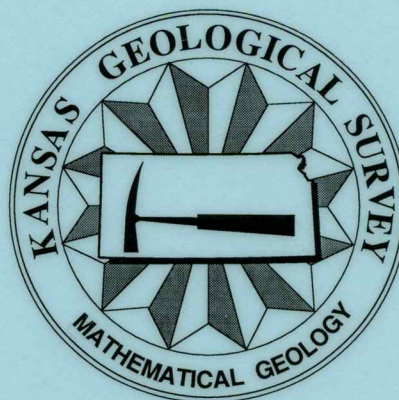


SAMPLING ANALYSIS OF THE ANNUAL OBSERVATION WATER-LEVEL WELLS IN KANSAS

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Sampling Analysis of the Annual Observation Water-level Wells in Kansas

Summary

The Kansas Geological Survey and the Division of Water Resources monitored 1340 observation wells in Kansas early in 1997 as part of the annual water-level measurement program, 92% of them within the geologic boundary of the High Plains aquifer.

Direct mathematical analysis of the sampling, devoid of any geohydrological assumptions, allowed the detection of 4 Division wells in error, presumably due to the wrong surface elevation, and 26 records that are either multiple measurements or wells closer than 150 m to another well. 1076 wells are clearly identified as wells pumping from the High Plains aquifer, but some of the additional 129 wells pumping from alluvium inside the geologic boundary of the High Plains aquifer seem to be located at places where the alluvium is hydraulically connected to the High Plains aquifer. In general the sampling density is uniform, but in a few areas away from the boundary the control is poor. The addition of 39 wells at sites trying to match the surrounding well density will improve the reliability of the estimates that one can obtain from the network.

There are 109 wells sampling various other aquifers, primarily pumping from the Dakota aquifer or Quaternary alluvial systems outside the geologic boundary of the High Plains aquifer. The small sample size and poor sampling pattern of those wells preclude an analysis similar to the one done for the High Plains aquifer.

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SAMPLING ANALYSIS OF THE ANNUAL OBSERVATION WATER-LEVEL WELLS IN KANSAS

INTRODUCTION

Transfer of responsibility from the United States Geological Survey (USGS) to the Kansas Geological Survey (KGS) to measure about 40% of the annual observation water-level wells in Kansas has renewed interest by the Kansas Geological Survey to do the best possible sampling, storage and retrieval work.

Chapter III, Analysis of Spatial Quality Control, in KGS Open-file Report 97-33 (Miller et al., 1997), was a geostatistical cross-validation of the Winter 1997 measurements made by the KGS Exploration Services Section. This report expands the analysis to all of the Winter 1997 measurements, the 541 done by KGS and the 799 made by the Division of Water Resources (DWR). The 1340 records used in this report were obtained from the KGS Exploration Services in November of 1997.

The objective of the study was to detect transcription and data collection errors through the spatial inconsistency of water-table elevations, identify duplicated records and wells in close proximity, examine the consistency in the geologic codes, and determine poorly sampled areas.

PREPARATION OF DATA

Groundwater-level data commonly need some preliminary work before one can display and analyze them. In this particular instance, all well records required the following preliminary care:

1. All observation wells in Kansas have dual identification. One identifier is a code based on latitude and longitude and the other is the legal description of the well location. Unfortunately both are extremely long to post and the legal description is alphanumeric, which poses additional reading problems for some software. The solution was to arbitrarily assign a sequential number to each well. In addition, a code 1 was added to denote wells measured by the KGS Exploration Services and a 2 for those measured by the Division of Water Resources.

2. Location is also redundant as both latitude and longitude and legal description are equivalent ways to indicate the location of a well. Calculation of distances and cartographic display, however, require plane Cartesian

coordinates, which forced the transformation of all latitude and longitude coordinates to UTM coordinates.

3. Water-table elevation is indirectly determined by measuring depth to water at the observation wells. The calculation to bring those depths to elevations requires subtraction of depth to water from surface elevation, which was missing in 20 wells. Appendix E lists the elevations taken from the 7.5 minute quadrangle sheets published by the USGS for all wells without such information.

4. Spatial quality control is based on kriging, which does not tolerate multiple measurements or sites in close proximity. Multiple measurements result in singularity of the kriging system of equations and very close wells make the system of equations ill-conditioned. For all wells not reaching bedrock, Appendix F lists all multiple measurements and wells closer than 150 m to a well in Appendix A. Duplicated USGS identification numbers denote multiple measurements at the same well.

Although from the point of view of sampling efficiency wells in close proximity are an aberration (Olea, 1984), such wells provide interesting hindsight in terms of the complexity of the geology and the quality of the monitoring. In Appendix F, for example, well 297 is coded QA whereas well 296 in Appendix A only 52 m away is coded QU; and for record 708 depth to water is 76.75 ft whereas for record 709 at the same well depth to water is 35.35 ft. The latter case suggests a transcription error in which one of the measurements may have been assigned to the wrong well number. Finally well 443 is the same KGS well measured by DWR too, as it is also the case of wells 436 and 1277 (J. Schloss, 1997, personal communication). The difference in location is explained by the fact that the UTM coordinates of the KGS wells derived from field GPS measurements of latitude and longitude whereas those from DWR wells derive from the legal description on file.

THE HIGH PLAINS AQUIFER PROPER

The main objective of doing the annual survey is to determine annual variations in the water-table elevation of the High Plains aquifer, which one can then employ in water-resources assessment and decision making.

One piece of information on the record of each well is the geologic code. Although many of the wells in the measurement program were originally missing aquifer codes in the data base, the KGS Geohydrology Section has assigned codes to all wells. The codes have been reviewed based on the USGS GWSI data for the KGS measurement sites, and are under review at the present time for the DWR wells. Inspection of such codes reveals great heterogeneity. Some codes clearly indicate that some wells draw water from aquifers other than the High Plains aquifer, most commonly separate alluvial

systems or the Dakota aquifer. Given the main objective of the observation wells, not surprisingly all aquifers other than the High Plains aquifer have too few wells to attempt any sampling analysis. Therefore the analysis in this report revolves around the annual sampling of the High Plains aquifer for the purpose of detecting collection and transcription errors and undersampled areas.

On a first pass, I adopted the same well selection criteria as in OFR 97-33 (Miller et al., 1997). Only wells inside the boundaries of the aquifer with codes undifferentiated Quaternary (QU), Ogallala (TO), or QUTO were selected for the analysis. They are listed in Appendix A and posted in Plate 1. All other wells are in Appendix B and Plate 2. All plates were generated using a Unix version of the Surface III software (Sampson, 1988). Table 1 summarizes the total number of wells suitable for cross-validation after removing duplicates.

Table 1. Classification of wells into QU or TO inside the High Plains aquifer and others

	QUTO	Dupli- cates	Other	Total
KGS	435	1	105	541
DWR	641	18	140	799
Total	1076	19	245	1340

The geologic boundary of the aquifer and the limit of the zone of substantial saturated thickness shown in all the plates were taken directly from the official electronic records kept by the KGS Automated Cartography Section.

Wells 653 and 1293 are in Appendix B despite their TO code because they are outside the geologic boundary of the High Plains aquifer. A similar situation happens with wells 612, 613, 870, and 871 coded QU. Conceivably the codes are wrong or the well may be on remnant QU or TO aquifers disconnected from the High Plains aquifer, which questions the feasibility of the automatic retrieval of the High Plains aquifer wells based on the geologic code in present use.

Cross-validation

Cross-validation is a verification procedure based on kriging that takes advantage of the spatial stochastic continuity of surfaces such as water-table elevation (Miller et al., 1997).

Using the 1076 wells in Appendix A, the optimal semivariogram model for the first degree residuals of the water-table elevation in the High Plains

aquifer is Gaussian with a nugget of 70 sq. ft, sill of 7910 sq. ft and range of 63,636 m.

Cross-validation of the data in Appendix A resulted in the detection of four anomalous DWR wells whose surface elevation is in disagreement with that for the location on the 7.5 minute topographic quadrangle sheets. The water-table elevation in these wells conforms to surrounding data after correcting surface elevations to those in the topographic maps, which indicates that most likely this is the source of the error. It would be safe, however, to do a follow up on the wells in Appendix G to discard alternative sources of error, such as wrong water depth or wrong location.

Reliability

Plate 3 is a rendition of water-table elevation using universal kriging with a polynomial trend of degree 1 and Plate 4 is the corresponding kriging standard deviation or standard error map. The square grids necessary to generate the contouring were generated using the GSLIB software (Deutsch and Journel, 1992) and exported into Surface III. The grids have a spacing of 1 km, 426 by 346 nodes and origin of (225050, 4090060).

The standard error is monotonically related to the reliability of the estimation—the higher the standard error, the more unreliable the estimate. Hence one should try to reduce the standard error as much as possible and sensible. Given the current sampling density, Plate 4 suggests that when the well density is uniform, the standard error remains in single digits. Not considering border effects, the areas in the middle of the major aquifer with poor sampling control are not many, which makes it attractive to try to add a few wells to the network to have less than 10 ft of kriging standard deviation in all areas away from the limit of the zone of substantial saturated thickness.

Plate 5 shows the improvement that the kriging standard deviation associated to the estimation of the water table would have by the addition of 3% more wells at the locations suggested in Appendix H. Stability of the expansion to changes in the exact location of the new observation wells is fairly high (Olea, 1984). In fact, any well inside a square with sides of 9000 m or a hexagon with the same area centered at the locations in Appendix H should have comparable effects in reducing the standard error.

THE ALLUVIAL AQUIFERS

Table 1 and Plate 2 indicate that there are 245 observation wells or 18.5% of the survey not used in the preparation of Plates 3 and 4. The suggestion has also been made to add 39 wells to the network. Under such circumstances, a legitimate question to ask is whether some of the 245 discarded wells may significantly contribute to improvement of the reliability in the estimation of

the water-table elevation in the High Plains aquifer, particularly addition of those wells coded as Quaternary alluvium (QA), which may indeed be part of the High Plains aquifer.

In the opinion of Don Whittemore, Section Chief of the KGS Geohydrology Section, there is not a detailed understanding in many areas about the relationship between the water table of alluvial aquifers and the High Plains aquifer (1997, personal communication).

Sampling expansion

A second series of maps was prepared to help to understand the relationship between the alluvial aquifers and the High Plains aquifer. For that purpose, all wells inside the boundaries of the High Plains aquifer coded QA were added to the QU or TO data set used to prepare Plates 3 and 4. Plate 6 is a posting of the wells and Table 2 summarizes the results.

Table 2. Classification of wells into QU, TO, or QA inside the High Plains aquifer and others, primarily wells outside the geologic boundary of the aquifer or reaching bedrock

	QU	TO	QA	Dupli- cates	Other	Total
KGS	492			2	47	541
DWR	713			24	62	799
Total	1205			26	109	1340

Expanded network

Plates 8 through 10 display the results of the network expansion to 1205 wells. Plate 10 facilitates the analysis by mapping the differences between the two kriging estimates of the water table, one obtained employing only the 1076 QU or TO wells and the other employing the expanded network.

According to the results in Plate 10, there are several alluvial wells in the yellow area denoting discrepancies of less than 10 ft. Such discrepancies are below one kriging standard deviation, an insignificant difference in water-table elevation relative to the reliability of the maps. According to this strictly numerical comparison requiring no geohydrological assumptions, there are several QA wells that are either wrongly coded or in places where the water table in the alluvium coincides with that of the High Plains aquifer, especially toward the east. In particular, if wells 702, 1062 and 1063 are indeed pumping from the High Plains aquifer, they are ideally located to lower the standard error above 10 ft shown in Plate 4 in the south Equus Beds. These wells are, however, the only ones close enough to the centroids in Appendix H.

In other regions, particularly toward the north, addition of the QA wells makes a significant difference, especially in the northwest where the predominance in negative values indicates that the water table along the river valleys is below the one predicted for the High Plains solely based on the QU or TO wells, which is unfeasible because the elevation for the High Plains aquifer cannot be above the water table in the alluvial valleys.

The results in Plate 10 are only one more criterion which should be supplemented with geological and hydrological information before deciding which QA wells are actually measuring the High Plains water-table elevation.

MISCELLANEOUS WELLS

Wells posted in Plate 7—amounting to 8% of all the observation wells—are either outside the boundaries of the High Plains aquifer or reach bedrock. Some of these wells may require reconsideration for the need to be annually measured. Another concern is the relevance of water-table measurements in observation wells screened in more than one aquifer.

The number of wells pumping from the Dakota aquifer is statistically insufficient. The low number of wells is compounded by the poor areal distribution. Serious annual surveying of the water table in the Dakota aquifer requires at the very least an improvement in the sampling pattern and perhaps in its density too.

Storage of all the water-table measurements as a single data set is fairly confusing, especially if the geohydrologists agree that some wells coded QA are indeed measuring the water-table elevation in the High Plains aquifer. It would be a good practice to code the observation wells by aquifer or, at the very least, to code the High Plains aquifer network wells differently from the rest of the other wells so that the network information can be readily retrieved without having to go into any manual screening and discarding of records as is the case now.

CONCLUSIONS AND RECOMMENDATIONS

Without making geohydrological assumptions, one can draw several objective conclusions and recommendations that follow from the mere direct inspection and analysis of the water-level observation records:

1. The observation wells can be classified into four categories: 1076 wells clearly measuring fluctuations in the High Plains water-table elevation, 129 alluvial wells inside the geologic boundary of the High Plains aquifer, 109 wells either outside the boundaries of the High Plains aquifer or reaching bedrock, and 26 records of multiple measurements or wells within 150 m of the other 1314 wells.

2. The 1076 wells clearly pumping from the High Plains aquifer make a fairly reliable network for the purpose of estimating spatiotemporal fluctuations of water table away from the boundaries.
3. Cross-validation of the network data detected errors in the records of four wells measured by the Division of Water Resources.
4. Six DWR wells outside the geologic boundary of the High Plains aquifer have codes TO or QU.
5. Addition of 39 wells will upgrade the network by keeping the kriging standard deviation below 10 ft at all locations inside the saturated zone.
6. Some of the 129 wells pumping from alluvium are measuring water tables that are comparable with the one estimated from the 1076 true High Plains aquifer wells, suggesting that after closer scrutiny by the geohydrologists some of them that are not part of the High Plains aquifer network now may be properly incorporated into the network.
7. The purpose of continuing to measure those 109 wells that clearly cannot be incorporated into the High Plains aquifer network should be reassessed.
8. Use of the observation wells will be greatly facilitated by making some changes in the data storage:
 - (a) The present geologic code does not allow automatic retrieval of the High Plains observation wells, which makes a revision highly desirable.
 - (b) UTM coordinates should be part of the well record.
 - (c) Wells should have a short numerical label, such as a sequential number, significantly shorter than any of the other identifiers in present use.

