW	
1179	392811101285301	07S 37W 05CCB 01	3472	147.57	145.33	142.15	286370	4371695	official	KGS	
1180	392836101491801	07S 40W 06ADB 01	3722	173.92	171.95	168.94	257203	4373355	official	KGS	
1181	392843101274601	07S 37W 04BBC 01	3455	146.25	144.08	138.57	288125	4372594	official	KGS	
1182	392847100152601	07S 26W 06AAB 01	2634	139.41	138.28	136.78	391743	4370581	official	DRW	
1183	392848100351301	07S 29W 05BBB 01	2841	112.16	110.31	108.62	363360	4371116	official	DRW	
1184	392854100473701	06S 31W 33CCD 01	2916	38.03	36.32	36.1	345859	4371560	official	DRW	
1185	392900100334201	06S 29W 33CDA 01	2828	116.09	114.68	112.73	365543	4371478	official	DRW	
1186	392901101093401	06S 34W 31CDB 01	3255			136.45	314223	4372606	official	DRW	
1187	392903101190501	06S 36W 34DDDB 01	3334	109.33	108.02	106.44	300506	4373028	official	DRW	
1188	392946100550001	06S 32W 29CDC 01	3077	128.25	125.06	126.09	334935	4373379	official	DRW	
1189	392948101493301	06S 40W 30DCC 01	3718	174.65	172.92	170.57	256898	4375448	official	KGS	
1190	392955101224301	06S 36W 30DCB 01	3417	160.77	160.94	158.91	295346	4374788	official	DRW	
1191	392959100073201	06S 25W 28CBC 01	2540	106.72	107.53	108.69	403398	4372599	official	DRW	
1192	393001101524301	06S 41W 27DBD 01	3741	172.34	170.25		252456	4375989	official	KGS	
1193	393005100114801	06S 26W 26CBB 01	2636	169.14	167.26	168.56	396910	4372931	official	DRW	
1194	393020101113101	06S 35W 26ACB 01	3300	168.97	162.84	158.83	311429	4375181	official	DRW	
1195	393020102022701	06S 42W 30ADA 01	3871	215.33	213.6	208.08	238527	4377058	official	KGS	
1196	393032100002001	06S 24W 28BAB 01	2478	92.83	92.03	94.43	413504	4373543	official	DRW	
1198	393039099423702	06S 21W 19CDC 02	2305	94.5	94.87	96.05	439209	4373503	prov.	DRW	
1199	393039099493101	06S 22W 19CCC 01	2395		100.4	104.26	429118	4373611	official	DRW	
1200	393039100574201	06S 33W 23DDD 01	2997	14.24	11.47	12.45	331456	4375214	official	DRW	
1201	393040101593201	06S 42W 22DCC 01	3837	208.36	206	200.67	242596	4377469	official	KGS	
1202	393045101054701	06S 34W 22DCA 01	3207			130.52	319733	4375642	official	DRW	
1203	393053101560401	06S 41W 19DBD 01	3792	195.5	194.36	189.95	247751	4377691	official	KGS	
1204	393104100221201	06S 27W 19ADC 01	2620	34.73	33.75	33.04	382224	4374891	official	DRW	
1205	393104100272301	06S 28W 21BCD 01	2750	111.62	111.14		374876	4375101	prov.	DRW	
1206	393123100301401	06S 29W 24ABB 01	2781	109.59	107.76	106.89	370743	4375799	official	DRW	
1207	393126101292601	06S 37W 19ABB 01	3476	161.05	161.74	159.73	285805	4377709	official	KGS	
1208	393127100490701	06S 31W 19ABA 01	3010	120.78	120.13	118.94	343565	4376382	official	DRW	
1209	393131100383701	06S 30W 14CCD 01	2884	112.68	111.55	111.79	358892	4376136	official	DRW	
1210	393132099463701	06S 22W 16DCC 01	2360				433219	4375178	official	DRW	
1211	393132101272001	06S 37W 16CDD 01	3460	174.22	172.98	172.25	289008	4377815	official	KGS	
1212	393137099550001	06S 23W 17CCA 01	2406	62.79	62.1	67.73	421376	4375494	official	DRW	
1213	393144101084301	06S 34W 17CBC 01	3261	163.13	162.34	160.55	315472	4377726	official	DRW	
1214	393146101360101	06S 38W 18DBD 01	3528	138.81	137.47		276511	4378539	official	KGS	
1215	393146101443201	06S 40W 13CBC 01	3624	156.17	154.2	150.38	264239	4378999	official	KGS	
1216	393216099503801	06S 23W 13BBB 01	2340	50.14	49.59	50.82	427545	4376620	official	DRW	
1217	393216099572401	06S 24W 14AAA 01	2527	107.86	107.68	111.34	417799	4376713	official	DRW	
1218	393216100371301	06S 30W 13BAA 01	2875	129.99	127.32	128.15	361024	4377549	official	DRW	
1219	393223100040801	06S 25W 12CCC 01	2538	139.44	140.3	141.53	408152	4376844	official	DRW	
1220	393223101045601	06S 34W 11CDD 01	3218	166.58	165.75		321092	4378607	official	DRW	
1221	393225101401201	06S 39W 09DDD 01	3585	153.23	154.05	151.59	270624	4379909	official	KGS	
1222	393228100211301	06S 27W 08DCA 01	2588	18.34	16.91	18	383778	4377546	official	DRW	
1223	393235100322701	06S 29W 10DBC 01	2823	129.48	130.52	130.28	367374	4377930	official	DRW	
1224	393236100505101	06S 32W 12CBC 01	3020	118.91	118.72	118.13	341099	4378585	official	DRW	
1225	393250101181301	06S 36W 11ACC 01	3360	180.76	179.24	174.75	302070	4379961	official	DRW	
1226	393304101334601	06S 38W 09ABD 01	3510	165.5	164.7		280057	4381025	official	KGS	
1227	393304101455501	06S 40W 10AAC 01	3641	168.97	167.51	164.82	262322	4381309	official	KGS	
1228	393309101030601	06S 33W 07BBB 01	3177	140.95	139.64	144.13	323600	4379984	official	DRW	
1229	393310101231501	06S 36W 07BBB 01	3410	186.44	184.8	179.14	294766	4380856	official	DRW	
1230	393310101295101	06S 37W 07BBA 01	3304	8.14	8.46	7.62	285468	4381090	official	KGS	
1231	393316101113801	06S 35W 02CDD 01	3245	132.34	132.24	132.3	311574	4380450	official	DRW	
1232	393329101172201	06S 36W 01CAC 01	3340	174.27	172.21		303190	4381077	prov.	DRW	
1233	393334100215501	06S 27W 05CBB 01	2684	111.19	110.43	111.54	382622	4379539	official	DRW	
1234	393348100454501	06S 31W 03ADB 01	2957	117.33	116.39	113.94	348683	4380444	official	DRW	
1235	393403101575901	06S 42W 02AAA 01	3777	205.36	204.24	200.08	245180	4383775	official	KGS	
1236	393407100143101	05S 26W 33DCC 01	2475	18	17.32	17.04	393023	4380444	official	DRW	
1237	393429101550401	05S 41W 34 CBB 01	3730	202.61			249272	4384509	prov.	KGS	
1238	393440100395501	05S 30W 35BCB 01	2891	117.79	116.68	117.96	356956	4382116	official	DRW	
1239	393505100115901	05S 26W 26DDA 01	2437	21.8	21.41	20.9	397032	4382082	official	DRW	
1240	393508101390801	05S 39W 25CDA 01	3533	136.94	135.58	134.17	272484	4384955	official	KGS	