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APPENDIX A
HIGH PLAINS AQUIFER WELLS
WITH CODES QU OR TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
1 1	370012101070901	35S 35W 15BCC 01	311425.03	4097126.	2978.	2847.3	130.7	QUTO
2 1	370014101211601	35S 37W 16BCC 01	290315.53	4097631.25	3138.	2985.86	152.14	TO
3 1	370023100550801	35S 33W 16BCA 01	329360.94	4097034.25	2838.	2698.54	139.46	QUTO
5 1	370057101324601	35S 39W 10CAD 01	273433.56	4099432.	3302.	3086.01	215.99	QUTO
6 1	370123100402401	35S 31W 10AAC 01	351099.47	4098308.5	2690.	2494.45	195.55	TO
7 1	370128101004001	35S 34W 10BBB 01	320997.16	4099312.75	2912.	2820.19	91.81	QUTO
8 1	370157100505901	35S 32W 06CBB 01	335477.88	4099814.25	2780.	2606.4	173.6	TO
9 1	370218101103301	35S 36W 01AAA 01	306419.31	4101018.75	3022.	2874.74	147.26	QUTO
10 1	370246101261701	34S 38W 34CAA 01	283184.97	4102613.25	3194.	3010.54	183.46	TO
11 1	370301100454001	34S 32W 35ADA 01	343483.97	4101786.75	2734.	2536.98	197.02	QUTO
12 1	370304101180901	34S 37W 35AAD 01	295289.19	4102764.	3111.	2967.81	143.19	TO
13 1	370352101055301	34S 35W 26ACC 01	313731.75	4103565.5	2977.	2824.33	152.67	TO
14 1	370355100592301	34S 34W 26BCA 01	323100.34	4103701.75	2908.	2779.44	128.56	QUTO
15 1	370356101193902	34S 37W 27ABC 02	292916.41	4104488.5	3132.	2990.67	141.33	TO
16 1	370356101221301	34S 37W 29BBD 01	289285.59	4104501.5	3170.	3004.57	165.43	TO
17 1	370407100442701	34S 31W 30BBB 01	345217.53	4103610.5	2731.	2514.38	216.62	TO
18 1	370407100492901	34S 32W 29BAA 01	337720.84	4103837.5	2765.	2587.93	177.07	TO
19 1	370422101140501	34S 36W 21DBD 01	301370.03	4105002.75	3079.	2889.42	189.58	TO
20 1	370423100344401	34S 30W 22CBC 01	359618.44	4103851.75	2675.	2469.24	205.76	TO
21 1	370517101324601	34S 39W 15CAD 01	273767.75	4107292.5	3280.	3136.8	143.2	QUTO
22 1	370523101004901	34S 34W 16DAA 01	321110.66	4106499.75	2943.	2790.15	152.85	QUTO
23 1	370602100572601	34S 33W 07CCB 01	326058.16	4107529.25	2901.	2753.76	147.24	QUTO
24 1	370604101132901	34S 36W 10CAC 01	302249.59	4108216.	3065.	2884.58	180.42	TO
25 1	370607101213201	34S 37W 08DAC 01	290177.38	4108561.	3162.	3015.11	146.89	QUTO
26 1	370655101315801	34S 39W 02CCA 01	274959.69	4110474.25	3248.	3143.63	104.37	QUTO
27 1	370706100384201	34S 31W 01CAA 01	353707.53	4108901.25	2720.	2503.06	216.94	TO
28 1	370712100232201	34S 28W 05BDA 01	375989.47	4108924.	2350.	2323.21	26.79	QU
29 1	370714101244701	34S 38W 02ADC 01	285410.03	4110642.75	3171.	3002.52	168.48	TO
30 1	370819100250601	33S 29W 36AAB 01	373851.12	4111056.	2463.	2373.93	89.07	QUTO
31 1	370833100482402	33S 32W 28CDD 02	339463.19	4111844.25	2630.	2569.07	60.93	QUTO
32 1	370842100515101	33S 33W 25DCC 01	334924.53	4111991.75	2810.	2602.13	207.87	TO
33 1	370857100234601	33S 28W 29BCB 01	375794.69	4112270.	2371.3	2355.16	16.14	TO
34 1	370931101280201	33S 38W 20DDB 01	280806.44	4115182.5	3191.	3029.64	161.36	TO
35 1	370958101055501	33S 35W 23CBB 01	313231.06	4114786.	2968.	2803.72	164.28	TO
36 1	371000100561001	33S 33W 20BCC 01	327682.12	4114592.25	2866.	2654.75	211.25	TO
37 1	371015101222101	33S 37W 17CCC 01	289167.47	4116193.75	3124.	2997.11	126.89	QUTO
38 1	371026101020701	33S 34W 17DCC 01	318880.25	4115545.	2918.	2775.57	142.43	TO
39 1	371135101260901	33S 38W 10ACC 01	283912.88	4118835.5	3166.	3002.67	163.33	QUTO
40 1	371148100510701	33S 33W 12AAD 01	335764.12	4118051.	2626.	2596.26	29.74	QUTO
41 1	371154100412801	33S 31W 09AAB 01	349663.12	4118076.5	2766.	2547.64	218.36	TO
42 1	371246101290701	33S 38W 06AAB 01	279283.22	4121138.5	3203.	3106.85	96.15	QUTO
43 1	371306100554201	32S 33W 32DBD 01	328950.91	4120521.25	2830.	2654.69	175.31	QUTO
44 1	371339101025301	32S 34W 32BBB 01	318173.59	4121916.25	2921.	2727.12	193.88	QUTO
45 1	371403100394301	32S 31W 26CAA 01	352491.72	4122083.75	2783.	2547.55	235.45	QUTO
46 1	371420101185501	32S 37W 26BAC 01	294565.97	4123666.5	3118.	2985.44	132.56	TO
47 1	371425100272002	32S 29W 27AAB 02	370766.69	4122452.75	2688.	2529.22	158.78	QUTO
48 1	371516101135901	32S 36W 21AAC 01	301772.91	4125113.	3067.	2866.57	200.43	TO
49 1	371524100504201	32S 32W 19BAB 01	336301.5	4124764.75	2854.	2619.21	234.79	QUTO
50 1	371530101320601	32S 39W 14DDD 01	276081.25	4126309.25	3202.	3129.77	72.23	QUTO
51 1	371615100463701	32S 32W 14BBB 01	342221.56	4126236.	2830.	2583.46	246.54	QUTO
52 1	371618100354701	32S 30W 09CCC 01	358255.94	4126172.75	2764.	2546.08	217.92	QUTO
53 1	371621101082601	32S 35W 08DDD 01	310245.97	4126973.25	3012.	2823.74	188.26	QUTO
54 1	371621101194001	32S 37W 10DCC 01	293520.97	4127354.75	3120.	2940.35	179.65	QUTO
55 1	371641100594601	32S 34W 10DAA 01	322954.	4127423.5	2925.4	2677.12	248.28	QUTO
56 1	371654101244001	32S 38W 11ADA 01	286112.59	4128743.	3159.	3014.83	144.17	QUTO
57 1	371706100432201	32S 31W 08BBB 01	346989.34	4127799.25	2815.	2581.94	233.06	QUTO
58 1	371732100214701	32S 28W 04ADD 01	379105.84	4127978.	2546.	2468.2	77.8	QUTO
59 1	371733100402001	32S 31W 03DAA 01	351590.88	4128488.	2787.	2565.13	221.87	QUTO
60 1	371852100505801	31S 32W 31BBB 01	336041.12	4131209.5	2864.	2625.97	238.03	TO
61 1	371904101223801	31S 37W 30DDB 01	289074.91	4132750.5	3138.	2879.09	258.91	TO
62 1	371931100115501	31S 26W 30BBB 01	393736.97	4131802.25	2516.	2407.99	108.01	QUTO
63 1	371936100200301	31S 28W 26ABB 01	381789.72	4132084.25	2496.	2449.24	46.76	QUTO
64 1	371938100250102	31S 29W 25AAA 02	374430.09	4132071.75	2698.	2502.89	195.11	QUTO
65 1	371938100302901	31S 29W 30AAA 01	366342.	4132277.75	2741.	2552.77	188.23	QUTO
66 1	372010100555101	31S 33W 20DBB 01	328919.59	4133680.75	2897.	2666.9	230.1	QUTO
67 1	372016101201201	31S 37W 22BCC 01	292780.78	4134592.25	3096.	2837.5	258.5	QUTO
68 1	372026100162402	31S 27W 20AAA 02	387238.56	4133462.75	2466.	2430.5	35.5	QUTO
69 1	372036101320601	31S 39W 23BBB 01	275397.56	4135758.25	3199.	3012.71	186.29	QUTO
70 1	372117100354701	31S 30W 16BBC 01	358571.38	4135348.75	2770.	2549.65	220.35	QUTO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
71 1	372128101035901	31S 34W 18BBB 01	316846.97	4136315.5	2951.	2700.56	250.44	QUTO
72 1	372128101065001	31S 35W 15BAA 01	312835.97	4136575.25	3009.	2703.44	305.56	QUTO
73 1	372200100214001	31S 28W 10BCB 01	379370.81	4136406.5	2643.	2461.5	181.5	QUTO
74 1	372214101211701	31S 37W 09BBC 01	291217.44	4138323.	3103.	2850.03	252.97	TO
75 1	372220100203501	31S 28W 02CCC 01	380950.16	4136984.25	2623.	2482.84	140.16	QUTO
76 1	372227101121501	31S 36W 02CDD 01	304726.12	4138357.	3019.	2827.18	191.82	QUTO
77 1	372240100572101	31S 33W 06CBD 01	326781.91	4138472.25	2948.	2680.18	267.82	QUTO
78 1	372241100263201	31S 29W 02DBB 01	372213.22	4137831.25	2720.	2532.63	187.37	QUTO
79 1	372304100104601	30S 26W 32DDD 01	395531.06	4138333.	2488.	2467.56	20.44	QUTO
80 1	372307100171401	30S 27W 32DDD 01	385902.28	4138468.75	2475.	2468.85	6.15	QU
81 1	372359100224701	30S 28W 33AAA 01	377873.94	4140144.75	2646.	2506.57	139.43	QUTO
82 1	37245100515601	30S 32W 31BAB 01	334905.81	4140915.25	2906.	2617.81	288.19	QUTO
83 1	372436101042002	30S 34W 30ADD 02	316654.91	4142285.5	2843.	2709.96	133.04	QUTO
84 1	372446100160201	30S 27W 27BBB 01	387573.5	4141620.	2518.	2480.95	37.05	QUTO
85 1	372454100361701	30S 30W 28ABB 01	357823.31	4142028.	2803.	2587.73	215.27	QUTO
86 1	372454100404001	30S 31W 26ABB 01	351351.28	4142094.25	2834.	2593.74	204.26	TO
87 1	372455100301701	30S 29W 28BBB 01	366678.56	4141883.25	2758.	2556.04	201.96	QUTO
88 1	372539100142501	30S 27W 23ABB 01	389992.03	4143027.75	2531.	2472.48	58.52	QUTO
89 1	372539100171401	30S 27W 20ABA 01	385636.59	4143284.	2564.	2485.04	78.96	QUTO
90 1	372549100485501	30S 32W 22BBB 01	339352.81	4144046.	2876.	2588.22	287.78	TO
91 1	372628100064701	30S 26W 13ABB 01	401281.22	4144621.75	2575.	2504.42	70.58	QUTO
92 1	372638100241701	30S 28W 17ABB 01	375581.69	4144781.	2697.	2529.57	167.43	QUTO
93 1	372740100390101	30S 30W 06CCC 01	353854.53	4147070.	2824.6	2595.81	228.79	QUTO
94 1	372746100103701	30S 26W 04CBB 01	395669.66	4147138.	2525.	2455.96	69.04	QUTO
95 1	372825101041201	30S 34W 05BBB 01	316920.69	4149398.75	3006.	2680.83	325.17	QUTO
96 1	372833100543001	29S 33W 34DDD 01	331274.75	4149077.5	2950.	2601.81	348.19	TO
97 1	372841099401201	29S 22W 36ACA 01	440779.78	4147896.	2445.	2306.14	138.86	QU
98 1	372855100335801	29S 30W 35ACD 01	361555.47	4149299.25	2805.	2576.58	228.42	QUTO
99 1	372906100072001	29S 26W 36BBB 01	400720.72	4149412.	2532.	2497.25	34.75	TO
100 1	372922100232701	29S 28W 28CDC 01	376944.03	4149850.75	2688.	2542.45	145.55	TO
101 1	372942100192201	29S 27W 30BCC 01	383145.59	4150575.75	2655.	2500.61	154.39	QUTO
102 1	372957100110901	29S 26W 29ABB 01	394886.75	4151190.5	2558.	2451.07	106.93	QUTO
103 1	372957100291101	29S 29W 27BCB 01	368486.88	4151183.25	2739.	2580.1	158.9	QUTO
104 1	372958100563301	29S 33W 28BCB 01	328229.84	4151821.5	2963.	2627.1	335.9	QUTO
105 1	373005099381801	29S 21W 20CAD 01	443515.06	4150435.25	2445.	2308.89	136.11	QU
106 1	373018100521101	29S 32W 19CCC 01	334681.53	4152246.	2923.4	2597.73	325.67	QUTO
107 1	373054099441601	29S 22W 17DAD 01	434761.84	4152081.5	2475.	2342.6	132.4	TO
108 1	373054100354401	29S 30W 22BBC 01	358820.25	4152901.75	2816.	2593.67	222.33	QUTO
109 1	373127099540701	29S 24W 13BCA 01	420294.56	4153225.	2530.	2412.19	117.81	QUTO
110 1	373131099591001	29S 24W 18BAA 01	412691.72	4154001.5	2610.	2448.22	161.78	TO
111 1	373218100432101	29S 31W 09CB 01	347614.53	4155870.5	2871.	2616.93	254.07	QUTO
112 1	373223099472101	29S 23W 12BAC 01	430253.62	4154832.75	2545.	2361.56	183.44	QUTO
113 1	373231100025401	29S 25W 10BBB 01	407100.34	4155676.5	2617.	2449.11	167.89	QUTO
114 1	373247100283801	29S 29W 10ABB 01	369382.16	4156422.75	2745.	2611.37	133.63	TO
115 1	373309099384901	29S 21W 05BBB 01	443034.84	4156625.75	2418.	2314.47	103.53	TO
116 1	373310100015601	29S 25W 03ADA 01	408606.	4157001.5	2630.	2441.44	188.56	TO
117 1	373318099532701	29S 24W 01ABA 01	421092.91	4156918.75	2560.	2410.19	149.81	TO
118 1	373340100490201	29S 32W 04AAA 01	339533.47	4158509.	2914.	2624.53	289.47	TO
119 1	373340100522701	29S 33W 01AAB 01	334349.34	4158660.75	2946.	2582.86	363.14	QUTO
120 1	373352100411301	28S 31W 35CCB 01	350872.41	4158621.25	2863.	2624.04	238.96	QUTO
121 1	373358099550801	28S 24W 35CAB 01	418867.09	4157908.75	2528.	2419.38	108.62	QUTO
122 1	373404099445801	28S 22W 32BAB 01	433552.81	4158313.	2485.	2357.81	127.19	TO
123 1	373417101290201	28S 38W 33BDB 01	280679.47	4161005.	3125.	2892.7	232.3	TO
124 1	373426101055101	28S 35W 36ABC 01	314599.16	4160402.75	3032.	2693.88	338.12	QUTO
125 1	373510099335801	28S 21W 25ABB 01	449992.75	4159840.75	2365.	2290.5	74.5	QU
126 1	373513099350001	28S 21W 23DBC 01	448486.94	4160346.	2370.	2289.66	80.34	TO
127 1	373528099553501	28S 24W 22CDA 01	417492.97	4160674.25	2500.	2386.79	113.21	QUTO
128 1	373556100464201	28S 32W 24BCC 01	342933.91	4162600.5	2910.	2672.37	237.63	QUTO
129 1	373601100061301	28S 25W 19BBB 01	402370.62	4162467.5	2635.	2481.04	153.96	TO
130 1	373602099470101	28S 23W 24ABB 01	430843.	4161571.75	2465.	2367.	98.	QUTO
131 1	373607100565301	28S 33W 20ACD 01	327904.84	4162893.	2975.	2595.37	379.63	TO
132 1	373614100331601	28S 30W 24BAB 01	362606.56	4163019.	2804.	2620.45	183.55	QUTO
133 1	373624100503901	28S 32W 17CDD 01	337237.03	4163512.	2950.	2622.62	327.38	TO
134 1	373632100065401	28S 26W 13CAA 01	401492.41	4163098.	2635.	2487.32	147.68	QUTO
135 1	373632101004301	28S 34W 14CCC 01	322281.09	4163957.75	3015.	2630.22	384.78	TO
136 1	373644099354101	28S 21W 10DDD 01	447541.25	4163226.5	2349.	2301.53	47.47	QU
137 1	373651100294301	28S 29W 16ACC 01	367854.75	4163758.25	2799.	2626.92	172.08	QUTO
138 1	373652099575901	28S 24W 08DCC 01	414425.78	4163736.5	2578.	2430.06	147.94	QUTO
139 1	373659099404301	28S 22W 12CAC 01	440009.09	4163720.25	2405.	2339.48	65.52	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
140 1	373701101175001	28S 36W 18ABC 01	297059.06	4165686.5	3050.	2800.	250.	TO
141 1	373702099525701	28S 23W 18BAB 01	422077.12	4163471.25	2547.	2404.01	142.99	QUTO
142 1	373709100374701	28S 30W 17BBA 01	356217.22	4164723.5	2817.	2627.44	189.56	TO
143 1	373714100344601	28S 30W 10DDD 01	360409.75	4164700.5	2814.	2627.09	186.91	QUTO
144 1	373748101260301	28S 38W 12BCB 01	285090.66	4167381.25	3087.	2875.68	211.32	TO
146 1	373828101080401	28S 35W 03DBB 01	311817.78	4167890.	3079.	2772.4	306.6	TO
147 1	373831099473901	27S 23W 36CCC 01	429762.91	4166761.	2428.	2378.38	49.62	TO
148 1	373838100053901	28S 25W 06ABB 01	403262.38	4167250.25	2643.	2486.58	156.42	QUTO
149 1	373841100115601	28S 26W 06ABB 01	393664.91	4167459.	2685.	2510.82	174.18	TO
150 1	373848100155901	28S 27W 03BBB 01	388029.75	4167517.	2755.	2560.06	194.94	QUTO
151 1	373853101203604	28S 37W 02BBB 04	293115.09	4169173.	3072.	2812.98	259.02	TO
152 1	373900100354401	27S 30W 34CCC 01	359044.88	4167929.	2807.	2631.92	175.08	QUTO
153 1	373929100453601	27S 31W 31BCC 01	344664.28	4169171.	2895.	2658.42	236.58	QUTO
154 1	373950099541801	27S 24W 26DAA 01	419929.62	4169318.	2512.	2414.39	97.61	TO
155 1	374001100254501	27S 28W 30CCA 01	373941.59	4169708.5	2738.	2606.26	131.74	QUTO
156 1	374011101020902	27S 34W 28DAA 02	320507.84	4170957.75	3042.	2760.55	281.45	TO
157 1	374013101060801	27S 35W 25BDC 01	314596.31	4171167.	3046.	2779.12	266.88	TO
158 1	374014100284601	27S 29W 27CAA 01	369176.56	4170205.	2760.	2625.15	134.85	QUTO
159 1	374040100004601	27S 25W 25BBB 01	410666.25	4170359.5	2574.	2448.58	125.42	TO
160 1	374044100395001	27S 31W 24CCD 01	353365.56	4171196.5	2816.	2635.61	180.39	QUTO
161 1	374046100520101	27S 32W 19CCD 01	335218.66	4171674.	2906.	2666.18	239.82	QUTO
162 1	374046100582701	27S 33W 19CDC 01	325930.12	4171815.25	3010.	2733.24	276.76	TO
163 1	374047101153401	27S 36W 21DCC 01	300920.28	4172293.	3132.	2824.82	307.18	QUTO
165 1	374100101270501	27S 38W 23CBB 01	283645.88	4173375.	3105.	2933.73	171.27	QUTO
166 1	374110101222301	27S 37W 21BDD 01	290719.69	4173400.5	3058.	2843.41	214.59	TO
167 1	374125100344101	27S 30W 23BBC 01	360705.97	4172407.75	2775.	2633.85	141.15	QUTO
168 1	374136101020902	27S 34W 16DDD 02	320533.22	4173519.5	2995.	2767.93	227.07	TO
169 1	374146099571101	27S 24W 16BDB 01	415822.81	4173032.75	2515.	2431.71	83.29	TO
170 1	374203101095101	27S 35W 17ADD 01	309240.06	4174634.25	3086.	2803.31	282.69	QUTO
172 1	374215101222301	27S 37W 16AAD 01	291490.38	4175418.25	3075.	2843.36	231.64	TO
174 1	374231100154201	27S 27W 10CDB 01	388508.28	4174143.	2712.	2552.24	159.76	QUTO
175 1	374245099563001	27S 24W 09AAD 01	416910.06	4174793.75	2448.	2422.28	25.72	TO
176 1	374251100182601	27S 27W 07ADC 01	384515.69	4174936.25	2686.	2568.72	117.28	QUTO
177 1	374255101251501	27S 38W 12ADC 01	286599.59	4176727.25	3076.	2868.14	207.86	QUTO
178 1	374258099555701	27S 24W 03CDD 01	417508.31	4175035.25	2445.	2428.28	16.72	TO
179 1	374304100032201	27S 25W 09ACA 01	406903.69	4174854.	2546.	2470.26	75.74	TO
180 1	374317100375501	27S 30W 08BBB 01	355998.41	4176012.25	2790.	2652.15	137.85	QUTO
181 1	374337099561401	27S 24W 03BBD 01	417158.56	4176370.5	2455.2	2421.12	34.08	TO
182 1	374337099572801	27S 24W 04BBC 01	415418.62	4176386.75	2453.	2430.49	22.51	TO
183 1	374342100485201	27S 32W 03CBB 01	339938.59	4177094.25	2872.	2693.35	178.65	TO
184 1	374343100520801	27S 32W 06CBB 01	335135.59	4177287.75	2905.	2707.78	197.22	QUTO
185 1	374356099584201	26S 24W 31DDA 01	413561.44	4177020.75	2463.3	2447.83	15.47	TO
186 1	374357099570301	26S 24W 33CDA 01	416124.66	4176985.25	2466.4	2432.07	34.33	TO
187 1	374403100110601	26S 26W 32DCC 01	395321.94	4177097.75	2616.	2515.46	100.54	QUTO
188 1	374403100132401	27S 27W 01BAA 01	392136.97	4177108.	2631.	2527.62	103.38	TO
189 1	374404100064401	26S 26W 36DCC 01	401771.81	4177079.5	2543.	2492.24	50.76	TO
190 1	374406101221501	27S 37W 04ABB 01	290943.53	4179019.	3080.	2884.9	195.1	QUTO
191 1	374411100235101	27S 28W 05AAA 01	376899.81	4177341.25	2707.	2589.01	117.99	QUTO
192 1	374417100280401	26S 29W 35CCC 01	370701.91	4177521.5	2742.	2605.65	136.35	QUTO
193 1	374417100451901	26S 31W 31CDC 01	345363.19	4177870.25	2841.	2673.53	167.47	QUTO
194 1	374421101490901	26S 41W 32DDB 01	251471.06	4180674.75	3355.	3181.03	173.97	TO
195 1	374434099343001	26S 21W 25CCC 01	449085.22	4177847.75	2270.	2265.45	4.55	QU
196 1	374442099573601	26S 24W 29DDD 01	415371.5	4178543.	2575.	2424.11	150.89	TO
197 1	374502100153401	26S 27W 27CDD 01	388937.84	4179067.75	2612.	2539.88	72.12	QUTO
200 1	374544101103701	26S 35W 29BBD 01	308258.44	4181390.5	3045.	2829.97	215.03	TO
201 1	374557100323401	26S 30W 24DDD 01	364093.19	4180803.25	2754.	2636.73	117.27	QUTO
202 1	374559101534602	26S 42W 22DCC 02	244870.95	4183732.25	3415.	3215.95	199.05	TO
203 1	374606101145401	26S 36W 22CCA 01	301972.75	4182361.	3090.	2880.16	209.84	TO
204 1	374638101025601	26S 34W 21BBD 01	319570.06	4182835.75	2955.	2779.31	175.69	TO
205 1	374638101495001	26S 41W 20BCD 01	250753.23	4184441.75	3317.	3270.62	46.38	QUTO
206 1	374645100481901	26S 32W 22ABB 01	340890.09	4182789.25	2899.	2733.72	165.28	QUTO
207 1	374649100035201	26S 25W 16DCC 01	406762.06	4181774.25	2619.	2472.48	146.52	QUTO
209 1	374701100565001	26S 33W 17DBD 01	328422.31	4183430.5	2900.	2749.81	150.19	TO
212 1	374746100132901	26S 27W 12CDD 01	392148.38	4183576.25	2590.	2552.08	37.92	QUTO
213 1	374747100552101	26S 33W 10CCD 01	330742.56	4184597.75	2890.	2743.73	146.27	TO
214 1	374826101541402	26S 42W 10BB 02	244160.47	4188362.25	3405.	3268.41	136.59	QUTO
215 1	374840100391301	26S 31W 01DDA 01	354509.28	4186143.25	2811.	2681.11	129.89	QUTO
217 1	374902101122201	26S 36W 01DBB 01	305741.66	4187419.25	3010.	2882.7	127.3	QUTO
218 1	374905101032801	26S 34W 05ADC 01	318047.75	4188266.	2960.	2797.21	162.79	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
219 1	374917101242701	26S 37W 06ACB 01	288262.47	4188255.5	3092.	3066.18	25.82	QUTO
220 1	374924100325901	26S 30W 01ABC 01	363914.28	4187380.25	2740.	2661.46	78.54	QUTO
221 1	374929099481601	26S 23W 02ABB 01	429237.19	4186353.75	2451.	2372.34	78.66	TO
222 1	374931100453501	26S 31W 06BBB 01	345041.5	4187894.75	2832.	2717.76	114.24	QUTO
224 1	374948100045601	25S 25W 32DAD 01	404706.5	4187283.75	2593.	2518.48	74.52	QUTO
225 1	374948100515802	25S 32W 31DDC 01	335556.	4188360.75	2871.	2731.92	139.08	QUTO
226 1	374951101144601	25S 36W 35CCA 01	302446.59	4189347.75	3025.	2897.85	127.15	QUTO
227 1	374955100565401	25S 33W 33CDA 01	328252.47	4188880.25	2915.	2757.87	157.13	QUTO
228 1	375002101020401	25S 34W 34DBD 01	320940.56	4189026.	2945.	2783.39	161.61	QUTO
229 1	375018100171901	25S 27W 33ABB 01	386383.09	4188641.75	2728.	2584.8	143.2	QUTO
230 1	375020100474201	25S 32W 35ADB 01	341977.75	4189368.25	2857.	2731.41	125.59	QUTO
231 1	375026100074001	25S 26W 25CDD 01	400762.06	4188571.25	2623.	2545.	78.	TO
233 1	375031101594501	25S 43W 25CCD 01	236333.14	4192318.	3490.	3330.15	159.85	QUTO
234 1	375049101165801	25S 36W 28CBD 01	299280.44	4191074.5	3050.	2931.75	118.25	QUTO
235 1	375107100125801	25S 26W 30ABC 01	392849.28	4189926.5	2679.	2564.62	114.38	TO
237 1	375124101080201	25S 35W 26BAB 01	312202.94	4191882.25	3005.	2823.34	181.66	QUTO
238 1	375145100485701	25S 32W 22DBC 01	340089.88	4191857.75	2865.	2742.69	122.31	QUTO
239 1	375149101341601	25S 39W 23BDD 01	273914.12	4193726.	3286.	3197.25	88.75	QUTO
241 1	375159100384101	25S 30W 20BCB 01	355180.84	4192300.5	2734.	2723.87	10.13	QUTO
242 1	375206099451001	25S 22W 20AAA 01	433713.41	4191331.75	2437.9	2380.53	57.37	TO
243 1	375226100564601	25S 33W 16DCC 01	328753.56	4193353.	2920.	2828.85	91.15	QUTO
244 1	375239100552401	25S 33W 15DAC 01	330739.56	4193713.	2915.	2754.28	160.72	QUTO
245 1	375239100574301	25S 33W 17DBD 01	327544.62	4193780.25	2940.	2772.93	167.07	QUTO
246 1	375257101144301	25S 36W 14B 01	302567.91	4194976.5	3050.	2953.23	96.77	QUTO
247 1	375258100281701	25S 29W 14ABB 01	370365.09	4193936.5	2776.3	2631.03	145.27	QUTO
250 1	375307101103901	25S 35W 17AAA 01	308534.88	4195268.	2995.	2874.21	120.79	QUTO
252 1	375339100331401	25S 29W 07BCB 01	363282.5	4195219.	2830.	2671.55	158.45	QUTO
254 1	375357100563701	25S 33W 09ABD 01	329175.53	4196174.	2909.	2769.25	139.75	QUTO
255 1	375404101021201	25S 34W 10ABB 01	320793.44	4196683.	2962.	2848.62	113.38	QUTO
256 1	375413101341701	25S 39W 02CAD 01	274053.22	4198139.	3156.	3123.59	32.41	QUTO
257 1	375416101394401	25S 40W 01CA 01	266204.62	4198838.	3218.	3168.61	49.39	QU
258 1	375433101100601	25S 35W 04BDD 01	309341.22	4197693.	2990.	2907.64	82.36	QUTO
259 1	375436100561301	25S 33W 03BCC 01	329640.91	4197381.5	2902.	2847.49	54.51	QUTO
261 1	375449100574301	25S 33W 05ABD 01	327608.25	4197796.5	2920.	2775.64	144.36	QUTO
262 1	375451100254401	24S 28W 31DD 01	374354.03	4197079.5	2754.	2619.67	134.33	QUTO
263 1	375454101075401	25S 35W 02BAA 01	312684.53	4198409.5	2990.	2868.98	121.02	QUTO
264 1	375456101050301	25S 34W 06AAA 01	316743.56	4198276.5	2972.	2831.41	140.59	QUTO
265 1	375459100195001	24S 27W 31CDD 01	383277.38	4196989.	2709.	2612.93	96.07	QUTO
266 1	375502100090801	24S 26W 35CBC 01	398660.59	4197275.	2608.8	2552.35	56.45	TO
267 1	375512101343401	24S 39W 35CBA 01	273639.5	4199907.5	3146.	3131.29	14.71	QU
268 1	375516100555601	24S 33W 34CAC 01	330078.75	4198496.5	2910.	2770.91	139.09	QUTO
269 1	375521100363801	24S 30W 33ADD 01	358468.19	4198281.	2857.	2688.02	168.98	TO
271 1	375538101453401	24S 40W 31BBB 01	257371.27	4201178.5	3287.	3224.07	62.93	QU
273 1	375558100430401	24S 31W 27CCB 01	348965.38	4199650.5	2883.	2741.89	141.11	QUTO
274 1	375607100185701	24S 27W 29BCC 01	384320.28	4199443.5	2702.7	2611.77	90.93	QUTO
275 1	375614100562101	24S 33W 28DAA 01	329550.31	4200476.	2886.	2779.17	106.83	QUTO
276 1	375626100241701	24S 28W 28BBA 01	376426.72	4200221.5	2750.	2633.59	116.41	QUTO
277 1	375636099592101	24S 24W 20CCC 01	412905.03	4199803.	2511.	2447.16	63.84	TO
281 1	375654100553201	24S 33W 22DCA 01	330947.94	4201856.5	2905.	2790.14	114.86	QUTO
282 1	375702101145602	24S 36W 23CBB 02	302452.94	4202484.	3014.	2984.7	29.3	QUTO
285 1	375719100033001	24S 25W 22BAB 01	407077.22	4201341.	2545.	2459.77	85.23	TO
287 1	375732100363002	24S 30W 15CCC 02	358706.05	4202267.25	2846.	2693.81	152.19	QUTO
288 1	375735100302001	24S 29W 16DCA 01	367664.5	4202325.5	2787.	2667.03	119.97	QUTO
289 1	375736100331301	24S 29W 18CCB 01	363561.94	4202403.5	2814.	2676.43	137.57	QUTO
291 1	375811100145901	24S 27W 14ABB 01	389870.06	4203273.	2654.	2590.37	63.63	QUTO
294 1	375819100185601	24S 27W 08CCC 01	384275.12	4203314.5	2697.	2617.01	79.99	QUTO
295 1	375828101103101	24S 35W 09CCC 01	308902.31	4204993.	2998.	2957.95	40.05	QUTO
296 1	375832100571001	24S 33W 09CCD 01	328370.88	4204592.5	2865.	2817.87	47.13	QU
300 1	375905100484901	24S 32W 10ACA 01	340649.59	4205568.5	2860.	2777.16	82.84	QUTO
301 1	375911099560301	24S 24W 02CCC 01	418192.16	4204482.	2478.	2406.06	71.94	TO
302 1	375912099503201	24S 23W 03CCC 01	425873.28	4204430.	2422.	2361.66	60.34	TO
305 1	375957101003501	24S 34W 01BCBB 01	323406.09	4207520.	2894.	2844.93	49.07	QUTO
306 1	375958099032002	23S 16W 35CCD 02	495067.19	4205644.5	2060.	2031.15	28.85	QU
308 1	380003100223001	23S 28W 34DDC 01	379169.56	4206631.5	2738.	2642.49	95.51	QUTO
309 1	380005099121102	23S 17W 33CCA 02	482370.88	4206025.5	2109.	2075.68	33.32	QU
310 1	380005100130401	23S 26W 31CDD 01	393080.56	4206395.5	2621.	2552.65	68.35	TO
311 1	380006100293001	23S 29W 34CDD 01	369063.09	4206973.5	2772.	2681.6	90.4	TO
312 1	380013099143901	23S 18W 36DAC 01	478544.97	4206083.5	2116.	2086.81	29.19	QU
314 1	380033100523501	23S 32W 31CBD 01	334998.56	4208154.	2876.	2794.12	81.88	QUTO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
315 1	380057101181401	23S 36W 32BBB 01	297742.47	4209942.	3234.	2993.86	240.14	TO
316 1	380058101145601	23S 36W 35BBB 01	302569.97	4209879.5	3193.	2980.1	212.9	TO
317 1	380105099174801	23S 18W 28DAD 01	474035.09	4207802.	2102.	2094.2	7.8	QU
321 1	380108101234301	23S 37W 28CCB 01	289733.38	4210544.	3303.	3048.8	254.2	TO
322 1	380109100570201	23S 33W 28CDC 01	328697.06	4209434.5	2904.	2810.76	93.24	TO
325 1	380131099080901	23S 17W 25AAC 01	488009.69	4208449.5	2075.	2049.02	25.98	QU
326 1	380135100081001	23S 26W 26AAD 01	400410.09	4209184.	2590.	2523.05	66.95	TO
327 1	380146100331301	23S 29W 30BBB 01	363555.69	4210174.	2794.	2715.97	78.03	QUTO
328 1	380149100122201	23S 26W 20CCC 01	393983.19	4209655.	2594.	2549.78	44.22	TO
329 1	380149100223801	23S 28W 22DCD 01	379148.56	4209876.	2729.	2654.4	74.6	QUTO
330 1	380153101071303	23S 35W 25BBB 03	313868.81	4211242.5	3000.	2901.28	98.72	QUTO
331 1	380155100543401	23S 33W 26ABB 01	332298.75	4210905.	2890.	2794.41	95.59	QUTO
332 1	380201101030101	23S 34W 21DDC 01	319899.53	4211210.5	2961.	2848.76	112.24	QUTO
333 1	380202100394701	23S 30W 19CCB 01	353955.78	4210718.5	2862.	2770.89	91.11	QUTO
334 1	380208100155501	23S 27W 22DAB 01	388796.41	4210321.5	2654.	2578.72	75.28	TO
338 1	380253101045501	23S 34W 17CCC 01	317116.28	4212881.	2974.	2847.91	126.09	QUTO
339 1	380309101345301	23S 39W 15ADD 01	273596.91	4214683.5	3325.	3194.27	130.73	QUTO
340 1	380328099031201	23S 16W 11CDC 01	495327.41	4212061.5	2038.	2010.23	27.77	QU
341 1	380329101103001	23S 35W 16BBC 01	309098.	4214300.5	3038.	2902.14	135.86	TO
342 1	380333100442901	23S 31W 17ABA 01	347174.09	4213712.	2900.	2784.06	115.94	QUTO
344 1	380338098550101	23S 15W 12DDB 01	507273.25	4212443.5	1974.	1943.21	30.79	QU
345 1	380344101071302	23S 35W 12CCC 02	313894.44	4214596.5	3010.	2869.91	140.09	QUTO
346 1	380348099135501	23S 17W 07DBB 01	479647.	4212865.5	2070.	2064.65	5.35	QU
351 1	380435100422401	23S 31W 03DCD 01	350422.91	4215492.	2877.	2764.31	112.69	QUTO
352 1	380446100371901	23S 30W 04ACC 01	358135.19	4215975.	2846.	2775.18	70.82	QUTO
353 1	380452101170901	23S 36W 04CBB 01	299682.28	4217118.5	3183.	3037.34	145.66	TO
354 1	380500101110501	23S 35W 05ACC 01	308361.5	4217075.	3096.	2944.24	151.76	TO
356 1	380510101231101	23S 37W 04ABC 01	290714.06	4217802.5	3281.	3089.11	191.89	TO
357 1	380513098580601	22S 15W 33DDD 01	502612.66	4215393.5	2003.	1963.09	39.91	QU
358 1	380513099062201	22S 16W 32CDD 01	490668.81	4215509.5	2047.	2008.81	38.19	QU
360 1	380600100535701	22S 33W 36BCCC 01	333296.34	4218307.	2869.	2735.95	133.05	QUTO
361 1	380606101223501	22S 37W 34BBC 01	291572.75	4219561.5	3230.	3092.44	137.56	TO
364 1	380622101014001	22S 34W 26CCC 01	322072.69	4219233.	2939.	2768.26	170.74	QUTO
368 1	380713101075501	22S 35W 23CDD 01	313135.44	4221034.	3025.	2887.73	137.27	TO
369 1	380715100503701	22S 32W 21CDC 01	338700.88	4220528.	2903.	2759.97	143.03	QUTO
370 1	380744099023201	22S 16W 23AAA 01	496322.31	4220060.5	2011.	1971.11	39.89	QU
372 1	380758098550501	22S 15W 13DCA 01	507266.66	4220563.5	1976.	1934.01	41.99	QU
373 1	380801100554801	22S 33W 22BAA 01	330840.91	4222281.	2900.	2758.65	141.35	QUTO
374 1	380807101054001	22S 34W 18CDD 01	316474.06	4222600.5	2984.	2837.09	146.91	QUTO
377 1	380830099133401	22S 17W 18AAD 01	480386.03	4221534.5	2047.	2014.32	32.68	QU
380 1	380932100511801	22S 32W 08ACB 01	337384.44	4224926.	2884.	2777.45	106.55	QUTO
382 1	380945101014801	22S 34W 10AAA 01	322123.97	4225671.5	2933.	2825.94	107.06	QUTO
386 1	381022098570001	22S 15W 03AAA 01	504459.38	4224940.5	1970.	1937.61	32.39	QU
389 1	381108099005301	21S 15W 31BAD 01	498785.97	4226297.5	1972.	1954.52	17.48	QU
391 1	381134100420001	21S 31W 26CCC 01	351042.88	4228272.5	2900.	2825.	75.	QUTO
393 1	381155100473701	21S 32W 26DAA 01	343047.	4229230.5	2946.	2835.71	110.29	QUTO
395 1	381215100582401	21S 33W 29BBC 01	327056.75	4230185.	2890.	2798.51	91.49	QUTO
396 1	381242100514201	21S 32W 20CBD 01	337063.69	4230631.5	2898.	2781.52	116.48	QUTO
397 1	381316098595801	21S 15W 17CCC 01	499616.66	4229859.	1961.	1946.28	14.72	QU
401 1	381422101385501	21S 39W 07CBA 01	268162.06	4235580.5	3497.	3310.39	186.61	TO
405 1	381714098300701	20S 11W 26AAC 01	543502.94	4237405.5	1752.	1743.44	8.56	QU
407 1	381734098372501	20S 12W 23CCA 01	532989.94	4238273.5	1814.	1802.21	11.79	QU
408 1	381734098423001	20S 13W 24DCB 01	525345.44	4238223.5	1850.	1834.81	15.19	QU
411 1	381821098463901	20S 13W 17DDC 01	519286.47	4239457.5	1876.	1861.65	14.35	QU
415 1	382044098410801	20S 12W 06AAC 01	527338.75	4243808.	1822.	1814.41	7.59	QU
418 1	382159098545001	19S 14W 30CDD 01	507455.97	4245872.	1905.	1870.35	34.65	QU
420 1	382225098304401	19S 11W 26BDA 01	542773.56	4247110.5	1772.	1759.94	12.06	QU
421 1	382307098345601	19S 11W 19BDD 01	536538.69	4248290.5	1791.	1771.49	19.51	QU
426 1	382601098550102	19S 14W 06BBB 02	507093.22	4253580.	1895.	1884.84	10.16	QU
430 1	382704098512701	18S 14W 27CDD 01	512409.62	4255439.5	1896.	1860.53	35.47	QU
434 1	383839100081701	16S 26W 24DDA 01	400949.88	4277501.5	2587.	2529.5	57.5	TO
435 1	384006099574601	16S 24W 15ABB 01	416160.09	4280114.5	2500.	2472.12	27.88	TO
436 1	390254101305402	11S 38W 35CCC 02	282264.84	4325070.	3372.	3255.74	116.26	TO
437 1	390618102000301	11S 42W 08DDC 01	240422.2	4332370.5	3953.	3840.24	112.76	TO
438 1	390657101573901	11S 42W 10AAD 01	244023.11	4333668.	3948.	3817.06	130.94	TO
439 1	390856100451901	22S 31W 08CCC 01	346134.72	4223545.5	2911.	2804.98	106.02	QUTO
440 1	391032101574801	10S 42W 24BAB 01	243952.06	4340344.	3903.	3796.86	106.14	TO
441 1	391032102012201	10S 42W 21BBB 01	238782.45	4340529.	3963.	3843.08	119.92	TO
442 1	391032102015501	10S 42W 20ABB 01	237932.97	4340564.5	3968.	3845.4	122.6	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
443 1	391037101250601	10S 37W 23ABB 01	291120.31	4339183.5	3421.	3212.01	208.99	TO
446 1	391401101531801	09S 41W 34BAB 01	250666.62	4346625.	3841.	3684.99	156.01	TO
447 1	391401101583501	09S 42W 35ABB 01	243016.14	4346782.5	3916.	3764.67	151.33	TO
448 1	391454101490901	09S 40W 29BBB 01	256748.34	4347953.5	3782.	3614.61	167.39	TO
449 1	391502101433001	09S 39W 19CCC 01	264777.72	4347960.	3695.	3553.11	141.89	TO
450 1	391553101442101	09S 40W 13CDC 01	263621.03	4349504.5	3722.	3556.57	165.43	TO
451 1	391622101311101	09S 38W 13BCC 01	282501.94	4349852.	3510.	3428.76	81.24	TO
452 1	391632101522601	09S 41W 14BBC 01	252047.89	4351045.5	3835.	3646.55	188.45	TO
453 1	391638101580901	09S 42W 14AAA 01	243988.97	4351654.	3901.	3727.2	173.8	TO
454 1	391652101400901	09S 39W 10CCB 01	269715.47	4351293.5	3661.	3505.75	155.25	TO
455 1	391654101291401	09S 37W 07DDB 01	285300.94	4350928.5	3496.	3401.94	94.06	TO
456 1	391730102012701	09S 42W 08AAA 01	239230.61	4353430.	3943.	3778.4	164.6	TO
457 1	391737101551301	09S 41W 05DCC 01	248103.25	4353323.5	3860.	3688.25	171.75	TO
458 1	391758101371201	09S 39W 01DBA 01	274117.28	4353187.5	3619.	3470.34	148.66	TO
459 1	391824101383601	09S 39W 02BAB 01	271892.72	4354066.5	3646.	3465.98	180.02	TO
460 1	391828102024901	08S 42W 31DCD 01	237299.53	4355111.5	3872.	3783.78	88.22	TO
461 1	391917101282301	08S 37W 32ABB 01	286710.22	4355301.	3468.	3369.6	98.4	TO
462 1	392000101511701	08S 41W 25BBC 01	253959.22	4357548.5	3754.	3627.8	126.2	TO
463 1	392001101434601	08S 40W 25AAC 01	264781.22	4357289.	3701.	3517.49	183.51	TO
464 1	392016101274901	08S 37W 21CCC 01	287526.97	4356960.	3496.	3351.4	144.6	TO
465 1	392101101302001	08S 38W 24AAB 01	284003.12	4358589.	3513.	3388.84	124.16	TO
466 1	392107101400701	08S 39W 15CCC 01	269965.72	4358961.5	3642.	3474.76	167.24	TO
467 1	392109101351401	08S 38W 17CDD 01	276960.19	4358865.5	3603.	3434.04	168.96	TO
468 1	392112101592101	08S 42W 15DDB 01	242382.98	4360174.	3859.	3727.9	131.1	TO
469 1	392113101484901	08S 40W 17CDB 01	257669.81	4359562.5	3727.	3588.	139.	TO
470 1	392125101553601	08S 41W 17CBA 01	247818.47	4360373.5	3843.	3689.5	153.5	TO
471 1	392218101435301	08S 40W 12DBA 01	264663.03	4361498.5	3670.	3503.66	166.34	TO
472 1	392324101255101	08S 37W 03ADB 01	290616.44	4362763.5	3476.	3314.2	161.8	TO
473 1	392429101441801	07S 40W 36BAB 01	264043.5	4365578.5	3643.	3508.05	134.95	TO
474 1	392429101454201	07S 40W 35BBB 01	262197.16	4365498.	3650.	3521.17	128.83	TO
475 1	392454101540201	07S 41W 28DBB 01	250160.56	4366542.5	3774.	3640.1	133.9	TO
476 1	392456101333201	07S 38W 28DAA 01	279605.66	4365945.	3545.	3393.96	151.04	TO
477 1	392520101591901	07S 42W 27AAB 01	242668.88	4367787.5	3862.	3689.6	172.4	TO
478 1	392521101485501	07S 40W 29BBA 01	257625.83	4367263.5	3708.	3562.7	145.3	TO
479 1	392613101372701	07S 39W 24BAA 01	274215.19	4368429.	3587.	3435.81	151.19	TO
480 1	392618102022101	07S 42W 17CCC 01	238224.12	4369565.5	3864.	3717.47	146.53	TO
481 1	392730102022801	07S 42W 07DAA 01	238196.44	4371782.5	3903.	3711.	192.	TO
482 1	392758101411201	07S 39W 09BBB 01	268733.94	4371860.	3589.	3469.88	119.12	TO
483 1	392804101371001	07S 39W 01DCD 01	274723.94	4371732.5	3563.	3427.32	135.68	TO
484 1	392811101285301	07S 37W 05CCB 01	286357.5	4371709.	3472.	3328.35	143.65	TO
485 1	392836101491801	07S 40W 06ADB 01	257156.33	4373389.5	3722.	3551.36	170.64	TO
486 1	392843101274601	07S 37W 04BBC 01	288097.19	4372631.5	3455.	3314.42	140.58	TO
487 1	392948101493301	06S 40W 30DCC 01	256857.77	4375493.5	3718.	3547.04	170.96	TO
488 1	393001101524301	06S 41W 27DBD 01	252441.91	4375988.	3741.	3573.33	167.67	TO
489 1	393020102022701	06S 42W 30ADA 01	238525.03	4377073.5	3871.	3661.4	209.6	TO
490 1	393040101593201	06S 42W 22DCC 01	242571.31	4377472.5	3837.	3635.2	201.8	TO
491 1	393053101560401	06S 41W 19DBD 01	247736.94	4377720.	3792.	3600.78	191.22	TO
492 1	393126101292601	06S 37W 19ABB 01	285792.56	4377735.5	3476.	3316.94	159.06	TO
493 1	393132101272001	06S 37W 16CDD 01	288993.88	4377840.	3460.	3287.37	172.63	TO
494 1	393146101443201	06S 40W 13CBC 01	264231.41	4378981.	3624.	3473.2	150.8	TO
495 1	393225101401201	06S 39W 09DDD 01	270589.38	4379880.5	3585.	3433.21	151.79	TO
496 1	393244102021801	06S 42W 08CBB 01	238723.58	4381625.5	3841.	3627.66	213.34	TO
497 1	393304101455501	06S 40W 10AAC 01	262279.25	4381333.	3641.	3475.77	165.23	TO
499 1	393403101575901	06S 42W 02AAA 01	245239.94	4383869.5	3777.	3575.33	201.67	TO
500 1	393508101390801	05S 39W 25CDA 01	272491.66	4384968.	3533.	3398.91	134.09	TO
501 1	393625101342401	05S 38W 22ACB 01	279203.75	4387148.5	3437.	3338.61	98.39	TO
502 1	393645102000401	05S 42W 14DCC 01	242206.62	4388810.	3680.	3546.13	133.87	TO
503 1	393704101273301	05S 37W 15DBB 01	288853.91	4388146.5	3397.	3253.24	143.76	TO
504 1	393712101470601	05S 40W 14BCD 01	260916.84	4388998.	3645.	3420.26	224.74	TO
505 1	393724101321401	05S 38W 13BAD 01	282282.34	4388859.5	3390.	3310.55	79.45	TO
506 1	393751101403601	05S 39W 11CBC 01	270506.47	4389996.5	3530.	3378.31	151.69	TO
507 1	393849101440101	05S 39W 06DAA 01	265604.66	4391954.	3607.	3392.16	214.84	TO
508 1	393955101574301	04S 41W 31ACA 01	245899.39	4394627.	3552.	3453.32	98.68	TO
509 1	394020101250801	04S 37W 25DCA 01	292615.94	4393999.5	3374.	3219.5	154.5	TO
510 1	394047101525102	04S 41W 25BCB 02	252614.92	4395778.	3570.	3425.2	144.8	TO
511 1	394106101371301	04S 38W 20CCC 01	275508.91	4395794.	3485.	3326.26	158.74	TO
512 1	394132101351201	04S 38W 21ADC 01	278429.88	4396635.5	3491.	3304.37	186.63	TO
513 1	394139101482101	04S 40W 22BCB 01	259520.02	4397335.5	3520.	3394.23	125.77	TO
514 1	394152101525901	04S 41W 23AAA 01	252975.8	4398078.	3526.	3403.62	122.38	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
515 1	394159102022201	04S 42W 16CCD 01	238860.27	4398558.5	3590.	3499.9	90.1	TO
517 1	394237101292901	04S 37W 17AAC 01	286491.78	4398378.5	3446.	3247.11	198.89	TO
518 1	394409102003501	04S 42W 02BCC 01	241858.95	4402590.5	3704.	3491.63	212.37	TO
519 1	394421101354501	04S 38W 04BAC 01	277807.03	4401702.	3509.	3288.86	220.14	TO
520 1	394507101245701	03S 37W 36ADB 01	293220.41	4402947.5	3381.	3179.5	201.5	TO
521 1	394507101433401	03S 39W 32BDB 01	266645.41	4403515.5	3490.	3337.	153.	TO
522 1	394514101463001	03S 40W 35AAC 01	262422.12	4403897.	3445.	3347.96	97.04	TO
523 1	394521101553601	03S 41W 33ABB 01	249146.86	4404568.5	3594.	3434.8	159.2	TO
524 1	394612101323501	03S 38W 25BBB 01	282376.	4405253.	3479.	3254.41	224.59	TO
525 1	394619101281101	03S 37W 21DDD 01	288748.	4405168.	3422.	3202.98	219.02	TO
526 1	394619101382601	03S 39W 24DDD 01	274183.88	4405715.	3505.	3281.96	223.04	TO
527 1	394632101430001	03S 39W 20DAC 01	267561.81	4406072.	3450.	3310.95	139.05	TO
528 1	394651101360001	03S 38W 21BCB 01	277515.44	4406492.	3512.	3268.27	243.73	TO
529 1	394658101312601	03S 37W 19BBC 01	284380.62	4406296.	3468.	3238.98	229.02	TO
531 1	394856101424201	03S 39W 04CCC 01	268197.22	4410467.	3351.	3288.	63.	TO
532 1	394921101355801	03S 38W 04BCC 01	277712.47	4411204.5	3479.	3262.85	216.15	TO
533 1	394947101283501	02S 37W 33DCC 01	288162.56	4411641.5	3420.	3205.95	214.05	TO
534 1	395001101553501	02S 41W 33DBC 01	249621.88	4413088.	3650.	3414.13	235.87	TO
535 1	395021101503301	02S 40W 32BCB 01	256813.58	4413625.	3492.	3362.45	129.55	TO
536 1	395100101484301	02S 40W 28DBA 01	259547.22	4414738.5	3452.	3342.05	109.95	TO
537 1	395120101545301	02S 41W 27BBD 01	250706.89	4415570.	3620.	3420.1	199.9	TO
542 2	372641098295101	30S 11W 11CCA 01	544447.50	4144122.75	1810.0	1767.35	42.65	QU
543 2	372621098322701	30S 11W 17AAC 01	540612.38	4143499.75	1825.0	1769.51	55.49	QU
544 2	372338098311401	30S 11W 33ADA 01	542444.75	4138482.00	1780.0	1760.94	19.06	QU
545 2	384054101204801	16S 36W 07BCB 01	295780.03	4283754.00	3319.0	3195.36	123.64	TO
546 2	395358100124001	02S 26W 11BBA 01	396322.03	4417044.50	2509.0	2428.34	80.66	TO
548 2	395155100384901	02S 30W 23ADD 01	359127.19	4413924.00	2835.0	2704.03	130.97	TO
549 2	394544100172202	03S 26W 30CBB 02	389456.22	4401931.00	2610.0	2488.80	121.20	TO
551 2	394504100293601	03S 28W 32BCA 01	372035.97	4400996.00	2749.0	2621.59	127.41	TO
558 2	394208100221101	04S 27W 17DAC 01	382505.38	4395385.50	2648.0	2550.70	97.30	TO
560 2	394241100263201	04S 28W 15AAA 01	376356.09	4396502.50	2700.0	2612.10	87.90	TO
561 2	394011100295401	04S 28W 30DDD 01	371455.81	4391948.00	2726.0	2633.50	92.50	TO
563 2	393853100150901	05S 26W 05ADD 01	392264.09	4389211.50	2607.0	2482.55	124.45	TO
566 2	393557100214701	05S 27W 21CCA 01	382939.03	4383960.50	2675.0	2573.90	101.10	TO
569 2	393709100252601	05S 28W 14ADD 01	377743.69	4386242.00	2723.0	2582.50	140.50	TO
570 2	393656100285601	05S 28W 17DAC 01	372723.06	4385918.50	2734.0	2638.50	95.50	TO
572 2	393651100410001	05S 30W 15CCB 01	355491.72	4386096.50	2878.0	2787.18	90.82	TO
573 2	393440100395501	05S 30W 35BCB 01	357025.66	4382037.50	2891.0	2773.80	117.20	TO
578 2	375732099144301	24S 18W 13DAC 01	478569.25	4201293.50	2130.0	2095.29	34.71	QU
579 2	375801099191001	24S 18W 17ABD 01	471945.16	4202185.00	2147.0	2116.51	30.49	QU
580 2	375550099175601	24S 18W 28DAC 01	473735.47	4198115.00	2158.0	2120.45	37.55	QU
582 2	375436099032701	25S 16W 02BBB 01	494947.25	4195824.00	2069.0	2049.43	19.57	QU
583 2	375059099034201	25S 16W 27AAC 01	494501.50	4189144.50	2063.0	2050.55	12.45	QU
584 2	375411099080701	25S 17W 01DAB 01	488079.16	4195000.50	2102.0	2073.42	28.58	QU
585 2	375245099123501	25S 17W 17AAC 01	481643.75	4192402.50	2129.0	2095.82	33.18	QU
586 2	375008099141501	25S 17W 31BBD 01	479081.19	4187572.25	2148.0	2119.62	28.38	QU
587 2	375346099174801	25S 18W 09AAA 01	473914.28	4194260.75	2161.0	2127.20	33.80	QU
588 2	375201099190201	25S 18W 20AAB 01	472126.31	4191015.75	2185.0	2143.69	41.31	QU
589 2	374931099182901	25S 18W 33CDC 01	472857.91	4186381.50	2182.0	2144.93	37.07	QU
591 2	375032099222001	25S 19W 26DDB 01	467237.31	4188252.75	2206.0	2165.14	40.86	QU
592 2	374954099270701	25S 19W 31CAB 01	459950.00	4187083.25	2220.0	2203.15	16.85	QU
593 2	375406099303401	25S 20W 03BCD 01	455096.16	4195382.00	2237.0	2209.57	27.43	QUTO
595 2	374731099035701	26S 16W 10CCC 01	494099.41	4182572.00	2065.0	2057.38	7.62	QU
596 2	374653099070201	26S 16W 18CAC 01	489683.22	4181377.00	2092.0	2077.72	14.28	QU
597 2	374408099070401	26S 16W 31CCA 01	489469.88	4176338.25	2110.0	2077.78	32.22	QU
598 2	374440099032401	26S 16W 34ABC 01	494898.22	4177311.75	2079.0	2057.85	21.15	QU
599 2	374720099090001	26S 17W 14BAA 01	486689.84	4182413.00	2109.0	2085.75	23.25	QU
600 2	374404099104601	26S 17W 33DDB 01	484034.06	4176356.00	2127.0	2100.63	26.37	QU
601 2	374637099163101	26S 18W 15DCB 01	475695.06	4181255.75	2174.0	2137.85	36.15	QU
602 2	374354099202001	26S 18W 31CCC 01	470086.88	4176211.50	2215.0	2162.54	52.46	QU
603 2	374803099205402	26S 19W 12ABB 02	469341.84	4184119.25	2210.0	2156.16	53.84	QU
604 2	374658099244301	26S 19W 16BCB 01	463670.03	4182169.75	2231.0	2189.69	41.31	QU
605 2	374428099260501	26S 19W 31AAC 01	461660.00	4177549.75	2250.0	2209.22	40.78	QU
606 2	374427099232901	26S 19W 34BBD 01	465477.06	4177500.00	2232.0	2188.75	43.25	QU
607 2	375826099022201	24S 16W 12CBD 01	496570.53	4202896.50	2055.0	2032.72	22.28	QU
608 2	375655099123501	24S 17W 20ADC 01	481682.97	4200048.00	2126.0	2090.66	35.34	QU
609 2	375629099075901	24S 17W 24DDD 01	488297.88	4199247.00	2100.0	2068.27	31.73	QU
615 2	390106100274501	12S 28W 07DDD 01	373176.84	4319598.00	2742.0	2696.41	45.59	TO
616 2	390106100221301	12S 28W 12DDD 01	381206.28	4319516.00	2741.0	2650.18	90.82	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
617 2	390709100125401	11S 26W 04CDC 01	394867.03	4330468.50	2583.0	2520.54	62.46	TO
621 2	390611100160101	11S 26W 19AAA 01	392550.88	4327096.00	2680.0	2559.12	120.88	TO
622 2	390316100163201	11S 27W 36BCC 01	389503.66	4323339.00	2676.0	2605.07	70.93	TO
623 2	390703100263601	11S 28W 08AAA 01	375197.69	4330648.50	2797.0	2682.64	114.36	TO
624 2	390532100270101	11S 28W 17DCB 01	374449.50	4327842.00	2790.0	2694.11	95.89	TO
625 2	390427100235101	11S 28W 26ABB 01	379146.56	4325771.00	2755.0	2663.28	91.72	TO
626 2	390723100320801	11S 29W 04DAD 01	367229.03	4331366.50	2844.0	2731.84	112.16	TO
627 2	390336100330001	11S 29W 33BBA 01	365747.97	4324420.00	2857.0	2755.92	101.08	TO
628 2	390428100380701	11S 30W 27ABB 01	358470.59	4326204.50	2922.0	2798.71	123.29	TO
629 2	390402100393801	11S 30W 28CBA 01	356238.78	4325470.50	2925.0	2802.24	122.76	TO
630 2	390310100362801	11S 30W 36CBB 01	360803.03	4323772.50	2885.0	2780.20	104.80	TO
631 2	390704100421401	11S 31W 12AAB 01	352654.19	4331044.00	2959.0	2856.04	102.96	TO
632 2	390409100442901	11S 31W 27ADC 01	349254.38	4325770.50	2913.0	2865.78	47.22	TO
633 2	390317100435701	11S 31W 35BDC 01	350007.59	4324167.50	2951.0	2854.96	96.04	TO
634 2	390131100095701	12S 26W 12BCC 01	399074.03	4319935.00	2573.0	2539.60	33.40	TO
635 2	390113100184501	12S 27W 10CCB 01	386186.59	4319621.00	2700.0	2626.76	73.24	TO
636 2	390152100162401	12S 27W 12BBA 01	389636.62	4320717.50	2625.0	2580.15	44.85	TO
637 2	393132099463701	06S 22W 16DCC 01	433219.22	4375178.00	2360.0	2229.99	130.01	TO
638 2	393039099493101	06S 22W 19CCC 01	429117.84	4373610.50	2395.0	2292.51	102.49	TO
639 2	393216099503801	06S 23W 13BBB 01	427544.88	4376620.00	2340.0	2290.62	49.38	TO
640 2	393137099550001	06S 23W 17CCA 01	421312.56	4375412.50	2406.0	2342.06	63.94	TO
641 2	393216099572401	06S 24W 14AAA 01	417747.38	4376634.50	2527.0	2410.72	116.28	TO
642 2	393032100002001	06S 24W 28BAB 01	413477.03	4373448.00	2478.0	2384.99	93.01	TO
643 2	393223100040801	06S 25W 12CCC 01	408249.03	4376918.00	2538.0	2396.98	141.02	TO
644 2	392959100073201	06S 25W 28CBC 01	403390.44	4372539.50	2540.0	2432.17	107.83	TO
645 2	392749099461001	07S 22W 10BBC 01	433905.12	4368325.00	2217.0	2208.70	8.30	TO
646 2	392611099493301	07S 22W 19BBB 01	429017.22	4365338.50	2295.0	2265.78	29.22	TO
647 2	392729100013501	07S 24W 08CBA 01	411612.62	4367809.00	2519.0	2397.56	121.44	TO
648 2	392611100040901	07S 25W 24BBB 01	408112.94	4365433.50	2495.0	2409.73	85.27	TO
649 2	392340100063401	07S 25W 33DDD 01	404631.38	4360859.00	2502.0	2400.39	101.61	TO
654 2	391451099512701	09S 23W 26BAA 01	426013.75	4344374.50	2380.0	2336.62	43.38	TO
655 2	391545099509001	09S 24W 22BAA 01	414793.75	4346051.50	2491.0	2404.94	86.06	TO
656 2	391551100041901	09S 25W 14DDD 01	407613.44	4346338.50	2534.0	2445.72	88.28	TO
657 2	393039099423701	06S 21W 19CDC 01	439208.59	4373503.00	2305.0	2212.81	92.19	TO
658 2	372904101152101	29S 36W 33ADB 01	300557.56	4150832.75	3011.0	2757.65	253.35	QUTO
659 2	373300101212501	29S 37W 03CDB 01	291783.12	4158300.25	3051.0	2801.04	249.96	QUTO
660 2	373009101234301	29S 37W 29BBA 01	288286.00	4153172.50	3094.5	2801.61	292.89	QUTO
662 2	372832101265901	29S 38W 35CCD 01	283416.09	4150292.00	3124.0	2925.37	198.63	QUTO
663 2	373214101114301	29S 35W 07CBD 01	306047.09	4156541.50	3036.0	2773.61	262.39	QUTO
664 2	373104101060001	29S 35W 24BAA 01	314438.72	4154156.00	3037.0	2679.30	357.70	TO
665 2	372951101091001	29S 35W 28ACC 01	309792.03	4152028.75	2975.0	2692.85	282.15	QUTO
666 2	372754101065801	30S 35W 02DBC 01	312953.34	4148345.50	3020.0	2688.00	332.00	QUTO
667 2	372528101114301	30S 35W 19BCD 01	305821.44	4144057.00	3004.0	2790.66	213.34	QUTO
668 2	372826101125501	30S 36W 01BBB 01	304132.19	4149529.00	2973.0	2746.52	226.48	QUTO
670 2	372357101171501	30S 36W 32BBC 01	297499.03	4141471.50	3064.0	2866.32	197.68	QUTO
672 2	372515101235102	30S 37W 20CBC 02	287903.03	4144148.25	3125.0	2875.74	249.26	QUTO
674 2	372608101273901	30S 38W 15DBC 01	282314.81	4145900.25	3144.0	2929.68	214.32	QU
675 2	372442101304601	30S 38W 30ACA 01	277601.03	4143437.25	3152.0	2933.76	218.24	QUTO
676 2	373048101182401	29S 36W 19BCB 01	296145.22	4154185.25	2995.0	2762.32	232.68	QUTO
677 2	383815101415101	16S 40W 26ADA 01	265187.91	4279561.00	3602.0	3479.48	122.52	TO
678 2	383915101522101	16S 41W 20ABC 01	250012.48	4281840.50	3735.	3553.37	181.63	TO
679 2	383909101572301	16S 42W 22BCB 01	242795.67	4281855.00	3828.0	3624.93	203.07	TO
680 2	383829101540901	16S 42W 25AAA 01	247378.81	4280518.00	3763.0	3571.26	191.74	TO
681 2	383643101354101	17S 39W 02BAA 01	273999.62	4276529.00	3511.0	3389.41	121.59	TO
682 2	383405101363901	17S 39W 22ABB 01	272443.28	4271726.50	3527.0	3389.21	137.79	TO
683 2	383141101371201	17S 39W 34CCB 01	271506.66	4267301.50	3505.0	3403.98	101.02	TO
684 2	383418101435701	17S 40W 15CCB 01	261953.67	4272393.00	3607.0	3465.72	141.28	TO
685 2	383458101460201	17S 40W 17BBA 01	258933.17	4273689.00	3663.0	3463.45	199.55	TO
686 2	383220101470801	17S 40W 31BBA 01	257131.83	4268919.50	3663.0	3499.90	163.10	TO
688 2	383028101402701	18S 39W 07BBD 01	266791.91	4265201.50	3564.0	3448.60	115.40	TO
689 2	382810101400801	18S 39W 19CDA 01	267083.34	4260969.50	3510.0	3435.33	74.67	TO
690 2	382843101341301	18S 39W 24AAC 01	275794.31	4261767.00	3467.0	3328.19	138.81	TO
691 2	384139101354901	16S 39W 02BDC 01	274067.47	4285658.50	3520.0	3365.82	154.18	TO
692 2	383841101363801	16S 39W 22DCB 01	272700.25	4280194.50	3529.0	3386.17	142.83	TO
693 2	383954101432401	16S 40W 15ACC 01	263074.12	4282680.00	3650.0	3490.08	159.92	TO
694 2	383941101461201	16S 40W 17CBC 01	259020.66	4282382.00	3688.0	3519.28	168.72	TO
695 2	380146097315501	23S 02W 22CCD 01	628747.31	4209897.00	1395.0	1380.51	14.49	QU
696 2	380001097313001	23S 02W 34DCC 01	629383.12	4206673.00	1398.5	1381.86	16.64	QU
700 2	380423097410101	23S 03W 06DDD 01	615367.06	4214538.50	1495.0	1423.27	71.73	QU

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701 2	380318097364301	23S 03W 14AAC 01	621639.62	4212624.50	1450.0	1413.38	36.62	QU
703 2	375955097264801	24S 01W 05AAB 01	636225.19	4206567.50	1394.0	1370.01	23.99	QU
704 2	375658097284601	24S 01W 19BCC 01	633488.12	4201086.00	1383.0	1359.96	23.04	QU
705 2	375658097252701	24S 01W 22BCC 01	638332.00	4201179.50	1390.0	1364.15	25.85	QU
706 2	375540097320901	24S 02W 28DDD 01	628500.81	4198594.50	1403.0	1368.81	34.19	QU
710 2	375811097373001	24S 03W 14BBB 01	620579.81	4203134.50	1430.0	1413.54	16.46	QU
714 2	380950097340901	22S 02W 05CBD 01	625221.94	4224787.50	1468.0	1418.76	49.24	QU
715 2	380653097340801	22S 02W 29BBA 01	625334.06	4219336.50	1424.0	1403.14	20.86	QU
716 2	380937097365501	22S 03W 02DCD 01	621249.62	4224320.50	1450.0	1412.06	37.94	QU
717 2	380647097402901	22S 03W 29BAD 01	616085.56	4218977.00	1430.0	1416.98	13.02	QU
718 2	380601097363601	22S 03W 35AAA 01	621751.19	4217659.00	1420.0	1407.97	12.03	QU
719 2	380133097253501	23S 01W 28AAD 01	637996.06	4209635.00	1403.0	1383.54	19.46	QU
720 2	373951097521902	27S 05W 33ABB 02	599635.31	4168502.00	1460.0	1455.46	4.54	QU
721 2	374225097555101	27S 06W 12CCD 01	594102.38	4173501.50	1488.0	1481.70	6.30	QU
723 2	374332098040101	27S 07W 03ADC 01	582263.62	4175723.00	1545.0	1541.22	3.78	QU
724 2	374055098034401	27S 07W 23BCC 01	582724.62	4170912.00	1567.0	1559.81	7.19	QU
725 2	374123098092701	27S 08W 14DDC 01	574318.19	4171560.00	1610.0	1609.14	0.86	QU
726 2	374143098124601	27S 08W 17DAB 01	569464.50	4172113.75	1665.0	1625.50	39.50	QU
727 2	373859098101701	27S 08W 35CBC 01	573151.25	4167192.75	1610.0	1588.39	21.61	QU
728 2	372659097491801	30S 05W 12CCA 01	604200.56	4144946.00	1484.0	1462.64	21.36	QU
729 2	372803098262201	30S 10W 05BBD 01	549279.00	4146776.75	1770.0	1725.98	44.02	QU
730 2	372622098213001	30S 10W 13AAC 01	556774.19	4143618.25	1750.0	1677.21	72.79	QU
731 2	372408098243901	30S 10W 28DAC 01	551957.31	4139550.50	1730.0	1711.38	18.62	QU
732 2	374023098190401	27S 09W 29AAA 01	559973.94	4169585.00	1700.0	1673.60	26.40	QU
733 2	374309098232301	27S 10W 03DDD 01	553514.44	4174584.50	1743.0	1687.85	55.15	QU
734 2	374123098253201	27S 10W 17DDD 01	550349.56	4171337.00	1755.0	1689.45	65.55	QU
735 2	373422098063301	28S 07W 29CDD 01	578656.12	4158941.25	1601.0	1574.20	26.80	QU
736 2	373331098033301	28S 07W 35CCD 01	583113.12	4157400.50	1585.0	1563.61	21.39	QU
737 2	373602098123001	28S 08W 21BBB 01	569977.12	4161756.00	1562.0	1559.88	2.12	QU
738 2	373503098094301	28S 08W 26ABC 01	574033.50	4160057.25	1652.0	1590.75	61.25	QU
740 2	373601098175901	28S 09W 21AAA 01	561668.94	4161542.25	1666.0	1636.70	29.30	QU
741 2	373423098200201	28S 09W 29CCC 01	558673.94	4158475.50	1708.0	1674.12	33.88	QU
742 2	373417098170201	28S 09W 34AAB 01	563122.50	4158338.00	1690.0	1646.15	43.85	QU
743 2	373641098252501	28S 10W 16BCB 01	550563.75	4162693.25	1756.0	1704.50	51.50	QU
744 2	373008098264801	29S 10W 19DDB 01	548635.88	4150605.25	1765.0	1741.90	23.10	QU
745 2	374050097491601	27S 05W 24CDC 01	604122.00	4170375.00	1477.0	1461.23	15.77	QU
746 2	373038099230801	29S 19W 22BAA 01	465994.34	4151526.75	2340.0	2182.74	157.26	QU
747 2	373131099283501	29S 20W 11CDD 01	457951.22	4153361.75	2398.0	2231.66	166.34	QU
748 2	374255099033901	27S 16W 10BAC 01	494465.72	4173877.00	2088.0	2057.44	30.56	QU
749 2	374111099070401	27S 16W 19BBD 01	489437.12	4170707.75	2112.0	2076.47	35.53	QU
750 2	373938099043601	27S 16W 28CDD 01	492996.03	4167855.00	2120.0	2051.08	68.92	QU
751 2	374054099104501	27S 17W 21ADC 01	484049.53	4170442.75	2140.0	2101.65	38.35	QU
752 2	374201099135401	27S 18W 13AAA 01	479485.97	4172724.50	2152.0	2124.54	27.46	QU
753 2	374117099193001	27S 18W 18DDC 01	471258.47	4171327.00	2192.0	2168.18	23.82	QU
754 2	374050099161301	27S 18W 22ADC 01	476083.88	4170514.75	2175.0	2146.68	28.32	QU
755 2	373917099140101	27S 18W 35AAC 01	477706.19	4167651.50	2160.0	2122.46	37.54	QU
756 2	374001099282201	27S 20W 26ABD 01	458296.06	4169356.25	2274.0	2226.99	47.01	QU
757 2	373732099013501	28S 16W 12BCA 01	497409.31	4163998.25	2111.0	2007.47	103.53	QU
758 2	373648099051601	28S 16W 17AAC 01	491964.03	4162614.75	2165.0	2044.74	120.26	QU
759 2	373341099062501	28S 16W 31DCA 01	490308.12	4156761.50	2110.0	2039.25	70.75	QU
760 2	373809099080001	28S 17W 01CAB 01	488036.09	4165288.00	2135.0	2070.82	64.18	QU
761 2	373611099093801	28S 17W 15DDB 01	485702.75	4161661.75	2178.0	2078.01	99.99	QU
762 2	373801099185901	28S 18W 05CDB 01	472088.09	4165019.00	2225.0	2142.04	82.96	QU
763 2	373517099201701	28S 18W 19CCB 01	470141.09	4160112.25	2268.0	2176.04	91.96	QU
764 2	373429099143301	28S 18W 25CAC 01	478587.47	4158681.50	2220.0	2104.41	115.59	QU
765 2	373729099224501	28S 19W 10AAC 01	466500.16	4164397.25	2270.0	2169.88	100.12	TO
766 2	373427099265001	28S 19W 30CBC 01	460555.06	4158665.50	2335.0	2221.21	113.79	QU
767 2	373334099243001	28S 19W 33CBD 01	463943.47	4157030.50	2325.0	2189.55	135.45	QU
768 2	373724099274801	28S 20W 12BBD 01	459121.50	4164423.75	2288.0	2228.06	59.94	QU
769 2	373442099324101	28S 20W 30ACA 01	451923.69	4159311.25	2319.0	2275.16	43.84	QU
770 2	373910099313701	27S 20W 32ABD 01	453478.78	4167744.50	2308.0	2258.65	49.35	QU
771 2	373310099015901	29S 16W 02ADB 01	496906.78	4155966.25	2110.0	2059.17	50.83	QU
772 2	373315099105901	29S 17W 04ABC 01	483777.47	4156203.25	2125.0	2072.55	52.45	QU
773 2	373202099071801	29S 17W 12DAA 01	489144.81	4153988.00	2100.0	2052.18	48.82	QU
774 2	373258099152101	29S 18W 02ACC 01	477396.03	4155826.75	2251.0	2112.34	138.66	TO
775 2	373220099200801	29S 18W 07BBD 01	470387.44	4154590.50	2311.0	2156.87	154.13	QU
776 2	382925100271801	18S 28W 18ACC 01	372959.81	4261012.00	2764.0	2706.96	57.04	TO
777 2	383056100311801	18S 29W 04DDA 01	367217.62	4263744.50	2801.0	2734.18	66.82	TO
778 2	383130100354301	18S 30W 02AAA 01	360919.44	4265041.00	2849.0	2764.22	84.78	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
779 2	383130100383801	18S 30W 04BAB 01	356680.62	4265152.50	2872.0	2795.80	76.20	TO
780 2	382853100354201	18S 30W 23AAA 01	360872.69	4260195.50	2848.0	2789.81	58.19	TO
781 2	383452100243601	17S 28W 15BBC 01	376988.56	4270934.50	2760.0	2654.31	105.69	TO
782 2	383314100225601	17S 28W 26ABB 01	379388.22	4267842.00	2735.0	2632.59	102.41	TO
783 2	383155100243401	17S 28W 34CBB 01	376969.25	4265521.50	2747.0	2652.04	94.96	TO
784 2	383545100305601	17S 29W 10BAC 01	367808.25	4272794.50	2807.0	2693.75	113.25	TO
785 2	383222100283401	17S 29W 36BAA 01	371178.66	4266477.00	2784.0	2695.12	88.88	TO
786 2	383433100353601	17S 30W 13CBB 01	361177.50	4270716.00	2846.0	2751.87	94.13	TO
787 2	383407100400201	17S 30W 20BBB 01	354707.31	4270032.50	2889.0	2781.04	107.96	TO
788 2	383736100320301	16S 29W 33BAB 01	366302.03	4276282.00	2812.7	2702.72	109.98	TO
789 2	383836100350501	16S 30W 24DCC 01	362077.06	4278149.50	2840.0	2717.16	122.84	TO
790 2	383743100393801	16S 30W 29CDD 01	355398.00	4276675.00	2884.0	2755.60	128.40	TO
791 2	383743100295901	16S 29W 26CCD 01	369279.88	4276378.00	2803.0	2693.69	109.31	TO
792 2	383320100201101	17S 27W 20CCC 01	383372.72	4267927.50	2717.0	2618.14	98.86	TO
793 2	383227100165301	17S 27W 26CCC 01	388194.97	4266209.50	2678.0	2583.77	94.23	TO
794 2	383551100275501	17S 28W 07BBB 01	372212.25	4272889.50	2785.0	2751.87	102.07	TO
795 2	382857100154501	18S 27W 13CCC 01	389766.53	4259718.50	2674.0	2589.03	84.97	TO
796 2	390741101205902	11S 36W 06ADD 02	296849.94	4333560.50	3380.0	3205.00	175.00	TO
798 2	390715101222201	11S 37W 01DCD 01	294888.78	4332870.00	3369.0	3195.72	173.28	TO
799 2	390738100494401	11S 32W 01BCC 01	341907.75	4332276.50	3040.0	2926.07	113.93	TO
800 2	390521100542901	11S 32W 19AAB 01	334932.34	4328181.00	3073.0	2963.99	109.01	TO
801 2	390252100551301	11S 32W 31CCD 01	333803.56	4323566.00	3054.0	2988.05	65.95	TO
802 2	390336100490501	11S 32W 36ABA 01	342665.72	4324887.00	3009.0	2911.52	97.48	TO
803 2	390646100581301	11S 33W 10BDD 01	329599.22	4330953.00	3113.0	2996.80	116.20	TO
804 2	390528100565901	11S 33W 14DCC 01	331335.97	4328479.50	3117.0	2983.10	133.90	TO
805 2	390537101060901	11S 34W 16CDB 01	318112.34	4329004.50	3218.0	3098.18	119.82	TO
806 2	381813097253201	20S 01W 22BBB 01	637687.38	4240427.50	1527.0	1518.64	8.36	QU
807 2	381747097375101	20S 03W 22DAA 01	619706.31	4239349.00	1473.0	1428.16	44.84	QU
808 2	381721097415901	20S 03W 30BBA 01	613693.00	4238444.00	1476.0	1417.34	58.66	QU
809 2	381847097450101	20S 04W 15BDD 01	609210.81	4241013.50	1474.0	1417.03	56.97	QU
810 2	381649097443601	20S 04W 27DAC 01	609868.56	4237388.00	1467.0	1420.63	46.37	QU
811 2	381444097295401	21S 02W 12BBB 01	631359.12	4233932.50	1503.0	1494.01	8.99	QU
812 2	381141097330401	21S 02W 28CBA 01	626790.06	4228233.50	1467.0	1427.59	39.41	QU
813 2	381102097291201	21S 02W 36ACA 01	632453.25	4227088.50	1475.0	1463.85	11.15	QU
814 2	381504097415701	21S 03W 06CBD 01	613880.25	4234244.50	1464.0	1415.04	48.96	QU
815 2	381300097384401	21S 03W 22BBB 01	618529.00	4230509.00	1450.0	1415.26	34.74	QU
816 2	381109097395001	21S 03W 33BBC 01	616968.94	4227043.50	1461.0	1413.13	47.87	QU
817 2	381122097435901	21S 04W 26CDC 01	610988.31	4227361.50	1445.0	1408.57	36.43	QU
818 2	382755097463301	18S 04W 21CCC 01	606829.19	4257891.00	1412.0	1399.83	12.17	QU
819 2	382702097420701	18S 03W 30CCC 01	613249.31	4256373.00	1515.0	1400.44	114.56	QU
820 2	382110097265601	19S 01W 32DAC 01	635572.69	4245861.50	1590.0	1548.09	41.91	QU
821 2	382406097395501	19S 03W 16BCB 01	616544.81	4250955.00	1511.0	1410.18	100.82	QU
822 2	382413097443601	19S 04W 15AAC 01	609713.56	4251084.00	1494.0	1404.45	89.55	QU
823 2	371945101412701	31S 40W 29ABB 01	261596.38	4134628.00	3331.0	3142.12	188.88	QUTO
829 2	371511101400401	32S 40W 21ADB 01	263408.34	4126115.00	3342.0	3147.08	194.92	QUTO
837 2	371221101334301	33S 39W 04DBB 01	272524.84	4120571.50	3237.0	3125.20	111.80	TO
838 2	371103101334301	33S 39W 16ABB 01	272464.19	4118154.75	3234.0	3149.18	84.82	QUTO
839 2	370835101394701	33S 40W 27CCC 01	263479.53	4113809.00	3308.0	3226.01	81.99	QUTO
840 2	371235101452101	33S 41W 03ADA 01	255437.69	4121504.75	3430.0	3262.89	167.11	TO
841 2	371203101542801	33S 42W 05DCC 01	241939.14	4120898.75	3525.0	3450.84	74.16	QUTO
842 2	371000101535601	33S 42W 21BCB 01	242634.20	4117027.50	3527.0	3436.25	90.75	QUTO
845 2	370552101401901	34S 40W 16ABB 01	262551.12	4108782.50	3363.0	3219.05	143.95	QUTO
846 2	370322101443201	34S 41W 26DCD 01	256196.12	4104320.50	3360.0	3195.96	164.04	QUTO
847 2	370342101471501	34S 41W 28CBA 01	252180.34	4105040.25	3435.0	3312.96	122.04	QUTO
848 2	370422101523401	34S 42W 22CDB 01	244350.34	4106451.00	3492.0	3410.40	81.60	QUTO
850 2	370136101360401	35S 39W 06CDD 01	268586.25	4100731.50	3330.0	3103.27	226.73	QUTO
851 2	370224101394602	35S 40W 03BBB 02	263184.31	4102314.50	3369.0	3184.99	184.01	QUTO
852 2	370001101472201	35S 41W 16CCD 01	251943.42	4097979.00	3520.0	3295.95	224.05	QUTO
853 2	370159101511101	35S 42W 02DBB 01	246262.91	4101960.50	3554.0	3377.36	176.64	QUTO
854 2	370217101593801	35S 43W 04AAC 01	233800.67	4102931.00	3554.0	3459.25	94.75	QUTO
855 2	370027101565601	35S 43W 13BDB 01	237740.33	4099390.25	3615.0	3414.77	200.23	QUTO
857 2	394340099532401	04S 23W 03DDD 01	423693.25	4397652.50	2370.	2284.40	85.60	TO
858 2	394012099531601	04S 23W 26CCC 01	423791.62	4391213.00	2300.	2257.00	43.00	TO
859 2	394156100054101	04S 25W 13CCC 01	406114.75	4394629.00	2520.	2407.65	112.35	TO
860 2	395214099532101	02S 23W 22AAA 01	423946.44	4413527.00	2378.0	2306.55	71.45	TO
861 2	395306100054301	02S 25W 14AAA 01	406306.72	4415336.00	2530.	2391.30	138.70	TO
862 2	395820099420601	01S 21W 17AAA 01	440049.97	4424640.00	2290.0	2212.15	77.85	TO
863 2	395819099532001	01S 23W 15AAA 01	424042.75	4424766.00	2340.0	2311.36	28.64	QUTO
864 2	395806099584801	01S 24W 13BCB 01	416276.03	4424465.50	2425.0	2311.65	113.35	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
865 2	395634100053201	01S 25W 25BBB 01	406635.94	4421762.50	2405.0	2365.73	39.27	TO
866 2	394945099420101	02S 21W 33CCC 01	440055.50	4408814.50	2280.	2190.25	89.75	TO
874 2	374526098331501	26S 11W 29BCB 01	539199.81	4178796.50	1830.0	1814.61	15.39	QU
875 2	374918098355201	26S 12W 02ABA 01	535335.12	4186058.75	1880.0	1844.95	35.05	QU
876 2	374646098394401	26S 12W 17CCA 01	529722.25	4181229.00	1906.0	1870.71	35.29	QU
877 2	374403098372301	26S 12W 34CDC 01	533366.31	4176120.50	1884.0	1840.40	43.60	QU
879 2	373324098332601	29S 11W 06AAA 01	539111.38	4156534.75	1828.0	1782.59	45.41	QU
880 2	373213098311301	29S 11W 09ADD 01	542357.25	4154345.25	1830.0	1776.18	53.82	QU
881 2	372948098322001	29S 11W 29AAD 01	540784.12	4149915.25	1849.0	1790.51	58.49	QU
882 2	373000098394501	29S 12W 20CCD 01	529922.06	4150248.25	1907.0	1808.88	98.12	QU
883 2	373233098411501	29S 13W 12ABB 01	527225.38	4154923.00	1906.0	1834.91	71.09	QU
884 2	372838098470601	29S 13W 31CAA 01	519019.38	4147575.00	1893.0	1864.58	28.42	QU
885 2	373231098480401	29S 14W 12ABB 01	517523.34	4154836.00	1988.0	1889.45	98.55	QU
886 2	373107098521801	29S 14W 17DBD 01	511349.66	4152223.75	2012.0	1914.27	97.73	QU
887 2	373124098594001	29S 15W 18ADA 01	500361.34	4152777.25	2050.0	1964.44	85.56	QU
888 2	372952098542102	29S 15W 25AAB 02	508324.72	4149976.75	1960.	1926.61	33.39	QU
889 2	374703098442401	26S 13W 16DAA 01	522870.16	4181625.25	1929.0	1904.86	24.14	QU
890 2	374631098472501	26S 13W 19BBB 01	518465.19	4180633.50	1953.0	1926.64	26.36	QU
891 2	374438098441601	26S 13W 34BCB 01	523101.62	4177178.25	1950.0	1898.45	51.55	QU
892 2	374653098523101	26S 14W 17DBC 01	510989.97	4181373.50	2010.0	1979.16	30.84	QU
893 2	374908098542801	26S 15W 01AAB 01	508225.31	4186097.75	2020.0	1998.85	21.15	QU
894 2	374230098285101	27S 11W 12CBC 01	545704.94	4173333.75	1783.0	1734.18	48.82	QU
896 2	374238098343001	27S 12W 12DAA 01	537466.38	4173510.75	1838.0	1780.76	57.24	QU
897 2	373907098383801	27S 12W 33CBA 01	531464.69	4167047.50	1777.0	1773.87	3.13	QU
898 2	374126098411501	27S 13W 13DDC 01	527729.25	4171300.00	1897.0	1838.32	58.68	QU
899 2	374323098500101	27S 14W 03DAC 01	514716.69	4174960.00	1995.0	1946.65	48.35	QU
900 2	373728098281801	28S 11W 12ACC 01	546531.81	4164062.00	1755.0	1719.13	35.87	QU
901 2	373529098330001	28S 11W 20CAC 01	539692.69	4160391.00	1840.0	1768.78	71.22	QU
902 2	373556098382201	28S 12W 21BAD 01	531827.69	4161200.00	1882.0	1799.14	82.86	QU
903 2	373756098422001	28S 13W 02DDC 01	525975.81	4164804.00	1827.0	1814.40	12.60	QU
904 2	373658098452901	28S 13W 17AAA 01	521310.59	4162957.00	1938.0	1867.61	70.39	QU
905 2	373432098423701	28S 13W 26DCB 01	525585.81	4158543.50	1916.0	1822.99	93.01	QU
906 2	373609098494301	28S 14W 14CCC 01	515037.03	4161479.00	1984.0	1905.55	78.45	QU
907 2	373514098560801	28S 15W 23CCD 01	505550.41	4159823.75	2071.0	1952.06	118.94	QU
908 2	374217098474101	27S 14W 12DDD 01	518137.41	4172954.25	1983.0	1918.99	64.01	QU
909 2	374052098513901	27S 14W 21CAB 01	512270.91	4170246.25	1998.0	1951.21	46.79	QU
910 2	374347098554501	27S 15W 02ABC 01	506195.94	4175689.25	2036.0	2001.82	34.18	QU
911 2	374314098591801	27S 15W 05CDB 01	500899.66	4174639.50	2070.0	2038.52	31.48	QU
912 2	373851098592501	27S 15W 32CCA 01	500582.88	4166418.50	2068.0	2013.27	54.73	QU
913 2	373911098541401	27S 15W 36ADD 01	508312.91	4167106.25	2050.0	1971.57	78.43	QU
914 2	374717098593501	26S 15W 17BBC 01	500532.06	4182135.25	2050.0	2031.10	18.90	QU
915 2	374833098280001	26S 11W 01DDB 01	546823.56	4184541.50	1801.0	1776.12	24.88	QU
916 2	374533098301301	26S 11W 27AAC 01	543629.19	4178983.00	1808.0	1784.57	23.43	QU
918 2	395308101114301	02S 35W 13ABB 01	312466.12	4417107.00	3178.0	3025.76	152.24	TO
920 2	395224101180301	02S 36W 13DDD 01	303436.94	4415985.50	3286.0	3099.94	186.06	TO
921 2	395033101183701	02S 36W 36BAA 01	302577.91	4412608.50	3263.0	3087.20	175.80	TO
922 2	395551101031601	01S 33W 29CCC 01	324444.84	4421818.50	2992.0	2880.60	111.40	TO
923 2	394814100505201	03S 31W 07CBD 01	341795.16	4407414.00	2960.0	2810.25	149.75	TO
924 2	393742100464301	05S 31W 10DDA 01	347328.78	4387870.50	2820.0	2772.04	47.96	TO
925 2	393558100495001	05S 31W 20CCA 01	342842.69	4384720.50	2865.0	2834.70	30.30	TO
926 2	393644100525501	05S 32W 14CDD 01	338494.81	4386224.00	3020.0	2891.21	128.79	TO
927 2	393533101030001	05S 33W 29BDA 01	324040.69	4384317.00	3042.0	3024.35	17.65	TO
928 2	393914101053801	05S 34W 01BBB 01	320462.28	4391247.00	3137.0	3023.60	113.40	TO
929 2	393526101081201	05S 34W 28ADC 01	316615.03	4384312.00	3207.0	3054.40	152.60	TO
934 2	394328101003401	04S 33W 10ABC 01	327922.22	4398887.00	3086.0	2936.00	150.00	TO
935 2	393933101090001	04S 34W 33CBC 01	315668.81	4391975.50	3160.0	3043.36	116.64	TO
936 2	394013101155301	04S 35W 29DDD 01	305892.19	4393438.50	3219.0	3067.65	151.35	TO
937 2	394125101201301	04S 36W 23CBB 01	299808.41	4395817.50	3351.0	3131.10	219.90	TO
938 2	394112101193101	04S 36W 23DCA 01	300793.06	4395386.50	3339.0	3125.85	213.15	TO
941 2	394730101201001	03S 36W 14CBB 01	300207.28	4407082.00	3332.0	3131.63	200.37	TO
942 2	394711101233201	03S 36W 17CCC 01	295367.12	4406588.00	3375.0	3162.25	212.75	TO
943 2	394632101215201	03S 36W 21DBC 01	297749.34	4405334.00	3345.0	3128.64	216.36	TO
947 2	380238098020201	23S 07W 13DDD 01	584871.88	4210882.50	1604.0	1551.60	52.40	QU
948 2	380316098140901	23S 08W 18AAD 01	567103.88	4211941.00	1675.0	1662.62	12.38	QU
949 2	380435098203301	23S 09W 05CBD 01	557844.19	4214266.00	1740.0	1725.08	14.92	QU
950 2	380151098184301	23S 09W 21DDB 01	560503.25	4209265.00	1732.0	1721.67	10.33	QU
951 2	380000098171701	23S 09W 35CCC 01	562577.00	4205861.00	1718.0	1697.63	20.37	QU
952 2	380507098214903	23S 10W 01AAA 03	555817.06	4215252.50	1740.0	1731.09	8.91	QU
953 2	374732097554401	26S 06W 13BAB 01	594186.50	4182969.00	1475.0	1468.25	6.75	QU