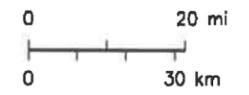
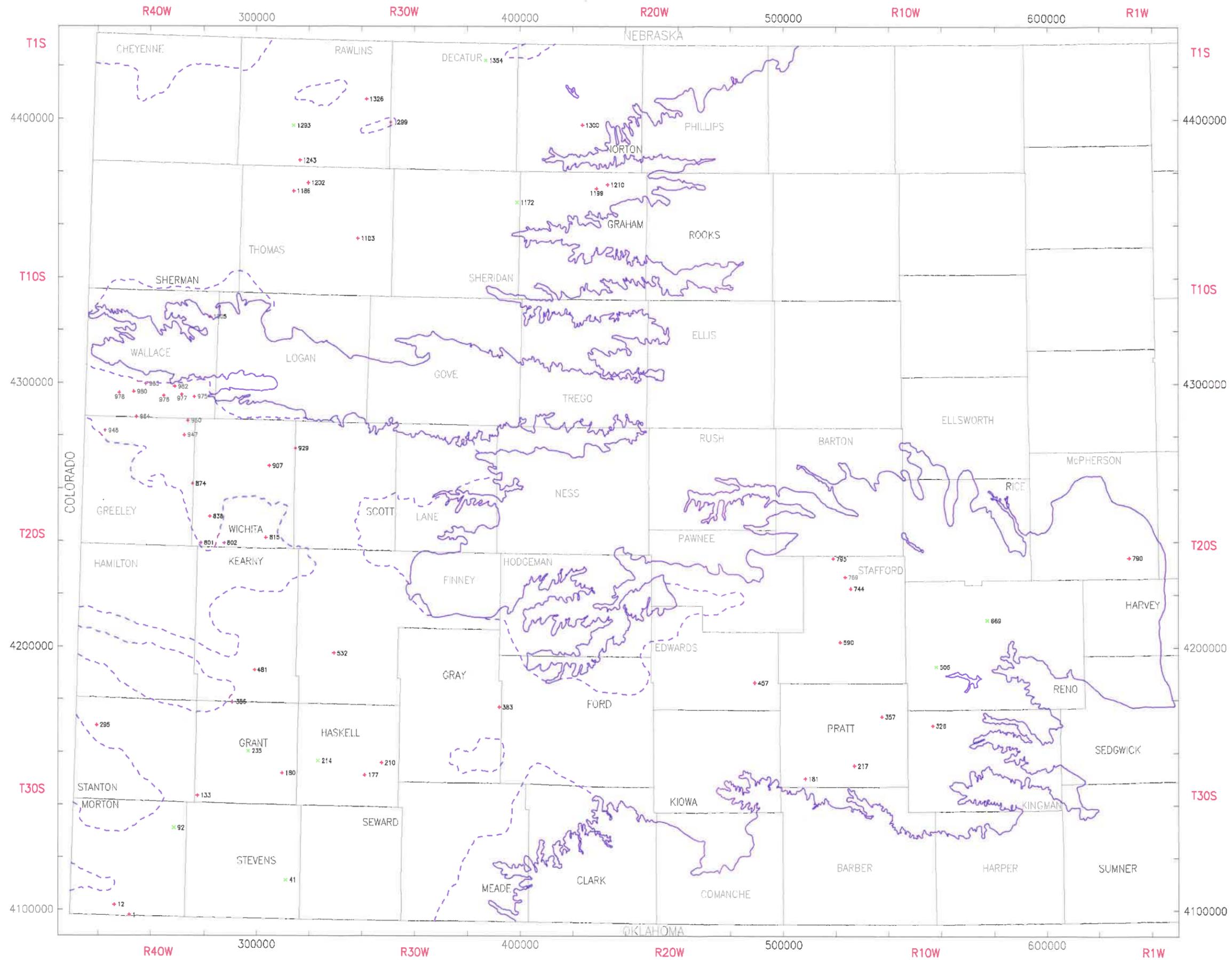
Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
1241	393513101180001	05S 35W 30CBC 01	3336	173.95	172.9	173.41	302448	4384324	official	DRW
1243	393526101081201	05S 34W 28ADC 01	3207		134.08	142.1	316530	4384226	official	DRW
1244	393533101030001	05S 33W 29BDA 01	3042	21.08	18.99	17.9	323946	4384232	official	DRW
1245	393547101481501	05S 40W 27BBA 01	3658	213.68	211.77		259416	4386614	official	KGS
1246	393557100214701	05S 27W 21CCA 01	2675	100.17	98.79	101.77	382842	4383895	official	DRW
1247	393558100495001	05S 31W 20CCA 01	2865	37.14	36.75	38.42	342824	4384769	official	DRW
1248	393610100341701	05S 29W 22CBB 01	2686	14.37	12.32	11.88	364991	4384684	official	DRW
1249	393619101222101	05S 36W 21BCD 01	3220	20.09	19.22		296397	4386598	official	DRW
1250	393625101342401	05S 38W 22ACB 01	3437	100.69	99.9	98.02	279183	4387132	official	KGS
1252	393644100525501	05S 32W 14CDD 01	3020	128.48	128.12	128.75	338488	4386129	official	DRW
1253	393645102000401	05S 42W 14DCC 01	3672	136.39	135.34	133.64	242208	4388782	official	KGS
1254	393651100410001	05S 30W 15CCB 01	2878	90.1	90.1	90.25	355405	4385998	official	DRW
1255	393656100285601	05S 28W 17DAC 01	2734	94.69	94.7		372818	4385896	official	DRW
1256	393704101273301	05S 37W 15DBB 01	3397	147.42	147.31	145.1	288896	4388180	official	KGS
1258	393709100252601	05S 28W 14ADD 01	2723	130.86	137.19	136.33	377763	4386363	official	DRW
1259	393712101470601	05S 40W 14BCD 01	3645	227.93	227.4	223.98	260934	4388999	official	KGS
1260	393719101505501	05S 40W 18ADB 01	3680	241.61	229.3		255492	4389470	prov.	KGS
1261	393724101321401	05S 38W 13BAD 01	3390	81.43	80.48	79.18	282327	4388915	official	KGS
1262	393738101132801	05S 35W 11 CCC 01	3200	147.23			309004	4388457	prov.	DRW
1263	393742100464301	05S 31W 10DDA 01	2820	44.81	41.4	41.15	347369	4387833	official	DRW
1264	393751101403601	05S 39W 11CBC 01	3530	155.3	154.25	151.95	270510	4389972	official	KGS
1265	393814100305401	05S 28W 07BBC 01	2644	16.82	15.25	14.2	370017	4388367	official	DRW
1266	393820100273201	05S 28W 10BBB 01	2600	7.6	7.24	8.37	374707	4388540	official	DRW
1268	393849101440101	05S 39W 06DAA 01	3607	216.53	216.25	214.64	265656	4391972	official	KGS
1269	393853100150901	05S 26W 05ADD 01	2607	121.89	122.66	124.9	392347	4389236	official	DRW
1270	393914101053801	05S 34W 01BBB 01	3137	109.9	110.44	114.75	320552	4391250	official	DRW
1272	393933101090001	04S 34W 33CBC 01	3160	116.14	116.1	116.58	315582	4392000	official	DRW
1273	394005100215501	04S 27W 33BBB 01	2528	17.2	15.64	16.54	382771	4391607	official	DRW
1274	394006100442101	04S 30W 31BBB 01	2750	11.72	9.55		350919	4398712	prov.	DRW
1275	394011100295401	04S 28W 30DDD 01	2726	87	87.26	91.36	371425	4391935	official	DRW
1277	394013101155301	04S 35W 29DDD 01	3219	149.43	149.33		305938	4393580	official	DRW
1278	394020101250801	04S 37W 25DCA 01	3374	157.24	156.15	154.24	292626	4393977	official	KGS