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
954 2	374449097581101	26S 06W 34BBC 01	590614.56	4177864.75	1545.0	1527.26	17.74	QU
955 2	374728098020801	26S 07W 12DCC 01	584947.62	4183054.75	1582.0	1549.26	32.74	QU
956 2	374823098140501	26S 08W 06DCC 01	567269.25	4184424.75	1670.0	1661.32	8.68	QU
957 2	374512098134301	26S 08W 30DAA 01	567941.25	4178516.50	1679.0	1631.53	47.47	QU
958 2	374735098170001	26S 09W 10DDDB 01	562908.00	4182941.50	1686.0	1666.12	19.88	QU
959 2	374721098200701	26S 09W 18AAA 01	558266.44	4182501.00	1668.0	1660.00	8.00	QU
960 2	374358098203301	26S 09W 31DCC 01	557703.00	4176230.25	1735.0	1677.27	57.73	QU
961 2	374412098170901	26S 09W 34DBD 01	562719.25	4176668.75	1685.0	1656.92	28.08	QU
962 2	374637098272501	26S 10W 18CDC 01	547640.31	4181040.25	1797.0	1771.78	25.22	QU
963 2	374439098262101	26S 10W 32BBD 01	549044.19	4177390.25	1760.0	1732.30	27.70	QU
964 2	380104098223701	23S 10W 25CAC 01	554856.94	4207776.50	1752.0	1741.40	10.60	QU
965 2	380057098264301	23S 10W 29DCA 01	549045.88	4207523.00	1783.0	1768.25	14.75	QU
966 2	380514098124902	22S 08W 33CCD 02	569102.75	4215577.50	1660.0	1651.50	8.50	QU
967 2	381015098182501	22S 09W 03BBD 01	561002.88	4224784.50	1712.0	1679.83	32.17	QU
968 2	380837098202801	22S 09W 17BAB 01	557999.00	4221736.50	1732.0	1715.65	16.35	QU
969 2	380652098160901	22S 09W 25BBA 01	564270.12	4218569.50	1705.0	1685.20	19.80	QU
970 2	380935098233201	22S 10W 02DCC 01	553568.62	4223508.00	1736.0	1729.35	6.65	QU
971 2	375915097471301	24S 04W 05CDB 01	606457.12	4204953.50	1480.0	1471.76	8.24	QU
972 2	375619097425301	24S 04W 25BBD 01	612781.88	4199600.50	1448.0	1443.85	4.15	QU
974 2	375823097514501	24S 05W 10CCA 01	599859.25	4203200.00	1509.0	1488.73	20.27	QU
975 2	375955097574301	24S 06W 03AAB 01	591162.88	4205927.00	1554.0	1525.35	28.65	QU
976 2	375652097571701	24S 06W 23CBA 01	591812.31	4200236.00	1555.	1544.93	10.07	QU
977 2	375849098062502	24S 07W 08ADA 02	578492.69	4203819.00	1633.0	1591.10	41.90	QU
978 2	375625098273401	24S 07W 28AAA 01	580148.44	4199380.00	1588.0	1577.35	10.65	QU
979 2	375950098121501	24S 08W 04AB 01	569895.25	4205619.00	1660.0	1648.40	11.60	QU
980 2	375802098144501	24S 08W 18BAC 01	566233.12	4202258.50	1649.0	1642.98	6.02	QU
981 2	375459098105401	24S 08W 34DAC 01	571905.94	4196675.00	1590.0	1584.87	5.13	QU
982 2	375637098205201	24S 09W 19DDDB 01	557394.81	4199536.50	1704.0	1680.05	23.95	QU
983 2	375926098275201	24S 10W 06DBB 01	547266.06	4204691.00	1797.0	1775.75	21.25	QU
984 2	375721098263301	24S 10W 17DDC 01	549298.81	4200897.00	1755.0	1739.00	16.00	QU
986 2	380929098272701	22S 10W 08BBB 01	547893.38	4223215.50	1764.0	1751.97	12.03	QU
987 2	380625098273401	22S 10W 30DAA 01	547749.38	4217564.50	1775.0	1767.10	7.90	QU
988 2	380851097424301	22S 04W 12CDA 01	612864.75	4222756.00	1449.0	1411.82	37.18	QU
989 2	380555097473101	22S 04W 32BBC 01	605891.88	4217209.00	1510.0	1494.00	16.00	QU
992 2	380758098065401	22S 07W 17DCB 01	577688.06	4220731.50	1596.0	1591.47	4.53	QU
993 2	380903098122701	22S 08W 09DBB 01	569647.81	4222635.00	1670.0	1638.80	31.20	QU
994 2	375441097433301	25S 04W 02ABB 01	611827.06	4196549.50	1449.0	1440.90	8.10	QU
995 2	375341098081801	25S 07W 07BBD 01	575775.62	4194302.25	1602.0	1579.45	22.55	QU
996 2	374933098025301	25S 07W 36CCC 01	583722.88	4186684.25	1570.0	1541.70	28.30	QU
997 2	375149098140701	25S 08W 19ADB 01	567148.75	4190785.00	1607.0	1599.11	7.89	QU
998 2	375353098153101	25S 09W 01DCD 01	565276.75	4194602.00	1658.0	1643.70	14.30	QU
999 2	375248098203301	25S 09W 17BBC 01	557842.75	4192485.00	1710.0	1694.32	15.68	QU
1000 2	375030098203901	25S 09W 30DDA 01	557700.69	4188260.75	1693.0	1675.65	17.35	QU
1001 2	375252098235701	25S 10W 14BBB 01	552982.31	4192668.50	1748.0	1720.70	27.30	QU
1002 2	380712098094801	22S 08W 23DAD 01	573505.56	4219285.50	1651.0	1621.05	29.95	QU
1003 2	380509097450202	23S 04W 03BAB 02	609538.19	4215843.50	1470.0	1465.25	4.75	QU
1004 2	380324097462401	23S 04W 16BBB 01	607578.94	4212578.00	1570.0	1549.17	20.83	QU
1005 2	380139097481201	23S 04W 30BAA 01	605017.75	4209327.00	1491.0	1482.92	8.08	QU
1007 2	380008098011901	23S 06W 31DCB 01	585924.19	4206261.00	1577.0	1546.37	30.63	QU
1023 2	384028101052301	16S 34W 09CCB 01	318168.16	4282420.00	3146.0	2983.36	162.64	TO
1024 2	383804101062801	16S 34W 29CCB 01	316456.50	4277993.50	3160.0	2990.33	169.67	TO
1025 2	383928100453301	16S 31W 17DDD 01	346667.53	4280087.00	2931.0	2809.36	121.64	TO
1026 2	383724100474001	16S 31W 31BCB 01	343687.88	4276340.50	2958.0	2822.62	135.38	TO
1027 2	384014100515901	16S 32W 16BCA 01	337507.19	4281223.50	2999.0	2841.88	157.12	TO
1029 2	382144100523501	19S 32W 32ACB 01	336022.56	4247455.00	2984.0	2894.44	89.56	QUTO
1030 2	382552101002001	19S 33W 06DBB 01	324860.09	4255310.50	3021.0	2959.82	61.18	TO
1031 2	382401100565301	19S 33W 15DBD 01	329845.22	4251769.50	2964.0	2853.27	110.73	TO
1033 2	382255101070001	19S 34W 19DCCC01	315108.53	4250056.00	3138.0	3009.11	128.89	TO
1034 2	383916101005901	16S 33W 19BBC 01	324536.38	4280040.50	3098.0	2936.54	161.46	TO
1035 2	383738100582001	16S 33W 33BAA 01	328299.56	4276925.00	3066.0	2908.91	157.09	TO
1036 2	383559100445101	17S 31W 04DCC 01	347601.22	4273640.50	2932.0	2803.63	128.37	TO
1037 2	383328100471201	17S 31W 19CDA 01	344172.50	4269052.00	2960.0	2826.92	133.08	TO
1038 2	383144100431201	17S 31W 35CCB 01	349897.31	4265715.00	2925.0	2825.45	99.55	TO
1039 2	383316100505801	17S 32W 27BBB 01	338755.06	4268740.50	2990.0	2835.04	154.96	TO
1040 2	383553101004901	17S 33W 07BBA 01	324610.34	4273786.50	3093.0	2940.30	152.70	TO
1041 2	383448100555801	17S 33W 14ACB 01	331562.19	4271651.50	3014.0	2869.04	144.96	TO
1042 2	383633101073401	17S 34W 06BCB 01	314845.00	4275210.50	3163.0	3008.78	154.22	TO
1043 2	381847100510201	20S 32W 16DAD 01	338179.75	4241954.00	2955.0	2849.37	105.63	TO
1044 2	381716100540601	20S 32W 30BCD 01	333731.00	4239255.50	2917.0	2807.26	109.74	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
1045 2	382013100583901	20S 33W 09BBB 01	327150.50	4244756.00	2973.0	2870.35	102.65	TO
1046 2	381826100575701	20S 33W 21ABA 01	328111.78	4241521.00	2955.0	2816.32	138.68	TO
1047 2	381611100545501	20S 33W 36CAD 01	332504.84	4237268.00	2925.0	2811.22	113.78	TO
1048 2	381920101034501	20S 34W 15BAA 01	319657.34	4243335.50	3060.0	2958.58	101.42	TO
1049 2	381557101014701	20S 34W 36CCD 01	322454.06	4237039.50	2962.0	2888.82	73.18	TO
1050 2	382841100420601	18S 31W 24BCB 01	351428.25	4260039.50	2913.0	2845.11	67.89	TO
1051 2	382801100433501	18S 31W 27ABA 01	349210.72	4258879.00	2930.0	2861.09	68.91	TO
1052 2	382947100495001	18S 32W 14BBB 01	340271.06	4262271.00	2980.0	2863.51	116.49	TO
1053 2	382947100522902	18S 32W 17ABA 02	336432.06	4262332.00	2973.0	2851.25	121.75	TO
1054 2	383053100573701	18S 33W 03CCB 01	329021.03	4264464.50	3008.0	2881.45	126.55	TO
1055 2	383046100594901	18S 33W 05CCC 01	325801.59	4264336.50	3041.0	2937.26	103.74	TO
1056 2	382848100552301	18S 33W 25BBB 01	332154.66	4259163.00	2972.0	2853.26	118.74	TO
1057 2	383106101062701	18S 34W 05CBB 01	316205.03	4265128.00	3148.0	3029.32	118.68	TO
1058 2	382756101015201	18S 34W 25BBD 01	322750.94	4259198.00	3092.0	2977.84	114.16	TO
1059 2	382704101041301	18S 34W 34BBC 01	319288.75	4257652.00	3130.0	3015.53	114.47	TO
1060 2	383448101044801	17S 34W 16ACB 01	318754.25	4271893.00	3134.0	3007.81	126.19	TO
1061 2	383250101012901	17S 34W 25DBB 01	323507.06	4268191.50	3092.0	2945.68	146.32	TO
1067 2	375211097383301	25S 03W 15CCC 01	619131.44	4192003.75	1428.0	1407.76	20.24	QU
1068 2	375342097280201	25S 01W 07ABD 01	634596.81	4195068.50	1377.0	1346.18	30.82	QU
1069 2	374837097225301	26S 01W 12BAD 01	642443.31	4185521.75	1341.0	1325.02	15.98	QU
1070 2	374659097280201	26S 01W 19ABA 01	634864.12	4182285.25	1351.7	1345.20	6.50	QU
1075 2	374837097332301	26S 02W 08AAB 01	626969.88	4185249.25	1397.0	1367.67	29.33	QU
1076 2	374600097331401	26S 02W 29AAA 01	627319.31	4180378.50	1384.0	1359.46	24.54	QU
1077 2	374927097362801	26S 03W 02AAC 01	622223.19	4186768.00	1409.0	1388.92	20.08	QU
1082 2	375045097255201	25S 01W 28DBA 01	637924.81	4189660.00	1364.0	1349.45	14.55	QU
1083 2	391131100410801	10S 30W 08DDD 01	354470.00	4339244.00	2930.0	2832.70	97.30	TO
1084 2	391204100364101	10S 30W 12ADA 01	360918.53	4340108.50	2874.0	2776.60	97.40	TO
1085 2	393131100383701	06S 30W 14CCD 01	358874.12	4376140.50	2884.0	2774.67	109.33	TO
1086 2	393005100114801	06S 26W 26CBB 01	396991.19	4372837.00	2636.0	2464.80	171.20	TO
1087 2	392847100152601	07S 26W 06AAB 01	391708.50	4370477.00	2634.0	2497.40	136.60	TO
1088 2	392748100102601	07S 26W 12BAC 01	398933.06	4368592.50	2559.0	2452.78	106.22	TO
1089 2	392604100162101	07S 26W 19BBC 01	390446.59	4365474.00	2625.0	2495.45	129.55	TO
1090 2	392452100134601	07S 26W 28CAB 01	394029.78	4363204.50	2634.0	2471.86	162.14	TO
1091 2	392538100185201	07S 27W 22DAC 01	386836.19	4364745.50	2644.0	2525.20	118.80	TO
1092 2	392709100280601	07S 28W 08DCC 01	373673.94	4367827.00	2797.0	2628.16	168.84	TO
1093 2	392610100270101	07S 28W 21ABB 01	375252.72	4366002.00	2774.0	2612.07	161.93	TO
1094 2	392426100233001	07S 28W 36ABA 01	380199.84	4362698.00	2725.0	2575.28	149.72	TO
1095 2	392848100351301	07S 29W 05BBB 01	363336.03	4371033.50	2841.0	2732.66	108.34	TO
1096 2	392433100330201	07S 29W 27CCC 01	366416.59	4363138.50	2869.0	2681.53	187.47	TO
1097 2	392519100354201	07S 29W 30ABA 01	362638.81	4364614.00	2886.6	2716.81	169.79	TO
1098 2	392729100420601	07S 30W 08CBB 01	353705.06	4368834.50	2919.0	2815.57	103.43	TO
1099 2	393334100215501	06S 27W 05CBB 01	382714.56	4379534.00	2684.0	2573.40	110.60	TO
1101 2	393104100221201	06S 27W 19ADC 01	382192.94	4374901.00	2620.0	2586.78	33.22	TO
1102 2	393235100322701	06S 29W 10DBC 01	367497.94	4377985.00	2823.0	2693.90	129.10	TO
1104 2	391847100183701	08S 27W 35CBB 01	387029.31	4352071.50	2640.0	2516.84	123.16	TO
1105 2	392215100242101	08S 28W 11DAA 01	378927.09	4358727.00	2692.0	2589.15	102.85	TO
1106 2	392210100384601	08S 30W 11CBC 01	358355.41	4358850.00	2941.0	2750.57	190.43	TO
1107 2	392124100364001	08S 30W 13DAA 01	361367.84	4357369.50	2891.0	2735.20	155.80	TO
1108 2	392000100424001	08S 30W 30ABC 01	352595.66	4354958.00	2962.0	2818.85	143.15	TO
1109 2	393123100301401	06S 29W 24ABB 01	370643.81	4375707.00	2781.0	2674.87	106.13	TO
1110 2	392900100334201	06S 29W 33CDA 01	365547.22	4371395.00	2828.0	2710.00	118.00	TO
1111 2	393216100371301	06S 30W 13BAA 01	360909.38	4377508.00	2875.0	2748.75	126.25	TO
1112 2	391544100130001	09S 26W 22BBB 01	394932.12	4346313.00	2669.0	2533.06	135.94	TO
1113 2	391643100173001	09S 27W 12CCC 01	388554.62	4348221.00	2678.0	2566.90	111.10	TO
1114 2	391426100184601	09S 27W 27DAA 01	386661.50	4344045.50	2705.0	2599.88	105.12	TO
1116 2	391821100320601	09S 29W 03AAA 01	367592.94	4351631.00	2819.0	2709.60	109.40	TO
1117 2	391637100345901	09S 29W 17BAB 01	363285.12	4348504.00	2854.0	2747.33	106.67	TO
1118 2	391822100390302	09S 30W 03AAB 02	357764.41	4351832.00	2933.0	2762.57	170.43	TO
1119 2	391401100384601	09S 30W 35BBB 01	357948.34	4343782.00	2943.9	2788.88	155.02	TO
1120 2	391209100095401	10S 26W 12AAD 01	399431.97	4339603.50	2534.0	2511.51	22.49	TO
1123 2	391229100275701	10S 28W 05DDB 01	373539.06	4340702.50	2789.0	2681.68	107.32	TO
1125 2	391222100310301	10S 29W 02DDD 01	368936.00	4340564.00	2803.0	2723.22	79.78	TO
1126 2	391006100345201	10S 29W 20CAA 01	363258.34	4336459.50	2820.0	2753.62	66.38	TO
1128 2	375759098524501	24S 14W 17AAC 01	510587.66	4202084.50	1982.0	1947.60	34.40	QU
1129 2	3755521098543201	24S 14W 31BBD 01	508009.62	4197238.50	1998.0	1979.37	18.63	QU
1130 2	375859098574001	24S 15W 10BAB 01	503355.34	4203927.00	2024.0	1993.81	30.19	QU
1131 2	375456098593401	24S 15W 32DBC 01	500580.75	4196425.00	2044.0	2020.90	23.10	QU
1132 2	380108098480501	23S 13W 30CBB 01	517432.84	4207917.00	1906.0	1892.70	13.30	QU
1133 2	380002098433201	23S 13W 35CCA 01	524135.66	4205867.00	1897.0	1879.10	17.90	QU