1279	394026101014201	04S 33W 28DCA 01	3125	147.26	146.48		326313	4393176	official	DRW
1280	394047101525102	04S 41W 25BCB 02	3571	145.67	145.63		252575	4395786	official	KGS
1281	394106101371301	04S 38W 20CCC 01	3485	160.53	159.84	158.52	275508	4395794	official	KGS
1282	394110100163301	04S 26W 19DCA 01	2464	15.24	14.66	14.7	390253	4393424	official	DRW
1283	394112101193101	04S 36W 23DCA 01	3339	214.99	214.1	213.01	300802	4395464	official	DRW
1284	394125101201301	04S 36W 23CBB 01	3351	217.68	216.22	215.18	299801	4395904	official	DRW
1285	394132101351201	04S 38W 21ADC 01	3491	189.81	189.38	186.49	278459	4396641	official	KGS
1286	394139101482101	04S 40W 22BCB 01	3520	128.98	126.76	125.53	259534	4397274	official	KGS
1287	394152101525901	04S 41W 23AAA 01	3526	123.7	123.8	122.8	252992	4398063	official	KGS
1288	394156100054101	04S 25W 13CCC 01	2520	109.58	110.12	113.6	406014	4394539	official	DRW
1289	394159102022201	04S 42W 16CCD 01	3590	91.98	91.56		238893	4398514	official	KGS
1290	394205101413101	04S 39W 15CCA 01	3492	142.71	142.21		269370	4397819	prov.	KGS
1291	394208100221101	04S 27W 17DAC 01	2648	95.48	96.3	101.69	382425	4395367	official	DRW
1292	394218101551201	04S 41W 16DAA 01	3403	16.94	16.29	15.76	249731	4398867	official	KGS
1293	394230101100901	04S 34W 18 ADA 01	3015				314033	4397442	prov.	DRW
1294	394236100480601	04S 31W 16ABD 01	2761	9.31	7.76	8.64	345543	4396994	official	DRW
1295	394237101292901	04S 37W 17AAC 01	3446	203.08	200.42	198.8	286507	4398380	official	KGS
1296	394241100263201	04S 28W 15AAA 01	2700	86.06	86.5	89.79	376381	4396529	official	DRW
1297	394248100150801	04S 26W 08DDD 01	2455.7	28.96	28.57	28.64	392438	4396355	official	DRW
1298	394328101003401	04S 33W 10ABC 01	3086	138.94	140.69	145.51	327816	4398980	official	DRW
1299	394335100441701	04S 30W 07BBB 01	2697		7.15	7.67	350954	4398729	official	DRW
1300	394340099532401	04S 23W 03DDD 01	2370		82.69	86.53	423693	4397653	official	DRW
1301	394409102003501	04S 42W 02BCC 01	3704	213.65	212.97	212.3	241890	4402612	official	KGS
1302	394421101354501	04S 38W 04BAC 01	3509	223.91	222.9	221.06	277801	4401757	official	KGS
1303	394432100370401	03S 29W 31DCC 01	2633	23.08	20.92	19.47	361576	4400138	official	DRW
1304	394504100293601	03S 28W 32BCA 01	2749	126.08	125.48	128.15	371986	4400905	official	DRW
1305	394507101245701	03S 37W 36ADB 01	3381	209.16	206.24	201.95	293228	4402926	official	KGS
1306	394507101433401	03S 39W 32BDB 01	3490	155.43	154.57	152.74	266642	4403501	official	KGS
1307	394514101463001	03S 40W 35AAC 01	3445	98.65	98.26	97.2	262443	4403880	official	KGS
1308	394521101553601	03S 41W 33ABB 01	3594	158.7	158.55	159.88	249202	4404500	official	KGS
1309	394544100172202	03S 26W 30CBB 02	2610	118.88	119.37	121.73	389362	4401911	official	DRW
1310	394605101062601	03S 34W 26BAC 01	2900	12.46	9.19	10.05	319585	4403817	official	DRW
1311	394607101495502	03S 40W 29ABC 02	3310	11.35	11.43		257553	4405748	prov.	KGS
1312	394610100395001	03S 30W 26BBB 01	2629	7.61	5.88	0.6	357581	4403343	official	DRW