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
1134 2	380301098502501	23S 14W 15ADD 01	514010.28	4211357.50	1927.0	1915.42	11.58	QU
1135 2	380136098544001	23S 14W 30BBB 01	507757.28	4208771.50	1988.0	1945.17	42.83	QU
1136 2	380558098355802	22S 12W 36BBB 02	535118.69	4216713.50	1827.0	1823.65	3.35	QU
1137 2	380948098465901	22S 13W 05CBC 01	518982.81	4223841.00	1905.0	1887.96	17.04	QU
1138 2	380855098421601	22S 13W 12CAC 01	525838.25	4222175.50	1885.0	1867.40	17.60	QU
1139 2	380617098460101	22S 13W 29DAD 01	520440.75	4217365.50	1902.0	1884.37	17.63	QU
1140 2	380757098500901	22S 14W 14CCA 01	514401.25	4220405.00	1930.0	1906.60	23.40	QU
1141 2	380519098492701	22S 14W 35DDDB 01	515430.09	4215575.00	1930.0	1900.00	30.00	QU
1142 2	381108098531801	21S 14W 32BAC 01	509749.78	4226273.50	1949.0	1916.20	32.80	QU
1143 2	381444098345101	21S 11W 07BBB 04	536676.44	4232912.50	1808.4	1792.93	15.47	QU
1144 2	381504098465101	21S 13W 05CBD 01	519156.50	4233498.50	1893.0	1867.03	25.97	QU
1145 2	381120098434802	21S 13W 27DDD 02	523598.56	4226602.50	1877.0	1869.32	7.68	QU
1146 2	381253098503401	21S 14W 22AAC 01	513775.34	4229486.50	1926.0	1903.20	22.80	QU
1147 2	380929098345101	22S 11W 07BBB 01	536657.62	4223182.00	1785.0	1780.70	4.30	QU
1148 2	381015098401201	22S 12W 05BBD 01	528795.12	4224600.00	1870.0	1854.50	15.50	QU
1149 2	380644098411901	22S 12W 30BBD 01	527277.62	4218162.50	1872.0	1857.83	14.17	QU
1150 2	380506098302901	23S 11W 02BBB 01	543165.69	4215095.50	1789.0	1787.32	1.68	QU
1151 2	380209098313501	23S 11W 22BCC 01	541596.94	4209653.00	1802.0	1782.90	19.10	QU
1152 2	380004098291501	23S 11W 36CCA 01	545052.62	4205871.00	1803.0	1787.88	15.12	QU
1153 2	380340098404601	23S 12W 07DBD 01	528117.12	4212514.50	1859.0	1851.48	7.52	QU
1154 2	380208098381001	23S 12W 22BCC 01	531962.12	4209654.00	1853.0	1842.18	10.82	QU
1155 2	375423098295601	25S 11W 02ACB 01	544138.50	4195391.00	1770.0	1758.82	11.18	QU
1156 2	375112098293101	25S 11W 23DDD 01	544750.38	4189571.75	1796.0	1778.90	17.10	QU
1157 2	375342098360701	25S 12W 11AAA 01	535091.81	4194124.50	1846.0	1830.68	15.32	QU
1158 2	375210098383501	25S 12W 16DCA 01	531458.75	4191310.50	1868.0	1854.77	13.23	QU
1159 2	375117098350901	25S 12W 24DDDB 01	536491.38	4189702.75	1840.0	1826.52	13.48	QU
1160 2	375228098451901	25S 13W 16AAC 01	521965.31	4192384.75	1940.0	1912.85	27.15	QU
1161 2	374933098470601	25S 13W 31DDA 01	518946.09	4186550.25	1973.0	1951.20	21.80	QU
1162 2	374923098420201	25S 13W 36DCC 01	526397.06	4186300.25	1902.0	1889.46	12.54	QU
1163 2	375428098513101	25S 14W 04AAD 01	512459.81	4195626.50	1969.0	1956.84	12.16	QU
1164 2	375118098513901	25S 14W 21DDDB 01	512274.09	4189766.25	1980.0	1968.30	11.70	QU
1165 2	375025098542401	25S 14W 30CDB 01	508239.38	4188145.75	2004.0	1989.90	14.10	QU
1166 2	375330098565101	25S 15W 11BCB 01	504594.47	4193795.50	2020.0	2007.26	12.74	QU
1167 2	375059098595801	25S 15W 29BBD 01	499936.91	4189146.75	2034.0	2027.44	6.56	QU
1168 2	380036098355801	23S 12W 36BBC 01	535204.31	4206802.50	1849.0	1836.15	12.85	QU
1169 2	380333098465901	23S 13W 08CCB 01	519040.47	4212337.50	1895.0	1881.73	13.27	QU
1170 2	375727098325701	24S 11W 17DDDB 01	539657.69	4201002.50	1833.0	1811.90	21.10	QU
1171 2	375910098385901	24S 12W 04CDB 01	530808.19	4204227.00	1875.0	1855.83	19.17	QU
1172 2	375738098400601	24S 12W 17CAB 01	529233.06	4201414.50	1893.0	1867.30	25.70	QU
1173 2	375520098373701	24S 12W 34ABC 01	532868.00	4197144.50	1880.0	1859.40	20.60	QU
1174 2	375750098451101	24S 13W 16ACA 01	521746.31	4201842.50	1915.0	1895.00	20.00	QU
1175 2	375625098463401	24S 13W 20CDD 01	519703.84	4199242.50	1932.0	1909.69	22.31	QU
1176 2	375439098413701	24S 13W 36DDD 01	527051.38	4195971.50	1907.0	1885.08	21.92	QU
1183 2	374039101343701	27S 39W 27BBA 01	272717.66	4172963.75	3175.0	2945.36	229.64	QUTO
1184 2	373031101350901	29S 39W 21DBD 01	271424.25	4154251.75	3183.0	2965.47	217.53	QUTO
1185 2	373024101313601	29S 39W 24DDA 01	276648.91	4153915.25	3154.0	2950.02	203.98	QUTO
1193 2	373413101351701	28S 39W 33ACC 01	271397.47	4161121.50	3201.0	2996.42	204.58	QUTO
1194 2	373433101320202	28S 39W 36ABB 02	276226.69	4161587.00	3145.0	2917.82	227.18	QUTO
1195 2	373808101422201	28S 40W 04CCC 01	261170.92	4168693.25	3289.0	3050.84	238.16	QUTO
1196 2	373716101380902	28S 40W 12DDD 02	267368.34	4166886.50	3225.2	3002.63	222.57	QUTO
1197 2	373808101464301	28S 41W 02CCC 01	254821.78	4168943.25	3343.0	3107.50	235.50	QUTO
1198 2	373825101565801	28S 42W 06DBB 01	239639.52	4170093.75	3529.0	3269.15	259.85	QUTO
1199 2	373558101563001	28S 42W 20BCC 01	240303.11	4165422.75	3553.0	3300.45	252.55	QUTO
1201 2	372550101333801	30S 39W 23BBB 01	273418.78	4145567.50	3179.0	3016.62	162.38	QUTO
1202 2	372734101390601	30S 40W 12BBB 01	265444.22	4149004.00	3274.0	3007.27	266.73	QUTO
1205 2	372556101454002	30S 41W 13CCC 02	255725.34	4146296.25	3347.0	3148.03	198.97	QUTO
1207 2	391822100521201	09S 32W 03AAA 01	338669.59	4352224.00	3051.0	2949.38	101.62	TO
1208 2	391434100530301	09S 32W 27BCD 01	337323.19	4345219.00	3076.0	2950.34	125.66	TO
1209 2	391355100574901	09S 33W 35AAD 01	330513.22	4344145.50	3145.0	2975.69	169.31	TO
1210 2	391646101052901	09S 34W 11CCC 01	319628.53	4349651.50	3180.0	3047.23	132.77	TO
1211 2	391718101032301	09S 34W 12ADA 01	322662.22	4350552.00	3199.0	3026.77	172.23	TO
1212 2	391639101080801	09S 34W 17ABA 01	315805.69	4349587.00	3229.0	3069.75	159.25	TO
1213 2	391339101143501	09S 35W 32DAA 01	306381.66	4344296.50	3361.0	3175.91	185.09	TO
1214 2	392448101044301	07S 34W 26DBD 01	321029.53	4364518.00	3177.0	3046.87	130.13	TO
1215 2	392712101142001	07S 35W 09CCC 01	307268.12	4369387.50	3315.0	3181.56	133.44	TO
1216 2	392620101221101	07S 36W 17CCC 01	296003.06	4368081.50	3417.0	3266.76	150.24	TO
1217 2	393309101030601	06S 33W 07BBB 01	323662.91	4379943.50	3177.0	3037.40	139.60	TO
1219 2	393223101045601	06S 34W 11CDD 01	321033.56	4378622.00	3218.0	3053.20	164.80	TO
1220 2	393144101084301	06S 34W 17CBC 01	315557.12	4377590.50	3261.0	3099.81	161.19	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
1221 2	393045101054701	06S 34W 22DCA 01	319731.41	4375642.00	3207.0	3074.92	132.08	TO
1223 2	390940100480901	10S 31W 29AAB 01	344571.84	4336028.00	2997.0	2905.83	91.17	TO
1224 2	391217100514101	10S 32W 11BAA 01	339255.06	4340945.00	3072.0	2946.22	125.78	TO
1225 2	390901100545201	10S 32W 29DCB 01	334489.31	4335001.00	3064.0	2959.20	104.80	TO
1226 2	391303101031701	10S 33W 06BBC 01	322653.03	4342691.00	3191.0	3014.08	176.92	TO
1227 2	391217100583201	10S 33W 11BAB 01	329436.72	4341129.50	3140.0	2982.07	157.93	TO
1228 2	391001101031001	10S 33W 19CBD 01	322693.44	4337053.50	3161.0	3048.46	112.54	TO
1229 2	391200101041601	10S 34W 12BCD 01	321176.91	4340709.00	3220.0	3048.67	171.33	TO
1230 2	390936101085301	10S 34W 29BBC 01	314423.62	4336542.00	3208.0	3120.30	87.70	TO
1231 2	391221101135301	10S 35W 09ABB 01	307313.84	4341848.00	3290.0	3179.40	110.60	TO
1232 2	391043101211101	10S 36W 16CCC 01	296790.12	4339142.00	3366.0	3231.71	134.29	TO
1233 2	392243100560301	06S 34W 31CDB 01	314219.66	4372606.00	3255.	3116.81	138.19	TO
1234 2	393316101113801	06S 35W 02CDD 01	311469.34	4380531.00	3245.0	3113.91	131.09	TO
1235 2	393020101113101	06S 35W 26ACB 01	311505.66	4375104.00	3300.0	3139.58	160.42	TO
1236 2	393310101231501	06S 36W 07BBB 01	294834.84	4380772.00	3410.	3227.91	182.09	TO
1237 2	393250101181301	06S 36W 11ACC 01	302006.78	4379990.50	3360.0	3181.75	178.25	TO
1238 2	392955101224301	06S 36W 30DCB 01	295426.41	4374736.00	3417.0	3257.39	159.61	TO
1239 2	392249100461301	08S 31W 03CDD 01	347677.88	4360284.50	3003.0	2855.02	147.98	TO
1240 2	392013100483101	08S 31W 20CDD 01	344376.16	4355543.00	3026.0	2898.06	127.94	TO
1241 2	392243100560301	08S 32W 07BAA 01	333337.22	4360404.50	3102.0	2973.64	128.36	TO
1242 2	392210100502301	08S 32W 12DBC 01	341461.72	4359216.00	3057.0	2928.49	128.51	TO
1243 2	391940100521901	08S 32W 27DAB 01	338530.84	4354642.50	3078.0	2948.79	129.21	TO
1244 2	391908100595301	08S 33W 34BBC 01	327753.44	4353856.50	3168.0	3006.82	161.18	TO
1245 2	392329101040201	08S 34W 01BAC 01	321970.97	4362064.50	3177.0	3046.36	130.64	TO
1249 2	392303101095401	08S 34W 06CBC 01	313528.25	4361559.00	3266.0	3126.12	139.88	TO
1250 2	392027101051901	08S 34W 23CBD 01	319991.91	4356486.50	3232.0	3045.75	186.25	TO
1251 2	391922101084901	08S 34W 29CCC 01	314894.19	4354657.00	3283.0	3069.95	213.05	TO
1252 2	392252101142201	08S 35W 04CCC 01	307053.59	4361359.50	3302.0	3206.86	95.14	TO
1253 2	392127101195901	08S 36W 15CBB 01	298947.69	4358967.50	3365.0	3278.00	87.00	TO
1254 2	392153101223802	08S 36W 18ABA 02	295154.03	4359852.50	3428.0	3295.14	132.86	TO
1255 2	391858101231301	08S 36W 31BCD 01	294191.75	4354455.50	3369.0	3325.27	43.73	TO
1256 2	392946100550001	06S 36W 34DDB 01	300603.03	4372996.00	3334.0	3222.03	111.97	TO
1257 2	393348100454501	06S 31W 03ADB 01	348779.16	4380614.00	2957.0	2842.05	114.95	TO
1258 2	393127100490701	06S 31W 19ABA 01	343681.12	4376306.00	3010.0	2890.84	119.16	TO
1260 2	393236100505101	06S 32W 12CBC 01	341168.06	4378562.50	3020.0	2901.70	118.30	TO
1261 2	392946100550001	06S 32W 29CDC 01	334989.25	4373459.50	3077.0	2950.55	126.45	TO
1262 2	392809100433901	07S 31W 01DCA 01	351517.09	4370106.00	2956.0	2832.03	123.97	TO
1263 2	392736100554301	07S 32W 07ACA 01	333924.53	4369658.00	3056.0	2974.53	81.47	TO
1264 2	392631100501201	07S 32W 13DBD 01	341870.47	4367275.50	3028.0	2912.42	115.58	TO
1265 2	392414100541201	07S 32W 33BCB 01	335947.94	4363167.00	3082.0	2954.73	127.27	TO
1266 2	392743101024401	07S 33W 07BDA 01	323990.03	4369863.50	3203.0	3045.16	157.84	TO
1267 2	392520101031901	07S 34W 25AAA 01	323079.19	4365460.00	3167.0	3039.84	127.16	TO
1268 2	391552100485901	09S 31W 17CCC 01	343571.75	4347479.50	3016.0	2924.41	91.59	TO
1269 2	391401100433101	09S 31W 36AAB 01	351148.94	4343909.50	3013.0	2863.27	149.73	TO
1272 2	384959101545901	14S 41W 18DCB 01	246842.55	4301906.00	3778.0	3601.94	176.06	TO
1273 2	384946101521301	14S 41W 22BBC 01	250857.62	4301174.00	3729.0	3575.90	153.10	TO
1274 2	385130101584201	14S 42W 10BAA 01	241936.22	4304857.50	3838.0	3634.03	203.97	TO
1275 2	384854102023701	14S 43W 25ABA 01	235674.16	4300180.99	3885.0	3672.46	212.5	TO
1276 2	385314102024201	13S 43W 36ABB 01	235896.23	4308248.48	3894.0	3695.90	198.1	TO
1278 2	384630101343101	15S 38W 05CCB 01	276382.41	4294734.00	3531.0	3423.02	107.98	TO
1279 2	384441101310301	15S 38W 14CCD 01	281274.91	4291212.00	3486.0	3376.15	109.85	TO
1280 2	384347101332601	15S 38W 21CCC 01	277792.62	4289670.00	3510.0	3352.95	157.05	TO
1281 2	384651101374201	15S 39W 02BCA 01	271765.44	4295631.50	3585.0	3427.66	157.34	TO
1282 2	384644101420801	15S 39W 06CBC 01	265085.03	4295165.50	3631.0	3457.95	173.05	TO
1283 2	384558101403701	15S 39W 08ACC 01	267463.28	4293909.00	3623.0	3451.14	171.86	TO
1284 2	384323101372101	15S 39W 26ACC 01	272099.00	4288960.50	3561.0	3391.20	169.80	TO
1285 2	384710101451901	15S 40W 03BAB 01	260690.89	4296273.00	3636.0	3493.27	142.73	TO
1286 2	384539101461101	15S 40W 09DCB 01	259366.05	4293470.50	3653.0	3502.64	150.36	TO
1287 2	384710101501101	15S 41W 02AAA 01	253691.30	4296440.50	3766.0	3541.02	224.98	TO
1288 2	384657101535501	15S 41W 05ACB 01	248228.67	4296231.00	3794.0	3579.17	214.83	TO
1289 2	384310101521901	15S 41W 27CBC 01	250337.83	4289059.00	3750.0	3544.35	205.65	TO
1290 2	384212101491702	15S 41W 36DDB 02	254703.89	4287127.50	3695.0	3535.01	159.99	TO
1291 2	384238102004501	15S 42W 32BDA 01	238018.86	4288460.38	3901.0	3627.63	273.4	TO
1292 2	384206101562901	15S 42W 36CDC 01	244207.95	4287247.00	3844.0	3591.00	253.00	TO
1294 2	384900101324801	14S 38W 21DCC 01	278969.06	4299307.50	3538.0	3455.23	82.77	TO
1295 2	384828101393701	14S 39W 28CAA 01	269068.16	4298506.50	3602.0	3449.36	152.64	TO
1296 2	384952101442601	14S 40W 14CCC 01	262105.39	4301274.00	3610.0	3494.39	115.61	TO
1297 2	384854101470601	14S 40W 29ABA 01	258221.88	4299548.50	3702.0	3509.96	192.04	TO
1298 2	382852101250901	18S 37W 21BBB 01	288804.19	4261671.50	3360.0	3200.72	159.28	TO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
1299 2	382753101211901	18S 37W 25ABC 01	294393.44	4259741.00	3302.0	3177.53	124.47	TO
1300 2	383109101293201	18S 38W 02BCC 01	282631.28	4266060.00	3414.0	3253.64	160.36	TO
1301 2	382831101321702	18S 38W 20ACC 02	278500.22	4261308.00	3440.0	3304.67	135.33	TO
1302 2	381920101104901	20S 35W 15BBB 01	309446.62	4243517.50	3129.2	3059.21	69.99	TO
1303 2	381804101144001	20S 36W 24ACC 01	303785.44	4241427.00	3200.0	3099.86	100.14	TO
1304 2	381643101254101	20S 37W 29DCC 01	287637.22	4239354.50	3359.0	3256.28	102.72	TO
1305 2	381840101324401	20S 38W 17CBD 01	277477.78	4243215.00	3442.0	3303.51	138.49	TO
1306 2	381635101313701	20S 38W 33BBA 01	278985.16	4239348.50	3424.0	3286.52	137.48	TO
1308 2	382633101332401	18S 38W 31DBC 01	276843.47	4257712.50	3450.0	3331.29	118.71	TO
1309 2	384200101132301	16S 35W 06AAB 01	306615.72	4285680.00	3208.0	3129.37	78.63	TO
1310 2	383757101204701	16S 36W 30CBC 01	295634.97	4278296.00	3319.0	3160.56	158.44	TO
1311 2	383652101172902	16S 36W 34CCC 02	300387.22	4276180.00	3275.0	3128.95	146.05	TO
1312 2	384014101261501	16S 37W 17BBB 01	287694.69	4282683.50	3399.0	3242.86	156.14	TO
1313 2	383829101270401	16S 37W 30BAB 01	286540.34	4279490.50	3404.0	3239.82	164.18	TO
1314 2	383639101091301	17S 35W 02ABC 01	312430.97	4275481.00	3185.0	3026.42	158.58	TO
1315 2	383416101133801	17S 35W 18DCC 01	305910.41	4271211.50	3227.0	3067.64	159.36	TO
1316 2	383231101105201	17S 35W 27CCC 01	309858.03	4267882.00	3195.0	3043.95	151.05	TO
1317 2	383251101141001	17S 35W 30CBB 01	305059.06	4268591.50	3235.0	3065.65	169.35	TO
1318 2	383210101183401	17S 36W 33BCB 01	298575.12	4267517.00	3286.0	3127.54	158.46	TO
1319 2	382618101080501	19S 35W 01ABB 01	313610.97	4256337.00	3158.0	3055.94	102.06	TO
1320 2	382526101130201	19S 35W 08BBB 01	306328.22	4254859.50	3217.0	3116.75	100.25	TO
1321 2	382431101170201	19S 36W 15BAA 01	300522.25	4253383.00	3236.0	3155.14	80.86	TO
1322 2	382337101231301	19S 37W 22AAB 01	291468.31	4251957.00	3330.0	3225.62	104.38	TO
1323 2	382244101243501	19S 37W 28ABB 01	289432.00	4250384.00	3357.0	3247.68	109.32	TO
1324 2	382204101293301	19S 38W 26CCB 01	282257.16	4249333.00	3408.0	3309.78	98.22	TO
1325 2	382118101335801	19S 38W 31CBC 01	275817.28	4248069.00	3463.0	3321.90	141.10	TO
1326 2	383551101255001	17S 37W 08BAA 01	288081.19	4274615.50	3374.0	3231.35	142.65	TO
1327 2	383414101212801	17S 37W 13CDD 01	294443.09	4271438.00	3300.0	3179.51	120.49	TO
1328 2	383241101250901	17S 37W 28CBC 01	288938.41	4268741.50	3359.0	3214.30	144.70	TO
1329 2	383202101215201	17S 37W 36BCC 01	293432.88	4248082.50	3316.0	3170.38	145.62	TO
1330 2	383406101314401	17S 38W 21BBB 01	279550.16	4271573.50	3446.0	3317.31	128.69	TO
1331 2	383227101314401	17S 38W 28CCC 01	279461.34	4268542.50	3446.0	3298.38	147.62	TO
1332 2	384106101300501	16S 38W 10ABB 01	282294.06	4284406.50	3458.0	3300.71	157.29	TO
1333 2	383829101293201	16S 38W 26BBB 01	282992.34	4279554.00	3424.0	3275.68	148.32	TO
1334 2	383929101084101	16S 35W 13CCC 01	313362.97	4280685.00	3182.0	3020.07	161.93	TO
1335 2	383033101130402	18S 35W 08BBC 02	306546.53	4264333.50	3217.0	3078.25	138.75	TO
1336 2	382902101090301	18S 35W 14DCD 01	312325.41	4261375.00	3171.0	3054.41	116.59	TO
1337 2	382625101131101	18S 35W 31DDD 01	306176.91	4256684.00	3210.0	3110.30	99.70	TO
1338 2	375153098274401	25S 10W 19ABD 01	547561.00	4190803.50	1790.0	1758.85	31.15	QU
1339 2	374045098211401	27S 10W 24DAD 01	556788.56	4170184.00	1692.0	1673.80	18.20	QU
1340 2	384711101574701	15S 42W 02BBB 01	242618.02	4296778.00	3854.0	3642.16	211.84	TO