Seq.No.	USGS ID	KGS ID	Elevation	2001 depth	2000 depth	1996 depth	UTM X	UTM Y	Status	Agency
			ft	ft	ft	ft	m	m		
1313	394612101323501	03S 38W 25BBB 01	3479	228.65	226.72	225.49	282368	4405209	official	KGS
1314	394619101281101	03S 37W 21DDD 01	3422	222.08	221.54	219.33	288760	4405121	official	KGS
1315	394619101382601	03S 39W 24DDD 01	3505	226.19	225.15	223.1	274220	4405691	official	KGS
1316	394632101215201	03S 36W 21DBC 01	3345	205.35	203.8	216.75	297637	4405277	official	DRW
1317	394632101430001	03S 39W 20DAC 01	3450	140.56	140.95	139.01	267595	4406051	official	KGS
1318	394637101122001	03S 35W 24CBB 01	3001	27.28	25.8	26.2	311407	4405161	official	DRW
1319	394651101360001	03S 38W 21BCB 01	3512	242.73	241.65	240.24	277519	4406520	official	KGS
1320	394658101312601	03S 37W 19BBC 01	3468	230.34	227.81	229.09	284370	4406282	official	KGS
1321	394711101233201	03S 36W 17CCC 01	3375	216.63	215.39	214.26	295339	4406551	official	DRW
1322	394715100355501	03S 29W 17DCB 01	2587	20.66	18.26	18.23	363191	4405142	official	DRW
1323	394730101201001	03S 36W 14CBB 01	3332	203.65	202.82	204.74	300121	4407183	official	DRW
1324	394740101175601	03S 35W 18CBB 01	3295	201.25	203.36		303337	4406968	prov.	DRW
1325	394802101030301	03S 33W 08CDC 01	2855	20.98	17.61	17.88	324550	4407306	official	DRW
1326	394814100505201	03S 31W 07CBD 01	2960		143.2	146.44	341798	4407511	official	DRW
1327	394846100314901	03S 29W 12BBA 01	2556.1	18.21	15.81	16.88	369099	4407960	official	DRW
1328	394854101003101	03S 33W 03DCC 01	2823	26.1	23.9	24.26	328131	4408822	official	DRW
1329	394856101424201	03S 39W 04CCC 01	3351	63.87	63.6	63.37	268192	4410477	official	KGS
1330	394859100301701	03S 28W 06DCB 01	2571	29.69	27.32	28.68	371183	4408196	official	DRW
1331	394913100404701	03S 30W 03CBA 01	2807	99.08	93.48	91.57	356231	4409030	official	DRW
1332	394921101355801	03S 38W 04BCC 01	3479	217.4	217.14	216.77	277724	4411205	official	KGS
1333	394940101071501	03S 34W 03ABB 01	2882	15.1	13.2	12.98	319110	4410542	official	DRW
1334	394945099420101	02S 21W 33CCC 01	2280	87.79	87.3	90.45	439951	4408852	official	DRW
1335	394947101283501	02S 37W 33DCC 01	3420	215.41	215.53	214.23	288178	4411628	official	KGS
1336	395001101553501	02S 41W 33DBC 01	3650	236.7	236.46	236.29	249646	4413098	official	KGS
1337	395021101503301	02S 40W 32BCB 01	3492	129.29	129.44	129.67	256844	4413662	official	KGS
1338	395033101183701	02S 36W 36BAA 01	3263	174.8	177.02	174.63	302662	4412681	official	DRW
1339	395038100592301	02S 33W 26DCC 01	2798	22.8	19.39	20.06	329726	4412001	official	DRW
1340	395100101484301	02S 40W 28DBA 01	3452	110.14	110.03	110.25	259586	4414760	official	KGS
1341	395120101545301	02S 41W 27BBD 01	3620	200.14	200	200.18	250764	4415586	official	KGS
1342	395130100555301	02S 32W 20DCD 01	2735	12.79	10.65	10.04	334821	4413633	official	DRW
1343	395214099532101	02S 23W 22AAA 01	2378	72.06	71.54	72.38	423994	4413617	official	DRW
1344	395306100054301	02S 25W 14AAA 01	2530	135.38	136.2	139.78	406235	4415438	official	DRW
1345	395307100243001	02S 28W 13ABA 01	2487	27.38	25.28	26.6	379566	4415840	official	DRW
1346	395308101114301	02S 35W 13ABB 01	3178	166.47	166.36	150.49	312436	4417041	official	DRW
1347	395358100124001	02S 26W 11BBA 01	2509	78.79	78.94	81.8	396252	4417090	official	DRW
1348	395419100471001	02S 31W 03CAD 01	2665	17.73	15.99	16.2	347219	4418643	official	DRW
1349	395458100395501	01S 30W 34DDD 01	2610	28.44	23.84	20.99	357710	4419468	official	DRW
1350	395551101031601	01S 33W 29CCC 01	2992	110.11	110.46	115.45	324435	4422057	official	DRW
1351	395606101391601	01S 39W 25CBC 01	3102	9.94	9.95	9.36	273238	4423719	official	KGS
1352	395619101375201	01S 38W 30BDC 01	3090	9.99	9.49	8.57	275251	4424113	official	KGS
1353	395634100053201	01S 25W 25BBB 01	2405	38.67	38.35	40.28	406562	4421858	official	DRW
1354	395636100192601	01S 27W 26BBA 01	2435		23.46		386894	4422090	prov.	DRW
1355	395708100370701	01S 29W 19BDD 01	2572	15.93	14.32	14.9	361766	4423428	official	DRW
1356	395806099584801	01S 24W 13BCB 01	2425	112.19	112.46	113.79	416183	4424403	official	DRW
1357	395819099532001	01S 23W 15AAA 01	2340	28.18	27.56	29.92	424109	4424854	official	DRW
1358	395820099420601	01S 21W 17AAA 01	2290	77.26		78.9	440134	4424743	official	DRW
1359	395829101362501	01S 38W 08DCC 01	3057.1	15.7	14.22	13.45	277479	4428075	official	KGS
1360	395921101331801	01S 38W 02CDC 01	3034	26.36	25.13	23.19	281808	4429388	official	KGS
1361	395925100331901	01S 29W 03DDB 01	2539	14.72	13.49	23.87	367289	4427476	official	DRW

MEASURED OBSERVATION WELLS IN HIGH PLAINS AQUIFER, DEC. 2000–FEB. 2001



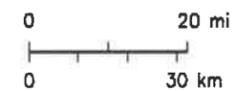
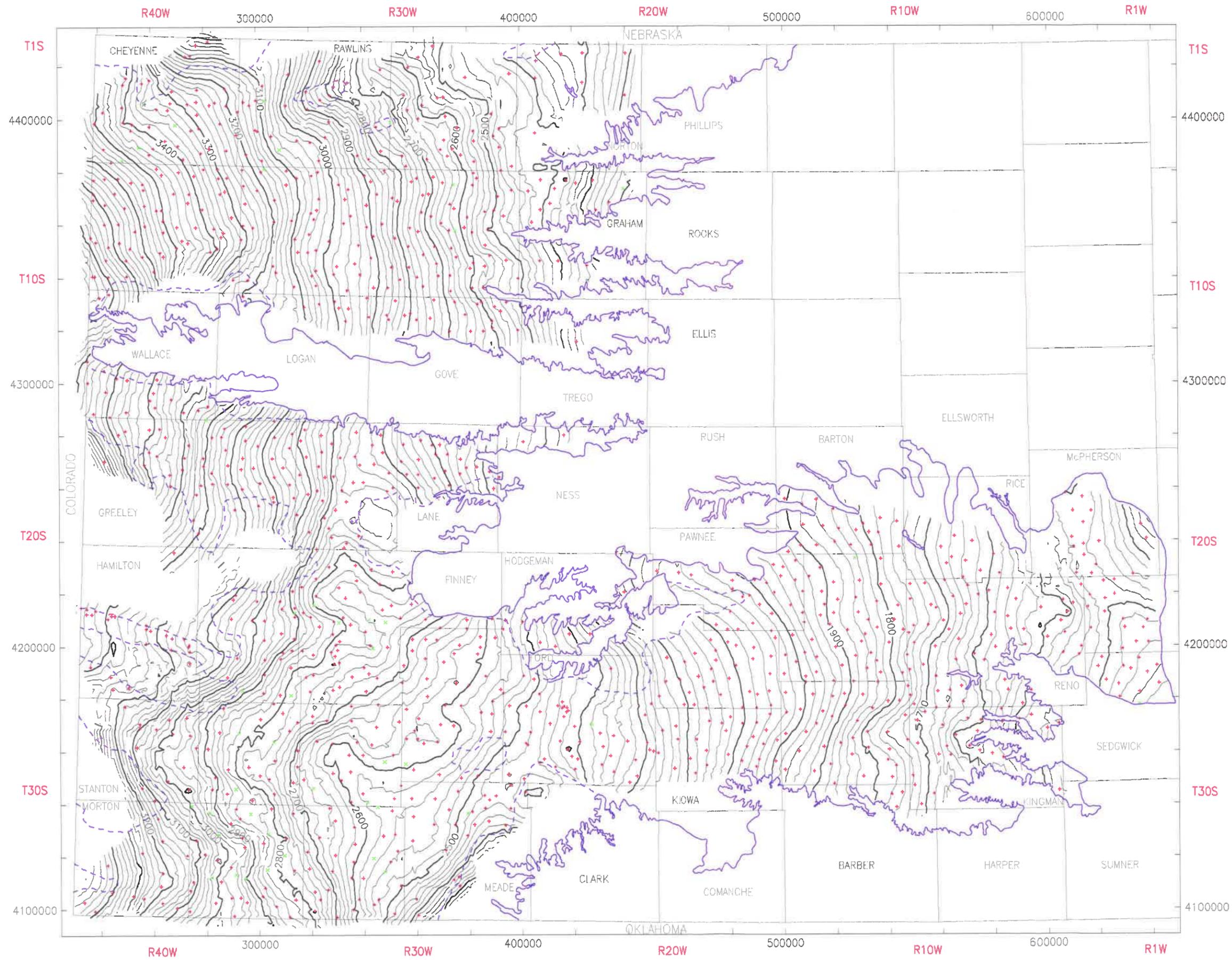
HIGH PLAINS AQUIFER OBSERVATION WELLS NOT MEASURED, DEC. 2000–FEB. 2001



- Geologic boundary
- - - Major aquifer limit
- + Official observation well
- x Provisional observation well

PLATE 2
 Kansas Geological Survey
 OFR 2001-6
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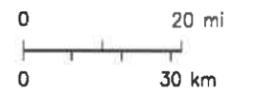
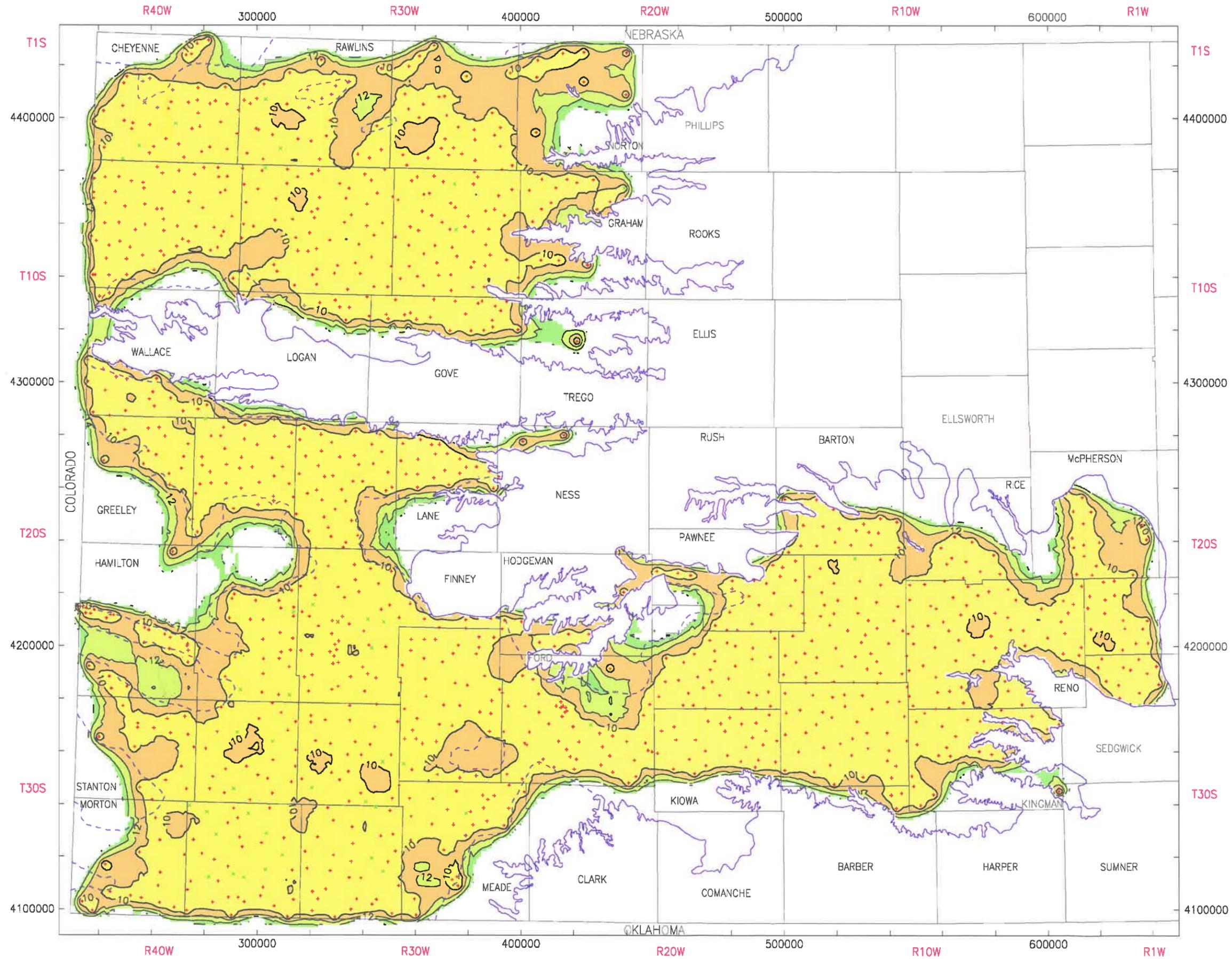
WATER-TABLE ELEVATION OF THE HIGH PLAINS AQUIFER, DEC. 2000–FEB. 2001