APPENDIX B
OBSERVATION WELLS WITH CODES OTHER THAN QU OR TO
OR OUTSIDE THE HIGH PLANES AQUIFER

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
4 1	370048100342101	35S 30W 10CDA 01	360322.31	4097748.75	2393.	2368.	25.	QAQUTO
145 1	373820099442701	28S 22W 05ADD 01	434623.34	4165812.5	2370.	2350.49	19.51	QAQU
164 1	374048099474001	27S 23W 24BCB 01	429733.66	4171162.75	2395.	2340.29	54.71	KD
171 1	374214099360301	27S 21W 10DBB 01	446544.34	4174107.	2291.	2287.82	3.18	QAQU
173 1	374221101281501	27S 38W 15BBB 01	282032.34	4176019.25	3148.	2962.6	185.4	KJ
198 1	374507101580601	26S 43W 25DCC 01	238304.16	4182366.5	3508.	3266.03	241.97	QUTOKJ
199 1	374529099433401	26S 22W 21DCD 01	435845.53	4179797.5	2377.	2337.58	39.42	KD
208 1	374657100124101	26S 26W 18CCB 01	263013.53	4182112.5	2558.	2544.85	13.15	QAQU
210 1	374708101562401	26S 42W 17CBB 01	241001.86	4186162.5	3458.	3259.49	198.51	QUTOKJ
211 1	374725099485601	26S 23W 10DAD 01	428218.66	4183524.	2463.	2282.52	180.48	KD
216 1	374848100250301	26S 28W 06DDB 01	375075.25	4185878.5	2647.	2634.56	12.44	QAQU
223 1	374936100052801	25S 25W 32CDD 01	403934.34	4186945.75	2607.	2404.68	202.32	QUKD
232 1	375028099434701	25S 22W 27CCD 01	435718.12	4188259.75	2432.	2390.56	41.44	KD
236 1	375116101410801	25S 40W 26BBB 01	263595.69	4192903.	3412.	3185.66	226.34	KJ
240 1	375150101304801	25S 38W 20ACC 01	278822.25	4193540.25	3175.	3087.64	87.36	QUTOKJ
248 1	375305101215502	25S 37W 15ABA 02	291922.62	4195491.5	3050.	3042.64	7.36	QA
249 1	375307099492701	25S 23W 11CCC 01	427398.28	4193080.25	2424.	2343.97	80.03	KD
251 1	375328101305701	25S 38W 08CAA 01	278708.41	4196515.	3140.	3095.43	44.57	QUTOKJ
253 1	375353099482001	25S 23W 12BBB 01	428963.31	4194667.	2390.	2231.54	158.46	KD
260 1	375446102013601	25S 43W 03ABB 01	234013.84	4200331.	3575.	3306.27	268.73	KJ
270 1	375531101342601	24S 39W 35BAC 01	273790.78	4200547.5	3143.	3135.35	7.65	QA
272 1	375544101553801	24S 42W 28DDD 01	242708.47	4201768.5	3455.	3285.23	169.77	KJ
278 1	375643101355001	24S 39W 22CCB 01	271855.94	4202821.	3152.	3140.67	11.33	QA
279 1	375650101390001	24S 39W 19CBC 01	267211.94	4203069.5	3175.	3166.57	8.43	QA
280 1	375653099392401	24S 21W 20CBB 01	441950.09	4200090.	2348.	2272.82	75.18	KD
283 1	375706100585702	24S 33W 19DBB 02	329715.31	4202313.	2927.8	2809.12	118.68	KD
284 1	375718101071301	24S 35W 24BCB 01	313647.94	4202818.5	2941.4	2912.64	28.76	QA
286 1	375722101402101	24S 40W 23AAB 01	265176.84	4204247.5	3204.	3179.21	24.79	QA
290 1	375749102010201	24S 43W 14CBB 01	234905.19	4205868.5	3452.	3332.16	119.84	KJ
292 1	375812100591302	24S 33W 18BDB 02	325349.47	4204019.	2878.	2784.55	93.45	KD
293 1	375815101442401	24S 40W 17BBB 01	259086.7	4205974.	3221.	3207.31	13.69	QA
298 1	375832100571003	24S 33W 09CCD 03	328370.91	4204593.5	2865.	2807.58	57.42	KD
299 1	375841101453401	24S 40W 07CBB 01	257316.59	4206823.	3233.	3218.79	14.21	QA
303 1	375927101454301	24S 41W 01DAD 01	257422.88	4208233.	3254.	3234.72	19.28	QAQU
304 1	375953101553901	24S 42W 04AAD 01	242879.23	4209479.	3304.	3271.24	32.76	QA
307 1	375958099530101	24S 23W 06AAB 01	422361.69	4206004.	2457.	2253.05	203.95	KD
313 1	380025101553001	23S 42W 34CBB 01	243030.81	4210543.5	3307.	3297.27	9.73	QA
318 1	380105101433601	23S 40W 29DDB 01	260398.41	4211190.5	3397.	3083.34	313.66	KU
319 1	380105101534401	23S 42W 26DCA 01	245735.39	4211636.5	3309.	3283.88	25.12	QA
320 1	380105101544101	23S 42W 27DDB 01	244457.62	4211732.	3311.	3289.03	21.97	QA
323 1	380111101594702	23S 43W 25CBD 02	237022.67	4212164.	3335.	3327.48	7.52	QA
324 1	380124102010201	23S 43W 26BCC 01	235080.12	4212437.5	3343.	3335.58	7.42	QA
335 1	380210101584801	23S 42W 19CBB 01	238449.53	4213644.5	3339.	3314.3	24.7	QAQU
336 1	380223102010301	23S 43W 23BCB 01	235238.27	4214334.	3356.	3335.54	20.46	QA
337 1	380236102023501	23S 43W 21ABA 01	232996.11	4214818.5	3364.	3351.42	12.58	QA
343 1	380335100132701	23S 26W 07CCC 01	392521.56	4212888.	2612.	2296.26	315.74	KD
347 1	380351099461501	23S 22W 07DAA 01	432352.47	4212979.5	2239.	2157.19	81.81	KD
348 1	380352099550501	23S 24W 11DAA 01	419525.5	4213371.5	2335.	2209.94	125.06	KD
349 1	380412099473801	23S 23W 12ABD 01	430326.03	4213562.5	2256.	2189.14	66.86	KD
350 1	380432099505701	23S 23W 04DCA 01	425481.97	4214477.5	2236.	2211.1	24.9	KD
355 1	380504099504001	23S 23W 04AAD 01	425892.19	4215432.5	2235.	2209.77	25.23	KD
359 1	380530099551301	22S 24W 35DAC 01	419296.56	4216407.5	2312.	2204.95	107.05	KD
362 1	380609099540701	22S 24W 25DDC 01	420931.38	4217466.	2332.	2203.93	128.07	KD
363 1	380616099550401	22S 24W 26DDA 01	419550.72	4217617.	2365.	2212.67	152.33	KD
365 1	380652099105701	22S 17W 27BAB 01	484241.66	4218472.5	2035.	2029.51	5.49	QA
366 1	380701099535801	22S 24W 24DDD 01	420911.34	4219120.5	2360.	2207.11	152.89	KD
367 1	380712099090001	22S 17W 24CBC 01	486966.44	4218933.	2034.	2024.65	9.35	QA
371 1	380752099414101	22S 22W 13CCC 01	438936.47	4220445.	2152.	2126.81	25.19	QA
375 1	380823100144801	22S 27W 14ADC 01	390655.62	4221797.	2458.	2289.95	168.05	KJ
376 1	380827099564301	22S 24W 15BDA 01	418058.81	4221860.	2463.	2207.37	255.63	KD
378 1	380929099240301	22S 19W 10BBA 01	464791.09	4223537.5	2087.	2036.74	50.26	KD
379 1	380930099263001	22S 19W 07AAA 01	461248.5	4223530.5	2102.	2046.08	55.92	KD
381 1	380932101045601	22S 34W 08BCB 01	317368.28	4225264.5	2987.	2851.5	135.5	KN
383 1	380949099043602	22S 16W 03CBC 02	493348.5	4223849.5	1996.	1982.7	13.3	QAQU
384 1	381015099132702	22S 17W 05BBC 02	480477.41	4224788.5	2036.	2016.53	19.47	QA
385 1	381021099074601	22S 16W 06BBA 01	488718.25	4224927.5	2010.	1994.89	15.11	QAQU
388 1	381047099185301	21S 18W 32DAA 01	472419.47	4225674.	2056.	2031.63	24.37	QA
390 1	381120099241101	21S 19W 27CCC 01	464508.06	4226836.5	2076.7	2034.4	42.3	QA
392 1	381147099272701	21S 19W 30BCC 01	459709.16	4227707.	2087.	2042.73	44.27	QA
394 1	381207099325201	21S 20W 29BBB 01	451654.38	4228421.	2104.	2063.08	40.92	QA
398 1	381333099025001	21S 16W 14ADC 01	496073.31	4230618.	1970.	1955.37	14.63	QAQU
399 1	381340101010701	21S 34W 14DBB 01	323117.31	4232914.5	2947.	2845.66	101.34	KN
400 1	381419098565201	21S 15W 11CBB 01	504456.03	4232234.5	1932.	1924.22	7.78	QA
402 1	381550099532001	20S 23W 32CDA 01	422295.44	4235263.5	2233.	2199.62	33.38	QA
403 1	381609099434801	20S 22W 35BCC 01	436004.78	4235769.5	2168.	2132.03	35.97	QA
404 1	381614098583801	20S 15W 33ADD 01	501871.38	4235585.5	1945.	1926.5	18.5	QAQU
406 1	381728099470701	20S 22W 20CCC 01	431143.81	4238214.5	2189.	2150.09	38.91	QA
409 1	381734098511501	20S 14W 22DCB 01	512478.5	4238028.	1897.	1884.	13.	QAQU