- Geologic boundary
- - - Major aquifer limit
- + Official observation well
- x Provisional observation well

PLATE 3
 Kansas Geological Survey
 OFR 2001-6
 Olea & Davis

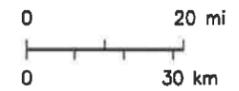
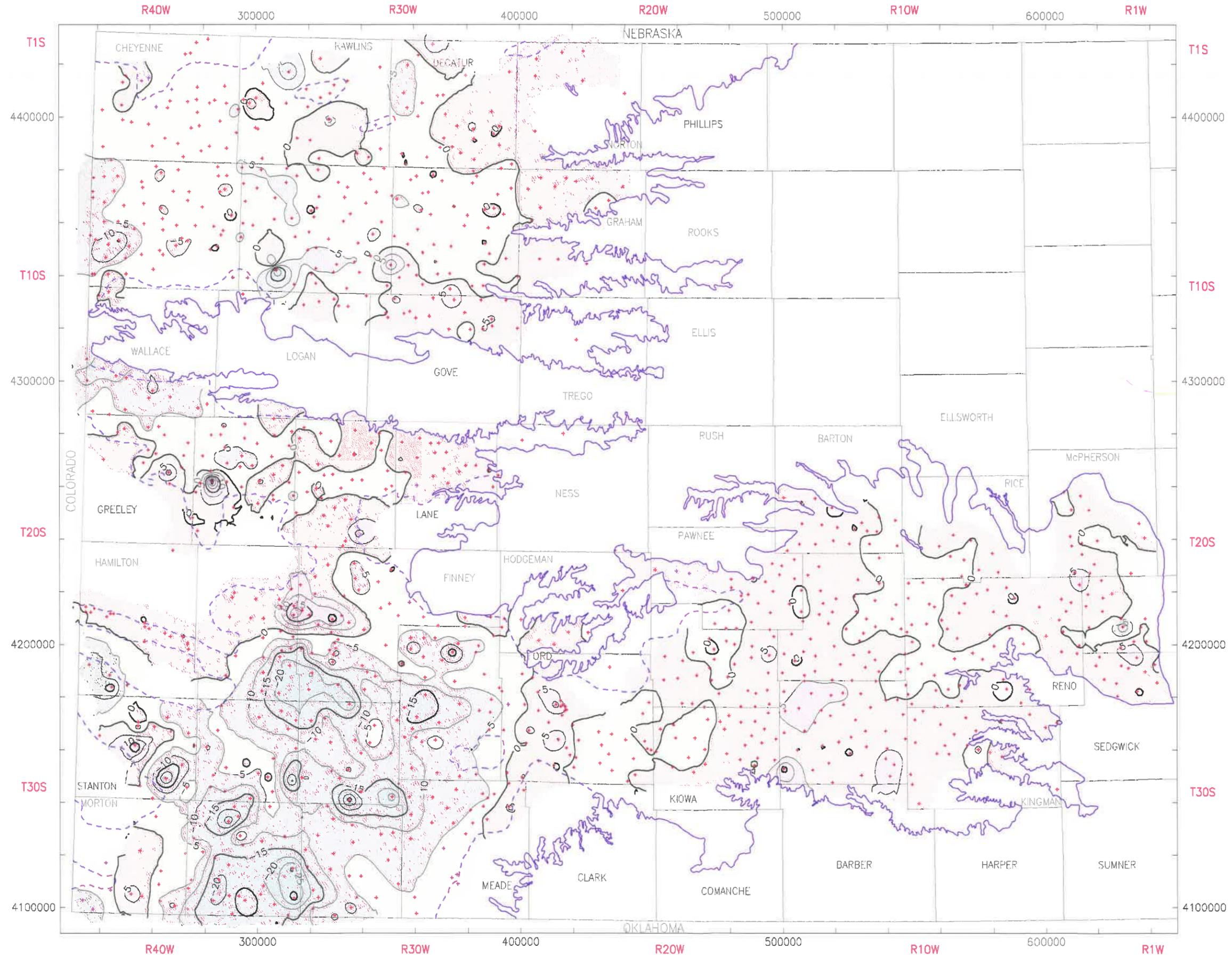
KRIGING STANDARD DEVIATION, DEC. 2000–FEB. 2001



- Geologic boundary
- - - Major aquifer limit
- + Official observation well
- x Provisional observation well

PLATE 4
 Kansas Geological Survey
 OFR 2001-6
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CHANGE IN DEPTH TO WATER OVER THE LAST FIVE YEARS

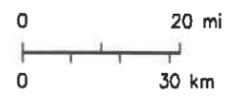
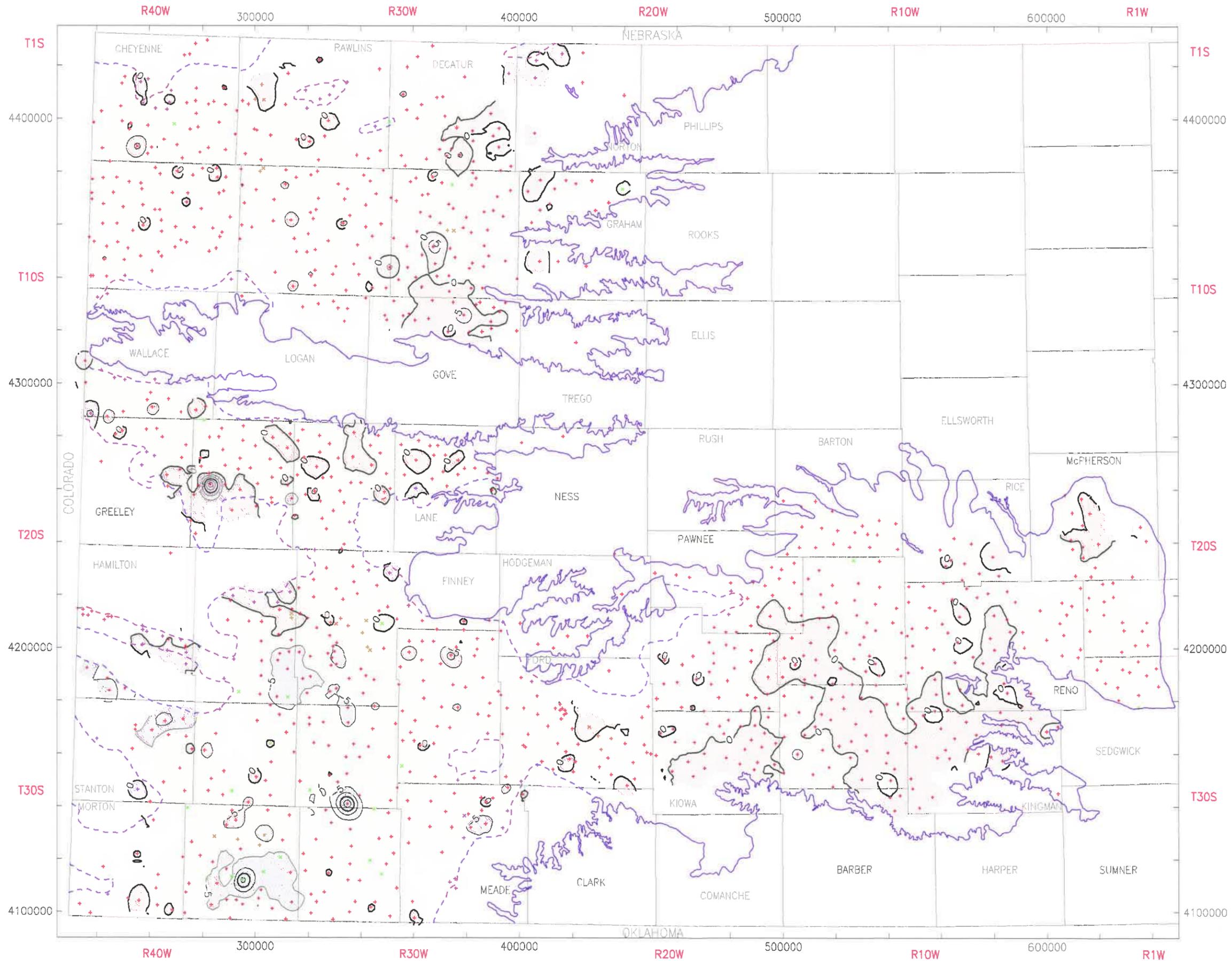


- Geologic boundary
- - - Major aquifer limit
- + Official observation well
- x Provisional observation well

Negative values denote depletion

PLATE 5
Kansas Geological Survey
OFR 2001-6
Olea & Davis

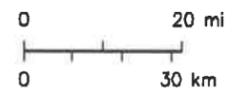
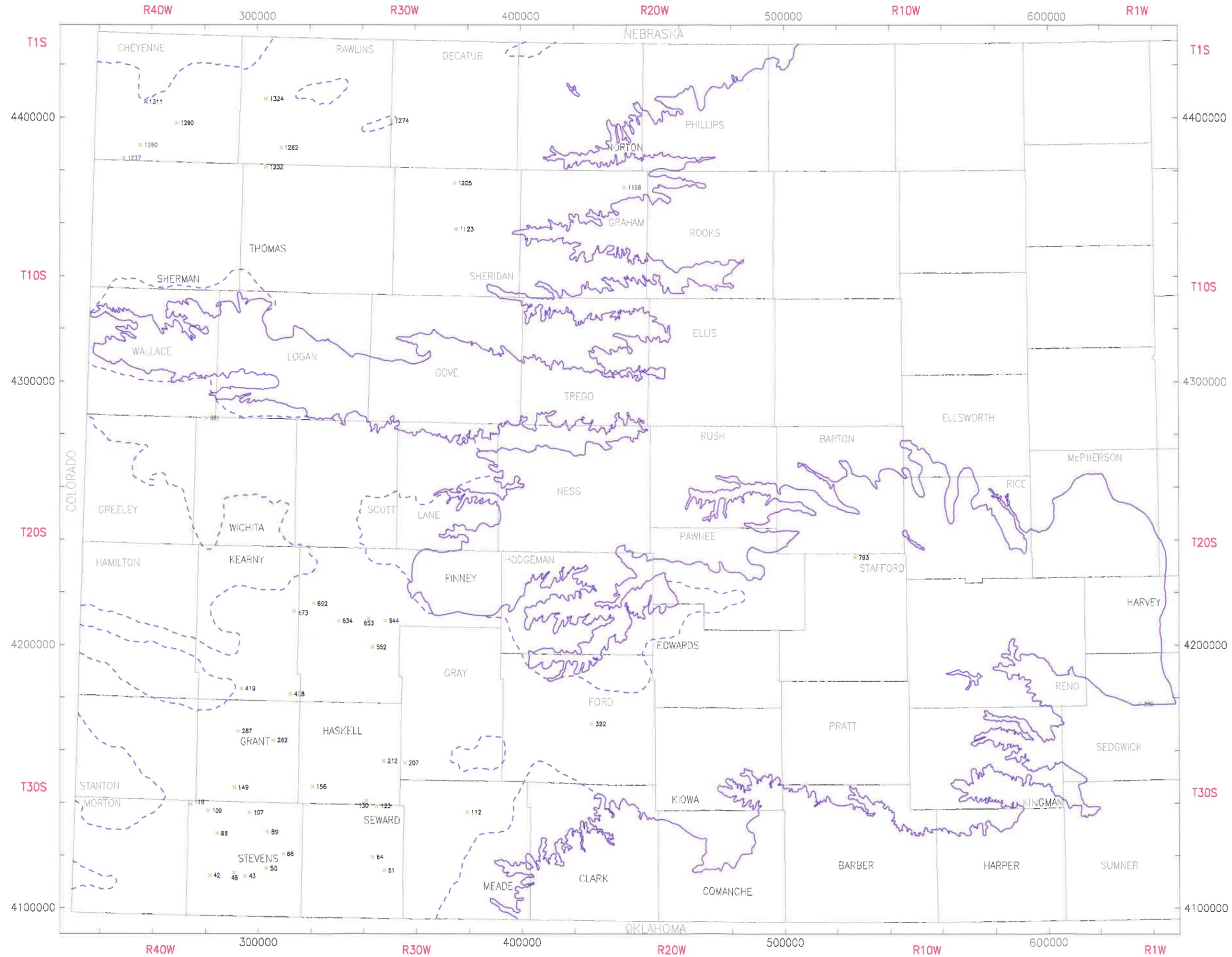
CHANGE IN DEPTH TO WATER OVER THE LAST YEAR