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
410 1	381739098552101	20S 15W 24DBD 01	506481.12	4238003.5	1915.	1902.4	12.6	QAQU
412 1	381946100141801	20S 26W 07BDC 01	391676.	4242666.	2538.	2518.42	19.58	QA
413 1	382004098352101	20S 11W 06CCC 01	535814.19	4242926.	1788.	1779.34	8.66	QA
414 1	382018098375001	20S 12W 03DAC 01	532159.38	4243104.5	1799.	1793.76	5.24	QA
416 1	382104098453301	19S 13W 33DDB 01	520922.47	4244485.5	1847.5	1838.43	9.07	QA
417 1	382137098493201	19S 14W 36BBC 01	514891.47	4245400.	1868.	1857.84	10.16	QAQU
419 1	382202098391201	19S 12W 28DBC 01	530190.06	4246207.	1815.	1801.44	13.56	QAQU
422 1	382321098503701	19S 14W 23BBD 01	513379.56	4248678.	1873.	1856.66	16.34	QA
423 1	382447099534801	19S 23W 08CBB 01	421588.22	4251844.	2220.	2202.35	17.65	QAQU
424 1	382506098470501	19S 13W 08BAD 01	518860.38	4251937.	1855.	1839.59	15.41	QA
425 1	382526099492301	19S 23W 01CCB 01	428146.25	4253084.5	2214.	2126.6	87.4	KD
427 1	382632099411501	18S 21W 31CAA 01	439938.56	4254995.	2122.	2095.52	26.48	QAQU
428 1	382645099551201	18S 24W 36ADB 01	419760.94	4255517.5	2235.	2203.02	31.98	QA
429 1	382656100055901	18S 25W 33BBC 01	403915.38	4255791.	2402.	2387.01	14.99	QA
431 1	382704098593803	18S 15W 28CCC 03	500493.31	4255717.5	1912.5	1903.5	9.	QA
432 1	382749099352001	18S 21W 25AAB 01	448621.16	4257386.5	2085.	2060.14	24.86	QA
433 1	383129100142402	18S 26W 06BAB 02	391719.56	4264313.5	2570.	2563.1	6.9	QATO
444 1	391052101531101	10S 41W 15CAD 01	250782.31	4340550.5	3762.	3733.04	28.96	QATO
445 1	391158101460401	10S 40W 10ADC 01	261147.94	4342365.	3624.	3605.96	18.04	QATO
498 1	393310101295101	06S 37W 07BBA 01	285438.84	4381118.	3304.	3296.64	7.36	QA
516 1	394218101551201	04S 41W 16DAA 01	249674.84	4398843.	3403.	3387.29	15.71	QA
530 1	394850101490002	03S 40W 09BAA 02	259073.14	4410765.5	3358.	3338.8	19.2	QATO
538 1	395606101391601	01S 39W 25CBC 01	273204.34	4423737.5	3102.	3092.43	9.57	QA
539 1	395619101375201	01S 38W 30BDC 01	275193.62	4424166.5	3090.	3081.67	8.33	QA
540 1	395829101362501	01S 38W 08DCC 01	277424.72	4428077.	3057.1	3043.75	13.35	QA
541 1	395921101331801	01S 38W 02CDC 01	281760.47	4429382.5	3034.	3011.2	22.8	QA
547 2	395307100243001	02S 28W 13ABA 01	379548.88	4415766.50	2487.0	2462.65	24.35	QA
550 2	394859100301701	03S 28W 06DCB 01	371194.06	4408244.50	2571.0	2544.59	26.41	QA
552 2	394846100314901	03S 29W 12BBA 01	369030.03	4407870.00	2556.1	2541.60	14.50	QA
553 2	394715100355501	03S 29W 17DCB 01	363133.47	4405198.50	2587.0	2568.90	18.10	QATO
554 2	394432100370401	03S 29W 31DCC 01	361434.78	4400232.00	2633.0	2614.67	18.33	QA
555 2	394610100395001	03S 30W 26BBB 01	357516.03	4403322.50	2629.0	2622.50	6.50	QA
556 2	394248100150801	04S 26W 08DDD 01	392350.38	4396452.50	2455.7	2427.80	27.90	QA
557 2	394110100163301	04S 26W 19DCA 01	390327.72	4393466.00	2464.0	2449.92	14.08	QA
559 2	394005100215501	04S 27W 33BBB 01	382849.19	4391581.50	2528.0	2513.28	14.72	QA
562 2	394335100441701	04S 30W 07BBB 01	350933.06	4398616.00	2697.0	2690.32	6.68	QA
564 2	393505100115901	05S 26W 26DDA 01	396666.88	4382085.00	2437.0	2416.23	20.77	QA
565 2	393407100143101	05S 26W 33DCC 01	393124.94	4380358.00	2475.0	2458.25	16.75	QA
567 2	393814100305401	05S 28W 07BBC 01	369995.66	4388357.00	2644.0	2630.06	13.94	QA
568 2	393820100273201	05S 28W 10BBB 01	374798.28	4388488.00	2600.0	2593.09	6.91	QA
571 2	393610100341701	05S 29W 22CBB 01	365090.56	4384673.50	2686.0	2674.95	11.05	QA
574 2	395740100161901	01S 26W 18DDB 01	391061.31	4423987.50	2413.0	2389.32	23.68	QA
575 2	395925100331901	01S 29W 03DDB 01	367184.59	4427598.50	2539.0	2515.07	23.93	QA
576 2	395708100370701	01S 29W 19BDD 01	361720.09	4423501.00	2572.0	2559.79	12.21	QA
577 2	395458100395501	01S 30W 34DDD 01	357623.69	4419556.00	2610.0	2589.55	20.45	QA
581 2	375513099231701	24S 19W 34ADD 01	465941.69	4196978.50	2160.0	2152.94	7.06	QA
590 2	375329099260101	25S 19W 08BDD 01	461891.16	4193763.00			2.69	QA
594 2	374935099304801	25S 20W 34CCC 01	454773.50	4186482.25	2219.0	2214.35	4.65	QA
610 2	374558099321601	26S 20W 20BBC 01	452388.56	4180808.00	2251.0	2242.33	8.67	QA
611 2	384305099232201	15S 19W 25CAB 01	466263.03	4285312.50	1937.0	1921.61	15.39	QA
612 2	385313099211601	13S 18W 29CCC 01	469361.19	4304006.50	2000.0	1986.30	13.70	QU
613 2	385115099155401	14S 18W 12AAD 01	477173.59	4300367.00	2000.0	1976.31	23.69	QU
614 2	384246099165101	15S 18W 25CCD 01	475728.19	4284682.00	1910.0	1894.87	15.13	QA
618 2	385423100142501	13S 26W 20CBC 01	392278.59	4306806.00	2432.0	2426.59	5.41	QA
619 2	385519100193402	13S 27W 16CA 02	384883.84	4308658.00	2490.0	2476.45	13.55	QA
620 2	385532100234301	13S 28W 14AC 01	378891.28	4309223.50	2538.0	2530.51	7.49	QU
650 2	392151099410501	08S 21W 17ABB 01	440920.59	4357202.50	2035.0	2014.49	20.51	QA
651 2	392105099491801	08S 22W 18CDC 01	429219.22	4355858.50	2122.0	2114.22	7.78	QA
652 2	392038099575401	08S 24W 23ACC 01	416782.09	4355073.50	2242.0	2212.43	29.57	QA
653 2	392058100035201	08S 25W 24BAB 01	408384.03	4355777.00	2302.0	2276.70	25.30	TO
661 2	373015101300701	29S 38W 20CDC 01	278865.25	4153653.25	3139.0	2929.80	209.2	QUTOKJ
669 2	372825101153801	30S 36W 04ABB 01	300116.28	4149632.00	3033.0	2872.43	160.6	QUTOKJ
671 2	372759101210001	30S 37W 03DBA 01	292238.88	4149029.75	3108.0	2806.28	301.7	QUTOKJ
673 2	372556101260201	30S 38W 13CCC 01	284711.03	4145428.00	3142.0	2908.36	233.6	QUTOKJ
687 2	383247101573601	17S 42W 28DAB 01	242054.39	4270187.50	3762.0	3733.85	28.15	TO
702 2	380002097401703	23S 03W 32DCC 03	616498.56	4206500.00	1444.0	1433.51	10.49	QA
722 2	374139097591601	27S 06W 16CCB 01	589107.12	4172031.50	1462.0	1459.59	2.41	QA
739 2	373819098154001	28S 09W 01BCC 01	565063.62	4165814.75	1580.0	1572.65	7.35	QAQU
797 2	385421101210001	13S 36W 20CCB 01	296185.84	4308857.50	3023.0	3014.25	8.75	QA
824 2	372135101491101	31S 41W 07CDD 01	250293.98	4138409.50	3441.0	3306.76	134.2	KJ
825 2	371817101492301	31S 41W 31CBC 01	249497.34	4132384.50	3441.0	3337.93	103.1	KJ
826 2	371945101541201	31S 42W 29AAB 01	242749.23	4135224.00	3510.0	3404.31	105.7	QUTOKJ
828 2	371649101424801	32S 40W 07BDC 01	259471.88	4129240.00	3302.0	3187.32	114.7	QUTOKJ
827 2	372043101572701	31S 43W 14DDC 01	238012.45	4137194.00	3576.0	3502.80	73.20	KD
830 2	371531101460301	32S 41W 15CDC 01	254569.39	4126971.00	3360.0	3335.48	24.52	QUTOKJ
831 2	371255101444201	32S 41W 35DCC 01	256457.91	4122072.50	3420.0	237.98	182.0	QUTOKJ
832 2	371531101514501	32S 42W 14CCC 01	246138.56	4127230.75	3500.0	3364.83	135.2	QUTOKJ
833 2	371505101535601	32S 42W 21BCC 01	242898.39	4126541.00	3526.0	3369.47	156.5	QUTOKJ

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
834 2	371347101512101	32S 42W 26CDD 01	246652.70	4123977.75	3485.0	3325.22	159.8	QUTOKJ
835 2	371636102012301	32S 43W 08CBD 01	763929.31	4129560.00	3615.0	3507.80	107.2	QUTOKJ
836 2	371426102002601	32S 43W 28BBC 01	765491.19	4125558.00	3526.0	3455.01	71.0	QUTOKJ
843 2	371130101594601	33S 43W 09DBA 01	234105.52	4120116.75	3612.0	3516.99	95.01	QUTOKJ
844 2	370655101362201	34S 39W 06CCA 01	268451.06	4110635.00	3310.0	3185.47	124.5	QUTOKJ
849 2	372043101363101	31S 39W 18CCC 01	268878.03	4136211.75	3246.0	3017.87	228.1	QUTOKD
856 2	393709099594501	05S 24W 14BDC 01	414515.16	4385682.50	2250.0	2238.00	12.00	QU
867 2	393822099395801	05S 21W 10AAA 01	442817.50	4387666.00	1996.0	1988.26	7.74	QA
868 2	393643099505401	05S 22W 18CCD 01	427159.94	4384746.00	2130.0	2122.28	7.72	QA
869 2	392710098591901	07S 15W 10CCC 01	501004.34	4366760.50	1648.0	1631.71	16.29	QA
870 2	393038098374501	06S 12W 23CDC 01	531731.12	4373299.00	1505.8	1490.81	14.99	QU
871 2	392518098393601	07S 12W 28ABA 01	529011.56	4363525.50	1531.0	1501.71	29.29	QU
872 2	394013099194801	04S 18W 27DDD 01	471804.41	4390941.50	1770.0	1760.10	9.90	QA
873 2	393922099253001	04S 19W 35DDD 01	463761.53	4389356.00	1851.0	1839.50	11.50	QA
895 2	373905098332501	27S 11W 31DAA 01	539041.50	4167073.25	1726.0	1721.05	4.95	QA
917 2	395038100592301	02S 33W 26DCC 01	329820.97	4412078.50	2798.0	2781.60	16.40	QA
919 2	395006101140801	02S 35W 34CAA 01	308927.88	4411600.00	3064.0	3032.10	31.90	QATO
930 2	394854101003101	03S 33W 03DCC 01	328162.47	4408900.50	2823.0	2802.65	20.35	QA
931 2	394802101030301	03S 33W 08CDC 01	324488.28	4407392.50	2855.0	2840.60	14.40	QA
932 2	394940101071501	03S 34W 03ABB 01	318638.28	4410522.00	2882.0	2871.40	10.60	QA
933 2	394236100480601	04S 31W 16ABD 01	345493.34	4396878.00	2761.0	2753.50	7.50	QA
939 2	394605101062601	03S 34W 26BAC 01	319653.19	4403897.50	2900.0	2892.60	7.40	QA
940 2	394637101122001	03S 35W 24CBB 01	311338.84	4405111.00	3001.0	2975.94	25.06	QA
944 2	395419100471001	02S 31W 03CAD 01	347197.31	4418561.50	2665.0	2652.56	12.44	QA
945 2	395130100555301	02S 32W 20DCD 01	334750.03	4413618.50	2735.0	2728.10	6.90	QA
946 2	380329098051701	23S 07W 09DDD 01	579995.50	4212457.00			8.02	QA
973 2	375507097474502	24S 04W 31DAB 02	605763.19	4197255.00	1487.0	1461.63	25.37	QA
985 2	375457098281801	24S 10W 31CBC 01	546546.56	4196431.50	1750.0	1739.97	10.03	QAQU
990 2	380825098015601	22S 06W 18BCB 01	584948.38	4221576.50			9.00	QA
991 2	380614097594201	22S 06W 28CCB 01	588117.81	4217515.00	1555.0	1546.00	9.00	QA
1006 2	380423097531701	23S 05W 05DDC 01	597478.62	4214305.00	1529.0	1510.35	18.65	QA
1008 2	381918098152601	20S 09W 12DDA 01	564879.88	4241550.00	1664.0	1652.51	11.49	QA
1009 2	381530098053501	21S 07W 04AAC 01	579541.31	4234614.50	1615.0	1600.36	14.64	QA
1010 2	381134098040201	21S 07W 26CBD 01	581851.12	4227411.50	1595.0	1582.19	12.81	QA
1011 2	381411098125601	21S 08W 09CBD 01	568951.56	4232107.50	1647.0	1635.38	11.62	QA
1012 2	381203098090501	21S 08W 25ABB 01	574429.56	4228370.00	1620.0	1614.73	5.27	QA
1013 2	381048098133501	21S 08W 32DBB 01	567988.38	4225844.00	1641.0	1635.06	5.94	QA
1014 2	381453098163801	21S 09W 02DDA 01	563748.38	4233467.50	1670.0	1657.04	12.96	QA
1015 2	381344098174702	21S 09W 15AAC 02	561944.19	4231227.50	1669.0	1663.00	6.00	QA
1016 2	381305098260401	21S 10W 16CDC 01	549892.75	4229942.50	1720.0	1714.10	5.90	QUQA
1017 2	381701098190001	20S 09W 28ACD 01	559660.38	4237272.00			19.40	QA
1018 2	381718098251501	20S 10W 27BBB 01	550442.44	4237768.00	1786.0	1753.89	32.11	KD
1019 2	381608098221001	20S 10W 36ACD 01	554690.12	4235611.50	1715.0	1702.75	12.25	QA
1020 2	381813098110101	20S 08W 22AAA 01	571321.81	4239563.50	1644.0	1629.70	14.30	QA
1021 2	392533099243701	07S 19W 23CDB 01	464633.69	4363898.00	1878.5	1863.47	15.03	QA
1022 2	392618099110701	07S 17W 14CDD 01	484080.91	4365204.50	1725.0	1708.57	16.43	QA
1028 2	382539100541601	19S 32W 06CCB 01	333719.25	4254730.50	2937.0	2859.44	77.56	QATO
1032 2	382223100594602	19S 33W 29CBB 02	325564.53	4248886.00	2994.0	2878.42	115.6	QATO
1062 2	375131097301402	25S 02W 23DBD 02	631423.25	4191016.25	1380.0	1364.51	15.49	QA
1063 2	375356097373601	25S 03W 03DDD 01	620495.81	4195266.50	1423.4	1413.03	10.37	QAQU
1074 2	374428097283501	26S 01W 31CCD 01	634182.06	4177614.75	1370.0	1332.42	37.58	QAQU
1078 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1344.72	15.28	QA
1079 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1344.62	15.38	QA
1080 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1344.70	15.30	QA
1081 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1345.04	14.96	QA
1100 2	393228100211301	06S 27W 08DCA 01	383663.28	4377490.50	2588.0	2572.11	15.89	QATO
1103 2	392123100105401	08S 26W 14DAA 01	398169.69	4356722.00	2398.0	2386.03	11.97	QA
1115 2	391801100273801	09S 28W 04BCC 01	374195.53	4350935.00	2677.0	2651.57	25.43	QATO
1121 2	390959100220001	10S 27W 20CBC 01	381908.06	4335947.50	2605.0	2588.10	16.90	QA
1122 2	391005100190401	10S 27W 22DBA 01	386139.62	4336055.50	2568.0	2550.71	17.29	QA
1124 2	390913100274901	10S 28W 29DAA 01	373669.88	4334675.00	2691.0	2656.05	34.95	QATO
1177 2	372715101513901	30S 42W 12ACC 01	246961.66	4149015.75	3457.0	3263.55	193.5	KJ
1178 2	372629101551101	30S 42W 16BDB 01	241685.88	4147785.75	3524.0	3351.28	172.7	KJ
1182 2	374138101562901	27S 42W 17CCC 01	240622.30	4175914.00	3496.0	3250.74	245.3	QUTOKJ
1186 2	373202101561501	29S 42W 08CDC 01	240451.98	4158132.00	3517.0	3325.99	191.0	KJ
1187 2	373024102011701	29S 43W 21DCDD01	763286.12	4155039.00	3566.0	3461.14	104.9	KD
1188 2	373024102012002	29S 43W 21DCDD02	763286.12	4155039.00	3568.0	3446.90	121.1	JM
1189 2	373024102012003	29S 43W 21DCDD03	763286.12	4155039.00	3566.0	3464.36	101.6	KD
1190 2	372840102014101	29S 43W 33CDB 01	762699.38	4152024.50	3654.0	3528.55	125.4	KJ
1191 2	373703101334001	28S 39W 14BBC 01	273962.34	4166288.00	3158.0	2992.83	165.2	QUTOKJ
1192 2	373624101355001	28S 39W 16CCC 01	270706.69	4165161.75	3171.0	2972.04	199.0	QUTOKD
1200 2	373433101563101	28S 42W 32BBB 01	240215.55	4162801.75	3540.0	3328.40	211.6	KJ
1203 2	372504101384901	30S 40W 24CDC 01	265729.94	4144366.50	3237.0	3052.41	184.6	QUTOKJ
1204 2	372326101422301	30S 40W 33CCB 01	260408.75	4141513.25	3309.0	3116.48	192.5	KJ
1206 2	372510101455601	30S 41W 23DDB 01	255272.17	4144901.00	3365.0	3173.12	191.9	QUTOKJ
1218 2	393039100574201	06S 33W 23DDD 01	331334.62	4375155.00	2997.0	2984.80	12.20	QA
1222 2	390940100443201	10S 31W 26AAA 01	349612.84	4335926.50	2891.0	2881.31	9.69	QATO
1259 2	392854100473701	06S 31W 33CCD 01	345936.50	4371642.50	2916.0	2880.63	35.37	QATO

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
1270 2	385026100025601	14S 25W 13ABC 01	409029.19	4299195.00	2245.0	2229.80	15.20	QA
1271 2	385919099542601	12S 23W 20CCC 01	421457.28	4315550.50	2373.6	2357.26	16.34	QATO
1293 2	385314101395701	13S 39W 33BBB 01	268834.06	4307387.00	3322.0	3296.60	25.40	TO
1307 2	382851101291601	18S 38W 23BAB 01	282937.34	4261821.50	3340.0	3268.90	71.10	QATO

APPENDIX C
OBSERVATION WELLS INSIDE THE BOUNDARIES
OF THE HIGH PLAINS AQUIFER CODED QA

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
4 1	370048100342101	35S 30W 10CDA 01	360322.31	4097748.75	2393.	2368.	25.	QAQUTO
145 1	373820099442701	28S 22W 05ADD 01	434623.34	4165812.5	2370.	2350.49	19.51	QAQU
171 1	374214099360301	27S 21W 10DBB 01	446544.34	4174107.	2291.	2287.82	3.18	QAQU
208 1	374657100124101	26S 26W 18CCB 01	393013.53	4182112.5	2558.	2544.85	13.15	QAQU
216 1	374848100250301	26S 28W 06DDB 01	375075.25	4185878.5	2647.	2634.56	12.44	QAQU
248 1	375305101215502	25S 37W 15ABA 02	291922.62	4195491.5	3050.	3042.64	7.36	QA
270 1	375531101342601	24S 39W 35BAC 01	273790.78	4200547.5	3143.	3135.35	7.65	QA
278 1	375643101355001	24S 39W 22CCB 01	271855.94	4202821.	3152.	3140.67	11.33	QA
279 1	375650101390001	24S 39W 19CBC 01	267211.94	4203069.5	3175.	3166.57	8.43	QA
284 1	375718101071301	24S 35W 24BCB 01	313647.94	4202818.5	2941.4	2912.64	28.76	QA
286 1	375722101402101	24S 40W 23AAB 01	265176.84	4204247.5	3204.	3179.21	24.79	QA
293 1	375815101442401	24S 40W 17BBB 01	259086.7	4205974.	3221.	3207.31	13.69	QA
299 1	375841101453401	24S 40W 07CBB 01	257316.59	4206823.	3233.	3218.79	14.21	QA
303 1	375927101454301	24S 41W 01DAD 01	257422.88	4208233.	3254.	3234.72	19.28	QAQU
304 1	375953101553901	24S 42W 04AAD 01	242879.23	4209479.	3304.	3271.24	32.76	QA
313 1	380025101553001	23S 42W 34CBB 01	243030.81	4210543.5	3307.	3297.27	9.73	QA
319 1	380105101534401	23S 42W 26DCA 01	245735.39	4211636.5	3309.	3283.88	25.12	QA
320 1	380105101544101	23S 42W 27DDB 01	244457.62	4211732.	3311.	3289.03	21.97	QA
323 1	380111101594702	23S 43W 25CBD 02	237022.67	4212164.	3335.	3327.48	7.52	QA
324 1	380124102010201	23S 43W 26BCC 01	235080.12	4212437.5	3343.	3335.58	7.42	QA
335 1	380210101584801	23S 42W 19CBB 01	238449.53	4213644.5	3339.	3314.3	24.7	QAQU
336 1	380223102010301	23S 43W 23BCB 01	235238.27	4214334.	3356.	3335.54	20.46	QA
337 1	380236102023501	23S 43W 21ABA 01	232996.11	4214818.5	3364.	3351.42	12.58	QA
365 1	380652099105701	22S 17W 27BAB 01	484241.66	4218472.5	2035.	2029.51	5.49	QA
367 1	380712099090001	22S 17W 24CBC 01	486966.44	4218933.	2034.	2024.65	9.35	QA
371 1	380752099414101	22S 22W 13CCC 01	438936.47	4220445.	2152.	2126.81	25.19	QA
383 1	380949099043602	22S 16W 03CBC 02	493348.5	4223849.5	1996.	1982.7	13.3	QAQU
384 1	381015099132702	22S 17W 05BBC 02	480477.41	4224788.5	2036.	2016.53	19.47	QA
385 1	381021099074601	22S 16W 06BBA 01	488718.25	4224927.5	2010.	1994.89	15.11	QAQU
388 1	381047099185301	21S 18W 32DAA 01	472419.47	4225674.	2056.	2031.63	24.37	QA
390 1	381120099241101	21S 19W 27CCC 01	464508.06	4226836.5	2076.7	2034.4	42.3	QA
392 1	381147099272701	21S 19W 30BCC 01	459709.16	4227707.	2087.	2042.73	44.27	QA
394 1	381207099325201	21S 20W 29BBB 01	451654.38	4228421.	2104.	2063.08	40.92	QA
398 1	381333099025001	21S 16W 14ADC 01	496073.31	4230618.	1970.	1955.37	14.63	QAQU
400 1	381419098565201	21S 15W 11CBB 01	504456.03	4232234.5	1932.	1924.22	7.78	QA
403 1	381609099434801	20S 22W 35BCC 01	436004.78	4235769.5	2168.	2132.03	35.97	QA
404 1	381614098583801	20S 15W 33ADD 01	501871.38	4235585.5	1945.	1926.5	18.5	QAQU
409 1	381734098511501	20S 14W 22DCB 01	512478.5	4238028.	1897.	1884.	13.	QAQU
410 1	381739098552101	20S 15W 24DBD 01	506481.12	4238003.5	1915.	1902.4	12.6	QAQU
413 1	382004098352101	20S 11W 06CCC 01	535814.19	4242926.	1788.	1779.34	8.66	QA
414 1	382018098375001	20S 12W 03DAC 01	532159.38	4243104.5	1799.	1793.76	5.24	QA
416 1	382104098453301	19S 13W 33DDB 01	520922.47	4244485.5	1847.5	1838.43	9.07	QA
417 1	382137098493201	19S 14W 36BBC 01	514891.47	4245400.	1868.	1857.84	10.16	QAQU
419 1	382202098391201	19S 12W 28DBC 01	530190.06	4246207.	1815.	1801.44	13.56	QAQU
422 1	382321098503701	19S 14W 23BBD 01	513379.56	4248678.	1873.	1856.66	16.34	QA
424 1	382506098470501	19S 13W 08BAD 01	518860.38	4251937.	1855.	1839.59	15.41	QA
431 1	382704098593803	18S 15W 28CCC 03	500493.31	4255717.5	1912.5	1903.5	9.	QA
433 1	383129100142402	18S 26W 06BAB 02	391719.56	4264313.5	2570.	2563.1	6.9	QATO
444 1	391052101531101	10S 41W 15CAD 01	250782.31	4340550.5	3762.	3733.04	28.96	QATO
445 1	391158101460401	10S 40W 10ADC 01	261147.94	4342365.	3624.	3605.96	18.04	QATO
498 1	393310101295101	06S 37W 07BBA 01	285438.84	4381118.	3304.	3296.64	7.36	QA
516 1	394218101551201	04S 41W 16DAA 02	249674.84	4398843.	3403.	3387.29	15.71	QA
530 1	394850101490002	03S 40W 09BAA 01	259073.14	4410765.5	3358.	3338.8	19.2	QATO
538 1	395606101391601	01S 39W 25CBC 01	273204.34	4423737.5	3102.	3092.43	9.57	QA
539 1	395619101375201	01S 38W 30BDC 01	275193.62	4424166.5	3090.	3081.67	8.33	QA
540 1	395829101362501	01S 38W 08DCC 01	277424.72	4428077.	3057.1	3043.75	13.35	QA
541 1	395921101331801	01S 38W 02CDC 01	281760.47	4429382.5	3034.	3011.2	22.8	QA
547 2	395307100243001	02S 28W 13ABA 01	379548.88	4415766.50	2487.0	2462.65	24.35	QA
550 2	394859100301701	03S 28W 06DCB 01	371194.06	4408244.50	2571.0	2544.59	26.41	QA
552 2	394846100314901	03S 29W 12BBA 01	369030.03	4407870.00	2556.1	2541.60	14.50	QA
553 2	394715100355501	03S 29W 17DCB 01	363133.47	4405198.50	2587.0	2568.90	18.10	QATO
554 2	394432100370401	03S 29W 31DCC 01	361434.78	4400232.00	2633.0	2614.67	18.33	QA
555 2	394610100395001	03S 30W 26BBB 01	357516.03	4403322.50	2629.0	2622.50	6.50	QA
556 2	394248100150801	04S 26W 08DDD 01	392350.38	4396452.50	2455.7	2427.80	27.90	QA
557 2	394110100163301	04S 26W 19DCA 01	390327.72	4393466.00	2464.0	2449.92	14.08	QA
559 2	394005100215501	04S 27W 33BBB 01	382849.19	4391581.50	2528.0	2513.28	14.72	QA
562 2	394335100441701	04S 30W 07BBB 01	350933.06	4398616.00	2697.0	2690.32	6.68	QA
564 2	393505100115901	05S 26W 26DDA 01	396966.88	4382085.00	2437.0	2416.23	20.77	QA
565 2	393407100143101	05S 26W 33DCC 01	393124.94	4380358.00	2475.0	2458.25	16.75	QA
567 2	393814100305401	05S 28W 07BBC 01	369995.66	4388357.00	2644.0	2630.06	13.94	QA
568 2	393820100273201	05S 28W 10BBB 01	374798.28	4388488.00	2600.0	2593.09	6.91	QA
571 2	393610100341701	05S 29W 22CBB 01	365090.56	4384673.50	2686.0	2674.95	11.05	QA
574 2	395740100161901	01S 26W 18DDB 01	391061.31	4423987.50	2413.0	2389.32	23.68	QA
575 2	395925100331901	01S 29W 03DDB 01	367184.59	4427598.50	2539.0	2515.07	23.93	QA
576 2	395708100370701	01S 29W 19BDD 01	361720.09	4423501.00	2572.0	2559.79	12.21	QA
577 2	395458100395501	01S 30W 34DDD 01	357623.69	4419556.00	2610.0	2589.55	20.45	QA
581 2	375513099231701	24S 19W 34ADD 01	465941.69	4196978.50	2160.0	2152.94	7.06	QA
590 2	375329099260101	25S 19W 08BDD 01	461891.16	4193763.00	2185.	2182.31	2.69	QA

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
594 2	374935099304801	25S 20W 34CCC 01	454773.50	4186482.25	2219.0	2214.35	4.65	QA
610 2	374558099321601	26S 20W 20BBC 01	452388.56	4180808.00	2251.0	2242.33	8.67	QA
687 2	383247101573601	17S 42W 28DAB 01	242054.39	4270187.50	3762.0	3733.85	28.15	TO
702 2	380002097401703	23S 03W 32DCC 03	616498.56	4206500.00	1444.0	1433.51	10.49	QA
722 2	374139097591601	27S 06W 16CCB 01	589107.12	4172031.50	1462.0	1459.59	2.41	QA
739 2	373819098154001	28S 09W 01BCC 01	565063.62	4165814.75	1580.0	1572.65	7.35	QAQU
895 2	373905098332501	27S 11W 31DAA 01	539041.50	4167073.25	1726.0	1721.05	4.95	QA
917 2	395038100592301	02S 33W 26DCC 01	329820.97	4412078.50	2798.0	2781.60	16.40	QA
919 2	395006101140801	02S 35W 34CAA 01	308927.88	4411600.00	3064.0	3032.10	31.90	QATO
930 2	394854101003101	03S 33W 03DCC 01	328162.47	4408900.50	2823.0	2802.65	20.35	QA
931 2	394802101030301	03S 33W 08CDC 01	324488.28	4407392.50	2855.0	2840.60	14.40	QA
932 2	394940101071501	03S 34W 03ABB 01	318638.28	4410522.00	2882.0	2871.40	10.60	QA
933 2	394236100480601	04S 31W 16ABD 01	345493.34	4396878.00	2761.0	2753.50	7.50	QA
939 2	394605101062601	03S 34W 26BAC 01	319653.19	4403897.50	2900.0	2892.60	7.40	QA
940 2	394637101122001	03S 35W 24CBB 01	311338.84	4405111.00	3001.0	2975.94	25.06	QA
944 2	395419100471001	02S 31W 03CAD 01	347197.31	4418561.50	2665.0	2652.56	12.44	QA
945 2	395130100555301	02S 32W 20DCD 01	334750.03	4413618.50	2735.0	2728.10	6.90	QA
946 2	380329098051701	23S 07W 09DDD 01	579995.50	4212457.00	1590.	1581.98	8.02	QA
973 2	375507097474502	24S 04W 31DAB 02	605763.19	4197255.00	1487.0	1461.63	25.37	QA
985 2	375457098281801	24S 10W 31CBC 01	546546.56	4196431.50	1750.0	1739.97	10.03	QAQU
990 2	380825098015601	22S 06W 18BCB 01	584948.38	4221576.50	1575.	1566.0	9.00	QA
991 2	380614097594201	22S 06W 28CCB 01	588117.81	4217515.00	1555.0	1546.00	9.00	QA
1006 2	380423097531701	23S 05W 05DDC 01	597478.62	4214305.00	1529.0	1510.35	18.65	QA
1008 2	381918098152601	20S 09W 12DDA 01	564879.88	4241550.00	1664.0	1652.51	11.49	QA
1009 2	381530098053501	21S 07W 04AAC 01	579541.31	4234614.50	1615.0	1600.36	14.64	QA
1010 2	381134098040201	21S 07W 26CBD 01	581851.12	4227411.50	1595.0	1582.19	12.81	QA
1011 2	381411098125601	21S 08W 09CBD 01	568951.56	4232107.50	1647.0	1635.38	11.62	QA
1012 2	381203098090501	21S 08W 25ABB 01	574429.56	4228370.00	1620.0	1614.73	5.27	QA
1013 2	381048098133501	21S 08W 32DBB 01	567988.38	4225844.00	1641.0	1635.06	5.94	QA
1014 2	381453098163801	21S 09W 02DDA 01	563748.38	4233467.50	1670.0	1657.04	12.96	QA
1015 2	381344098174702	21S 09W 15AAC 02	561944.19	4231227.50	1669.0	1663.00	6.00	QA
1016 2	381305098260401	21S 10W 16CDC 01	549892.75	4229942.50	1720.0	1714.10	5.90	QUQA
1017 2	381701098190001	20S 09W 28ACD 01	559660.38	4237272.00	1690.	1670.6	19.40	QA
1019 2	381608098221001	20S 10W 36ACD 01	554690.12	4235611.50	1715.0	1702.75	12.25	QA
1020 2	381813098110101	20S 08W 22AAA 01	571321.81	4239563.50	1644.0	1629.70	14.30	QA
1028 2	382539100541601	19S 32W 06CCB 01	333719.25	4254730.50	2937.0	2859.44	77.56	QATO
1032 2	382223100594602	19S 33W 29CBB 02	325564.53	4248886.00	2994.0	2878.42	115.6	QATO
1062 2	375131097301402	25S 02W 23DBD 02	631423.25	4191016.25	1380.0	1364.51	15.49	QA
1063 2	375356097373601	25S 03W 03DDD 01	620495.81	4195266.50	1423.4	1413.03	10.37	QAQU
1074 2	374428097283501	26S 01W 31CCD 01	634182.06	4177614.75	1370.0	1332.42	37.58	QAQU
1078 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1344.72	15.28	QA
1100 2	393228100211301	06S 27W 08DCA 01	383663.28	4377490.50	2588.0	2572.11	15.89	QATO
1115 2	391801100273801	09S 28W 04BCC 01	374195.53	4350935.00	2677.0	2651.57	25.43	QATO
1121 2	390959100220001	10S 27W 20CBC 01	381908.06	4335947.50	2605.0	2588.10	16.90	QA
1122 2	391005100190401	10S 27W 22DBA 01	386139.62	4336055.50	2568.0	2550.71	17.29	QA
1124 2	390913100274901	10S 28W 29DAA 01	373669.88	4334675.00	2691.0	2656.05	34.95	QATO
1218 2	393039100574201	06S 33W 23DDD 01	331334.62	4375155.00	2997.0	2984.80	12.20	QA
1222 2	390940100443201	10S 31W 26AAA 01	349612.84	4335926.50	2891.0	2881.31	9.69	QATO
1259 2	392854100473701	06S 31W 33CCD 01	345936.50	4371642.50	2916.0	2880.63	35.37	QATO
1271 2	385919099542601	12S 23W 20CCC 01	421457.28	4315550.50	2373.6	2357.26	16.34	QATO
1307 2	382851101291601	18S 38W 23BAB 01	282937.34	4261821.50	3340.0	3268.90	71.10	QATO

APPENDIX D
OBSERVATION WELLS REACHING
BEDROCK OR OUTSIDE THE BOUNDARIES
OF THE HIGH PLAINS AQUIFER

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
164 1	374048099474001	27S 23W 24BCB 01	429733.66	4171162.75	2395.	2340.29	54.71	KD
173 1	374221101281501	27S 38W 15BBB 01	282032.34	4176019.25	3148.	2962.6	185.4	KJ
198 1	374507101580601	26S 43W 25DCC 01	238304.16	4182366.5	3508.	3266.03	241.97	QUTOKJ
199 1	374529099433401	26S 22W 21DCD 01	435845.53	4179797.5	2377.	2337.58	39.42	KD
210 1	374708101562401	26S 42W 17CBB 01	241001.86	4186162.5	3458.	3259.49	198.51	QUTOKJ
211 1	374725099485601	26S 23W 10DAD 01	428218.66	4183524.	2463.	2282.52	180.48	KD
223 1	374936100052801	25S 25W 32CDD 01	403934.34	4186945.75	2607.	2404.68	202.32	QUKD
232 1	375028099434701	25S 22W 27CCD 01	435718.12	4188259.75	2432.	2390.56	41.44	KD
236 1	375116101410801	25S 40W 26BBB 01	263595.69	4192903.	3412.	3185.66	226.34	KJ
240 1	375150101304801	25S 38W 20ACC 01	278822.25	4193540.25	3175.	3087.64	87.36	QUTOKJ
249 1	375307099492701	25S 23W 11CCC 01	427398.28	4193080.25	2424.	2343.97	80.03	KD
251 1	375328101305701	25S 38W 08CAA 01	278708.41	4196515.	3140.	3095.43	44.57	QUTOKJ
253 1	375353099482001	25S 23W 12BBB 01	428963.31	4194667.	2390.	2231.54	158.46	KD
260 1	375446102013601	25S 43W 03ABB 01	234013.84	4200331.	3575.	3306.27	268.73	KJ
272 1	375544101553801	24S 42W 28DDD 01	242708.47	4201768.5	3455.	3285.23	169.77	KJ
280 1	375653099392401	24S 21W 20CBB 01	441950.09	4200090.	2348.	2272.82	75.18	KD
283 1	375706100585702	24S 33W 19DBB 02	329715.31	4202313.	2927.8	2809.12	118.68	KD
290 1	375749102010201	24S 43W 14CBB 01	234905.19	4205868.5	3452.	3332.16	119.84	KJ
292 1	375812100591302	24S 33W 18DBB 02	325349.47	4204019.	2878.	2784.55	93.45	KD
298 1	375832100571003	24S 33W 09CCD 03	328370.91	4204593.5	2865.	2807.58	57.42	KD
307 1	375958099530101	24S 23W 06AAB 01	422361.69	4206004.	2457.	2253.05	203.95	KD
318 1	380105101433601	23S 40W 29DDB 01	260398.41	4211190.5	3397.	3083.34	313.66	KU
343 1	380335100132701	23S 26W 07CCC 01	326251.56	4212888.	2612.	2296.26	315.74	KD
347 1	380351099461501	23S 22W 07DAA 01	432352.47	4212979.5	2239.	2157.19	81.81	KD
348 1	380352099550501	23S 24W 11DAA 01	419525.5	4213371.5	2335.	2209.94	125.06	KD
349 1	380412099473801	23S 23W 12ABD 01	430326.03	4213562.5	2256.	2189.14	66.86	KD
350 1	380432099505701	23S 23W 04DCA 01	425481.97	4214477.5	2236.	2211.1	24.9	KD
355 1	380504099504001	23S 23W 04AAD 01	425892.19	4215432.5	2235.	2209.77	25.23	KD
359 1	380530099551301	22S 24W 35DAC 01	419296.56	4216407.5	2312.	2204.95	107.05	KD
362 1	380609099540701	22S 24W 25DDC 01	420931.38	4217466.	2332.	2203.93	128.07	KD
363 1	380616099550401	22S 24W 26DDA 01	419550.72	4217617.	2365.	2212.67	152.33	KD
366 1	380701099535801	22S 24W 24DDD 01	420911.34	4219120.5	2360.	2207.11	152.89	KD
375 1	380823100144801	22S 27W 14ADC 01	390655.62	4221797.	2458.	2289.95	168.05	KJ
376 1	380827099564301	22S 24W 15BDA 01	418058.81	4221860.	2463.	2207.37	255.63	KD
378 1	380929099240301	22S 19W 10BBA 01	464791.09	4223537.5	2087.	2036.74	50.26	KD
379 1	380930099263001	22S 19W 07AAA 01	461248.5	4223530.5	2102.	2046.08	55.92	KD
381 1	380932101045601	22S 34W 08BCB 01	317368.28	4225264.5	2987.	2851.5	135.5	KN
399 1	381340101010701	21S 34W 14DBB 01	323117.31	4232914.5	2947.	2845.66	101.34	KN
402 1	381550099532001	20S 23W 32CDA 01	422295.44	4235263.5	2233.	2199.62	33.38	QA
406 1	381728099470701	20S 22W 20CCC 01	431143.81	4238214.5	2189.	2150.09	38.91	QA
412 1	381946100141801	20S 26W 07BDC 01	391676.	4242666.	2538.	2518.42	19.58	QA
423 1	382447099534801	19S 23W 08CBB 01	421588.22	4251844.	2220.	2202.35	17.65	QAQU
425 1	382526099492301	19S 23W 01CCB 01	428146.25	4253084.5	2214.	2126.6	87.4	KD
427 1	382632099411501	18S 21W 31CAA 01	439938.56	4254995.	2122.	2095.52	26.48	QAQU
428 1	382645099551201	18S 24W 36ADB 01	419760.94	4255517.5	2235.	2203.02	31.98	QA
429 1	382656100055901	18S 25W 33BBC 01	403915.38	4255791.	2402.	2387.01	14.99	QA
432 1	382749099352001	18S 21W 25AAB 01	448621.16	4257386.5	2085.	2060.14	24.86	QA
611 2	384305099232201	15S 19W 25CAB 01	466263.03	4285312.50	1937.0	1921.61	15.39	QA
612 2	385313099211601	13S 18W 29CCC 01	469361.19	4304006.50	2000.0	1986.30	13.70	QU
613 2	385115099155401	14S 18W 12AAD 01	477173.59	4300367.00	2000.0	1976.31	23.69	QU
614 2	384246099165101	15S 18W 25CCD 01	475728.19	4284682.00	1910.0	1894.87	15.13	QA
618 2	385423100142501	13S 26W 20CBC 01	392278.59	4306806.00	2432.0	2426.59	5.41	QA
619 2	385519100193402	13S 27W 16CA 02	384883.84	4308658.00	2490.0	2476.45	13.55	QA
620 2	385532100234301	13S 28W 14AC 01	378891.28	4309223.50	2538.0	2530.51	7.49	QU
650 2	392151099410501	08S 21W 17ABB 01	440920.59	4357202.50	2035.0	2014.49	20.51	QA
651 2	392105099491801	08S 22W 18CDC 01	429219.22	4355858.50	2122.0	2114.22	7.78	QA
652 2	392038099575401	08S 24W 23ACC 01	416782.09	4355073.50	2242.0	2212.43	29.57	QA
653 2	392058100035201	08S 25W 24BAB 01	408384.03	4355777.00	2302.0	2276.70	25.30	TO
661 2	373015101300701	29S 38W 20CDC 01	278865.25	4153653.25	3139.0	2929.80	209.2	QUTOKJ
669 2	372825101153801	30S 36W 04ABB 01	300116.28	4149632.00	3033.0	2872.43	160.6	QUTOKJ
671 2	372759101210001	30S 37W 03DBA 01	292238.88	4149029.75	3108.0	2806.28	301.7	QUTOKJ
673 2	372556101260201	30S 38W 13CCC 01	284711.03	4145428.00	3142.0	2908.36	233.6	QUTOKJ
797 2	385421101210001	13S 36W 20CCB 01	296185.84	4308857.50	3023.0	3014.25	8.75	QA
824 2	372135101491101	31S 41W 07CDD 01	250293.98	4138409.50	3441.0	3306.76	134.2	KJ
825 2	371817101492301	31S 41W 31CBC 01	249497.34	4132384.50	3441.0	3337.93	103.1	KJ
826 2	371945101541201	31S 42W 29AAB 01	242749.23	4135224.00	3510.0	3404.31	105.7	QUTOKJ
828 2	371649101424801	32S 40W 07BDC 01	259471.88	4129240.00	3302.0	3187.32	114.7	QUTOKJ
827 2	372043101572701	31S 43W 14DDC 01	238012.45	4137194.00	3576.0	3502.80	73.20	KD
830 2	371531101460301	32S 41W 15CDC 01	254569.39	4126971.00	3360.0	3335.48	24.52	QUTOKJ
831 2	371255101444201	32S 41W 35DCC 01	256457.91	4122072.50	3420.0	3237.98	182.0	QUTOKJ
832 2	371531101514501	32S 42W 14CCC 01	246138.56	4127230.75	3500.0	3364.83	135.2	QUTOKJ
833 2	371505101535601	32S 42W 21BCC 01	242898.39	4126541.00	3526.0	3369.47	156.5	QUTOKJ
834 2	371347101512101	32S 42W 26CDD 01	246652.70	4123977.75	3485.0	3325.22	159.8	QUTOKJ
835 2	371636102012301	32S 43W 08CBD 01	763929.31	4129560.00	3615.0	3507.80	107.2	QUTOKJ
836 2	371426102002601	32S 43W 28BBC 01	765491.19	4125558.00	3526.0	3555.01	71.0	QUTOKJ
843 2	371130101594601	33S 43W 09DBA 01	234105.52	4120116.75	3612.0	3516.99	95.01	QUTOKJ
844 2	370655101362201	34S 39W 06CCA 01	268451.06	4110635.00	3310.0	3185.47	124.5	QUTOKJ
849 2	372043101363101	31S 39W 18CCC 01	268878.03	4136211.75	3246.0	3017.87	228.1	QUTOKD

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology
856 2	393709099594501	05S 24W 14BDC 01	414515.16	4385682.50	2250.0	2238.00	12.00	QU
867 2	393822099395801	05S 21W 10AAA 01	442817.50	4387666.00	1996.0	1988.26	7.74	QA
868 2	393643099505401	05S 22W 18CCD 01	427159.94	4384746.00	2130.0	2122.28	7.72	QA
869 2	392710098591901	07S 15W 10CCC 01	501004.34	4366760.50	1648.0	1631.71	16.29	QA
870 2	393038098374501	06S 12W 23CDC 01	531731.12	4373299.00	1505.8	1490.81	14.99	QU
871 2	392518098393601	07S 12W 28ABA 01	529011.56	4363525.50	1531.0	1501.71	29.29	QU
872 2	394013099194801	04S 18W 27DDD 01	471804.41	4390941.50	1770.0	1760.10	9.90	QA
873 2	393922099253001	04S 19W 35DDD 01	463761.53	4389356.00	1851.0	1839.50	11.50	QA
1018 2	381718098251501	20S 10W 27BBB 01	550442.44	4237768.00	1786.0	1753.89	32.11	KD
1021 2	392533099243701	07S 19W 23CDB 01	464633.69	4363898.00	1878.5	1863.47	15.03	QA
1022 2	392618099110701	07S 17W 14CDD 01	484080.91	4365204.50	1725.0	1708.57	16.43	QA
1103 2	392123100105401	08S 26W 14DAA 01	398169.69	4356722.00	2398.0	2386.03	11.97	QA
1177 2	372715101513901	30S 42W 12ACC 01	246961.66	4149015.75	3457.0	3263.55	193.5	KJ
1178 2	372629101551101	30S 42W 16BDB 01	241685.88	4147785.75	3524.0	3351.28	172.7	KJ
1179 2	372355102004101	30S 43W 34BBA 01	764380.19	4143563.50	3622.0	3536.33	85.0	QUTOKD
1180 2	372402101584001	30S 43W 36BB 01	236396.80	4143415.75	3595.0	3508.73	86.27	QUTOKJ
1181 2	373901101464301	27S 41W 35CCC 01	254885.00	4170553.25	3340.0	3147.42	192.6	QUTOKJ
1182 2	374138101562901	27S 42W 17CCC 01	240622.30	4175914.00	3496.0	3250.74	245.3	QUTOKJ
1186 2	373202101561501	29S 42W 08CDC 01	240451.98	4158132.00	3517.0	3325.99	191.0	KJ
1187 2	373024102011701	29S 43W 21DCDD01	763286.12	4155039.00	3566.0	3461.14	104.9	KD
1188 2	373024102012002	29S 43W 21DCDD02	763286.12	4155039.00	3568.0	3446.90	121.1	JM
1189 2	373024102012003	29S 43W 21DCDD03	763286.12	4155039.00	3566.0	3464.36	101.6	KD
1190 2	372840102014101	29S 43W 33CDB 01	762699.38	4152024.50	3654.0	3528.55	125.4	KJ
1191 2	373703101334001	28S 39W 14BBC 01	273962.34	4166288.00	3158.0	2992.83	165.2	QUTOKJ
1192 2	373624101355001	28S 39W 16CCC 01	270706.69	4165161.75	3171.0	2972.04	199.0	QUTOKD
1200 2	373433101563101	28S 42W 32BBB 01	240215.55	4162801.75	3540.0	3328.40	211.6	KJ
1203 2	372504101384901	30S 40W 24CDC 01	265729.94	4144366.50	3237.0	3052.41	184.6	QUTOKJ
1204 2	372326101422301	30S 40W 33CCB 01	260408.75	4141513.25	3309.0	3116.48	192.5	KJ
1206 2	372510101455601	30S 41W 23DDB 01	255272.17	4144901.00	3365.0	3173.12	191.9	QUTOKJ
1270 2	385026100025601	14S 25W 13ABC 01	409029.19	4299195.00	2245.0	2229.80	15.20	QA
1293 2	385314101395701	13S 39W 33BBB 01	268834.06	4307387.00	3322.0	3296.60	25.40	TO

APPENDIX E
OBSERVATION WELLS WITHOUT
SURFACE ELEVATION

No.	USGS ID	Legal Description	Coordinates		LSE ft	7.5' Quadrangle
			Easting m	Northing m		
590 2	375329099260101	25S 19W 08BDD 01	461891.16	4193763.00	2185	Kinsley
588 2	375201099190201	25S 18W 20AAB 01	472126.31	4191015.75	2185	Centerview
678 2	383915101522101	16S 41W 20ABC 01	250012.48	4281840.50	3735	Sharon Springs 3NE
762 2	373801099185901	28S 18W 05CDB 01	472088.09	4165019.00	2225	Greensburg NE
771 2	373310099015901	29S 16W 02ADB 01	496906.78	4155966.25	2110	Haviland NE
773 2	373202099071801	29S 17W 12DAA 01	489144.81	4153988.00	2100	Haviland
857 2	394340099532401	04S 23W 03DDD 01	423693.25	4397652.50	2370	Edmond NW
858 2	394012099531601	04S 23W 26CCC 01	423791.62	4391213.00	2300	Edmond NW
859 2	394156100054101	04S 25W 13CCC 01	406114.75	4394629.00	2520	Clayton NE
861 2	395306100054301	02S 25W 14AAA 01	406306.72	4415336.00	2530	Devizes
866 2	394945099420101	02S 21W 33CCC 01	440055.50	4408814.50	2280	Almena SW
888 2	372952098542102	29S 15W 25AAB 02	508324.72	4149976.75	1960	Sun City
946 2	380329098051701	23S 07W 09DDD 01	579995.50	4212457.00	1590	Yaggy
976 2	375652097571701	24S 06W 23CBA 01	591812.31	4200236.00	1555	Elmer
990 2	380825098015601	22S 06W 18BCB 01	584948.38	4221576.50	1575	Nickerson
1017 2	381701098190001	20S 09W 28ACD 01	559660.38	4237272.00	1690	Chase
1104 2	391847100183701	08S 27W 35CBB 01	387029.31	4352071.50	2640	Tasco
1126 2	391006100345201	10S 29W 20CAA 01	363258.34	4336459.50	2820	Grinnel NE
1233 2	392901101093401	06S 34W 31CDB 01	314219.66	4372606.00	3255	Levant
1236 2	393310101231501	06S 36W 07BBB 01	294834.84	4380772.00	3410	Dewey Ranch SW

APPENDIX F
MULTIPLE OBSERVATIONS AND
WELLS IN CLOSE PROXIMITY

No.	USGS ID	Legal description	Easting m	Northing m	LSE ft	WTE ft	DTW ft	Geology	Distance m
297 1	375832100571002	24S 33W 09CCD 02	328318.62	4204594.5	2865.	2853.59	11.41	QA	52 to well 296
387 1	381022098570002	22S 15W 03AAA 02	504459.38	4224940.5	1970.	1935.96	34.04	QU	0 to well 386
697 2	380001097313001	23S 02W 34DCC 01	629383.12	4206673.00	1398.5	1381.99	16.51	QU	0 to well 696
698 2	380001097313001	23S 02W 34DCC 01	629383.12	4206673.00	1398.5	1382.21	16.29	QU	0 to well 696
699 2	380001097313001	23S 02W 34DCC 01	629383.12	4206673.00	1398.5	1382.30	16.20	QU	0 to well 696
707 2	375540097320901	24S 02W 28DDD 01	628500.81	4198594.50	1403.0	1328.83	74.17	QU	0 to well 706
708 2	375540097320901	24S 02W 28DDD 01	628500.81	4198594.50	1403.0	1326.25	76.75	QU	0 to well 706
709 2	375540097320901	24S 02W 28DDD 01	628500.81	4198594.50	1403.0	1367.65	35.35	QU	0 to well 706
711 2	375811097373001	24S 03W 14BBB 01	620579.81	4203134.50	1430.0	1413.60	16.40	QU	0 to well 710
712 2	375811097373001	24S 03W 14BBB 01	620579.81	4203134.50	1430.0	1413.58	16.42	QU	0 to well 710
713 2	375811097373001	24S 03W 14BBB 01	620579.81	4203134.50	1430.0	1412.64	17.36	QU	0 to well 710
878 2	374403098372302	26S 12W 34CDC 02	533366.31	4176120.50	1884.0	1841.51	42.49	QU	0 to well 877
1064 2	375356097373601	25S 03W 03DDD 01	620495.81	4195266.50	1423.4	1413.03	10.37	QAQU	0 to well 1063
1065 2	375356097373601	25S 03W 03DDD 01	620495.81	4195266.50	1423.4	1413.15	10.25	QAQU	0 to well 1063
1066 2	375356097373601	25S 03W 03DDD 01	620495.81	4195266.50	1423.4	1412.04	11.36	QAQU	0 to well 1063
1071 2	374659097280201	26S 01W 19ABA 01	634864.12	4182285.25	1351.7	1345.12	6.58	QU	0 to well 1070
1072 2	374659097280201	26S 01W 19ABA 01	634864.12	4182285.25	1351.7	1346.48	5.22	QU	0 to well 1070
1079 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1344.62	15.38	QA	0 to well 1078
1080 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1344.70	15.30	QA	0 to well 1078
1081 2	375210097232601	25S 01W 14DDD 01	641504.62	4192352.25	1360.0	1345.04	14.96	QA	0 to well 1078
1073 2	374659097280201	26S 01W 19ABA 01	634864.12	4182285.25	1351.7	1345.72	5.98	QU	0 to well 1070
1127 2	391037101250601	10S 37W 23ABB 01	291119.66	4339060.50	3421.0	3214.81	206.19	TO	123 to well 443
1246 2	392329101040201	08S 34W 01BAC 01	321970.97	4362064.50	3177.0	3046.41	130.59	TO	0 to well 1245
1247 2	392329101040201	08S 34W 01BAC 01	321970.97	4362064.50	3177.0	3046.45	130.55	TO	0 to well 1245
1248 2	392329101040201	08S 34W 01BAC 01	321970.97	4362064.50	3177.0	3045.96	131.04	TO	0 to well 1245
1277 2	390254101305402	11S 38W 35CCC 02	282362.28	4325056.00	3372.0	3255.42	116.58	TO	98 to well 436

APPENDIX G
OBSERVATION WELLS WITH
INCORRECT SURFACE ELEVATION

No.	USGS ID	Legal description	Wrong	Correct
771 2	373310099015901	29S 16W 02ADB 01	2110	2040
841 2	371203101542801	33S 42W 05DCC 01	3235	3525
847 2	370342101471501	34S 41W 28CBA 01	3299	3435
852 2	370001101472201	35S 41W 16CCD 01	3385	3520

APPENDIX H
PROPOSED CENTROIDS FOR NETWORK EXPANSION

	Section	County
1	3S 40W 19	Cheyenne
2	4S 39W 15	
3	5S 40W 27	
4	5S 41W 23	
5	23S 32W 24	Finney
6	24S 31W 3	
7	24S 32W 29	
8	24S 32W 36	
9	24S 34W 16	
10	26S 31W 26	Grant
11	27S 36W 4	
12	28S 36W 14	
13	28S 38W 36	Gray
14	30S 37W 11	
15	26S 28W 2	
16	26S 28W 5	
17	28S 28W 10	Harvey
18	29S 30W 3	
19	23S 3W 29	
20	29S 34W 11	Haskell
21	30S 31W 6	
22	30S 34W 12	
23	24S 26W 29	Hodgeman
24	26S 35W 23	Kearny
25	27S 11W 32	Pratt
26	5S 35W 20	Rawlins
27	5S 36W 20	
28	25S 2W 8	Sedgwick
29	31S 31W 10	Seward
30	31S 32W 2	
31	6S 28W 22	Sheridan
32	6S 38W 17	Sherman
33	21S 13W 12	Stafford
34	31S 36W 27	Stevens
35	32S 35W 31	
36	33S 36W 27	
37	33S 37W 27	Wichita
38	34S 35W 4	
39	19S 38W 1	