- Geologic boundary
 - - - Major aquifer limit
 - + Official observation well
 - x Provisional observation well
- Negative values denote depletion

PLATE 6
 Kansas Geological Survey
 OFR 2001-6
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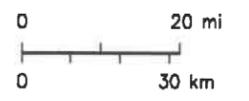
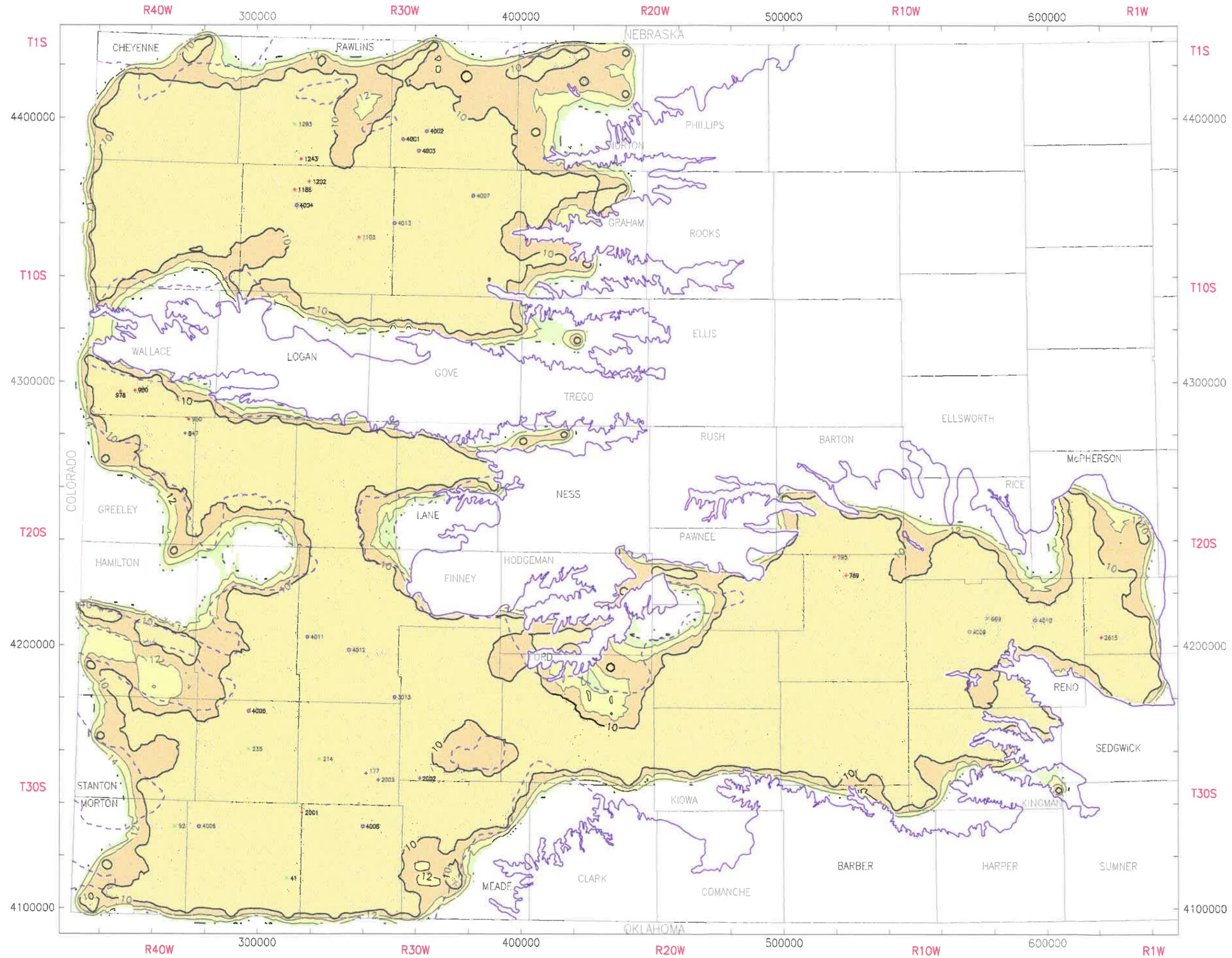
MEASURED PROVISIONAL OBSERVATION WELLS IN AQUIFER, DEC. 2000–FEB. 2001



- Geologic boundary
- - - Major aquifer limit
- x Provisional observation well

PLATE 7
Kansas Geological Survey
OFR 2001-6
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KRIGING STANDARD DEVIATION AFTER PROPOSED NETWORK ENHANCEMENTS



- Geologic boundary
- - - Major aquifer limit
- + Official observation well
- x Provisional observation well
- o Proposed well

PLATE 8
 Kansas Geological Survey
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